

Product Catalogue 2021



Product Catalogue

2021

Oventrop

Wir regeln das.
Seit 1851.



We are the partner
for efficient heating, cooling
and clean potable water.



Regumaq X-45 Fresh water station

With our modular systems, all HVAC experts can work easily and flexibly – due to the possibility of adapting our pioneering solutions to their requirements. Our close cooperation with craftsmen and our extensive experience make us the competent leader in hydronic systems.

As a family business from the Sauerland region, we accompany all our partners over years – reliably and personally – from planning to installation, over commissioning to maintenance. *With our digital services* we create an added value throughout the entire process.

We produce long-lasting, high quality products which can be globally connected to flexible systems – easy to install, energy-efficient and always reliable.

Wir regeln das. Seit 1851.

WHAT SETS US APART:



Modularly combinable product portfolio

With over 4,000 product components in the areas of indoor climate, hydronics, potable water, stations and smart home, we always find a suitable connection.



Personal service

Our competent staff will be happy to assist you by telephone or on site, for example with the design and commissioning of our products.



Pioneer

In the 1960s, our oil filters were instrumental in paving the way for oil heating. Today, our efficient dwelling stations are perfectly matched to regenerative energies.



Best in industry as for design

No other company in the heating fittings industry has received more awards than we have.



Oventrop Academy

Our OV Academy is the training platform for plumbers, planning engineers as well as responsible persons in authorities and in residential construction.

For further information and our current regional offers, please contact **your local Oventrop contact person directly.**



Face-to-face events
for direct exchange on site



Online seminars
for more flexibility



Contact at a glance

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System competence

for efficient heating, cooling
and clean potable water





Room climate



Radiator fittings and controllers
Electronic room temperature control



Hydronics



Control valves for hydronics
Volume flow controllers



Stations, Storage cylinders



Dwelling stations
Stations for local and district heating



Potable water



Potable water technology
Aquanova System



Oil, Solar



Solar collectors
Oil heating technology



Smart Home, Smart Building



Central control and regulation technology

1



Room climate



2



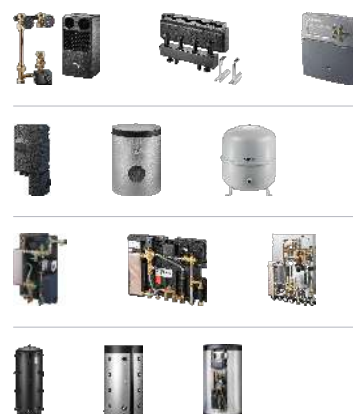
Hydronics



3



Stations
Storage cylinders



4



Potable water



5



Oil
Solar



6



Smart Home
Smart Building



7



Service and data

Room temperature control

Hydronic balancing at the radiator

Surface heating and cooling

Hydronic balancing of risers in heating and cooling systems

Hydronic balancing with pressure independent control valves

Connection and control of heating and cooling devices

Differential pressure measurement and verification of water quantities

Shutoff valves and other pipeline valves, connection technology

Stations for heating circuit and cooling circuit connection

Stations for local and district heating

Stations for hot potable water preparation

Storage cylinders

Products for the preservation of potable water hygiene

Shutoff valves and other products for potable water

Products for heating oil installations

Solar thermal energy

System solutions for monitoring and automation

Components for control, regulation and the building management system (BMS)

Service

General information





1 Room climate

1.1 Room temperature control

Thermostatic heads.....	19
Room thermostats.....	37
Actuators.....	50
Radiator sets.....	57

1.2 Hydronic balancing at the radiator

Q-Tech Automatic hydronic balancing.....	65
Thermostatic radiator valves.....	76
Radiator lockshield valves.....	97
Valve inserts for compact radiators.....	107
H-blocks.....	113
Heating circuit distributors/collectors for radiators.....	124
Connection technology.....	128
One pipe.....	138
Valve sets.....	149

1.3 Surface heating and cooling

Heating circuit distributors/collectors for surface heating and surface cooling.....	155
Pipes and laying systems.....	169
Stations for surface heating systems.....	186
Room thermostats and controllers.....	193
Surface temperature regulation with return temperature limitation.....	211
Surface heating with decentralised distribution.....	219
Return temperature limiters.....	225



2 Hydronics

2.1 Hydronic balancing of risers in heating and cooling systems

HydroControl Balancing and pipeline valves.....	233
Hydromat Differential pressure regulators.....	259
HydroCom and Hycocon Balancing and pipeline valves.....	264
Other balancing and pipeline valves.....	275

2.2 Hydronic balancing with pressure independent control valves

Cocon Q Pressure independent control valves.....	279
Actuators.....	289

2.3 Connection and control of heating and cooling devices

Optibal W6 Control ball valve.....	299
Flypass Connection sets.....	303
Tri-CTR Three-way valves.....	309
Hycoccon Control valves.....	313

2.4 Differential pressure measurement and verification of water quantities

OV Measuring system.....	319
Measuring orifices.....	324

2.5 Shutoff valves and other pipeline valves, connection technology

Optibal Ball valves.....	329
Fill and drain cocks.....	344
Shutoff valves.....	351
Other pipeline valves.....	360
Connection technology.....	375



3 Stations, Storage cylinders

3.1 Stations for heating circuit and cooling circuit connection

Regumat Stations for heating circuits.....	387
Regumat Stations for solid fuel boilers.....	409
Regumat Accessories.....	414

3.2 Stations for local and district heating

Regudis H Transmission stations for local and district heating networks.....	445
--	-----

3.3 Stations for hot potable water preparation

Regumaq X Fresh water stations for central hot potable water preparation.....	453
Regudis W Dwelling stations for decentralised hot potable water preparation.....	471

3.4 Storage cylinders

Hydrocor Storage cylinders.....	507
Regucor Energy storage centres.....	513



4 Potable water

4.1 Products for the preservation of potable water hygiene

Aquastrom Thermal circulation valves.....	525
Aquastrom Static control valves.....	538
Circulation and flushing stations.....	544

4.2 Shutoff valves and other products for potable water

Aquastrom Free-flow and KFR valves.....	553
Optibal Ball valves for potable water.....	568
System components for the potable water installation.....	572
Potable water distribution.....	581
Products for potable water treatment.....	588



5 Oil, Solar

5.1 Products for heating oil installations

Deaerators and filters for oil heating technology.....	601
Tank equipment for oil heating technology.....	612
Pipeline valves and components for oil heating technology.....	625
Sets.....	637

5.2 Solar thermal energy

Regusol Stations.....	641
Regtronic Electronic controllers.....	658
Solar Diaphragm expansion tanks.....	663
OV-Flex ST Pipes and connectors.....	667
OKP Tube collectors.....	670
OKF Flat-plate collectors.....	675
Solcos Solar packages.....	683



6 Smart Home, Smart Building

6.1 System solutions for monitoring and automation

Smart Building system solutions.....	691
Smart Home system solutions.....	707

6.2 Components for control, regulation and the building management system (BMS)

Room thermostats.....	719
Actuators.....	730
Controllers.....	739



7 Service and data

7.1 Service

System design.....	751
Services.....	756

7.2 General information

General information.....	763
Index.....	765



Room climate

1



1.1 Room temperature control

Thermostatic heads 19

Uni L Thermostats.....	20
Uni L Special thermostats.....	22
Uni X Thermostats.....	25
Uni SH Thermostats.....	27
pinox Thermostats.....	28
vindo Thermostats.....	29
Uni CH Thermostats.....	30
Uni F Thermostats.....	31
mote 200 Electronic wireless thermostat (Bluetooth).....	32
Manual regulating heads.....	33
Thermostats Accessories and spare parts.....	34

Room thermostats 37

ClimaCon F Room thermostats for surface heating.....	38
Room thermostats heating.....	40
Room thermostats heating/cooling.....	42
Room thermostats heating/cooling with fan control.....	43
Room thermostats Accessories.....	44
R-Tronic Wireless thermostats.....	46
R-Tronic Accessories.....	48
i-Tronic Climate meter.....	49

Actuators 50

Aktor T Electrothermal actuators.....	51
Aktor T Accessories.....	53
Aktor M Electromotive actuators.....	54
Actuators with radio interface.....	56

Radiator sets 57

Sets with Uni LH thermostat.....	58
Sets with Uni SH thermostat.....	59
Sets with pinox thermostat.....	61
Sets with vindo TH thermostat.....	62



1.1 Room temperature control

Thermostatic heads	19
Uni L Thermostats.....	20
Uni L Special thermostats.....	22
Uni X Thermostats.....	25
Uni SH Thermostats.....	27
pinox Thermostats.....	28
vindo Thermostats.....	29
Uni CH Thermostats.....	30
Uni F Thermostats.....	31
mote 200 Electronic wireless thermostat (Bluetooth).....	32
Manual regulating heads.....	33
Thermostats Accessories and spare parts.....	34

Uni L Thermostats



The **Uni L thermostat** impresses with its **simple** and **timeless design**. Handling and readability are optimally matched. The radiator thermostat is equipped with a memo disc to mark a selected setting, which makes it easy to re-set a desired temperature after turning the handwheel.

The control range can be limited or blocked using the concealed **limiting elements**. In case of unfavourable lighting conditions or for visually impaired persons, the basic setting "3" can easily be found again by using the palpable setting aids.

Control element	Liquid sensor	Max. heating medium temperature	120 °C
Remote control	No		

Uni LH with M 30 x 1.5



Connection thread	M 30 x 1.5	Anti-theft device	Accessories
Setting aid for visually impaired persons	Yes	Blocking / Limiting	Yes

Colour	RAL*	Zero position	Frost protection	Control range (°C)	PU	Item No.
White	9016	No	Yes	7 up to 28	10	1011464
White	9016	Yes	Yes	7 up to 28	10	1011465
Anthracite	7016	Yes	Yes	7 up to 28	25	1011467
Gold	-	Yes	Yes	7 up to 28	25	1011468
Chrome	-	Yes	Yes	7 up to 28	25	1011469
White	9016	No	No	8 up to 38	10	1011488

Uni LH with remote sensor, M 30 x 1.5



Connection thread	M 30 x 1.5	Anti-theft device	Accessories
Frost protection	Yes	Blocking / Limiting	Yes
Setting aid for visually impaired persons	Yes		

Colour	RAL*	Zero position	Length capillary* (mm)	Control range (°C)	PU	Item No.
White	9016	Yes	2,000	7 up to 28	792	1011665
White	9016	Yes	5,000	7 up to 28	75	1011666
White	9016	No	2,000	7 up to 28	75	1011682
White	9016	No	2,000	8 up to 38	10	1011688

Uni LHB (lockshield configuration) with M 30 x 1.5


Connection thread	M 30 x 1.5	Anti-theft device	Yes
Frost protection	Yes	Protection against vandalism	Yes
Lockshield configuration	Yes	PU	10
Setting aid for visually impaired persons	No		

Colour	RAL*	Zero position	Control range (°C)	Item No.
White	9016	No	7 up to 28	1011410

Uni LD with squeeze connection


Connection thread	Squeeze connection	Anti-theft device	Accessories
Frost protection	Yes	Blocking / Limiting	Yes
Setting aid for visually impaired persons	Yes		

Colour	RAL*	Zero position	Control range (°C)	PU	Item No.
White	9016	No	7 up to 28	10	1011472
White	9016	Yes	7 up to 28	10	1011475
Anthracite	7016	Yes	7 up to 28	25	1011478
Chrome	-	Yes	7 up to 28	25	1011479

Uni LD with remote sensor, squeeze connection


Frost protection	Yes	Anti-theft device	Accessories
Connection thread	Squeeze connection	Blocking / Limiting	Yes
Setting aid for visually impaired persons	Yes	PU	75

Colour	RAL*	Zero position	Control range (°C)	Length capillary* (mm)	Item No.
White	9016	Yes	7 up to 28	2,000	1011685

Uni LDB (lockshield configuration) with squeeze connection


Connection thread	Squeeze connection	Anti-theft device	Yes
Frost protection	Yes	Protection against vandalism	Yes
Setting aid for visually impaired persons	No	PU	10

Colour	RAL*	Zero position	Control range (°C)	Item No.
White	9016	No	7 up to 28	1011440

Uni L Special thermostats



The special thermostats follow the **design of the Uni L thermostat**. Handling and readability are optimally matched. The radiator thermostat is equipped with a memo disc to mark a selected setting, which makes it easy to reset a desired temperature after turning the handwheel.
The control range can be limited or blocked

using the concealed **limiting elements**. In case of unfavourable lighting conditions or for visually impaired persons, the basic setting "3" can easily be found again by using the palpable setting aids.
The connection threads are specially adapted to the specified valve manufacturers.

Control element	Liquid sensor	Setting aid for visually impaired persons	Yes
Zero position	Yes	Blocking / Limiting	Yes
Frost protection	Yes	Max. heating medium temperature	120 °C
Control range	7 up to 28 °C	PU	10
Remote sensor	No		
Remote control	No		
Protection against vandalism	No		

Uni L with M 30 x 1.0

Suitable for Oventrop thermostatic valves manufactured until 1998.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 30 x 1.0	Accessories	1011401

Uni LK with M 28 x 1.0

Suitable for Kosmia thermostatic valves.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 28 x 1.0	No	1613501

Uni LA with M 28 x 1.5

Suitable for Herz thermostatic valves.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 28 x 1.5	Accessories	1613401

Uni LI with M 32 x 1.0

Suitable for Ista thermostatic valves manufactured from 1985.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 32 x 1.0	No	1616200

Uni LR with M 33 x 2.0

Suitable for Rosswainer thermostatic valves.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 33 x 2.0	No	1616301

Uni LM with M 38 x 1.5

Suitable for Meges thermostatic valves.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 38 x 1.5	No	1616100

Uni LO with M 38 x 1.5

Suitable for Oreg (Ondal) thermostatic valves.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	M 38 x 1.5	No	1616500

Uni LDV with squeeze connection

Suitable for Danfoss thermostatic valves series RAV.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	Squeeze connection (Ø 26 mm)	No	1616675

Uni LDVL with squeeze connection

Suitable for Danfoss thermostatic valves series RAVL.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	Squeeze connection (Ø 34 mm)	No	1616575

Uni LV with squeeze connection

Suitable for Vaillant thermostatic valves manufactured from 1981.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9016	Squeeze connection	No	1616001

maxi/mini with M 40 x 1.5

Suitable for Oventrop maxi/mini thermostatic valves manufactured until 1974.



Colour	RAL*	Connection thread	Anti-theft device	Item No.
White	9010	M 40 x 1.5	No	1015500

Uni X Thermostats



The **Uni X thermostat** is a **design oriented** radiator thermostat. Handling and readability are optimally matched. The radiator thermostat is equipped with a memo disc to mark a selected setting, which makes it easy to reset a desired temperature after turning the handwheel.

The control range can be limited or blocked by moving the **limiting elements** out of the park

position (factory setting). In case of unfavourable lighting conditions or for visually impaired persons, the basic setting "3" can easily be found again by using the palpable setting aids.

The radiator thermostat is characterised by excellent control behaviour, optimal handling and excellent design.

Control element	Liquid sensor	Anti-theft device	Accessories
Frost protection	Yes	Blocking / Limiting	Yes
Control range	7 up to 28 °C	Max. heating medium temperature	120 °C
Setting aid for visually impaired persons	Yes		

Uni XH with M 30 x 1.5



Colour	RAL*	Zero position	Item No.
White	9016	No	1011364
White	9016	Yes	1011365

Uni XH with remote sensor, M 30 x 1,5



Colour	RAL*	Zero position	Length capillary* (mm)	PU	Item No.
White	9016	Yes	2,000		1011565
White	9016	Yes	5,000	10	1011566

Uni XHM with M 30 x 1.5

Especially suitable for valve sizing with 1K P-deviation. With larger specific stroke.



Colour	RAL*	Zero position	Item No.
White	9016	Yes	1011360

Uni XD with squeeze connection



Colour	RAL*	Zero position	Item No.
White	9016	No	1011374
White	9016	Yes	1011375

Uni XD with remote sensor, squeeze connection



Colour	RAL*	Zero position	Length capillary* (mm)	Item No.
White	9016	Yes	2,000	1011575

Uni SH Thermostats



The **Uni SH** thermostat with liquid sensor enables the room temperature to be controlled in a **modern design**. The radiator thermostat in the new, slim design combines attractive form with excellent function. Handling and readability are excellent.

The discreet contours on the chrome plated handle sleeve increase the ease of handling. In case of unfavourable lighting conditions or for visually impaired persons, the basic setting can easily be found again by using the palpable setting aids. The elegant thermostat is balanced in itself. The lines are clear and unclut-

tered, unnecessary corners and edges have been avoided. In addition, white, chrome-plated and anthracite SH-Caps are available for use in combination with a Multiblock T and the corresponding design cover (see chapter "Thermostats Accessories and spare parts"). The colour variants of the **SH-Caps** are matched to the colour palette of modern radiators and bathroom radiators.

The Uni SH thermostat is particularly recommended in combination with the Oventrop **E thermostatic valves** for modern living room design.

Control element	Liquid sensor	Blocking / Limiting	No
Zero position	Yes	Max. heating medium temperature	120 °C
Frost protection	Yes	PU	10
Control range	7 up to 28 °C		
Setting aid for visually impaired persons	Yes		

Uni SH with M 30 x 1.5



Colour	RAL*	Connection thread	Item No.
White / Chrome	9016	M 30 x 1.5	1012065
White	9016	M 30 x 1.5	1012066
Chrome	-	M 30 x 1.5	1012069
Stainless steel	-	M 30 x 1.5	1012085

pinox Thermostats



pinox. The thermostat sets special accents. **Functional and perfectly shaped**, it cuts a fine figure on radiators. The handle allows for **easy** and **precise** temperature **setting**.

Since its market launch, the pinox thermostat

has already received numerous design awards in a wide range of competitions.

The pinox thermostat is particularly recommended in combination with the Oventrop **E thermostatic valves** for modern living room design.

Control element	Liquid sensor	Blocking / Limiting	No
Zero position	No	Max. heating medium temperature	120 °C
Frost protection	Yes	PU	12
Control range	7 up to 28 °C		
Setting aid for visually impaired persons	No		

pinox H with M 30 x 1.5



Colour	RAL*	Connection thread	Item No.
Chrome	-	M 30 x 1.5	1012165
White	9016	M 30 x 1.5	1012166

pinox D with squeeze connection



Colour	RAL*	Connection thread	Item No.
Chrome	-	Squeeze connection	1012175
White	9016	Squeeze connection	1012176

vindo Thermostats



The **vindo thermostat** is characterised by a **simple** and **slim** design. The reduced dimensions combine attractive form with excellent function.

Handling and readability are excellent. In case of unfavourable lighting conditions or for visually impaired persons, the basic setting "3" can easily be found again by using the palpable setting aids.

Control element	Liquid sensor	Blocking / Limiting	Yes
Zero position	Yes	Max. heating medium temperature	120 °C
Frost protection	Yes	PU	10
Control range	7 up to 28 °C		
Setting aid for visually impaired persons	Yes		

vindo TH with M 30 x 1.5



Colour	Connection thread	Anti-theft device	Item No.
White	M 30 x 1.5	Accessories	1013066

vindo TD with squeeze connection

Suitable for Danfoss thermostatic valves series RA.



Colour	Connection thread	Anti-theft device	Item No.
White	Squeeze connection	Accessories	1013076

vindo RTD with squeeze connection

Suitable for Danfoss thermostatic valves series RTD.



Colour	Connection thread	Anti-theft device	Item No.
White	Squeeze connection	No	1613066

Uni CH Thermostats



The **Uni CH thermostat** speaks for an **extravagant design**, which was created by Luigi Colani. The design-oriented appearance is rounded

off by a precisely coordinated functionality. The union nut of the thermostat can be concealed by a sliding cover.

Control element	Liquid sensor	Anti-theft device	No
Zero position	No	Blocking / Limiting	No
Frost protection	Yes	Max. heating medium temperature	120 °C
Control range	7 up to 28 °C	PU	10
Setting aid for visually impaired persons	Yes		

Uni CH with M 30 x 1.5



Colour	RAL*	Connection thread	Item No.
White	9016	M 30 x 1.5	1011265

Uni F Thermostats



The **Uni F thermostat with remote control** is particularly suitable for underfloor convectors, surface heating systems and covered or concealed radiators.

The versions with connection thread M 30 x 1.5 are also available with an additional remote sensor:

RAL*	9016	Setting aid for visually impaired persons	No
Control element	Liquid sensor	Blocking / Limiting	Yes
Frost protection	Yes	Max. heating medium temperature	120 °C
Control range	7 up to 28 °C		
Remote control	Yes		

Uni FH with remote control, M 30 x 1.5



Colour	Zero position	Connection thread	Length capillary 2* (mm)	PU	Item No.
White	Yes	M 30 x 1.5	2,000	560	1012295
White	Yes	M 30 x 1.5	5,000		1012296
White	Yes	M 30 x 1.5	10,000		1012297

Uni FH with remote control and remote sensor, M 30 x 1.5



Colour	Zero position	Connection thread	Length capillary* (mm)	Length capillary 2* (mm)	Item No.
White	Yes	M 30 x 1.5	2,000	2,000	1012395
White	Yes	M 30 x 1.5	5,000	5,000	1012396

Uni FD with remote control, squeeze connection



Colour	Zero position	Connection thread	Length capillary 2* (mm)	Item No.
White	Yes	Squeeze connection	2,000	1012275

RAL = RAL colour
Length capillary 2 = Length capillary from thermostat to remote control
Length capillary = Length capillary from thermostat to remote control

mote 200 Electronic wireless thermostat (Bluetooth)



The electronic **mote 200 wireless thermostat** has a **Bluetooth** interface that can communicate with **an app on the smartphone or tablet**.

For maximum heating efficiency, the radiator thermostat can be controlled via radio and individual time profiles can be stored.

The wireless thermostat also offers the following functions: Frost protection, child-proof lock, window open detection and battery level indicator. The mote 200 is supplied with 3 adapters (Danfoss RA, RAV, RAVL) for squeeze connection.

Communication	Bluetooth	Control range	7 up to 28 °C
Power supply	Battery operated	PU	20
Battery lifespan	About 2 years		

mote 200



Colour
White

Valve connection
Connection thread M 30 x 1.5

Item No.
1150961

Manual regulating heads



The manual regulating heads allow for later conversion to actuators or thermostats without draining the system.

Zero position	No	Blocking / Limiting	No
Frost protection	No	PU	10

Manual regulating head



Colour	RAL*	Connection thread	Item No.
White	9010	M 30 x 1.5	1012565
White	9010	Squeeze connection	1012575

Thermostats Accessories and spare parts

Adapter



Description

For conversion from M 30 x 1.0 to M 30 x 1.5

Item No.

1011445

Angle adapter



Description

White, connection thread M 30 x 1.5

White, both sides squeeze connection

Anthracite, connection thread M 30 x 1.5

PU

25

10

25

Item No.

1011450

1011452

1641451

Extension for thermostatic valves



Description

For thermostatic valves and Uniboxes, 20 mm

Item No.

1022698

Anti-theft ring



Description

White, for Uni XH, XHM, LH, LHZ, L, LA, SH and vindo TH thermostats, set = 5 pieces

White, for Uni XD, LD and vindo TD thermostats, set = 5 pieces

Item No.

1011766

1011775

Unit nut cover



Description	Item No.
Anthracite, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces	1011380
Chrome plated, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces	1011381
Gold plated, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces	1011382
Stainless steel design, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces	1011383
White, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces	1011393

Reinforcing cap

For the protection against vandalism.



Description	Item No.
For Uni LH, LHZ and LA thermostats, not lockable, white (RAL 9010)	1011865
For Uni LH, LHZ and LA thermostats, lockable, white (RAL 9010)	1011866

SH-Cap



Description	Item No.
Anthracite (RAL 7016), for Uni SH thermostat	1012080
Chrome plated, for Uni SH thermostat	1012081
White, for Uni SH thermostat	1012082

Combined cap



Description	Item No.
For thermostatic valves, opening and closing possible with Allen screw, M 30 x 1.5	1627965

Setting key



Description	Item No.
For Uni LHB and LDB thermostats	1011497

Universal tool



Description

For Uni LHB, LDB, LH and L thermostats as well as AV 9 and AQ thermostatic valves

Item No.

1011489



Tool for thermostats

Description

For Uni LH, LHZ, LD, LDV, LDVL, L thermostats and special thermostats, for loosening the hand-wheel and clips, set = 5 pieces

Item No.

1989100



1.1 Room temperature control

Room thermostats	37
ClimaCon F Room thermostats for surface heating.....	38
Room thermostats heating.....	40
Room thermostats heating/cooling.....	42
Room thermostats heating/cooling with fan control.....	43
Room thermostats Accessories.....	44
R-Tronic Wireless thermostats.....	46
R-Tronic Accessories.....	48
i-Tronic Climate meter.....	49

ClimaCon F Room thermostats for surface heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings.

Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. Depending on the model, there are room thermostats with reduced display, with integrated time switch and setting options via app.

ClimaCon F 90 for two pipe applications, heating only/ cooling only, slave



Control	Two point / PWM	Setback*	Via master room thermostat
Installation	Surface mounting	Operation	At the room thermostat

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1155009 ::

ClimaCon F 100 for two pipe applications, heating or cooling, slave



Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting	Switching h / c*	Via change-over
Setback*	Via master room thermostat		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155010 ::
24 V	Electrothermal actuators (two point) "normally closed"	1155510 ::

ClimaCon F 210 for two pipe applications, heating only/ cooling only, master



Switching between time programme and manual mode possible.

Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting	Communication	With smartphone app Bluetooth
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155021 ::



ClimaCon F 310 for two pipe applications, heating or cooling, master

Switching between time programme and manual mode possible.

Control	Two point / PWM	Switching h / c*	Via change-over
Installation	Surface mounting	Other outputs	1 x potential-free
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat	Communication	Bluetooth
Operation	At the room thermostat With smartphone app		

Tension	0 - 10 V*	Temperature sensor*	Suitable for	Item No.
230 V	No	No	Electrothermal actuators (two point) "normally closed"	1155031 ::
24 V	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531 ::

0 - 10 V = 0 - 10 V output
Setback = Temperature setback
Temperature sensor = External temperature sensor can be connected
Switching h / c = Switching heating / cooling

Room thermostats heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. Depending on the room thermostat used, the temperature is reduced via an adjustable time programme or an external time switch. Room thermostats can also be used for cooling applications by using a different actuator (e.g. "normally closed" instead of "normally open"):

Oventrop offers room thermostats for surface- and flush-mounted installation, with or without display.

Oventrop offers room thermostats for surface- and flush-mounted installation, with or without display.



Room thermostat for two pipe applications, surface mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152051 °
24 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152052 °



Room thermostat for two pipe applications, with concealed temperature setting, surface mounting

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152055 °



Room thermostat for two pipe applications, with clock, surface mounting

Control	Two point / PWM	PU	78
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152552 °



Room thermostat for two pipe applications, flush mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	128
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

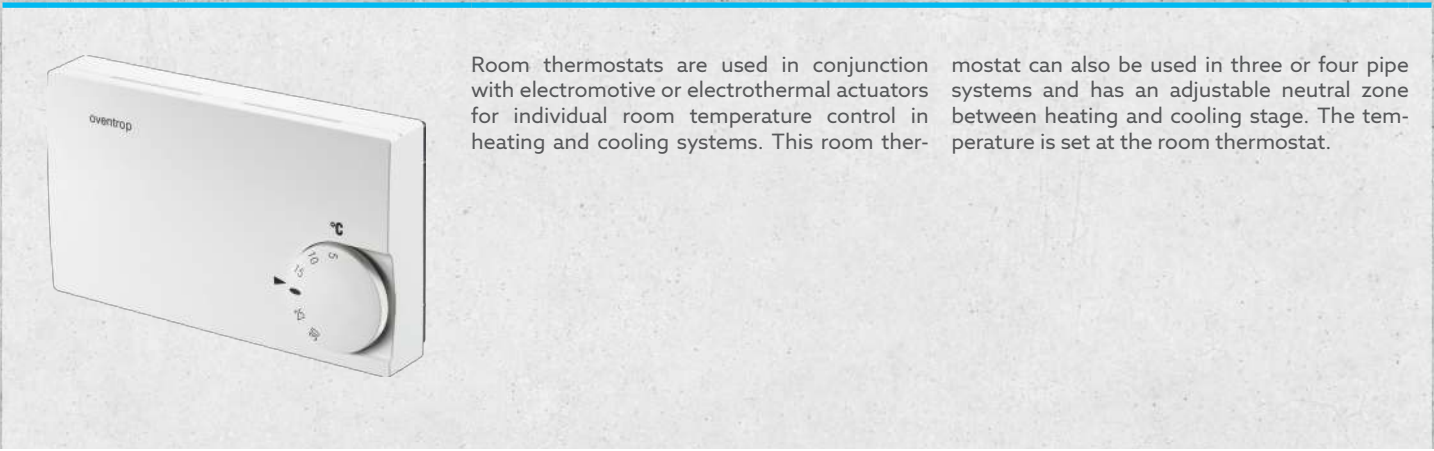


Room thermostat for two pipe applications, with display, flush mounting

Control	Two point	PU	40
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Heating: Actuators "normally closed" (terminal NC), actuators "normally open" (terminal NO) Cooling: Actuators "normally open" (terminal NO), actuators "normally closed" (terminal NC)	1152561 °

Room thermostats heating/cooling



Room thermostats are used in conjunction with electromotive or electrothermal actuators for individual room temperature control in heating and cooling systems. This room ther-

mostat can also be used in three or four pipe systems and has an adjustable neutral zone between heating and cooling stage. The temperature is set at the room thermostat.

Room thermostat for four pipe applications, surface mounting



Neutral zone Adjustable between 0.5 K and 7.5 K PU 25

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152151

Room thermostats heating/cooling with fan control



Room thermostats for electrical control of fan coil units for demand-oriented heating and cooling. Depending on the room thermostat, fan coil units in two or four pipe systems can be controlled. The temperature as well as the fan speed can be set at the room thermostat. Furthermore, various operating modes can be set.

Room thermostat for two pipe applications, heating or cooling, 230 V



Setback*	Via adjustable time programme	PU	60
Installation	Flush mounting		

Tension	Control	Suitable for	Item No.
230 V	Two point	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152453

Room thermostat for two pipe applications, heating or cooling, 24 V



Installation	Surface mounting	Other outputs	Two point auxiliary heating
--------------	------------------	---------------	-----------------------------

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V	Electrothermal actuators (0 - 10 V) "normally closed"	1152064

Room thermostat for four pipe applications, heating and cooling, 24 V



Installation	Surface mounting	Other outputs	Two point auxiliary heating
--------------	------------------	---------------	-----------------------------

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152065

Room thermostats Accessories



Sensor GA FD Dew point monitor

Is required in conjunction with room thermostats to protect against condensation on cooling surfaces.

Description

For heating/cooling applications to prevent condensation, 24 V, with change-over contact

Item No.

1141951



Electrical connecting block for surface heating

When using item no. 1400980 / 82 with 24 V, an external power supply of 24 V must be available. Item no. 1153053 can be used as transformer.

PU

25

Description

6 control zones, heating, 24 V / 230 V

10 control zones, heating / cooling (change-over), pump control, 230 V

10 control zones, heating / cooling (change-over), pump control, 24 V

10 control zones, heating / cooling (change-over), pump and boiler control and integrated time switch, 230 V

Item No.

1400980

1400981

1400982

1400983



FloorCon Electrical connecting block with automatic hydronic balancing for surface heating

Description

FloorCon F 200, without room allocation, connection of 6 room thermostats / 8 actuators, 230 V

FloorCon F 300, with room allocation, connection of 10 room thermostats / 12 actuators, 230 V

Item No.

1400984 ::

1400985 ::



Temperature sensor for FloorCon

One flow temperature sensor is required per heating circuit distributor/collector and one return temperature sensor per heating circuit.

Description

Flow temperature sensor for FloorCon F

Return temperature sensor for FloorCon F

Item No.

1029093 ::

1029094 ::



Aktor T 2P Electrothermal actuator, two point control for FloorCon connecting block

With pre-mounted plug for direct connection to the FloorCon connecting block.

Installation position	Any	Valve connection	Connection thread M 30 x 1.5
Installation	Plug-in connection with valve adapter		

Tension	Version	Cable* (m)	Item No.
230 V	"Normally closed"	1	1012475 ☐☐
230 V	"Normally closed"	2	1012478 ☐☐

R-Tronic Wireless thermostats



Oventrop offers wireless thermostats with two types of radio communication:

The R-Tronic wireless thermostats with open radio communication according to EnOcean standard can be integrated directly into Smart Home systems.

The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat or in the app of the Smart Home System. Depending on the model, an additional measurement of the relative humidity in % and the CO₂ concentration in ppm is

possible.

Power is supplied by batteries or a power pack (100 - 240 V). For the battery-operated models, power supply via the mains is possible as an alternative (see chapter "R-Tronic Accessories").

For the closed R-Tronic system, the following applies: In battery operation, up to 3 participants can be taught in, in mains operation, up to 8 participants can be taught in. In mains operation it is also possible to teach in wireless actuators, window contacts and a single-channel wireless receiver. The single-channel wireless receiver enables the control of a fan depending on the set CO₂ threshold value. For this application a thermostat must be used which can measure the CO₂ concentration.

R-Tronic (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean	Compatible with wibutler	Yes

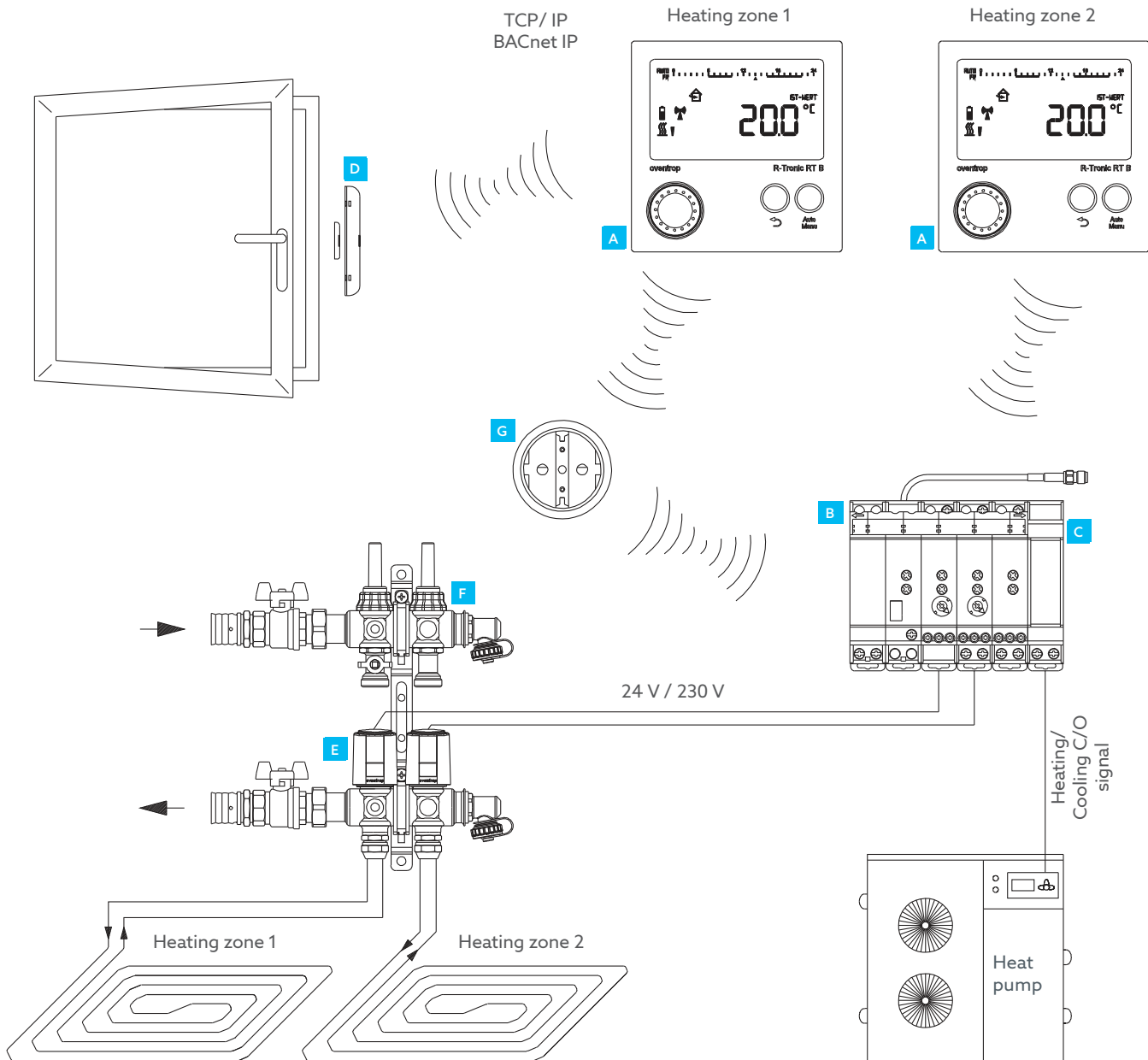
Desig.*	Description	EEP*	Item No.
RT B (EnOcean)	-	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
RTF B (EnOcean)	With integrated humidity sensor	A5-10-06 + RPS	1150781
		A5-10-11	
		A5-10-11 + RPS	
		A5-10-12	
		A5-10-22	
		A5-10-23	

R-Tronic (proprietary radio communication)



Installation	Surface mounting	Communication	Proprietary radio
--------------	------------------	---------------	-------------------

Desig.*	Description	Power supply	Item No.
RT B	-	Battery operated	1150680
RTF B	With integrated humidity sensor	Battery operated	1150681
RTFC K	With integrated humidity and CO ₂ sensor	Mains adaptor with table stand	1150682
RTFC K	With integrated humidity and CO ₂ sensor	Flush-mounted power pack with wall bracket	1150684



- A** R-Tronic RT B/R-Tronic RTF B/R-Tronic RTFC K
Wireless thermostat
- B** R-Con Wireless receiver
- C** R-Con HC Extension module heating/cooling
- D** FK-C F Wireless window contact

- E** Aktor T2P Electrothermal actuator (two point)
- F** Multidis SF Heating circuit distributor/collector
- G** RP-S F Wireless repeater

R-Tronic Accessories

Flush-mounted power pack with wall bracket



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150692

Mains adaptor with table stand



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150694



Cover frame

PU 50

Description

For covering flush-mounted box (milled hole up to Ø 83 mm, e.g. Switzerland),
cover 88 x 88 mm, traffic white (RAL 9016)

Item No.

1150693

i-Tronic Climate meter



i-Tronic TFC Climate meter

The i-Tronic climate meter is used to monitor the main room climate variables: temperature, humidity and CO₂ content. These values inform the user about any necessary room ventilation and also about its duration.

Description

With temperature, humidity and CO₂ display, table stand

Item No.

1150685 °



1.1 Room temperature control

Actuators	50
Aktor T Electrothermal actuators.....	51
Aktor T Accessories.....	53
Aktor M Electromotive actuators.....	54
Actuators with radio interface.....	56

Aktor T Electrothermal actuators



Electrothermal actuators are used for heating, ventilation and air conditioning. The actuators can be used for room temperature control or as zone valves.

They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distributors/collectors, radiant heating ceilings, cooling ceilings and induction units in conjunction with two point

room thermostats.

All electrothermal actuators are protected against overvoltage, a varistor is not required.

Oventrop offers actuators in the variants "normally closed" and "normally open". The model with auxiliary switch can switch e.g. a pump directly via the integrated, potential-free contact.



Aktor T 2P two point control, connection thread M 30 x 1.5

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Cable* (m)	PU	Item No.
230 V	"Normally closed"	1	100	1012415
24 V	"Normally closed"	1		1012416
230 V	"Normally open"	1		1012425
24 V	"Normally open"	1		1012426
230 V	"Normally closed" with integrated auxiliary switch	1		1012435
24 V	"Normally closed"	2		1012442
230 V	"Normally closed"	2		1012452
230 V	"Normally closed"	5		1012455
230 V	"Normally closed"	10		1012459



Aktor T 2P two point control, squeeze connection

Suitable for integrated valve sets and thermostatic valves with squeeze connection of the company Danfoss, series RA.

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Cable* (m)	Item No.
230 V	"Normally closed"	1	1012418 °
24 V	"Normally closed"	1	1012419 °



Aktor T ST 0 - 10 V control, connection thread M 30 x 1.5

With automatic zero point and valve travel detection.

Installation position	Any	PU	500
Installation	Plug-in connection with valve adapter		

Tension	Version	Cable* (m)	Item No.
24 V AC	"Normally closed"	1	1012953

Aktor T Accessories

Valve adapter

PU _____ 5



Description

Connection thread M 30 x 1.5

Connection thread M 30 x 1.5, high model (11 mm), necessary when using the actuators item no. 10124.. and 1012953 with Hycocan ETZ/HTZ or Multiblock T/TU/TFU/TQ and the design cover

For Oventrop valves with connection thread M 30 x 1.0 (manufactured until 1998)

Item No.

1012461

1012462

1012890

Reinforcing cap

Description

For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation

Item No.

1012450



Aktor M Electromotive actuators



Electromotive actuators are used for heating, ventilation and air conditioning. Amongst others, the actuators can be used for room temperature control. They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distribu-

tors/collectors (except for item no. 1012710 / 11), radiant heating ceilings, cooling ceilings and induction units.

Oventrop offers electromotive actuators with and without communication interfaces.



Aktor M steady control with 0 - 10 V, connection thread M 30 x 1.5

With the electrical emergency control function, the actuator moves to a predefined stroke position in the event of a supply voltage failure. Various characteristic lines can be set for Cocon QTZ (item no. 1012717, PN 25 only).

Cable*	1.5 m
Description	Modulating proportional actuator Automatic valve anti-blocking function Zero point detection Mode of operation adjustable

Tension	Electrical emergency control function	Additional two point / three point control	Position feedback	Item No.
24 V	Yes	No	Yes	1012717
24 V	No	Yes	No	1012725
24 V	No	No	Yes	1012726



Aktor M two point and three point control, connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation not adjustable Zero point detection

Tension	Item No.
230 V	1012729



Aktor M two point control, with short operating time (3 s), connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation adjustable

Tension	Item No.
230 V	1012710
24 V	1012711



Aktor M with KNX interface, connection thread M 30 x 1.5

Power consumption extremely low, no external power supply necessary. With integrated binary input (e.g. for window contact, dew point sensor, motion detector).

PU 120

Tension	Item No.
24 V (from KNX bus)	1012746



Aktor M with Modbus RTU interface, connection thread M 30 x 1.5

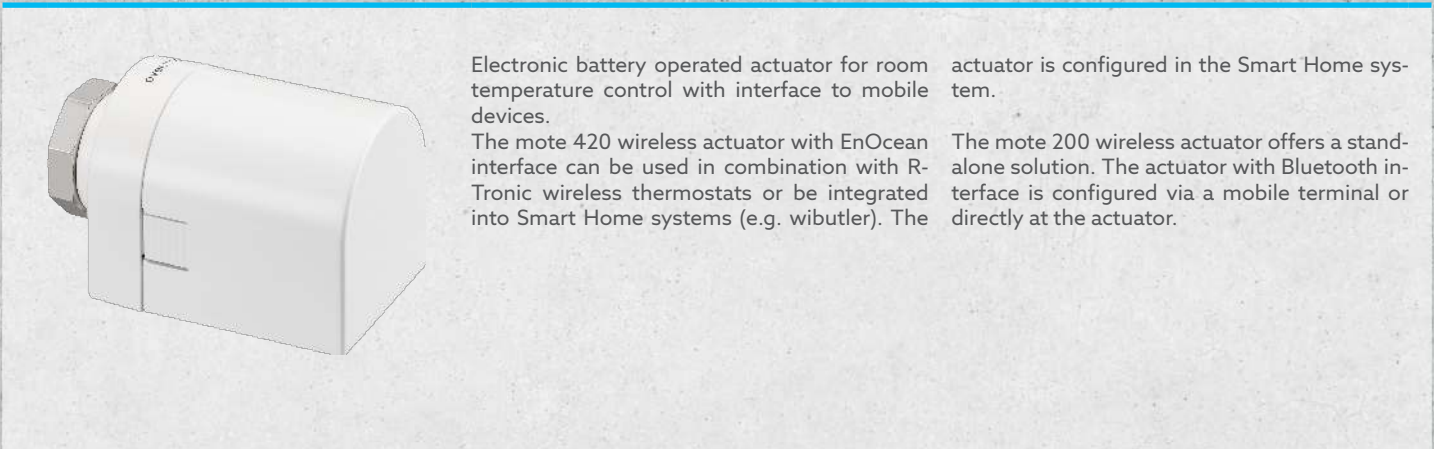
Various parameters can be configured and/or read out via Modbus RTU (e.g. volume flow, valve characteristic line, sensor type, operating hours, operating and fault messages). Two universal inputs/outputs enable the connection of temperature sensors, window contacts and humidity sensors, as well as the control of 0 - 10 V rotary actuators.

Cable* 1.5 m

Description Zero point detection
With control signal (0 - 100 %)
Automatic valve anti-blocking function

Tension	Description	Item No.
24 V	For Cocon QTZ	1012745
24 V	For Cocon QTR / QFC DN 40 / 50	1158014

Actuators with radio interface



Electronic battery operated actuator for room temperature control with interface to mobile devices.

The mote 420 wireless actuator with EnOcean interface can be used in combination with R-Tronic wireless thermostats or be integrated into Smart Home systems (e.g. wibutler). The

actuator is configured in the Smart Home system.

The mote 200 wireless actuator offers a stand-alone solution. The actuator with Bluetooth interface is configured via a mobile terminal or directly at the actuator.

mote 420 Wireless actuator (EnOcean)



Only functions in combination with communication centres / gateways (e.g. with the wibutler gateway) and room thermostats supporting this EnOcean Equipment Profile.

Communication	EnOcean	Battery lifespan	About 2 years
Power supply	Battery operated	Compatible with wibutler	Yes

Valve connection

Connection thread M 30 x 1.5

EEP*

A5-20-01

Item No.

1150766



mote 200 Electronic wireless thermostat (Bluetooth)



Communication	Bluetooth	Battery lifespan	About 2 years
Power supply	Battery operated	PU	20

Valve connection

Connection thread M 30 x 1.5

Item No.

1150961



1.1 Room temperature control

Radiator sets	57
Sets with Uni LH thermostat.....	58
Sets with Uni SH thermostat.....	59
Sets with pinox thermostat.....	61
Sets with vindo TH thermostat.....	62

Sets with Uni LH thermostat



The radiator sets consist of a thermostatic valve, a radiator lockshield valve and a Uni LH thermostat. The sets include all necessary components to control a radiator. They are

used in central heating and cooling systems with closed circuits. Depending on the thermostatic valve, the sets are suitable for manual or automatic hydronic balancing.

PU 10

AQ Thermostatic valve and radiator lockshield valve



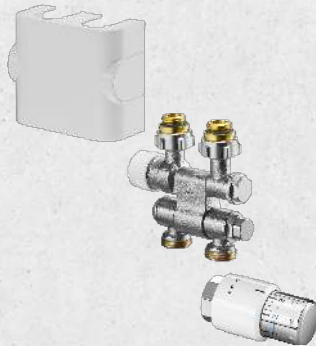
Consisting of	Type	Colour	Nominal size	Item No.
- AQ Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Angle	White	DN 10	1703063
- AQ Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Angle	White	DN 15	1703064
- AQ Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Straight	White	DN 10	1703163
- AQ Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Straight	White	DN 15	1703164

AV 9 Thermostatic valve and radiator lockshield valve



Consisting of	Type	Colour	Nominal size	Item No.
- AV 9 Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Angle	White	DN 10	1683703
- AV 9 Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Angle	White	DN 15	1683704
- AV 9 Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Straight	White	DN 10	1683803
- AV 9 Thermostatic valve - Combi 2 Radiator lockshield valve - Uni LH thermostat	Straight	White	DN 15	1683804

Sets with Uni SH thermostat



The radiator sets consist of a Multiblock connection fitting, a design cover, an SH-Cap and a Uni SH thermostat or a thermostatic valve, a radiator lockshield valve and a Uni SH thermostat. The sets include all necessary compo-

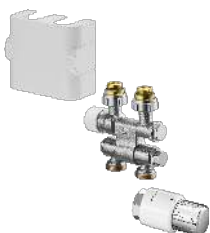
nents to connect a radiator to the pipework and to control the room temperature. They are used in central heating and cooling systems with closed circuits. The sets are suitable for manual hydronic balancing.



Multiblock T

For the connection to radiators with G 1/2 internal thread.

Consisting of	Type	Colour	Item No.
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	White / Chrome	1184183
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Angle	White / Chrome	1184184
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	Chrome	1184283
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Angle	Chrome	1184284
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	Stainless steel	1184383
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Angle	Stainless steel	1184384



Multiblock TFU

For the connection to radiators with G 1/2 internal thread.

Consisting of	Type	Colour	Item No.
- Multiblock TFU - Design cover - Uni SH thermostat - SH-Cap	Pivoting	White / Chrome	1184135
- Multiblock TFU - Design cover - Uni SH thermostat - SH-Cap	Pivoting	Chrome	1184235

Multiblock T-RTL

For the connection to radiators with G 1/2 internal thread.



Consisting of	Type	Colour	Item No.
- Multiblock T-RTL - Design cover - Uni SH thermostat - SH-Cap	Angle	White / Chrome	1184188
- Multiblock T-RTL - Design cover - Uni SH thermostat - SH-Cap	Angle	Chrome	1184288

E Thermostatic valve and radiator lockshield valve



Consisting of	Type	Colour	Nominal size	Item No.
- E Thermostatic valve - Combi E Radiator lockshield valve - Uni SH thermostat	Angle	Chrome	DN 15	1164052
- E Thermostatic valve - Combi E Radiator lockshield valve - Uni SH thermostat	Straight	Chrome	DN 15	1164152
- E Thermostatic valve - Combi E Radiator lockshield valve - Uni SH thermostat	Double angle left	Chrome	DN 15	1164352
- E Thermostatic valve - Combi E Radiator lockshield valve - Uni SH thermostat	Double angle right	Chrome	DN 15	1164452

Sets with pinox thermostat



The radiator sets consist of a Multiblock connection fitting, a design cover and a pinox thermostat. The sets include all necessary components for the control of a radiator, and, depending on the connection fitting, for sur-

face temperature regulation. They are used in central heating and cooling systems with closed circuits. The set are suitable for manual hydronic balancing.



Multiblock T

For the connection to radiators with G 1/2 internal thread.

Consisting of	Type	Colour	Item No.
- Multiblock T - Design cover - pinox thermostat	Straight	White	1184185
- Multiblock T - Design cover - pinox thermostat	Angle	White	1184186
- Multiblock T - Design cover - pinox thermostat	Straight	Chrome	1184285
- Multiblock T - Design cover - pinox thermostat	Angle	Chrome	1184286



Multiblock T-RTL

For the connection to radiators with G 1/2 internal thread.

Consisting of	Type	Colour	Item No.
- Multiblock T-RTL - Design cover - pinox thermostat	Angle	White	1184189
- Multiblock T-RTL - Design cover - pinox thermostat	Angle	Chrome	1184289

Sets with vindo TH thermostat



The radiator sets consist of a Multiflex F connection fitting and a vindo TH thermostat. The sets include all necessary components to control a radiator with integrated valve set. They

are used in central heating and cooling systems with closed circuits. The sets are suitable for manual hydronic balancing.

PU

10

Multiflex F



Consisting of	Type	Radiator connection	Item No.
- Multiflex F - vindo TH thermostat	Straight	G ¾ external	1715813
- Multiflex F - vindo TH thermostat	Angle	G ¾ external	1715814
- Multiflex F - vindo TH thermostat	Straight	G ½ internal	1715883
- Multiflex F - vindo TH thermostat	Angle	G ½ internal	1715884



1.2 Hydronic balancing at the radiator

Q-Tech Automatic hydronic balancing 65

AQ Thermostatic valves.....	66
AQH Thermostatic valves.....	68
EQ Thermostatic valves.....	69
Multiblock TQ Connection fittings with thermostatic valve.....	70
Multiblock TQ-RTL Connection fitting with thermostatic valve and return temperature limiter.....	71
Multiflex FQ Connection fittings without thermostatic valve.....	72
Q-Tech Accessories and spare parts.....	73

Thermostatic radiator valves 76

AV 9 Thermostatic valves.....	77
RFV 9 Thermostatic valves.....	80
CV 9 Thermostatic valves.....	81
ADV 9 Thermostatic valves.....	83
E Thermostatic valves.....	84
A Thermostatic valves.....	86
AF Thermostatic valves.....	88
AZ V Thermostatic valves.....	90
Manual regulating valves.....	91
Thermostatic valves Accessories and spare parts.....	93
Replacement valve insert.....	96

Radiator lockshield valves 97

Combi 2 Radiator lockshield valves.....	98
Combi 3 Radiator lockshield valves.....	100
Combi 4 Radiator lockshield valves.....	101
Combi E Radiator lockshield valves.....	103
Combi C Radiator lockshield valves.....	104
Combi LR Radiator lockshield valves.....	105
Combi Accessories and spare parts.....	106

Valve inserts for compact radiators 107

Valve inserts for radiators with integrated valve set.....	110
Valve inserts Accessories and spare parts.....	112

H-blocks 113

Multiblock T Connection fittings with thermostatic valve.....	114
Multiblock T-RTL Connection fittings with thermostatic valve and return temperature limiter.....	116
Multiflex F H-blocks.....	117

Inversion fittings.....	118
H-blocks Accessories and spare parts.....	119

Heating circuit distributors/collectors for radiators 124

Multidis SH Heating circuit distributors/collectors.....	125
Multidis SH Accessories.....	126

Connection technology 128

Mounting and conversion aids.....	129
Cofit S Compression fittings.....	132
Ofix Compression fittings.....	133
Connection technology Accessories and spare parts.....	136

One pipe 138

Unofix Refurbishment of one pipe heating systems.....	139
One pipe valves with shutoff.....	142
Three-way conversion valves.....	145
One pipe valves Accessories and spare parts.....	148

Valve sets 149

Two pipe valves with shutoff.....	150
-----------------------------------	-----



1.2 Hydronic balancing at the radiator

Q-Tech Automatic hydronic balancing	65
AQ Thermostatic valves.....	66
AQH Thermostatic valves.....	68
EQ Thermostatic valves.....	69
Multiblock TQ Connection fittings with thermostatic valve.....	70
Multiblock TQ-RTL Connection fitting with thermostatic valve and return temperature limiter.....	71
Multiflex FQ Connection fittings without thermostatic valve.....	72
Q-Tech Accessories and spare parts.....	73

AQ Thermostatic valves



For automatic hydronic balancing at the radiator in central heating and cooling systems with closed circuits. Installation in the supply pipe. The Q-Tech valves are ideal for retrofitting and refurbishment of existing heating systems, as complex calculations of preset values are not necessary. The volume flow is kept constant even if the differential pressure in the system fluctuates. The flow range can be variably ad-

justed between 10 and 170 l/h. A corresponding presetting key is included.

The AQ thermostatic valves are available in angle, straight, reversed angle and double angle versions.

The body of the valve is made of brass and the surface is nickel plated. The stem is made of stainless steel.

Body material	Brass	Operating temperature	2 up to 110 °C
Flow range	10 up to 170 l/h	Max. operating pressure	10 bar
Connection thread	M 30 x 1.5	Colour protection cap	Grey
Q-Tech*	Yes	One pipe*	No
Presetting	Yes	Two pipe*	Yes
Medium	Water-glycol mixture Water	PU	10

AQ Angle



Nominal size	Radiator connection	Pipe connection	Item No.
DN 10	R 3/8	Rp 3/8	1183063
DN 15	R 1/2	Rp 1/2	1183064
DN 20	R 3/4	Rp 3/4	1183066
DN 25	R 1	Rp 1	1183068

AQ Angle (self sealing)



Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183084

AQ Straight



Nominal size	Radiator connection	Pipe connection	Item No.
DN 10	R 3/8	Rp 3/8	1183163
DN 15	R 1/2	Rp 1/2	1183164
DN 20	R 3/4	Rp 3/4	1183166
DN 25	R 1	Rp 1	1183168

AQ Straight (self sealing)



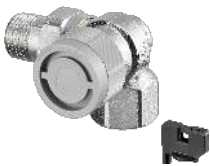
Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183184

AQ Double angle left



Nominal size	Radiator connection	Pipe connection	Item No.
DN 10	R 3/8	Rp 3/8	1183360
DN 15	R 1/2	Rp 1/2	1183362

AQ Double angle right



Nominal size	Radiator connection	Pipe connection	Item No.
DN 10	R 3/8	Rp 3/8	1183361
DN 15	R 1/2	Rp 1/2	1183363

AQ Reversed angle



Nominal size	Radiator connection	Pipe connection	Item No.
DN 10	R 3/8	Rp 3/8	1183263
DN 15	R 1/2	Rp 1/2	1183264
DN 20	R 3/4	Rp 3/4	1183266

AQH Thermostatic valves



For automatic hydronic balancing in heating and cooling systems with closed water circuit. Installation in the supply pipe. The Q-Tech valves with high flow rate (AQH) are ideal for new construction, refurbishment and retrofitting in combination with radiant ceiling panels, fan coils, radiators and other consumers. Complex pipework calculations are not necessary. The volume flow is kept constant even if the differential pressure in the system

fluctuates. The flow range can be variably adjusted between 35 and 420 l/h. A corresponding presetting key is included.

The AQ thermostatic valves DN 15 are available in angle, straight and reversed angle versions.

The body of the valve is made of brass and the surface is nickel plated. The stem is made of stainless steel.

Body material	Brass	Operating temperature	2 up to 110 °C
Flow range	35 up to 420 l/h	Max. operating pressure	10 bar
Connection thread	M 30 x 1.5	Colour protection cap	Grey
Q-Tech*	Yes	One pipe*	No
Presetting	Yes	Two pipe*	Yes
Medium	Water Water-glycol mixture	PU	10

AQH Straight



Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183194 ☐☐

AQH Angle



Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183094 ☐☐

AQH Reversed angle



Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183294 ☐☐

EQ Thermostatic valves



For automatic hydronic balancing at the radiator in central heating and cooling systems with closed circuits. Installation in the supply pipe. The Q-Tech valves are ideal for retrofitting and refurbishment of existing heating systems, as complex calculations of preset values are not necessary. The volume flow is kept constant even if the differential pressure in the system fluctuates. The flow range can be variably adjusted between 10 and 170 l/h. A correspond-

ing presetting key is included.

The EQ thermostatic valves are available in angle and straight versions.

The design of the exclusive radiator fittings combines exceptional form with outstanding function, especially for modern radiators and bathroom radiators. The body of the valve is made of brass and the surface is chrome plated or white powder coated. The stem is made of stainless steel.

Body material	Brass	Colour protection cap	Grey
Flow range	10 up to 170 l/h	One pipe*	No
Connection thread	M 30 x 1.5	Two pipe*	Yes
Q-Tech*	Yes	Radiator connection	R 1/2
Presetting	Yes	Pipe connection	Rp 1/2
Medium	Water-glycol mixture Water	PU	10
Max. operating pressure	10 bar		

EQ Angle



Nominal size	Surface	Operating temperature	Item No.
DN 15	Chrome plated	2 up to 110 °C	1163552
DN 15	White powder coated	2 up to 90 °C	1163562

EQ Straight



Nominal size	Surface	Operating temperature	Item No.
DN 15	Chrome plated	2 up to 110 °C	1163652
DN 15	White powder coated	2 up to 90 °C	1163662

Multiblock TQ Connection fittings with thermostatic valve



The Multiblock TQ connection fitting is a combination consisting of a thermostatic valve and a connection fitting at the radiator. The special QA valve insert makes the fitting suitable for automatic hydronic balancing at the radiator in central heating and cooling systems with closed circuits. The fitting is soft sealing to the radiator. The connection fitting is suitable for connection to radiators with G 1/2 internal thread.

The following functions are available: Infinitely adjustable presetting for automatic hydronic balancing, shutoff as well as draining and filling. The Multiblock TQ connection fitting is available in straight and angle versions and is made of nickel plated brass, the centre distance is 50 mm. Design covers are available in various colours and surfaces (see chapter "Q-Tech Accessories and spare parts").

Body material	Brass	Max. operating pressure	10 bar
Surface	Nickel plated	Operating temperature	2 up to 110 °C
Q-Tech	Yes	One pipe*	No
Presetting	Yes	Two pipe*	Yes
Flow range	10 up to 170 l/h	Radiator connection	G 1/2 external
Distance between pipe centres	50 mm	Pipe connection	G 3/4 Eurocone
Shutoff	Yes	Medium	Water Water-glycol mixture
Filling and draining	Yes	PU	5

Multiblock TQ Angle



Connection thread

M 30 x 1.5

Thermostat connection

Left hand side

Item No.

1184074

Multiblock TQ Straight



Connection thread

M 30 x 1.5

Thermostat connection

Left or right hand side

Item No.

1184073

Multiblock TQ-RTL Connection fitting with thermostatic valve and return temperature limiter



The Multiblock TQ-RTL connection fitting is designed for the combined use of radiators and surface temperature regulation in two pipe systems. The fitting includes a QA valve insert for automatic hydronic balancing and an RTL controller for return temperature limitation. The room temperature and return temperature are controlled separately. The fitting is soft sealing to the radiator. The connection fitting is suitable for connection to radiators with G 1/2 internal thread.

The following functions are available: Infinitely adjustable presetting for automatic hydronic balancing, shutoff and return temperature limitation for surface temperature regulation. The connection fitting Multiblock TQ-RTL is available in angle version and is made of nickel plated brass. A mounting aid is included in the scope of delivery. Design covers are available in white and chrome plated (see chapter "Q-Tech Accessories and spare parts").

Q-Tech	Yes	One pipe*	No
Presetting	Yes	Two pipe*	Yes
Surface heating*	Yes	Surface	Nickel plated
Distance between pipe centres	50 mm	Medium	Water Water-glycol mixture
Body material	Brass	Thermostat connection	Left hand side
Shutoff	Yes	Filling and draining	No
Max. operating pressure	10 bar	Return temperature*	Yes
Operating temperature	2 up to 70 °C		

Multiblock TQ-RTL Angle



Radiator connection	Pipe connection	Connection thread	Item No.
G 1/2 external	G 3/4 Eurocone	M 30 x 1.5	1184076

Multiflex FQ Connection fittings without thermostatic valve



The Multiflex FQ connection fittings are designed for the connection of radiators with integrated valve set. The special QA valve insert makes the fitting suitable for automatic hydronic balancing at the radiator in central heating and cooling systems with closed circuits.

The fitting is soft sealing to the radiator. Depending on the version, the connection to the

radiator is either with G 3/4 union nut and insert to radiators with G 3/4 external thread (Eurocone) or with G 3/4 union nut and nipple to radiators with G 1/2 internal thread.

The following functions are available: Shutoff, draining, filling and presetting. The Multiflex connection fitting is available in straight and angle versions and is made of nickel plated brass, the centre distance is 50 mm.

Presetting	Yes	One pipe*	No
Q-Tech	Yes	Two pipe*	Yes
Body material	Brass	Surface	Nickel plated
Distance between pipe centres	50 mm	Medium	Water Water-glycol mixture
Max. operating pressure	10 bar	Filling and draining	No
Operating temperature	2 up to 110 °C	PU	5
Flow range	10 up to 170 l/h		
Shutoff	Yes		

Multiflex FQ Straight



Radiator connection	Pipe connection	Item No.
G 3/4 union nut	G 3/4 Eurocone	1015803
G 1/2 external	G 3/4 Eurocone	1015873

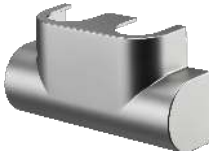
Multiflex FQ Angle



Radiator connection	Pipe connection	Connection	Item No.
G 3/4 union nut	G 3/4 Eurocone	Left hand side	1015804
G 3/4 union nut	G 3/4 Eurocone	Right hand side	1015805
G 1/2 external	G 3/4 Eurocone	Left hand side	1015874
G 1/2 external	G 3/4 Eurocone	Right hand side	1015875

Q-Tech Accessories and spare parts

Design cover for Multiblock T/TU/TQ, angle version



Description	Item No.
Anthracite	1184089
Stainless steel design	1184091
White	1184096
Chrome plated	1184098

Design cover for Multiblock T/TU/TQ, straight version



Description	Item No.
Anthracite	1184088
Stainless steel design	1184090
White	1184095
Chrome plated	1184097

Design cover for Multiblock T-RTL/TQ-RTL



Description	Item No.
Chrome plated	1184077
White	1184087

Demo-Bloc Special tool



Description	Item No.
Connection thread M 30 x 1.5, including coupling set for QA and QAH valve inserts	1188051

Differential pressure measuring spindle



Description	Item No.
Differential pressure measuring spindle	1188093

Screen insert for valve insert QA/QAH



Description	Item No.
For all Q-Tech valves (with QA and QAH valve insert), set = 10 pieces	1187090

Covering rosette



Description	Item No.
For Multiblock T-RTL and TQ-RTL, white	1189087

Block for commissioning



Description	Item No.
For Multiblock T-RTL and TQ-RTL	1184094

Mounting aid



Description	Item No.
For Multiblock T-RTL and TQ-RTL	1189094



Replacement valve insert QA/QAH


Description

For AQ, RFQ and EQ thermostatic valves, Multiblock TQ, TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 160 l/h, M 30 x 1.5

Item No.

1187065

For AQH thermostatic valves, 35 - 420 l/h, M 30 x 1.5

1187095 



Replacement nipple

Description

For Multiflex F, FQ, Multiblock T, TU, TFU, TQ, T-RTL and TQ-RTL, G 1/2 self sealing external thread x G 3/4 flat sealing external thread, brass, unplated, set = 10 pieces

Item No.

1028252



1.2 Hydronic balancing at the radiator

Thermostatic radiator valves	76
AV 9 Thermostatic valves.....	77
RFV 9 Thermostatic valves.....	80
CV 9 Thermostatic valves.....	81
ADV 9 Thermostatic valves.....	83
E Thermostatic valves.....	84
A Thermostatic valves.....	86
AF Thermostatic valves.....	88
AZ V Thermostatic valves.....	90
Manual regulating valves.....	91
Thermostatic valves Accessories and spare parts.....	93
Replacement valve insert.....	96

AV 9 Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated AV 9 valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The

AV 9 thermostatic valves are available in angle, straight, reversed angle and double angle versions.

The body of the valve is made of brass and the surface is nickel plated. The spindle is made of stainless steel.

Body material	Brass	Max. operating pressure	10 bar
Surface	Nickel plated	Operating temperature	2 up to 120 °C
Connection thread	M 30 x 1.5	Colour protection cap	White
Medium	Water-glycol mixture	One pipe*	No
	Water	Two pipe*	Yes
Presetting	Yes		

AV 9 Angle



Nominal size	kvs	Pipe connection	Radiator connection	Certification	PU	Item No.
DN 10	1.10	Rp 3/8	R 3/8	Keymark	25	1183703
DN 15	1.20	Rp 1/2	R 1/2	Keymark	25	1183704
DN 20	1.30	Rp 3/4	R 3/4	Keymark	25	1183706
DN 25	1.30	Rp 1	R 1		10	1183708
DN 15	1.20	G 3/4 external	R 1/2		25	1183747

AV 9 Angle (self sealing)



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.20	Rp 1/2	R 1/2	1183784

AV 9 Straight



Nominal size	kvs	Pipe connection	Radiator connection	Certification	PU	Item No.
DN 10	0.90	Rp 3/8	R 3/8	Keymark	25	1183803
DN 15	1.00	Rp 1/2	R 1/2	Keymark	25	1183804
DN 20	1.20	Rp 3/4	R 3/4	Keymark	25	1183806
DN 25	1.20	Rp 1	R 1		10	1183808
DN 15	1.00	G 3/4 external	R 1/2		25	1183847

AV 9 Straight (self sealing)



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	Rp 1/2	R 1/2	1183884

AV 9 Double angle left



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	G 3/4 external	R 1/2	1183446
DN 10	0.90	Rp 3/8	R 3/8	1183470
DN 15	1.00	Rp 1/2	R 1/2	1183472

AV 9 Double angle right



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	G 3/4 external	R 1/2	1183447
DN 10	0.90	Rp 3/8	R 3/8	1183471
DN 15	1.00	Rp 1/2	R 1/2	1183473

AV 9 Reversed angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	0.90	Rp 3/8	R 3/8	1183903
DN 15	1.00	Rp 1/2	R 1/2	1183904
DN 20	1.20	Rp 3/4	R 3/4	1183906
DN 15	1.00	G 3/4 external	R 1/2	1183942

AV 9 Reversed angle for return



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	1.10	Rp 3/8	R 3/8	1183793
DN 15	1.20	Rp 1/2	R 1/2	1183794

AV 9 Straight for return



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	0.90	Rp 3/8	R 3/8	1183893
DN 15	1.00	Rp 1/2	R 1/2	1183894

RFV 9 Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated AV 9 valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The RFV 9 thermostatic valves are available

in angle and straight versions. The thermostatic valve RFV 9 with reduced dimensions has been specially designed for use in confined installation conditions.

The body of the valve is made of brass and the surface is nickel plated. The spindle is made of stainless steel.

Body material	Brass	Operating temperature	2 up to 120 °C
Surface	Nickel plated	Colour protection cap	Green
Connection thread	M 30 x 1.5	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	Yes
Presetting	Yes	Compact design	Yes
Max. operating pressure	10 bar	PU	25

RFV 9 Angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	1.10	Rp 3/8	R 3/8	1185003
DN 15	1.20	Rp 1/2	R 1/2	1185004
DN 20	1.30	Rp 3/4	R 3/4	1185006

RFV 9 Straight



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	0.90	Rp 3/8	R 3/8	1185103
DN 15	1.00	Rp 1/2	R 1/2	1185104
DN 20	1.20	Rp 3/4	R 3/4	1185106

CV 9 Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated AV 9 valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The

CV 9 thermostatic valves are available in angle, straight, and double angle versions. The body of the valve is made of brass and the surface is chrome plated. The spindle is made of stainless steel.

Body material	Brass	Operating temperature	2 up to 120 °C
Surface	Chrome plated	Colour protection cap	White
Connection thread	M 30 x 1.5	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	Yes
Presetting	Yes	PU	25
Max. operating pressure	10 bar		

CV 9 Angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.20	Rp ½	R ½	1162054

CV 9 Straight



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	Rp ½	R ½	1162154

CV 9 Double angle left



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	Rp ½	R ½	1162472

CV 9 Double angle right



kvs	Nominal size	Pipe connection	Radiator connection	Item No.
1.00	DN 15	Rp 1/2	R 1/2	1162473

ADV 9 Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated ADV 9 valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The ADV 9 thermostatic valves are available in angle and straight versions. The body of the valve is made of brass and the

surface is nickel plated. The spindle is made of stainless steel.

The double function of these valves causes the valve to close automatically to 5% of the nominal flow rate if the thermostat is dismantled or destroyed (vandalism). This provides the frost protection function and prevents an uncontrolled rise in room temperature.

Body material	Brass	Operating temperature	2 up to 120 °C
Surface	Nickel plated	Colour protection cap	Cement grey
Connection thread	M 30 x 1.5	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	Yes
Presetting	Yes	PU	25
Max. operating pressure	10 bar		

ADV 9 Angle



Nominal size	Pipe connection	Radiator connection	Item No.
DN 10	Rp 3/8	R 3/8	1188363
DN 15	Rp 1/2	R 1/2	1188364
DN 20	Rp 3/4	R 3/4	1188366

ADV 9 Straight



Nominal size	Pipe connection	Radiator connection	Item No.
DN 10	Rp 3/8	R 3/8	1188463
DN 15	Rp 1/2	R 1/2	1188464
DN 20	Rp 3/4	R 3/4	1188466

E Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated AV 9 valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The E thermostatic valves are available in angle,

straight, reversed angle and double angle versions.

The body of the fitting is made of brass and the surface is offered in different colours. The spindle is made of stainless steel. With their exclusive design, the valves fit in perfectly with modern living room design.

Body material	Brass	Radiator connection	R ½
Connection thread	M 30 x 1.5	Colour protection cap	White
Presetting	Yes	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	Yes
Max. operating pressure	10 bar	PU	10
Pipe connection	Rp ½		

E Angle



Nominal size	Surface	kvs	Operating temperature	Item No.
DN 15	Anthracite	1.20	2 up to 120 °C	1163032
DN 15	Chrome plated	1.20	2 up to 120 °C	1163052
DN 15	White powder coated	1.20	2 up to 90 °C	1163062
DN 15	Gold plated	1.20	2 up to 120 °C	1163072
DN 15	Stainless steel design	1.20	2 up to 90 °C	1163082

E Straight



Nominal size	Surface	kvs	Operating temperature	Item No.
DN 15	Anthracite	1.00	2 up to 120 °C	1163132
DN 15	Chrome plated	1.00	2 up to 120 °C	1163152
DN 15	White powder coated	1.00	2 up to 90 °C	1163162
DN 15	Gold plated	1.00	2 up to 120 °C	1163172
DN 15	Stainless steel design	1.00	2 up to 90 °C	1163182

E Double angle left



Nominal size	Surface	kvs	Operating temperature	Item No.
DN 15	Anthracite	1.00	2 up to 120 °C	1163432
DN 15	Chrome plated	1.00	2 up to 120 °C	1163452
DN 15	White powder coated	1.00	2 up to 90 °C	1163462
DN 15	Stainless steel design	1.00	2 up to 90 °C	1163482

E Double angle right



Surface	kvs	Operating temperature	Item No.
Anthracite	1.00	2 up to 120 °C	1163433
Chrome plated	1.00	2 up to 120 °C	1163453
White powder coated	1.00	2 up to 90 °C	1163463
Stainless steel design	1.00	2 up to 90 °C	1163483

E Reversed angle



Nominal size	Surface	kvs	Operating temperature	Item No.
DN 15	Anthracite	1.00	2 up to 120 °C	1163232
DN 15	Chrome plated	1.00	2 up to 120 °C	1163252
DN 15	White powder coated	1.00	2 up to 90 °C	1163262

A Thermostatic valves



For use at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe.

The integrated A valve insert provides a high flow rate, which enables use in one pipe, two pipe and gravity systems. The A thermostatic

valves are available in angle, straight, reversed angle and double angle versions.

The body of the valve is made of brass and the surface is nickel plated. The spindle is made of stainless steel.

Body material	Brass	Max. operating pressure	10 bar
Surface	Nickel plated	Operating temperature	2 up to 120 °C
Connection thread	M 30 x 1.5	Colour protection cap	Black
Medium	Water-glycol mixture	One pipe*	Yes
	Water	Two pipe*	Yes
Presetting	No		

A Angle



Nominal size	kvs	Pipe connection	Radiator connection	Certification	PU	Item No.
DN 10	1.20	Rp 3/8	R 3/8	Keymark	25	1181003
DN 15	1.20	Rp 1/2	R 1/2	Keymark	25	1181004
DN 20	3.50	Rp 3/4	R 3/4	Keymark	25	1181006
DN 25	3.50	Rp 1	R 1		10	1181008
DN 32	4.10	Rp 1 1/4	R 1 1/4		10	1181010
DN 15	1.20	G 3/4 external	R 1/2		25	1181097

A Straight



Nominal size	kvs	Pipe connection	Radiator connection	Certification	PU	Item No.
DN 10	1.20	Rp 3/8	R 3/8	Keymark	25	1181103
DN 15	1.20	Rp 1/2	R 1/2	Keymark	25	1181104
DN 20	2.50	Rp 3/4	R 3/4	Keymark	25	1181106
DN 25	3.30	Rp 1	R 1		10	1181108
DN 32	4.10	Rp 1 1/4	R 1 1/4		10	1181110
DN 15	1.20	G 3/4 external	R 1/2		25	1181197

A Double angle left



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	1.20	Rp 3/8	R 3/8	1181390
DN 15	1.20	Rp 3/8	R 3/8	1181392
DN 15	1.20	G 3/4 external	R 1/2	1181396

A Double angle right



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	1.35	Rp 3/8	R 3/8	1181391
DN 15	1.20	Rp 1/2	R 1/2	1181393
DN 15	1.20	G 3/4 external	R 1/2	1181397

A Reversed angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	1.20	Rp 3/8	R 3/8	1181403
DN 15	1.20	Rp 1/2	R 1/2	1181404
DN 20	2.20	Rp 3/4	R 3/4	1181406
DN 15	1.20	G 3/4 external	R 1/2	1181492

AF Thermostatic valves



For manual hydronic balancing at the radiator in central heating and cooling system with closed circuits. Installation in the supply pipe. The integrated AF valve insert allows for infinitely adjustable presetting to adapt the volume flow to the required heat demand. The AF thermostatic valves are available in angle, straight, reversed angle and double angle versions.

The body of the valve is made of brass and the surface is nickel plated. The spindle is made of stainless steel.

The AF thermostatic valve is used especially in heating systems with a high temperature spread (district heating systems) or in systems with small flow rates. A great advantage of the valve is the litre-precise adjustment of the flow rate at the radiator.

Surface	Nickel plated	Operating temperature	2 up to 120 °C
Connection thread	M 30 x 1.5	Colour protection cap	Red
Presetting	Yes	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	Yes
Max. operating pressure	16 bar	PU	25

AF Angle



kvs	Nominal size	Pipe connection	Radiator connection	Certification	Item No.
0.37	DN 10	Rp 3/8	R 3/8	Keymark	1180603
0.37	DN 15	Rp 1/2	R 1/2	Keymark	1180604
0.37	DN 20	Rp 3/4	R 3/4	Keymark	1180606

AF Straight



kvs	Nominal size	Pipe connection	Radiator connection	Certification	Item No.
0.37	DN 10	Rp 3/8	R 3/8	Keymark	1180703
0.37	DN 15	Rp 1/2	R 1/2	Keymark	1180704
0.37	DN 20	Rp 3/4	R 3/4	Keymark	1180706

AF Double angle left



kvs	Nominal size	Pipe connection	Radiator connection	Item No.
0.37	DN 10	Rp 3/8	R 3/8	1181460
0.37	DN 15	Rp 1/2	R 1/2	1181462

AF Double angle right



kvs	Nominal size	Pipe connection	Radiator connection	Item No.
0.37	DN 10	Rp 3/8	R 3/8	1181461
0.37	DN 15	Rp 1/2	R 1/2	1181463

AF Reversed angle



kvs	Nominal size	Pipe connection	Radiator connection	Item No.
0.37	DN 10	Rp 3/8	R 3/8	1180903
0.37	DN 15	Rp 1/2	R 1/2	1180904

AZ V Thermostatic valves



For use at radiators in central heating and cooling system with closed circuits. Installation in the supply pipe.

The integrated valve insert, which is also used in balancing and pipeline valves, provides a very high flow rate, which enables use for

zone control in combination with thermostats or actuators. The AZ V thermostatic valves are available in angle and straight versions.

The body of the valve is made of brass and the surface is nickel plated. The spindle is made of stainless steel.

Body material	Brass	Max. operating pressure	10 bar
Surface	Nickel plated	Operating temperature	2 up to 120 °C
Connection thread	M 30 x 1.5	Colour protection cap	Green
Medium	Water-glycol mixture	One pipe*	Yes
	Water	Two pipe*	Yes
Presetting	Yes		

AZ V Angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	3.00	Rp 1/2	R 1/2	1187504
DN 20	3.00	Rp 3/4	R 3/4	1187506

AZ V Straight



Nominal size	kvs	Pipe connection	Radiator connection	PU	Item No.
DN 15	1.70	Rp 1/2	R 1/2	25	1187604
DN 20	2.30	Rp 3/4	R 3/4	25	1187606
DN 25	3.00	Rp 1	R 1	10	1187608

Manual regulating valves



The manual regulating valves for radiators can be used in one and two pipe central heating systems. They enable precise manual regulation of the room temperature. The heat output of the radiator is proportional to the setting of the handwheel. This sensitive regulation is achieved by a specially shaped valve plug. The presetting is infinitely variable. It is concealed and can be adjusted easily, quickly and precisely with a screwdriver. This makes it impossible for unauthorised persons to change the setting. The valve body is identical to other Oventrop thermostatic valves. This enables

the possibility of subsequent conversion to thermostatic operation by replacing the valve inserts: With the special tool Demo-Bloc the conversion can be carried out without draining the heating system.

The HRV manual regulating valves with pre-setting ensure exact hydronic balancing of the system. They offer good manual regulation and also the possibility of a later, problem-free and inexpensive conversion to thermostatic operation.

Body material	Brass	Max. operating pressure	10 bar
Surface	Nickel plated	One pipe*	Yes
Connection thread	M 30 x 1.5	Two pipe*	Yes
Protection cap	No	Operation	Handwheel
Medium	Water Water-glycol mixture	Colour operating element	White
Operating temperature	2 up to 120 °C	PU	25

HRV Angle



Nominal size	Presetting	kvs	Pipe connection	Radiator connection	Item No.
DN 10	Yes	3.20	Rp 3/8	R 3/8	1191503
DN 15	Yes	3.20	Rp 1/2	R 1/2	1191504
DN 20	Yes	3.20	Rp 3/4	R 3/4	1191506
DN 10	Yes	3.20	Rp 3/8	R 3/8	1194503
DN 15	Yes	3.20	Rp 1/2	R 1/2	1194504
DN 20	Yes	3.20	Rp 3/4	R 3/4	1194506

HRV Straight



Nominal size	Presetting	kvs	Pipe connection	Radiator connection	Item No.
DN 10	Yes	1.70	Rp 3/8	R 3/8	1191603
DN 15	Yes	1.70	Rp 1/2	R 1/2	1191604
DN 20	Yes	2.30	Rp 3/4	R 3/4	1191606
DN 10	Yes	1.70	Rp 3/8	R 3/8	1194603
DN 15	Yes	1.70	Rp 1/2	R 1/2	1194604
DN 20	Yes	2.30	Rp 3/4	R 3/4	1194606



HR Angle

Cannot be converted to thermostatic operation.

Nominal size	Presetting	kvs	Pipe connection	Radiator connection	Item No.
DN 10	No	1.45	Rp 3/8	R 3/8	1190503
DN 15	No	1.45	Rp 1/2	R 1/2	1190504
DN 20	No	1.45	Rp 3/4	R 3/4	1190506

HR Straight

Cannot be converted to thermostatic operation.



Nominal size	Presetting	kvs	Pipe connection	Radiator connection	Item No.
DN 10	No	1.20	Rp 3/8	R 3/8	1190603
DN 15	No	1.20	Rp 1/2	R 1/2	1190604
DN 20	No	1.20	Rp 3/4	R 3/4	1190606

Thermostatic valves Accessories and spare parts



Extension for thermostatic valves

Description

For thermostatic valves and Uniboxes, 20 mm

Item No.

1022698



Compression fitting set (1-fold)

Description

for E thermostatic valves, G 1/2 external thread x 15 mm, chrome plated

For E thermostatic valves, G 1/2 external thread x 15 mm, white powder coated

For E thermostatic valves, G 1/2 external thread x 15 mm, gold plated

For E thermostatic valves, G 1/2 external thread x 15 mm, anthracite

For E thermostatic valves, G 1/2 external thread x 15 mm, stainless steel design

Item No.

1169093

1169193

1169293

1169493

1169593



Demo-Bloc Special tool

Description

Connection thread M 30 x 1.5, including coupling set for QA and QAH valve inserts

Item No.

1188051



Cleaning head

The valve seat can be cleaned with the Demo-Bloc and the cleaning head.

Description

Cleaning head for all valves

Item No.

1188400

Differential pressure measuring spindle



Description	Item No.
Differential pressure measuring spindle	1188093

Coupling set



Description	Item No.
For Demo-Bloc, for valves with connection thread M 30 x 1.0	1188089
For Demo-Bloc, for replacing the HRV and Combi LR inserts	1188095

Wall connection set (1-fold)



Description	Item No.
For E thermostatic valves, DN 15, chrome plated	1169553
For E thermostatic valves, DN 15, white	1169563

Universal tool



Description	Item No.
For Uni LHB, LDB, LH and L thermostats as well as AV 9 and AQ thermostatic valves	1011489

Presetting key



Description	PU	Item No.
For AF thermostatic valves and GHF valve inserts		1180791
For AV 6, ADV 6, RFV 6 and E thermostatic valves as well as GH valve inserts	10	1183961
For AV 9, ADV 9, RFV 9, CV 9 and E thermostatic valves	10	1183962

Screen insert for QA valve insert



Description

For all Q-Tech valves (with QA and QAH valve insert), set = 10 pieces

Item No.

1187090

Measuring device



Description

For AF thermostatic valves, for checking preset values

Item No.

1180793

Replacement screw gland



Description

For all thermostatic valves (exception: AV 9, CV 9, RFV 9, ADV 9, E, AQ, RFQ, EQ, A (from 2013) and RF (from 2014), spanner size 14 mm, set = 5 pieces

Item No.

1017501

Replacement valve insert



The valve inserts are suitable for replacement in thermostatic valves. The valve inserts can be preset for adaptation to the system requirements and for manual or automatic hydronic balancing. The valve inserts are suitable for all thermostatic valves, so you can benefit from the advantages of the different valve inserts at any time without having to replace the entire

valve. We recommend our Demo-Bloc for replacement. With this special tool, the valve insert can be replaced without draining the system. Our thermostats with connection thread M 30 x 1.5, such as the Uni LH, SH and pinox or the Uni L with connection thread M 30 x 1.0, fit the valve inserts.



Valve insert for valves with connection thread M 30 x 1.5

Description	PU	Item No.
For ADV 9 thermostatic valves, M 30 x 1.5, kvs = 0.67	100	1186002
For A thermostatic valves (especially for steam systems), M 30 x 1.5	100	1186200
For AV 9, CV 9, RFV 9, and E thermostatic valves, Multiblock T-RTL, Unibox, M 30 x 1.5, DN 10 - DN 20, kv = 0.67	100	1187047
For A, and RF thermostatic valves, DN 20 - DN 32, M 30 x 1.5, kv = 1.00 - 1.10	100	1187049
For A and RF thermostatic valves, DN 10 - DN 15, M 30 x 1.5, kv = 0.95	100	1187059
For AQ, RFQ and EQ thermostatic valves, Multiblock TQ, TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 160 l/h, M 30 x 1.5	25	1187065
For reversed supply and return pipe, for A, AV 9, ADV 9, CV 9, E, AF, RF and RFV 9 thermostatic valves as well as Hycocon ATZ and VTZ, M 30 x 1.5, without presetting	100	1187070
For reversed supply and return pipe, for A, AV 9, ADV 9, CV 9, E, AF, RF and RFV 9 thermostatic valves, Multiblock T, TU and TFU as well as Unibox, M 30 x 1.5, with presetting	100	1187078
For F thermostatic valves, M 30 x 1.5, kv = 0.32	100	1187352



Valve insert for valves with connection thread M 30 x 1.0 (manufactured until 1998)

Description	PU	Item No.
For AV 6, RFV 6 and E thermostatic valves, M 30 x 1.0, DN 10 - DN 20, kv = 0.65	25	1017057
For AZ thermostatic valves, M 30 x 1.0, DN 10 - DN 32, kv = 1.10	100	1017060
For F thermostatic valves, M 30 x 1.0, kv = 0.32	10	1017351



1.2 Hydronic balancing at the radiator

Radiator lockshield valves	97
Combi 2 Radiator lockshield valves.....	98
Combi 3 Radiator lockshield valves.....	100
Combi 4 Radiator lockshield valves.....	101
Combi E Radiator lockshield valves.....	103
Combi C Radiator lockshield valves.....	104
Combi LR Radiator lockshield valves.....	105
Combi Accessories and spare parts.....	106

Combi 2 Radiator lockshield valves



The Combi 2 radiator lockshield valves are suitable for the lower connection of the pipework to radiators with conventional valve connection. The fittings have a proportional

presetting and are suitable for use in central heating and cooling systems with closed circuits. The Combi 2 radiator lockshield valves are made of nickel plated brass.

Body material	Brass	Shutoff	Yes
Surface	Nickel plated	Filling and draining	No
Max. operating pressure	10 bar	kvs	1.70
Operating temperature	2 up to 120 °C	One pipe*	Yes
Medium	Water Water-glycol mixture	Two pipe*	Yes
Presetting	Yes		

Combi 2 Angle



Nominal size	Radiator connection	Pipe connection	PU	Item No.
DN 10	R 3/8	Rp 3/8	25	1091061
DN 15	R 1/2	Rp 1/2	25	1091062
DN 20	R 3/4	Rp 3/4	10	1091063

Combi 2 Angle (self sealing)



Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	G 1/2 external	Rp 1/2	1091052

Combi 2 Straight



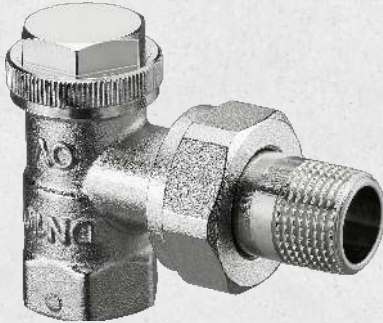
Nominal size	Radiator connection	Pipe connection	PU	Item No.
DN 10	R 3/8	Rp 3/8	25	1091161
DN 15	R 1/2	Rp 1/2	25	1091162
DN 20	R 3/4	Rp 3/4	10	1091163

Combi 2 Straight (self sealing)



<u>Nominal size</u>	<u>Radiator connection</u>	<u>Pipe connection</u>	<u>Item No.</u>
DN 15	G 1/2 external	Rp 1/2	1091152

Combi 3 Radiator lockshield valves



The Combi 3 radiator lockshield valves are suitable for the lower connection of the pipe-work to radiators with conventional valve connection. The fittings have a proportional pre-setting and are suitable for use in central heating and cooling systems with closed circuits. In

addition, the radiator can be drained and filled via the fitting with the help of a separate tool (item no. 1090551). The Combi 3 radiator lockshield valves are made of nickel plated brass or nickel plated bronze (straight version DN 10 and DN 15).

Surface	Nickel plated	Shutoff	Yes
Max. operating pressure	10 bar	Filling and draining	Yes
Operating temperature	2 up to 120 °C	kvs	1.70
Medium	Water	One pipe*	Yes
	Water-glycol mixture	Two pipe*	Yes
Pre-setting	Yes		

Combi 3 Angle



Nominal size	Body material	Radiator connection	Pipe connection	PU	Item No.
DN 10	Brass	R 3/8	Rp 3/8	25	1090361
DN 15	Brass	R 1/2	Rp 1/2	25	1090362
DN 20	Brass	R 3/4	Rp 3/4	10	1090363

Combi 3 Straight



Nominal size	Body material	Radiator connection	Pipe connection	PU	Item No.
DN 10	Bronze	R 3/8	Rp 3/8	25	1090461
DN 15	Bronze	R 1/2	Rp 1/2	25	1090462
DN 20	Brass	R 3/4	Rp 3/4	10	1090463

Combi 4 Radiator lockshield valves



The Combi 4 radiator lockshield valves are suitable for the lower connection of the pipe-work to radiators with conventional valve connection. The fittings have a reproducible, proportional presetting and are suitable for use in central heating and cooling systems with

closed circuits. In addition, the radiator can be drained and filled via the fitting with the help of a separate tool (item no. 1090551). The Combi 4 radiator lockshield valves are made of nickel plated brass or nickel plated bronze (straight version DN 10 and DN 15).

Surface	Nickel plated	Filling and draining	Yes
Max. operating pressure	10 bar	Reproducible presetting	Yes
Operating temperature	2 up to 120 °C	kvs	1.70
Medium	Water	One pipe*	Yes
	Water-glycol mixture	Two pipe*	Yes
Shutoff	Yes		

Combi 4 Angle



Nominal size	Body material	Radiator connection	Pipe connection	PU	Item No.
DN 10	Brass	R 3/8	Rp 3/8	25	1090661 °
DN 15	Brass	R 1/2	Rp 1/2	25	1090662 °
DN 20	Brass	R 3/4	Rp 3/4	10	1090663 °

Combi 4 Angle (self sealing)



Nominal size	Body material	Radiator connection	Pipe connection	Item No.
DN 15	Brass	G 1/2 external	G 3/4 external	1090672 °

Combi 4 Straight



Nominal size	Body material	Radiator connection	Pipe connection	PU	Item No.
DN 10	Bronze	R 3/8	Rp 3/8	25	1090761 °
DN 15	Bronze	R 1/2	Rp 1/2	25	1090762 °
DN 20	Brass	R 3/4	Rp 3/4	10	1090763 °

Combi 4 Straight (self sealing)



<u>Nominal size</u>	<u>Body material</u>	<u>Radiator connection</u>	<u>Pipe connection</u>	<u>Item No.</u>
DN 15	Bronze	G 1/2 external	G 3/4 external	1090772 °

Combi E Radiator lockshield valves



The Combi E radiator lockshield valves are suitable for the lower connection of the pipe-work to radiators with conventional valve connection. They are available as an exclusive version in various designs. The fittings have a reproducible, proportional presetting and are

suitable for use in central heating and cooling systems with closed circuits. In addition, the radiator can be drained and filled via the fitting with the help of a separate tool (item no. 1090551). The Combi E radiator lockshield valves are made of brass.

Body material	Brass	Reproducible presetting	Yes
Max. operating pressure	10 bar	kvs	1.05
Operating temperature	2 up to 120 °C	One pipe*	Yes
Medium	Water Water-glycol mixture	Two pipe*	Yes
Shutoff	Yes	PU	10
Filling and draining	Yes		

Combi E Angle



Nominal size	Surface	Item No.
DN 15	Anthracite	1166032
DN 15	Chrome plated	1166052
DN 15	White powder coated	1166062
DN 15	Gold plated	1166072
DN 15	Stainless steel design	1166082

Combi E Straight



Nominal size	Surface	Item No.
DN 15	Anthracite	1167032
DN 15	Chrome plated	1167052
DN 15	White powder coated	1167062
DN 15	Gold plated	1167072
DN 15	Stainless steel design	1167082

Combi C Radiator lockshield valves



The Combi C radiator lockshield valves are suitable for the lower connection of the pipe-work to radiators with conventional valve connection. The fittings have a reproducible, proportional presetting and are suitable for use in central heating and cooling systems with

closed circuits. In addition, the radiator can be drained and filled via the fitting with the help of a separate tool (item no. 1090551). The Combi C radiator lockshield valves are made of chrome plated brass.

Body material	Brass	Filling and draining	Yes
Max. operating pressure	10 bar	kvs	1.70
Operating temperature	2 up to 120 °C	One pipe*	Yes
Medium	Water Water-glycol mixture	Two pipe*	Yes
Shutoff	Yes	PU	25
Reproducible presetting	Yes		

Combi C Angle



Nominal size

DN 15

Surface

Chrome plated

Item No.

1164554

Combi C Straight



Nominal size

DN 15

Surface

Chrome plated

Item No.

1165554

Combi LR Radiator lockshield valves



The Combi LR radiator lockshield valves are suitable for the lower connection of the pipework to radiators with conventional valve connection. The fittings have a proportional presetting with increased kvs value and are

suitable for use in central heating and cooling systems with closed circuits. The Combi LR radiator lockshield valves are made of nickel plated brass.

Body material	Brass	Presetting	Yes
Surface	Nickel plated	Shutoff	Yes
Max. operating pressure	10 bar	Filling and draining	No
Operating temperature	2 up to 120 °C	One pipe*	Yes
Medium	Water Water-glycol mixture	Two pipe*	Yes

Combi LR Angle



Nominal size	kvs	Radiator connection	Pipe connection	PU	Item No.
DN 10	3.50	R 3/8	Rp 3/8	25	1027562
DN 15	4.50	R 1/2	Rp 1/2	25	1027564
DN 20	4.50	R 3/4	Rp 3/4	10	1027566
DN 25	4.50	R 1	Rp 1	10	1027568

Combi LR Straight



Nominal size	kvs	Radiator connection	Pipe connection	PU	Item No.
DN 10	1.80	R 3/8	Rp 3/8	25	1027662
DN 15	1.80	R 1/2	Rp 1/2	25	1027664
DN 20	2.40	R 3/4	Rp 3/4	10	1027666
DN 25	3.20	R 1	Rp 1	10	1027668

Combi Accessories and spare parts



Drain and fill tool

Description

For Combi 3, Combi 4, Multiblock and Multiflex

Item No.

1090551



1.2 Hydronic balancing at the radiator










Valve inserts for compact radiators **107**

Valve inserts for radiators with integrated valve set.....	110
Valve inserts Accessories and spare parts.....	112



GH GH GH GD GD GHF GHF

Item no.	1018080	1018082	1018083	1018084	1018086	1018090	1018097
Suitable for radiators of the following manufacturers							
Arbonia until 2002	•					•	
Baufa	•					•	
Bemm							
brema	•					•	
Brugman until 2013		•			•		•
from 2013			•	•			
Brötje 1994-2003		•			•		•
from 2003			•	•			
Buderus/Brötje 1982-1986							
Buderus from 2001			•	•			
De Longhi until 2016		•			•		•
from 2016			•	•			
DEF	•					•	
DiaNorm until 2010	•					•	
Dia-therm	•					•	
DURA			•	•			
Ferrol/IMA			•	•			
HM-Heizkörper	•					•	
Hoval	•					•	
IMAS from 2018	•					•	
Korad from 2006			•	•			
Korado			•	•			
Manaut	•					•	
Purmo until 2010	•					•	
Radson until 2010	•					•	
Rettig until 2010	•					•	
Ribe		•			•		•
Runtal	•					•	
Superia from 2005			•	•			
U.S. Steel until 2019			•	•			
Vasco			•	•			
VEHA		•			•		•

								
GHF	GD	GHQ	GHQ	GHQ	GDQ	GDQ	GDQ	GH
1018098	1018099	1019080	1019082	1019083	1019084	1019086	1019099	1648077
		Q-Tech	Q-Tech	Q-Tech	Q-Tech	Q-Tech	Q-Tech	
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Status: 11/2020. Subject to technical modifications by the radiator manufacturers.

Valve inserts for radiators with integrated valve set



The valve inserts are suitable for installation in compact radiators. The valve inserts can be preset for adaptation to the system requirements and for manual or automatic hydronic balancing. The valve inserts are suitable for

various types of radiators of numerous manufacturers. Our thermostats with connection thread M 30 x 1.5, such as the Uni LH, SH or pinox, fit the valve inserts.

PU 25



GHQ Valve insert with M 30 x 1.5

Description

Item No.

GHQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, M 30 x 1.5, with frontal seat sealing	1019080
GHQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, M 30 x 1.5, for seat diameter 16 H 11	1019082
GHQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, M 30 x 1.5, with internal O-ring	1019083



GH Valve insert with M 30 x 1.5

Description

Item No.

GH valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, with frontal seat sealing	1018080
GH valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, for seat diameter 16 H 11	1018082
GH valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, with internal O-Ring	1018083
GH special valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, with frontal seat sealing, for reversed supply and return pipe	1648077



GHF Valve insert with M 30 x 1.5

Description

Item No.

GHF valve insert, with fine presetting, G ½ external thread, M 30 x 1.5, with frontal seat sealing	1018090
GHF valve insert, with fine presetting, G ½ external thread, M 30 x 1.5, for seat diameter 16 H 11	1018097
GHF valve insert, with fine presetting, G ½ external thread, M 30 x 1.5, with internal O-ring	1018098



GDQ Valve insert with squeeze connection

Description	Item No.
GDQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, squeeze connection, with internal O-ring	1019084
GDQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, squeeze connection, for seat diameter 16 H 11	1019086
GDQ valve insert, Q-Tech, 10-170 l/h, G ½ external thread, squeeze connection, with frontal seat sealing	1019099



GD Valve insert with squeeze connection

Description	Item No.
GD valve insert, with 8 presetting positions, G ½ external thread, squeeze connection, with internal O-ring	1018084
GD valve insert, with 8 presetting positions, G ½ external thread, squeeze connection, for seat diameter 16 H 11	1018086
GD valve insert, with 8 presetting positions, G ½ external thread, squeeze connection, with frontal seat sealing	1018099

Valve inserts Accessories and spare parts



Presetting key

Description

For AF thermostatic valves and GHF valve inserts

Item No.

1180791



1.2 Hydronic balancing at the radiator

H-blocks	113
Multiblock T Connection fittings with thermostatic valve.....	114
Multiblock T-RTL Connection fittings with thermostatic valve and return temperature limiter.....	116
Multiflex F H-blocks.....	117
Inversion fittings.....	118
H-blocks Accessories and spare parts.....	119

Multiblock T Connection fittings with thermostatic valve



The Multiblock T connection fitting is a combination consisting of a thermostatic valve and a connection fitting at the radiator. Thanks to the special AV9U valve insert, the fitting is not only infinitely presettable, but supply and return are also freely selectable, as the flow is possible in either direction. Depending on the version, the connection to the radiator is either with G 3/4 union nut and insert to radiators with G 3/4 external thread (Eurocone) or with G 3/4 union nut and nipple to radiators with G 1/2 internal thread.

The following functions are available: Presetting for hydronic balancing, shutoff as well as draining and filling. Depending on the version, the fitting can be used in two pipe or one and two pipe systems. The Multiblock T connection fitting is available in straight and angle versions and as pivoting version. The fitting is made of nickel plated brass, the centre distance is 50 mm. Design covers are available in various colours and surfaces (see chapter "H-Blocks Accessories and spare parts")

Body material	Brass	Pipe connection	G 3/4 Eurocone
Surface	Nickel plated	Medium	Water Water-glycol mixture
Connection thread	M 30 x 1.5	Operating temperature	2 up to 120 °C
Q-Tech	No	Max. operating pressure	10 bar
Presetting	Yes	PU	5
Shutoff	Yes		
Distance between pipe centres	50 mm		

Multiblock T Straight



Thermostat connection	Left or right hand side	Filling and draining	Yes
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One pipe*	Two pipe*	Radiator connection	Item No.
No	Yes	G 3/4 union nut	1184013
No	Yes	G 1/2 external	1184083

Multiblock TU Straight



Thermostat connection	Left or right hand side	Filling and draining	No
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One pipe*	Two pipe*	Radiator connection	Item No.
Yes	Yes	G 3/4 union nut	1184023
Yes	Yes	G 1/2 external	1184033

Multiblock T Angle



Thermostat connection _____ Left hand side _____ Filling and draining _____ Yes

One pipe*	Two pipe*	Radiator connection	Item No.
No	Yes	G 3/4 union nut	1184014
No	Yes	G 1/2 external	1184084

Multiblock TU Angle



Thermostat connection _____ Left hand side _____ Filling and draining _____ No

One pipe*	Two pipe*	Radiator connection	Item No.
Yes	Yes	G 3/4 union nut	1184024
Yes	Yes	G 1/2 external	1184034

Multiblock TFU pivoting



Thermostat connection _____ Left or right hand side _____ Kv 1 k P-deviation* _____ 0.31
 Filling and draining _____ Yes _____ Kv 2 K P-deviation* _____ 0.47

One pipe*	Two pipe*	Radiator connection	Item No.
Yes	Yes	G 3/4 external	1184025
Yes	Yes	G 1/2 external	1184035

Multiblock T-RTL Connection fittings with thermostatic valve and return temperature limiter



The Multiblock T-RTL connection fitting is designed for the combined use of radiators and surface temperature regulation in two pipe systems. The fitting includes an AV 9 valve insert with infinitely adjustable presetting for automatic hydronic balancing and an RTL controller for return temperature limitation. The room temperature and return temperature are controlled separately. The fitting is soft sealing to the radiator. Depending on the version, the connection to the radiator is either with G 3/4 union nut and insert to radiators with G 3/4 external thread (Eurocone) or with G 3/4 union

nut and nipple to radiators with G 1/2 internal thread.

The following functions are available: Presetting for automatic hydronic balancing, shut-off and return temperature limitation for surface temperature regulation. The connection fitting is available in angle version and is made of nickel plated brass, the centre distance is 50 mm. A mounting aid is included in the scope of delivery. Design covers are available in white and chrome plated (see chapter "H-Blocks Accessories and spare parts").

Body material	Brass	One pipe*	No
Surface	Nickel plated	Two pipe*	Yes
Connection thread	M 30 x 1.5	Medium	Water Water-glycol mixture
Q-Tech	No	Distance between pipe centres	50 mm
Surface heating*	Yes	Operating temperature	2 up to 70 °C
Return temperature*	Yes	Max. operating pressure	10 bar
Shutoff	Yes		
Presetting	Yes		
Filling and draining	No		
Thermostat connection	Left hand side		

Multiblock T-RTL Angle



Radiator connection	Pipe connection	Item No.
G 3/4 union nut	G 3/4 Eurocone	1184016
G 1/2 external	G 3/4 Eurocone	1184086

Multiflex F H-blocks



The Multiflex H-blocks are designed for the connection of radiators with integrated valve set.

The fittings are soft sealing to the radiator. Depending on the version, the connection to the radiator is either with G 3/4 union nut and insert to radiators with G 3/4 external thread (Eurocone) or with G 3/4 union nut and nipple to radiators with G 1/2 internal thread.

The following functions are available: Shutoff, draining, filling and presetting. Depending on the version, the fitting can be used in two pipe or one and two pipe systems. The Multiflex connection fitting is available in straight and angle versions and as pivoting version. The fitting is made of nickel plated brass, the centre distance is 50 mm.

Body material	Brass	Distance between pipe centres	50 mm
Surface	Nickel plated	Pipe connection	G 3/4 Eurocone
Q-Tech	No	Operating temperature	2 up to 120 °C
Shutoff	Yes	Max. operating pressure	10 bar
Medium	Water Water-glycol mixture	PU	10

Multiflex F Angle



Radiator connection	Presetting	Filling and draining	One pipe*	Two pipe*	Item No.
G 3/4 union nut	No	No	No	Yes	1015814
G 1/2 external	No	No	No	Yes	1015884
G 3/4 union nut	Yes	Yes	Yes	Yes	1015944
G 1/2 external	Yes	Yes	Yes	Yes	1015994

Multiflex F Straight



Radiator connection	Presetting	Filling and draining	One pipe*	Two pipe*	Item No.
G 3/4 union nut	No	No	No	Yes	1015813
G 1/2 external	No	No	No	Yes	1015883
G 3/4 union nut	Yes	Yes	Yes	Yes	1015943
G 1/2 external	Yes	Yes	Yes	Yes	1015993

Multiflex F pivoting



Radiator connection	Presetting	Filling and draining	One pipe*	Two pipe*	Item No.
G 3/4 union nut	No	No	No	Yes	1015711
G 1/2 external	No	No	No	Yes	1015781

Inversion fittings



Inversion fittings are connection fittings that are designed for reversed flow and return at radiators with integrated valve set. They ensure a correct flow against the valve insert by exchanging the supply and return flow crosswise.

The fittings are soft sealing to the radiator. Depending on the version, the connection to the radiator is either with G 3/4 union nut and

insert to radiators with G 3/4 external thread (Eurocone) or with G 3/4 union nut and nipple to radiators with G 1/2 internal thread.

All inversion fittings feature a shutoff function. They are available in straight and angle versions and are made of nickel plated brass. The centre distance is 50 mm. Item no. 1016372 has a reduced centre distance to the pipe network (40 mm).

Body material	Brass	Two pipe*	Yes
Surface	Nickel plated	Filling and draining	No
Shutoff	Yes	Operating temperature	2 up to 120 °C
Presetting	No	Max. operating pressure	10 bar
Medium	Water Water-glycol mixture	PU	10
One pipe*	No		

Inversion fitting straight



Distance between pipe centres (mm)	Radiator connection	Pipe connection	Item No.
50	G 3/4 union nut	G 3/4 Eurocone	1016362
50	G 1/2 external	G 3/4 Eurocone	1016363
40	G 1/2 external	G 3/4 Eurocone	1016372

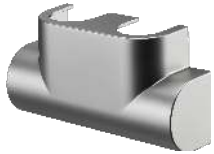
Inversion fitting angle



Distance between pipe centres (mm)	Radiator connection	Pipe connection	Item No.
50	G 3/4 union nut	G 3/4 Eurocone	1016462
50	G 1/2 external	G 3/4 Eurocone	1016463

H-blocks Accessories and spare parts

Design cover for Multiblock T/TU/TQ, angle version



Description	Item No.
Anthracite	1184089
Stainless steel design	1184091
White	1184096
Chrome plated	1184098

Design cover for Multiblock T/TU/TQ, straight version



Description	Item No.
Anthracite	1184088
Stainless steel design	1184090
White	1184095
Chrome plated	1184097

Design cover for Multiblock TFU



Description	Item No.
White	1184092
Chrome plated	1184093

Design cover for Multiblock T-RTL/TQ-RTL



Description	Item No.
Chrome plated	1184077
White	1184087

Design cover for Multiflex F



Description

For item no. 1015813 / 14 / 83 / 84, white

Item No.

1015896

Block for commissioning



Description

For Multiblock T-RTL and TQ-RTL

Item No.

1184094

Covering rosette



Description

For Multiblock T-RTL and TQ-RTL, white

Item No.

1189087

Mounting aid



Description

For Multiblock T-RTL and TQ-RTL

Item No.

1189094

Double nipple



Description

G 3/4 external thread x G 3/4 external thread, conically sealing, brass, nickel plated

Item No.

1028263

Insert



Description

For Cocon QTZ, Optibal W6, Multiflex F and FQ, Multiblock T, TU, TQ, TFU, T-RTL and TQ-RTL, DN 15 with G 3/4 externally threaded connection. Suitable for flat sealing tailpipes. For cone according to DIN EN 16313 (Eurocone), set = 2 pieces

Item No.

1661100



Coupling

Effective length: 15.5 mm

Description

G 3/4 union nut x Rp 1/2 internal thread, brass, nickel plated, for radiators with integrated valve set, not suitable for compression fittings

Item No.

1016304

Spacer



Description

For Multiflex F, G 3/4 internal thread x G 3/4 external thread, nickel plated, set = 2 pieces

Item No.

1681650

Covering rosette



Description

For Multiblock T, TU, TFU, TQ and Multiflex F, plastic, centre distance 50 mm, 15 mm perforation

Item No.

1016673

For Multiblock T, TU, TFU, TQ and Multiflex F, plastic, centre distance 50 mm, 16 mm perforation

1016674



Drain and fill tool

Description

For Combi 3, Combi 4, Multiblock and Multiflex

Item No.

1090551

Mounting bridge

For bridging the supply and return pipes when installing radiators at a later stage.



Description	Item No.
DN 20, G 3/4 external thread, distance between pipe centres 50 mm	1016452

Multimodul Radiator connection set

For installation and commissioning of the heating system without radiators during the construction phase. Suitable for one pipe and two pipe systems. The following functions are available: shutoff, draining, filling and presetting.



Description	Item No.
For installation and commissioning of the heating system without radiators	1015651

Combi 3 Shutoff fitting

For presetting, shutting off, draining and filling



Radiator connection	Pipe connection	Item No.
G 3/4 union nut	Rp 1/2	1016166
G 3/4 union nut	G 3/4 external	1016168
G 1/2 external	Rp 1/2	1016175
G 1/2 external	G 3/4 external	1016177

Combi 3 Angle shutoff fitting

For presetting, shutting off, draining and filling



Radiator connection	Pipe connection	Item No.
G 3/4 union nut	Rp 1/2	1016567
G 3/4 union nut	G 3/4 external	1016569
G 1/2 external	Rp 1/2	1016575
G 1/2 external	G 3/4 external	1016577

Replacement valve insert

Description	Item No.
For reversed supply and return pipe, for A, AV 9, ADV 9, CV 9, E, AF, RF and RFV 9 thermostatic valves, Multiblock T, TU and TFU as well as Unibox, M 30 x 1.5, with presetting	1187078





Replacement nipple

Description	Item No.
G 1/2 self sealing external thread x G 3/4 conically sealing external thread (Eurocone), brass, nickel plated	1028161
For Multiflex F, FQ, Multiblock T, TU, TFU, TQ, T-RTL and TQ-RTL, G 1/2 self sealing external thread x G 3/4 flat sealing external thread, brass, unplated, set = 10 pieces	1028252
For Multiflex V, G 1/2 self sealing external thread x G 3/4 conically sealing external thread, brass, unplated, set = 10 pieces	1028253



1.2 Hydronic balancing at the radiator

Heating circuit distributors/collectors for radiators **124**

Multidis SH Heating circuit distributors/collectors.....	125
Multidis SH Accessories.....	126

Multidis SH Heating circuit distributors/collectors



The **Multidis SH** heating circuit distributors/collectors for radiator connection for 2 - 12 circuits are equipped with flat sealing union nut with G 1 internal thread. The heating circuit connections with G 3/4 external thread are suitable for Oventrop compression fittings.

Wall brackets are loosely enclosed. Sound insulation according to DIN 4109. The heating circuit distributors/collectors for radiator connection are used for the central distribution of the heating/cooling water to the different radiators per dwelling unit.

Connection thread supply and return	G 1 internal	Max. operating pressure	10 bar
Connection thread heating circuits	G 3/4 external	Ball valve	No
Body material	Stainless steel	Fill and drain ball valve	No
Heating circuits can be shut off	No	Flow rate indicator	No
		Wall bracket	Yes

For radiator connection



Heating circuits	Operating temperature (°C)	Item No.
2	-10 up to 90	1407252 ::
3	-10 up to 90	1407253 ::
4	-10 up to 90	1407254 ::
5	-10 up to 90	1407255 ::
6	-10 up to 90	1407256 ::
7	-10 up to 90	1407257 ::
8	-10 up to 90	1407258 ::
9	-10 up to 90	1407259 ::
10	-10 up to 90	1407260 ::
11	-10 up to 90	1407261 ::
12	-10 up to 90	1407262 ::

For radiator connection

Will be discontinued in the course of 2021 and replaced by item no. 1407252 - 62.



Heating circuits	Operating temperature (°C)	Item No.
2	-10 up to 100	1407152 °
3	-10 up to 100	1407153 °
4	-10 up to 100	1407154 °
5	-10 up to 100	1407155 °
6	-10 up to 100	1407156 °
7	-10 up to 100	1407157 °
8	-10 up to 100	1407158 °
9	-10 up to 100	1407159 °
10	-10 up to 100	1407160 °
11	-10 up to 100	1407161 °
12	-10 up to 100	1407162 °

Multidis SH Accessories

Ball valve, flat sealing

For Multidis SH/SF/SFQ



Description

For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25

Item No.

1406383
1406384

Ball valve, flat sealing, with red T-handle and thermometer

For Multidis SH/SF/SFQ



Description

For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25

Item No.

1406483
1406484

Ball valve, flat sealing, with blue T-handle and thermometer

For Multidis SH/SF/SFQ



Description

For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25

Item No.

1406583
1406584

Ball valve, flat sealing, with temperature sensor connection M 10 x 1.0

For Multidis SH/SF/SFQ



Description

For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25

Item No.

1406708

Ball valve with Eurocone



Description

For Multidis SH/SF/SFQ heating circuit distributors/collectors, G 3/4 external thread x G 3/4 union nut

Item No.

1406504



Surface-mounted cabinet

Description

No. 1, W 600 x H 760-870 x D 160 mm
No. 2, W 750 x H 760-870 x D 160 mm
No. 3, W 1000 x H 760-870 x D 160 mm
No. 4, W 1250 x H 760-870 x D 160 mm

PU

14
9
8
7

Item No.

1401171
1401172
1401173
1401174



Flush-mounted cabinet

Description

No. 1, W 560 x H 760-885 x D 115-180 mm
No. 2, W 700 x H 760-885 x D 115-180 mm
No. 3, W 900 x H 760-885 x D 115-180 mm
No. 4, W 1200 x H 760-885 x D 115-180 mm

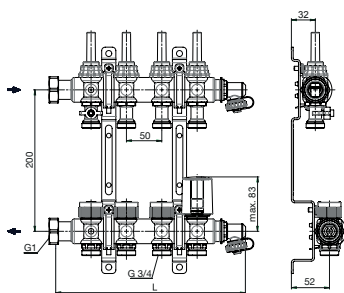
PU

17
12
10
9

Item No.

1401151
1401152
1401153
1401154

When using heat meter connection sets, the sum of installation length and distributor/collector length must be taken into account.



Outlets	Length (L)	Cabinet no.	Length (L) with ball valve item no. 1406384	Cabinet no.
2	168 mm	1	248 mm	1
3	218 mm	1	298 mm	1
4	268 mm	1	348 mm	1
5	318 mm	1	398 mm	1
6	368 mm	1	448 mm	1
7	418 mm	1	498 mm	2
8	468 mm	2	548 mm	2
9	518 mm	2	598 mm	2
10	568 mm	2	648 mm	3
11	618 mm	3	698 mm	3
12	668 mm	3	748 mm	3

Ring spanner



Description

For mounting the compression fittings, spanner size 30/32 mm

Item No.

1401091



1.2 Hydronic balancing at the radiator

Connection technology	128
Mounting and conversion aids.....	129
Cofit S Compression fittings.....	132
Ofix Compression fittings.....	133
Connection technology Accessories and spare parts.....	136

Mounting and conversion aids

Cap with sealing washer and fixing loop



Description	PU	Item No.
For Optiflex ball valves, DN 10, G 5/8 internal thread, without fixing loop	10	1010999
For fill and drain cocks DN 25, G 1 1/4	25	1034008
-	50	1034052
-	25	1034053

S-connection fitting



Description	Item No.
G 3/4 external thread x G 3/4 union nut, brass, nickel plated	1019204

Length compensating nipple



Description	PU	Item No.
DN 10, length: 21 mm, brass, nickel plated	25	1019003
DN 15, length: 23 mm, brass, nickel plated	25	1019004
DN 20, length: 25 mm, brass, nickel plated	25	1019006
DN 10, length: 75 mm, brass, nickel plated	20	1019103
DN 15, length: 75 mm, brass, nickel plated	20	1019104
DN 20, length: 70 mm, brass, nickel plated	10	1019106

Reducer



Description	Item No.
DN 25 / DN 15, G 1 internal thread x G 1/2 external thread, brass, nickel plated	1019251
DN 25 / DN 20, G 1 internal thread x G 3/4 external thread, brass, nickel plated	1019252
DN 32 / DN 15, G 1 1/4 internal thread x G 1/2 external thread, brass, nickel plated	1019253
DN 32 / DN 20, G 1 1/4 internal thread x G 3/4 external thread, brass, nickel plated	1019254

Reducing coupling



Description	Item No.
DN 10 / DN 15, brass, nickel plated	1019351

Reducing tail



Description	Item No.
DN 20 / DN 15, brass, nickel plated	1019352

Coupling



Description	PU	Item No.
DN 10, G 5/8 union nut x R 3/8 external thread, brass, nickel plated	50	1019303
DN 20, G 1 union nut x R 3/4 external thread, brass, nickel plated	50	1019306
DN 15, G 3/4 union nut x G 1/2 external thread, brass, nickel plated, self sealing with thread seal	50	1019362
DN 15, G 3/4 union nut x G 1/2 external thread, brass, nickel plated, self sealing with O-ring	25	1019372

Elbow



Description	Item No.
DN 15, G 1/2 external thread x G 3/4, brass, nickel plated	1019365

Compensation fitting



Description	Item No.
For lower connection, G 3/4 union nut x G 3/4 external thread, brass, nickel plated	1019451

Vent plug



Description	PU	Item No.
G 3/8 external thread, PN 10, nickel plated, water outlet rotatable, self sealing	100	1101603
G 1/2 external thread, PN 10, nickel plated, water outlet rotatable, self sealing	10	1101604

Blind plug



Description	PU	Item No.
G 3/8 external thread, PN 10, self sealing, brass, nickel plated	100	1101703
G 1/2 external thread, PN 10, self sealing, brass, nickel plated	10	1101704
G 3/4 external thread, PN 10, self sealing, brass, nickel plated	50	1101706

Key



Description	Item No.
Square spanner 6 mm	1103051
Square spanner 5 mm	1103151

Drain valve



Description	Item No.
With rotatable outlet, dezincification resistant, G 1/4 external thread (set = 10 pieces)	1102002
With rotatable outlet, dezincification resistant, G 3/8 external thread (set = 10 pieces)	1102003
With rotatable outlet, dezincification resistant, G 1/2 external thread (set = 10 pieces)	1102004

Cofit S Compression fittings



Cofit S compression fittings for G 3/4 external thread are universally applicable for multi-layer composite pipes and, with the same processing method, also for plastic pipes (PE-Xc pipes and PE-RT pipes). They are soft sealing due to an O-ring and metal to metal sealing due to

an additional sealing to the G 3/4 internal cone. The sealing to the pipe is achieved by an outlet with additional O-ring. Clamping ring and union nut are made of brass, the union nut is nickel plated. The outlet is made of bronze.

Seal	Metal to metal sealing	PU	10
Suitable for	- Multi-layer composite pipes - Plastic pipes		

Cofit S for G 3/4 external thread



Cofit S, 2-fold, for G 3/4 external thread according to DIN EN 16313, clamping ring and union nut made of brass, union nut nickel plated, metal to metal sealing plus O-ring.

Suitable for pipe dimension (mm)	Connection size	Quantity	Item No.
14 x 2.0	G 3/4 union nut	2-fold	1507934
16 x 2.0	G 3/4 union nut	2-fold	1507935
17 x 2.0	G 3/4 union nut	2-fold	1507937
18 x 2.0	G 3/4 union nut	2-fold	1507938
20 x 2.0	G 3/4 union nut	2-fold	1507939
20 x 2.5	G 3/4 union nut	2-fold	1507940

Ofix Compression fittings



Ofix compression fittings for G $\frac{3}{4}$ external thread and G $\frac{3}{8}$, G $\frac{1}{2}$ and G $\frac{3}{4}$ internal thread are available for various types of pipes, such as copper pipes, plastic pipes, stainless steel pipes, precision steel pipes and galvan-

ised steel pipes. Metal to metal sealing and soft sealing variants are available. No support sleeves are necessary for the soft sealing variant.

Ofix CEP for female thread, metal to metal sealing

Ofix CEP, 1-fold, for copper pipes according to DIN EN 1057, pressure screw nickel plated, metal to metal sealing.

Suitable for:

- Thermostatic valves (AV 9, RFV 9, CV 9, ADV 9, E, AF, AZ V)
- Manual regulating valves (HR, HRV)
- Radiator lockshield valves (Combi 2, Combi 3, Combi 4)
- Valves for return temperature limiters



Connection size	Quantity	Item No.
G $\frac{3}{8}$ x 10 mm	1-fold	1027151
G $\frac{3}{8}$ x 12 mm	1-fold	1027152
G $\frac{1}{2}$ x 12 mm	1-fold	1027153 °
G $\frac{1}{2}$ x 15 mm	1-fold	1027155 °
G $\frac{3}{4}$ x 18 mm	1-fold	1027157
G $\frac{3}{4}$ x 22 mm	1-fold	1027158

Ofix CEP for internal thread, metal to metal sealing

Ofix CEP, 1-fold, for copper pipes according to DIN EN 1057, pressure screw nickel plated, metal to metal sealing.

Suitable for:

- Thermostatic valves (AV 9, CV 9, ADV 9, E, AF, AZ V)
- Manual regulating valves (HR)
- Radiator lockshield valves (Combi 2, Combi 3, Combi 4)



Connection size	Quantity	Item No.
G $\frac{1}{2}$ x 10 mm	1-fold	1028152
G $\frac{1}{2}$ x 12 mm	1-fold	1028153
G $\frac{1}{2}$ x 14 mm	1-fold	1028154
G $\frac{1}{2}$ x 15 mm	1-fold	1028155
G $\frac{1}{2}$ x 16 mm	1-fold	1028156



Ofix CEP for internal thread, metal to metal sealing

Ofix CEP, 2-fold, for connecting pipe, pressure screw nickel plated, metal to metal sealing.

Suitable for:

- Thermostatic valves (AV 9, CV 9, ADV 9, E, AF, AZ V)
- Manual regulating valves (HR)
- Radiator lockshield valves (Combi 2, Combi 3, Combi 4)

Connection size	Quantity	Item No.
G 1/2 x 15 mm	2-fold	1016853



Ofix CEP for G 3/4 external thread according to DIN EN 16313, soft sealing

Ofix CEP, 2-fold, one-piece pre-assembled, for copper pipes according to DIN EN 1057, precision steel pipes according to DIN EN 10305-1 / 2, stainless steel pipes and galvanised steel pipes, soft sealing (no support sleeves required).

Suitable for:

- H-blocks (Multiblock T, TQ, T-RTL, TQ-RTL, Multiflex F)
- Heating circuit distributors/collectors (Multidis SF, SFQ, SH)
- Unibox

Seal	Soft sealing	PU	50
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Connection size	Quantity	Item No.
G 3/4 union nut x 10 mm	2-fold	1016840
G 3/4 union nut x 12 mm	2-fold	1016841
G 3/4 union nut x 14 mm	2-fold	1016842
G 3/4 union nut x 15 mm	2-fold	1016843
G 3/4 union nut x 16 mm	2-fold	1016844
G 3/4 union nut x 18 mm	2-fold	1016845



Ofix CEP for G 3/4 external thread according to DIN EN 16313, metal to metal sealing

Ofix CEP, 2-fold, for copper pipes according to DIN EN 1057, metal to metal sealing.

Suitable for:

- H-blocks (Multiblock T, TQ, T-RTL, TQ-RTL, Multiflex F)
- Heating circuit distributors/collectors (Multidis SF, SFQ, SH)
- Unibox

Connection size	Quantity	Item No.
G 3/4 union nut x 10 mm	2-fold	1016860
G 3/4 union nut x 12 mm	2-fold	1016861
G 3/4 union nut x 14 mm	2-fold	1016862
G 3/4 union nut x 15 mm	2-fold	1016863
G 3/4 union nut x 16 mm	2-fold	1016864
G 3/4 union nut x 18 mm	2-fold	1016865



Ofix K for G 3/4 external thread according to DIN EN 16313, metal to metal sealing

Ofix K, 2-fold, for plastic pipes according to DIN EN 4726, PE-X according to DIN 16892/16893, PB according to DIN 16968 and PP according to DIN 8078 A1, metal to metal sealing plus O-ring.

Suitable for:

- H-Blocks (Multiblock T, TQ, T-RTL, TQ-RTL, Multiflex F)
- Heating circuit distributors/collectors (Multidis SF, SFQ, SH)
- Unibox

Connection size	Quantity	Item No.
12 x 2 mm	2-fold	1016870
14 x 2 mm	2-fold	1016873
16 x 2 mm	2-fold	1016874
17 x 2 mm	2-fold	1016876
18 x 2 mm	2-fold	1016877
20 x 2 mm	2-fold	1016879
16 x 1.5 mm	2-fold	1016882
12 x 1.1 mm	2-fold	1016883
15 x 2.5 mm	2-fold	1016885

Connection technology Accessories and spare parts








Brass support sleeve

For soft pipes with 1 mm wall thickness.



Description	PU	Item No.
10 mm	100	1029651
14 mm	100	1029653
15 mm	50	1029654
16 mm	50	1029655
18 mm	50	1029656
22 mm	50	1029657
6 mm	100	2083951
8 mm	100	2083952

Connection of pipes, fittings, radiators, distributors/collectors etc. for heating, sanitation and air conditioning with compression fitting

	Compression fittings for G 3/4 male thread according to DIN EN 16313 (Eurocone)				Compression fittings for Rp 1/2 female thread	
						
	Cofit S	Ofix K	Ofix CEP	Ofix CEP	Ofix CEP	Cofit S
	Outlet dezincification resistant brass, clamping ring brass	Outlet and clamping ring brass	Soft seal	Clamping ring brass	Clamping ring brass	Outlet dezincification resistant brass, clamping ring brass
Oventrop Copipe multi-layer composite pipe and multi-layer composite pipes of other manufacturers Ø 14 – Ø 20	Ø 14 – Ø 20					Ø 14 – Ø 16
Plastic pipe according to DIN 4726, PE-X according to DIN 16 892/16 893, PB according to DIN 16 968, PP according to DIN 80 78 A1 Ø 12 – Ø 20	Ø 14 – Ø 20 (only PE-X pipes)	Ø 12 – Ø 20				
Copper pipe DIN EN 1057 Ø 10 – Ø 18			Ø 10 – Ø 18	Ø 10 – Ø 22	Ø 10 – Ø 16	
Precision steel pipe DIN EN 10305-1 DIN EN 10305-2 Ø 10 – Ø 18			Ø 10 – Ø 18			
Stainless steel pipe DIN EN 10312 Ø 10 – Ø 18			Ø 10 – Ø 18			
Brass support sleeves						
				For pipe wall thickness = 1 mm		



1.2 Hydronic balancing at the radiator

One pipe	138
Unifix Refurbishment of one pipe heating systems.....	139
One pipe valves with shutoff.....	142
Three-way conversion valves.....	145
One pipe valves Accessories and spare parts.....	148

Unofix Refurbishment of one pipe heating systems



The Unofix system for the refurbishment of one pipe heating systems is based on the differential pressure independent control valve Cocon QTZ. It is available in different variants: As basic variant Unofix QB with pure volume flow limitation or as Unofix QT with additional actuator and room thermostat with time in-

terval for e.g. night setback. The third variant Unofix QR has a return temperature limitation to maintain the temperature spread in partial load operation of the one pipe heating circuit. Two different spacers with fixed or adjustable minimum stroke are available for Unofix QR to ensure the residual volume flow.

Cocon QTZ with coupling and internal thread PN 16, DN 15...20



Body material	DZR brass	Operating temperature	-10 up to 120 °C
Connection actuator	M 30 x 1.5	Main function	Pressure independent control valve
Shutoff	Yes	Measuring connection	Closed with blind plugs
Presetting	Yes	PU	10
Presetting blockable	Yes, lead sealable		
Installation location	Supply or return		
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Control range (l/h)	Item No.
DN 15	R 1/2 x Rp 1/2	30 - 210	1145504
DN 20	R 3/4 x Rp 3/4	150 - 1,050	1145506
DN 15	R 1/2 x Rp 1/2	90 - 450	1145604
DN 20	R 3/4 x Rp 3/4	180 - 1,300	1145606 °
DN 15	R 1/2 x Rp 1/2	150 - 1,050	1145704 °



Cocon QTZ with external thread PN 16, DN 10...20

Body material	DZR brass	Operating temperature	-10 up to 120 °C
Connection actuator	M 30 x 1.5	Main function	Pressure independent control valve
Shutoff	Yes	Measuring connection	Closed with blind plugs
Presetting	Yes	PU	10
Presetting blockable	Yes, lead sealable		
Installation location	Supply or return		
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Control range (l/h)	Item No.
DN 10	G 1/2	30 - 210	1145563
DN 15	G 3/4	30 - 210	1145564
DN 20	G 1	150 - 1,050	1145566
DN 10	G 1/2	90 - 450	1145663 °
DN 15	G 3/4	90 - 450	1145664
DN 20	G 1	180 - 1,300	1145666 °
DN 15	G 3/4	150 - 1,050	1145764 °

Spacer



Description	Item No.
For Cocon QTZ, with fixed minimum stroke	1149090
For Cocon QTZ, with adjustable minimum stroke	1149091

Uni RTLH Thermostat with M 30 x 1.5



Description	Item No.
Anthracite, with zero position, limitable and blockable, 10 °C - 70 °C	1149068

Cap made of plastic



Description	Item No.
For Cocon QTZ, M 30 x 1.5	1146091



Room thermostat for two pipe applications, with display, flush mounting

Tension	Control	Item No.
230 V	Two point	1152561 °



Aktor T 2P Electrothermal actuator, connection thread M 30 x 1,5

Tension	Version	Cable* (m)	PU	Item No.
230 V	"Normally closed"	1	100	1012415
24 V	"Normally closed"	1		1012416

One pipe valves with shutoff



The Bypass Combi Uno system is used in one pipe central heating systems with forced circulation, with ring circuits up to 8000 watts, regardless of the type of heating.

The one pipe valves and connection fittings allow for an efficient, cost-saving installation and easy dimensioning of one pipe heating systems. The infinitely presettable bypass allows for an optimal economical design of the entire heating system. The radiator fitting of the one pipe connection piece can be either a brass fitting or an insulating fitting. The insulating fitting largely prevents even small radiators from heating up due to the heat flow

through the radiator fitting when the thermostatic valve is closed. The possibility of shutting off the supply and return to the radiator means that it can also be removed while the heating system is running.

A one pipe connection piece, a connecting pipe and a reversed angle valve, a double angle valve or a straight valve with elbow, as well as a compression fitting set are required for the implementation. If the thermostat is to face forward, the double angle valve or the straight valve with elbow must be selected instead of the reversed angle valve. The thermostat must be ordered separately.

Uno One pipe connection piece with infinitely adjustable bypass and shutoff



Type	Straight	Medium	Water
Nominal size	DN 15		Water-glycol mixture
Surface	Nickel plated	One pipe*	Yes
Body material	Brass	Two pipe*	No
Max. operating pressure	10 bar	PU	25
Operating temperature	2 up to 120 °C		

Distance between pipe centres (mm)	Suitable for reversed supply and return	Pipe connection	Description	Item No.
50	No	G 3/4 external	With radiator insulating fitting	1013161
50	No	G 3/4 external	With brass fitting	1013162
50	Yes	G 3/4 external	With radiator insulating fitting	1013164
35	No	M 24 x 1.5 external	With brass fitting	1182151

One pipe radiator valve with fixed bypass and shutoff



Nominal size	DN 15	Medium	Water
Connection thread	M 30 x 1.5		Water-glycol mixture
Surface	Nickel plated	One pipe*	Yes
Body material	Brass	Two pipe*	No
Max. operating pressure	10 bar	Suitable for reversed supply and return	No
Operating temperature	2 up to 120 °C		

Type	Item No.
Vertical connection	1183561
Lateral connection	1183571

A Thermostatic valve



Connection thread	M 30 x 1.5	One pipe*	Yes
Surface	Nickel plated	Two pipe*	Yes
Body material	Brass	Suitable for reversed supply and re- turn	No
Max. operating pressure	10 bar	PU	25
Operating temperature	2 up to 120 °C		
Medium	Water-glycol mixture Water		

Type	Nominal size	Item No.
Straight with elbow	DN 15	1181304
Double angle left	DN 15	1181392
Double angle right	DN 15	1181393
Reversed angle	DN 15	1181404

Connecting pipe



Description	Item No.
15 x 560 mm, steel, chrome plated	1016951
15 x 1120 mm, steel, chrome plated	1016953

Ofix CEP Compression fitting



Description	Item No.
For connecting pipe, 2-fold for internal thread, G 1/2 external thread x 15 mm, metal to metal sealing	1016853

Ofix CEP Compression fitting M 24 x 1.5



Description	Item No.
For copper pipes, 2-fold, 15 mm, metal to metal sealing	1016813

Ofix K Compression fitting M 24 x 1.5



Description	Item No.
For plastic pipes, 2-fold, 14 x 2.0 mm, metal to metal sealing	1016823
For plastic pipes, 2-fold, 16 x 2.0 mm, metal to metal sealing	1016824

Covering rosette made of plastic



Description	Item No.
For connecting pipe, flat, distance between pipe centres 35 mm, 14-16 mm perforation	1016684

Elbow



Description	Item No.
G 3/4 union nut x G 3/4 external thread	1189361

Three-way conversion valves



The three-way conversion valves are suitable for one pipe heating systems with forced circulation and are often used in housing construction in the new Federal states. The body is made of nickel plated bronze/brass. The valve insert is made of brass and the spindle and spring of stainless steel. The valve disc has a soft seal. The pipe connections are designed with flat-sealing external thread. When

the valve closes, the flow through the radiator is reduced and the flow through the bypass is increased and vice versa. The three-way conversion valves are supplied with a plastic protection cap, which serves as protection and for manual operation during the construction period. The subsequent temperature control is carried out by a thermostat. All thermostats with connection thread M 30 x 1.5 can be used.

Left hand side connection



Body material	Brass	Max. operating pressure	16 bar
Surface	Nickel plated	One pipe*	Yes
Connection thread	M 30 x 1.5	Two pipe*	No
Medium	Water Water-glycol mixture	Colour protection cap	Yellow
Operating temperature	2 up to 120 °C	PU	25

Nominal size

Nominal size	Item No.
DN 15	1180584
DN 20	1180586

Right hand side connection



Body material	Brass	Max. operating pressure	16 bar
Surface	Nickel plated	One pipe*	Yes
Connection thread	M 30 x 1.5	Two pipe*	No
Medium	Water Water-glycol mixture	Colour protection cap	Yellow
Operating temperature	2 up to 120 °C	PU	25

Nominal size

Nominal size	Item No.
DN 15	1180585
DN 20	1180587



Presetting key

Description	Item No.
For three-way conversion valves	1010599

Fitting



Description	Item No.
DN 15, weldable tailpipe and union nut G ¾ internal thread, flat sealing to the pipework	1019374
DN 20, weldable tailpipe and union nut G 1 internal thread, flat sealing to the pipework	1019376
DN 15, G ½ internal thread / union nut G 7/8 internal thread, flat sealing to the bypass pipe	1019384
DN 20, G ¾ internal thread / union nut G 1 ¼ internal thread, flat sealing to the bypass pipe	1019386
DN 15, R ½ external thread / union nut G ¾ internal thread, flat sealing to the radiator	1019394
DN 20, R ½ external thread / union nut G 1 internal thread, flat sealing to the radiator	1019396

Shutoff fitting

Length: 45 mm

PU 25



Description	Item No.
DN 15, G ¾ external thread / union nut G ¾ internal thread, flat sealing	1016194
DN 20, G 1 external thread / union nut G 1 internal thread, flat sealing	1016196

Connection set

The conversion set as short-circuit section consists of a replacement set of the fittings located upstream of the radiator. These components are required in addition to three-way conversion valves and insulating fittings.



Description	Item No.
For three-way conversion valve, centre distance 552 mm, DN 15	1010558
For three-way conversion valve, centre distance 552 mm, DN 20	1010559
For three-way conversion valve, centre distance 992 mm, DN 15	1010568
For three-way conversion valve, centre distance 992 mm, DN 20	1010569

Insulating fitting

To reduce the heat transfer between valve/T-piece and radiator in vertical one pipe heating systems.



Description	Item No.
Insulation, compensation and shutoff set DN 15, G ¾ union nut x G ½ external thread, brass, flat sealing	1016254
Insulation, compensation and shutoff set DN 20, G 1 union nut x G ½ external thread, brass, flat sealing	1016256
Insulation loop and shutoff set DN 15, G ¾ union nut x G ¾ external thread, brass, flat sealing	1016284
Insulation loop and shutoff set DN 20, G 1 union nut x G 1 external thread, brass, flat sealing	1016286

S-connection fitting



The S-connection fitting is suitable for replacing radiators with prefabricated radiators with deviating centre distance up to max. $2 \times 32 \text{ mm} = 64 \text{ mm}$

Description	Item No.
DN 15, G $\frac{3}{4}$ external thread x G $\frac{3}{4}$ union nut, flat sealing	1019497
DN 20, G $\frac{3}{4}$ external thread x G 1 union nut, flat sealing	1019498

Tailpipe set

For S-connection fitting



Description	Item No.
Weldable tailpipe for valve DN 15, steel, 2-fold	1060592
Weldable tailpipe for valve DN 20, steel, 2-fold	1060593
Internally threaded tailpipe, Rp $\frac{1}{2}$ for valve DN 15, brass, 2-fold	1061392 °
Internally threaded tailpipe, Rp $\frac{3}{4}$ for valve DN 20, brass, 2-fold	1061393 °
Externally threaded tailpipe, R $\frac{1}{2}$ for valve DN 15, brass, 2-fold	1061492
Externally threaded tailpipe, R $\frac{3}{4}$ for valve DN 20, brass, 2-fold	1061493

One pipe valves Accessories and spare parts



Replacement valve insert

Description

For three-way conversion valves, M 30 x 1.0, with presetting

For three-way conversion valves, M 30 x 1.5, with presetting

PU

Item No.

25

1017056

100

1187056



1.2 Hydronic balancing at the radiator

Valve sets **149**

Two pipe valves with shutoff.....	150
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Two pipe valves with shutoff



The Bypass Combi Duo system is used in two pipe central heating systems with forced circulation, regardless of the type of heating.

The two pipe valves allow for an efficient, cost-saving installation and easy dimensioning of two pipe heating systems. The possibility of shutting off the supply and return to the radiator means that it can also be removed while the heating system is running.

A two pipe connection piece, a connecting pipe and a reversed angle valve, a double angle valve or a straight valve with elbow, as well as a compression fitting set are required for the implementation. If the thermostat is to face forward, the double angle valve or the straight valve with elbow must be selected instead of the reversed angle valve. The thermostat must be ordered separately.

Duo Two pipe connection piece with shutoff and infinitely adjustable presetting



Distance between pipe centres	35 mm	One pipe*	No
Body material	Brass	Two pipe*	Yes
Surface	Nickel plated	Pipe connection	M 24 x 1.5 external
Operating temperature	2 up to 120 °C	PU	25
Max. operating pressure	10 bar		
Medium	Water Water-glycol mixture		

Nominal size

DN 15

Item No.

1182651

Duo Two pipe connection piece with shutoff



Distance between pipe centres	50 mm	One pipe*	No
Body material	Brass	Two pipe*	Yes
Surface	Nickel plated	Pipe connection	G 3/4 Eurocone
Operating temperature	2 up to 120 °C	PU	25
Max. operating pressure	10 bar		
Medium	Water Water-glycol mixture		

Nominal size

DN 15

Item No.

1013361



Valve with immersion pipe with shutoff

Body material	Brass	One pipe*	No
Surface	Nickel plated	Two pipe*	Yes
Operating temperature	2 up to 120 °C	Pipe connection	G ¾ Eurocone
Max. operating pressure	10 bar	Connection thread	M 30 x 1.5
Medium	Water Water-glycol mixture		

Nominal size	Type	Item No.
DN 15	Vertical connection	1183581
DN 15	Lateral connection	1643561



Two pipe connection piece

Type	Straight	One pipe*	No
Distance between pipe centres	50 mm	Pipe connection	G ¾ Eurocone
Body material	Brass	Radiator connection	R ½
Surface	Nickel plated	Two pipe*	Yes
Operating temperature	2 up to 120 °C	PU	10
Medium	Water-glycol mixture Water		

Nominal size	Item No.
DN 15	1028750



A Thermostatic valve

Body material	Brass	One pipe*	Yes
Surface	Nickel plated	Two pipe*	Yes
Operating temperature	2 up to 120 °C	Connection thread	M 30 x 1.5
Max. operating pressure	10 bar	PU	25
Medium	Water-glycol mixture Water		

Nominal size	Type	Pipe connection	Item No.
DN 15	Straight with elbow	Rp ½	1181304
DN 15	Double angle left	Rp ¾	1181392
DN 15	Double angle right	Rp ½	1181393
DN 15	Reversed angle	Rp ½	1181404

Connecting pipe



Description	Item No.
15 x 560 mm, steel, chrome plated	1016951
15 x 1120 mm, steel, chrome plated	1016953



Ofix CEP Compression fitting

Description

For connecting pipe, 2-fold for internal thread, G ½ external thread x 15 mm, metal to metal sealing

Item No.

1016853



1.3 Surface heating and cooling

Heating circuit distributors/collectors for surface heating and surface cooling 155

Multidis SF Heating circuit distributors/collectors for surface heating and surface cooling.....	156
Multidis SFQ Heating circuit distributors/collectors with Q-Tech.....	158
Multidis SFI Distributors/collectors for industrial surface heating / cooling and concrete core activation.....	160
Multidis Accessories and spare parts.....	161

Pipes and laying systems 169

Copert and Copex Plastic pipes.....	170
Copipe HSC Multi-layer composite pipes.....	172
Cofloor Tacker system.....	174
Cofloor Base mat system.....	176
Cofloor Velcro system.....	179
Cofloor Drywall construction system.....	181
Cofloor Accessories and spare parts.....	183

Stations for surface heating systems 186

Regufloor Control stations for surface heating.....	187
Regufloor Accessories and spare parts.....	189
Control sets for surface heating.....	192

Room thermostats and controllers 193

ClimaCon F Room thermostats for surface heating.....	194
Room thermostats heating.....	196
Room thermostats heating/cooling.....	198
Room thermostats Accessories.....	199
Connecting blocks.....	200
Actuators.....	202
Actuators Accessories.....	204
R-Tronic Wireless thermostats.....	205
R-Tronic Accessories.....	207
R-Con Wireless receivers.....	208
R-Con Accessories.....	210

Surface temperature regulation with return temperature limitation 211

Unibox Return temperature control.....	212
Unibox Room temperature control and return temperature control.....	213

Unibox Accessories and spare parts.....	215
---	-----

Surface heating with decentralised distribution 219

Unidis Connection without distributor/collector for surface heating.....	220
Unidis Accessories and spare parts.....	223

Return temperature limiters 225

Valves for return temperature limitation.....	226
Return temperature limiter sets.....	227
Return temperature limiters Accessories.....	228



1.3 Surface heating and cooling

Heating circuit distributors/collectors for surface heating and surface cooling 155

Multidis SF Heating circuit distributors/collectors for surface heating and surface cooling.....	156
Multidis SFQ Heating circuit distributors/collectors with Q-Tech.	158
Multidis SFI Distributors/collectors for industrial surface heating / cooling and concrete core activation.....	160
Multidis Accessories and spare parts.....	161

Multidis SF Heating circuit distributors/collectors for surface heating and surface cooling



The **Multidis SF** heating circuit distributors/collectors for surface heating and cooling for 2 - 12 heating circuits are made of stainless steel. The flow distributor is equipped with integrated regulating inserts or with integrated flow measuring and regulating devices. The return collector is equipped with valve inserts with an M 30 x 1.5 connection thread to connect optional actuators. The heating circuit distributors/collectors are completely pre-as-

sembled with fill and drain cocks, vent plugs and end caps. The heating circuit connections with G 3/4 external thread are suitable for Oventrop compression fittings. Wall brackets are loosely enclosed. Sound insulation according to DIN 4109. The heating circuit distributors/collectors are designed for use in surface heating and cooling system with forced circulation.

Body material	Stainless steel	With valve inserts	Yes
Connection thread heating circuits	G 3/4 external	Heating circuits can be shut off	Yes
Connection thread supply and return	G 1 internal	Ball valve	No
Fill and drain ball valve	Yes	Wall bracket	Yes

Multidis SF with integrated regulating inserts in the flow distributor



Max. operating pressure (bar)	Heating circuits	Operating temperature (°C)	Item No.
10	2	-10 up to 90	1406552 ::
10	3	-10 up to 90	1406553 ::
10	4	-10 up to 90	1406554 ::
10	5	-10 up to 90	1406555 ::
10	6	-10 up to 90	1406556 ::
10	7	-10 up to 90	1406557 ::
10	8	-10 up to 90	1406558 ::
10	9	-10 up to 90	1406559 ::
10	10	-10 up to 90	1406560 ::
10	11	-10 up to 90	1406561 ::
10	12	-10 up to 90	1406562 ::

Multidis SF with integrated regulating inserts in the flow distributor

Will be discontinued in the course of 2021 and replaced by item no. 1406552 - 62.



Max. operating pressure (bar)	Heating circuits	kvs	Operating temperature (°C)	PU	Item No.
6	2	1.90	-		1405552 °
6	3	1.90	-10 up to 80		1405553 °
6	4	1.90	-10 up to 80	120	1405554 °
6	5	1.90	-10 up to 80	120	1405555 °
6	6	1.90	-10 up to 80		1405556 °
6	7	1.90	-10 up to 80		1405557 °
6	8	1.90	-10 up to 80		1405558 °
6	9	1.90	-10 up to 80		1405559 °
6	10	1.90	-10 up to 80		1405560 °
6	11	1.90	-10 up to 80		1405561 °
6	12	1.90	-10 up to 80		1405562 °

Multidis SF with integrated flow measuring and regulating devices in the flow distributor



Max. operating pressure (bar)	Heating circuits	Control range (l/min)	Operating temperature (°C)	Item No.
6	2	0 up to 5	-10 up to 70	1406352 ::
6	3	0 up to 5	-10 up to 70	1406353 ::
6	4	0 up to 5	-10 up to 70	1406354 ::
6	5	0 up to 5	-10 up to 70	1406355 ::
6	6	0 up to 5	-10 up to 70	1406356 ::
6	7	0 up to 5	-10 up to 70	1406357 ::
6	8	0 up to 5	-10 up to 70	1406358 ::
6	9	0 up to 5	-10 up to 70	1406359 ::
6	10	0 up to 5	-10 up to 70	1406360 ::
6	11	0 up to 5	-10 up to 70	1406361 ::
6	12	0 up to 5	-10 up to 70	1406362 ::

Multidis SF with integrated flow measuring and regulating devices in the flow distributor

Will be discontinued in the course of 2021 and replaced by item no. 1406352 - 62.



Max. operating pressure (bar)	Heating circuits	Control range (l/min)	kvs	Operating temperature (°C)	Item No.
6	2	0 up to 5	1.10	-10 up to 80	1405352 °
6	3	0 up to 5	1.10	-10 up to 80	1405353 °
6	4	0 up to 5	1.10	-10 up to 80	1405354 °
6	5	0 up to 5	1.10	-10 up to 80	1405355 °
6	6	0 up to 5	1.10	-10 up to 80	1405356 °
6	7	0 up to 5	1.10	-10 up to 80	1405357 °
6	8	0 up to 5	1.10	-10 up to 80	1405358 °
6	9	0 up to 5	1.10	-10 up to 80	1405359 °
6	10	0 up to 5	1.10	-10 up to 80	1405360 °
6	11	0 up to 5	1.10	-10 up to 80	1405361 °
6	12	0 up to 5	1.10	-10 up to 80	1405362 °

Multidis SFQ Heating circuit distributors/collectors with Q-Tech



The **Multidis SFQ** heating circuit distributors/collectors for surface heating and cooling for 2 - 12 heating circuits are made of stainless steel. The flow distributor is equipped with integrated flow indicators or with integrated shutoff devices. The return collector is equipped with QM valve inserts with an M 30 x 1.5 connection thread to connect optional actuators. The special QM valve insert allows for automatic hydronic balancing in central heating and cooling systems with closed circuits.

The heating circuit distributors/collectors are completely pre-assembled with fill and drain cocks, vent plugs and end caps. The heating circuit connections with G 3/4 external thread are suitable for Oventrop compression fittings. Wall brackets are loosely enclosed. Sound insulation according to DIN 4109. The heating circuit distributors/collectors are designed for use in surface heating and cooling system with forced circulation.

Body material	Stainless steel	With valve inserts	Yes
Connection thread heating circuits	G 3/4 external	Heating circuits can be shut off	Yes
Connection thread supply and return	G 1 internal	Presetting key enclosed	Yes
Q-Tech*	Yes	Ball valve	No
Fill and drain ball valve	Yes	Wall bracket	Yes

Multidis SFQ with integrated flow indicators in the flow distributor



Heating circuits	Flow indicator	Item No.
2	Yes	1404952
3	Yes	1404953
4	Yes	1404954
5	Yes	1404955
6	Yes	1404956
7	Yes	1404957
8	Yes	1404958
9	Yes	1404959
10	Yes	1404960
11	Yes	1404961
12	Yes	1404962

Multidis SF with integrated shutoff devices in the flow distributor

Will be discontinued in the course of 2021 and replaced by item no. 1404952 - 62.



Heating circuits	Flow rate indicator	Control range (l/min)	Item No.
2	No	0.5 up to 5	1404752 °
3	No	0.5 up to 5	1404753 °
4	No	0.5 up to 5	1404754 °
5	No	0.5 up to 5	1404755 °
6	No	0.5 up to 5	1404756 °
7	No	0.5 up to 5	1404757 °
8	No	0.5 up to 5	1404758 °
9	No	0.5 up to 5	1404759 °
10	No	0.5 up to 5	1404760 °
11	No	0.5 up to 5	1404761 °
12	No	0.5 up to 5	1404762 °



Multidis SFI Distributors/collectors for industrial surface heating / cooling and concrete core activation



The **Multidis SFI** distributors/collectors for industrial surface heating and cooling as well as concrete core activation for 2 - 6 circuits are made of brass. The flow distributor is equipped with ball valves and the return collector with regulating valves. An extension of the circuits up to 20 is possible by connecting distrib-

utor/collector modules. Flow distributor with G 1 external thread for Oventrop compression fittings. Return collector with integrated regulating valves with G 1 external thread. The distributors/collectors are designed for use in industrial surface heating and cooling systems as well as for concrete core activation.

Body material	Brass	With regulating valves	Yes
Connection thread heating circuits	G 1 external	Heating circuits can be shut off	Yes
Connection thread supply and return	G 2 union nut x G 2 external	Ball valve	No
Max. operating pressure	6 bar	Extendable	Yes
Q-Tech*	No	Wall bracket	No
Fill and drain ball valve	No		

Multidis SFI



	Heating circuits	Item No.
	2	1414452
	3	1414453
	4	1414454
	5	1414455
	6	1414456

Multidis Accessories and spare parts

Cofit S Compression fitting for G 3/4 external thread



According to DIN EN 16313, clamping ring and union nut made of brass, union nut nickel plated, outlet made of bronze, metal to metal sealing plus O-ring.
Suitable for Copipe multi-layer composite pipes and, with the same processing method, also for plastic pipes.

Suitable for pipe dimension (mm)	Connection size	Quantity	Item No.
14 x 2.0	G 3/4 union nut	2-fold	1507934
16 x 2.0	G 3/4 union nut	2-fold	1507935
17 x 2.0	G 3/4 union nut	2-fold	1507937
18 x 2.0	G 3/4 union nut	2-fold	1507938
20 x 2.0	G 3/4 union nut	2-fold	1507939
20 x 2.5	G 3/4 union nut	2-fold	1507940

Double fitting (2-fold)



Description	Item No.
For heat meter connection sets, G 1 external thread x G 1 union nut	1699085

Coupling



Description	Item No.
For connecting two Multidis SF heating circuit distributors/collectors, G 1 x G 3/4	1407206

Coupling



Description	Item No.
DN 15, G 3/4 union nut x R 1/2 external thread, brass, nickel plated	1019304



Surface-mounted cabinet

For Multidis SF/SFQ heating circuit distributors.
Steel, galvanised. Frame and door white lacquered.

Description	PU	Item No.
No. 1, W 600 x H 760-870 x D 160 mm	14	1401171
No. 2, W 750 x H 760-870 x D 160 mm	9	1401172
No. 3, W 1000 x H 760-870 x D 160 mm	8	1401173
No. 4, W 1250 x H 760-870 x D 160 mm	7	1401174

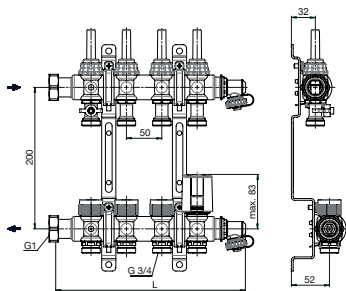


Flush-mounted cabinet

For Multidis SF/SFQ heating circuit distributors/collectors.
Steel, galvanised. Frame and door white lacquered. With removable screen.

Description	PU	Item No.
No. 1, W 560 x H 760-885 x D 115-180 mm	17	1401151
No. 2, W 700 x H 760-885 x D 115-180 mm	12	1401152
No. 3, W 900 x H 760-885 x D 115-180 mm	10	1401153
No. 4, W 1200 x H 760-885 x D 115-180 mm	9	1401154

When using heat meter connection sets, the sum of installation length and distributor/collector length must be taken into account.



Outlets	Length (L)	Cabinet no.	Length (L) with ball valve item no. 1406384	Cabinet no.
2	168 mm	1	248 mm	1
3	218 mm	1	298 mm	1
4	268 mm	1	348 mm	1
5	318 mm	1	398 mm	1
6	368 mm	1	448 mm	1
7	418 mm	1	498 mm	2
8	468 mm	2	548 mm	2
9	518 mm	2	598 mm	2
10	568 mm	2	648 mm	3
11	618 mm	3	698 mm	3
12	668 mm	3	748 mm	3



Regubox Exclusive surface-mounted cabinet

With white, frameless, opaque and lockable glass door. Frame surface made of brushed stainless steel. Without rear wall.

Description	Item No.
As item no. 1341098, but for Regudis W-HTE or Multidis SF/SFQ heating circuit distributors/collectors with a maximum of 9 heating circuit connections (angle connection set item no. 1404780 taken into account)	1341298
Wall bracket for Regubox (item no. 1341298), sheet steel, galvanised, floor-standing installation, adjustable height	1341299

Cylinder lock



Description	Item No.
With key for surface-mounted cabinets (item no. 1401171-74)	1401190
With key for flush-mounted cabinets (item no. 1401151-54) and all Regudis W cabinets	1401191



Heat meter connection set for Multidis SF heating circuit distributors/collectors

Description	Item No.
With Hycocon VTZ, angle, DN 20	1404578
With Hycocon VTZ, straight, DN 20	1404579
With Hycocon VTZ, angle, DN 25	1404580
With Hycocon VTZ, straight, DN 25	1404581
with Hycocon DTZ, angle, DN 25	1404682
with Hycocon DTZ, straight, DN 25	1404683
With Cocon QDP, angle, DN 20	1404884
With Cocon QDP, straight, DN 20	1404885
With Cocon QDP, angle, DN 25	1404886
With Cocon QDP, straight, DN 25	1404887



Heat meter connection set for Multidis SFQ heating circuit distributors/collectors

Description	Item No.
With ball valves, angle, DN 20	1405578
With ball valves, straight, DN 20	1405579
With ball valves, angle, DN 25	1405580
With ball valves, straight, DN 25	1405581

Angle connection set

For bottom connection to heating circuit distributors/collectors when using surface-mounted cabinets.



Description	Item No.
For Multidis SF/SFQ heating circuit distributors/collectors	1404780

Ball valve, flat sealing



Description	Item No.
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20	1406383
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25	1406384
For brass distributors/collectors, DN 25, with coupling	1406394 °



Ball valve, flat sealing, with red T-handle and thermometer

Description	Item No.
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20	1406483
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25	1406484



Ball valve, flat sealing, with blue T-handle and thermometer

Description	Item No.
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 20	1406583
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25	1406584



Ball valve, flat sealing, with temperature sensor connection M 10 x 1.0

Description	Item No.
For Multidis SH/SF/SFQ heating circuit distributors/collectors, DN 25	1406708



Ball valve, flat sealing, with extended plastic handle

For shutting off the flow distributor and return collector.

Description	Item No.
For Multidis SFI distributors/collectors for industrial surface heating / cooling and concrete core activation, DN 50, G 2 internal thread x G 2 external thread	1406586



Ball valve with Eurocone

For shutting off the heating circuits at the distributor/collector.

Description	Item No.
For Multidis SH/SF/SFQ heating circuit distributors/collectors, G 3/4 external thread x G 3/4 union nut	1406504

Optiflex Fill and drain ball valve

Self sealing, with counter nut, hose connection (soft sealing) and cap.



Description

For Multidis SFI, for filling and venting, DN 15, G 1/2

Item No.

1033314

Bracket



Description

For Multidis SF/SFQ heating circuit distributors/collectors, with two pipe clamps, including sound insulation

Item No.

1408010

Console



Description

For Multidis SFI, steel, galvanised, height and depth adjustable, 2-fold with two pipe clamps including sound insulation inserts and quick fastener

Item No.

1414490

Differential pressure relief device

For the right hand side connection to the heating circuit distributor/collector. To avoid flow noises.



Description

For Multidis SF heating circuit distributors/collectors, G 3/4 external thread

Item No.

1404790

Terminal distributor/collector



Description

4-fold, G 1 internal thread, connection G 3/4 external thread for heating circuit and G 3/8 internal thread for air vent, brass, DN 25

Item No.

1400554 °

Distributor/collector



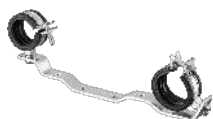
Description	Item No.
2-fold, G 1 internal thread x G 1 external thread, heating circuit G 3/4 external thread, brass, DN 25	1400652 °
3-fold, G 1 internal thread x G 1 external thread, heating circuit G 3/4 external thread, brass, DN 25	1400653 °
4-fold, G 1 internal thread x G 1 external thread, heating circuit G 3/4 external thread, brass, DN 25	1400654 °

Terminal cap



Description	Item No.
For distributor/collector DN 25, G 1 internal thread, connection G 3/8 internal thread for air vent and G 1/2 internal thread for fill and drain ball valve	1400691 °

Bracket for brass distributor/collector



Description	Item No.
For terminal distributor/collector and distributor/collector, made of brass, galvanised	1401061 °

Cap (2-fold)



Description	Item No.
For Multidis SFI distributors/collectors for industrial surface heating / cooling and concrete core activation, brass, G 2 internal thread	1414493

Vent plug



Description	Item No.
G 3/8, self sealing, set = 10 pieces	1400392

Cap



Description	Item No.
G 3/4 internal thread	1400692
G 1 internal	1400693

Blind plug



Description	Item No.
G 1/2, self sealing	1401704 °

Thermometer



Description	Item No.
For brass heating circuit distributors/collectors	1404095

Uni FH Thermostat with remote control with M 30 x 1.5



Description	PU	Item No.
7-28 C, 0 * 1-5, remote control 2 m, white	560	1012295
7-28 C, 0 * 1-5, remote control 5 m, white		1012296
7-28 C, 0 * 1-5, remote control 10 m, white		1012297
7-28 C, 0 * 1-5, remote control, remote sensor, 2 m, white		1012395
7-28 C, 0 * 1-5, remote control, remote sensor, 5 m, white		1012396

Ring spanner



Description	Item No.
For mounting the compression fittings, spanner size 30/32 mm	1401091

Replacement valve insert



Description	Item No.
For Multidis SF heating circuit distributors/collectors	1404091

Replacement double regulating and commissioning valve



Description	Item No.
For heat meter connection sets, DN 20, G 1 external thread, with measuring and drain valve	1061856 °

Replacement differential pressure regulator



Description	Item No.
For heat meter connection sets, DN 20, G 1 external thread, with measuring and drain valve	1062166

Aktor T 2P Replacement electrothermal actuator, connection thread M 30 x 1,5



Description	PU	Item No.
Two point control, "normally closed", 230 V	100	1012415
Two point control, "normally closed", 24 V		1012416



1.3 Surface heating and cooling

Pipes and laying systems	169
Copert and Copex Plastic pipes.....	170
Copipe HSC Multi-layer composite pipes.....	172
Cofloor Tacker system.....	174
Cofloor Base mat system.....	176
Cofloor Velcro system.....	179
Cofloor Drywall construction system.....	181
Cofloor Accessories and spare parts.....	183

Copert and Copex Plastic pipes



The plastic pipes **Copex** (PE-Xc) and **Copert** (PE-RT) are suitable for surface heating and cooling. The **Copex** pipes comply with DIN 16892 / DIN 16893 / DIN EN ISO 15 875 / EN1264-4. The **Copert** pipes comply with DIN 16833 / DIN 16834. Both pipes are oxygen tight according to DIN 4726. The following dimensions are available: 12 x 2.0 mm, 14 x 2.0 mm, 16 x 2.0 mm, 17 x 2.0 mm, 20 x 2.0 mm, 26 x 3.0 mm and 32 x 3.0 mm.

Oxygen tight	Yes	Material outer layer	Plastic
Material inner layer	Plastic	Number of layers	5
Material intermediate layer	Plastic		

PE-RT Copert Plastic pipe



Pipe colour	White	Quality class	PE-RT II
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Dimension (mm)	Length of roll (m)	Max. operating pressure (pipe)	PU	Item No.
12 x 2.0	200	6 bar at 70°C	200	1401952
14 x 2.0	240	6 bar at 70°C 10 bar at 60°C	240	1402052
14 x 2.0	600	6 bar at 70°C 10 bar at 60°C	600	1402054
16 x 2.0	240	6 bar at 70°C 10 bar at 60°C	240	1402152
16 x 2.0	600	6 bar at 70°C 10 bar at 60°C	600	1402154
17 x 2.0	240	6 bar at 70°C 10 bar at 60°C	240	1402252
17 x 2.0	600	6 bar at 70°C 10 bar at 60°C	600	1402254
20 x 2.0	240	6 bar at 70°C 10 bar at 60°C	240	1402352

PE-Xc Copex Plastic pipe



Pipe colour Natural Quality class PE-Xc

Dimension (mm)	Length of roll (m)	Max. operating pressure (pipe)	PU	Item No.
14 x 2.0	120	6 bar at 90°C 10 bar at 60°C	120	1400051
14 x 2.0	240	6 bar at 90°C 10 bar at 60°C	240	1400052
14 x 2.0	600	6 bar at 90°C 10 bar at 60°C	600	1400054
16 x 2.0	120	6 bar at 90°C 10 bar at 60°C	120	1400151
16 x 2.0	240	6 bar at 90°C 10 bar at 60°C	240	1400152
16 x 2.0	600	6 bar at 90°C 10 bar at 60°C	600	1400154
17 x 2.0	120	6 bar at 90°C 10 bar at 60°C	120	1400251
17 x 2.0	240	6 bar at 90°C 10 bar at 60°C	240	1400252
17 x 2.0	600	6 bar at 90°C 10 bar at 60°C	600	1400254
20 x 2.0	240	6 bar at 90°C 8 bar at 70°C	240	1400352
20 x 2.0	600	6 bar at 90°C 8 bar at 70°C	600	1400354
26 x 3.0	50	6 bar at 90°C 10 bar at 60°C	50	1400560
26 x 3.0	200	6 bar at 90°C 10 bar at 60°C	200	1400562
26 x 3.0	300	6 bar at 90°C 10 bar at 60°C	300	1400563
32 x 3.0	50	6 bar at 90°C 10 bar at 60°C	50	1400660

Copipe HSC Multi-layer composite pipes



Copipe HSC multi-layer composite pipes (PE-RT/AL/PE-RT) are suitable for surface heating and cooling. **Copipe** pipes consist of 5 layers (outer jacket pipe made of PE-RT, adhesive layer, longitudinally welded aluminium pipe, adhesive layer and inner medium pipe made of PE-RT).

The following dimensions are available: 14 x 2 mm, 16 x 2 mm, 17 x 2 mm and 20 x 2.5 mm

Oxygen tight	Yes	Max. operating pressure (pipe)	6 bar at 90°C 10 bar at 70°C
Material inner layer	Plastic	Number of layers	5
Material intermediate layer	Aluminium	Pipe colour	White
Material outer layer	Plastic		

PE-RT/AL/PE-RT Copipe HSC Multi-layer composite pipe (from 2021)



Dimension (mm)	Length of roll (m)	PU	Item No.
14 x 2.0	50		1541405
14 x 2.0	100	100	1541410
14 x 2.0	200	200	1541420
16 x 2.0	50		1541605
16 x 2.0	100	100	1541610
16 x 2.0	200	200	1541620
16 x 2.0	500	500	1541650
17 x 2.0	200		1541720
17 x 2.0	500		1541750
20 x 2.5	50		1542005
20 x 2.5	100		1542010
20 x 2.5	200		1542020
26 x 3.0	50	50	1542605
32 x 3.0	50	50	1543205

PE-RT/AL/PE-RT Copipe HSC Multi-layer composite pipe (until 2021)

DVGW approval.

Will be discontinued in the course of 2021 and replaced by the pipes mentioned before.



Dimension (mm)	Length of roll (m)	PU	Item No.
14 x 2.0	100	100	1540154 °
16 x 2.0	100	100	1540155 °
20 x 2.5	100	100	1540160 °
14 x 2.0	200	200	1540254 °
16 x 2.0	200	200	1540255 °
17 x 2.0	200	200	1540257 °
20 x 2.5	200	200	1540260 °
16 x 2.0	500	500	1540555 °
17 x 2.0	500	500	1540557 °
14 x 2.0	50	50	1541054 °
16 x 2.0	50	50	1541055 °
20 x 2.5	50	50	1541060 °

Cofloor Tacker system



The **Cofloor system tacker** consists of base mat rolls or folded boards, pipes and tacker hooks. This system can be used for new construction and renovation. The base mat rolls and the folded boards made of expanded polystyrene are provided with a laminated tissue foil and have an imprinted laying grid (grid distance 5 cm).

Fastening of the Oventrop **Copex** PE-Xc, **Copert** PE-RT plastic pipes or the **Copipe HSC** multi-layer composite pipes (14 mm, 16 mm and 17 mm) is carried out by means of tack-

er hooks or alternatively by means of self-adhesive clamping rails made of polypropylene. The base mat rolls and folded boards are laid out on the raw concrete or, if necessary, on the additional insulation.

The **Cofloor system tacker** enables inexpensive, quick and easy laying of the individual components. The clear picture of the laying grid facilitates a straight pipe guidance when fixing the pipe with the handy Oventrop tacker machine. Particularly suitable for standard-compliant concrete screed or liquid screed.

Base mat roll

10.0 x 1.0 m = 10.0 m²



Grid*	50 mm	Impact sound insulation	Yes
Material	EPS	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Pipe diameter*	14 up to 17 mm		

Insulation* (mm)	Impact sound* (dB(A))	Max. load (kN/m ²)	Stiffness* (MN/m ²)	Rd* (m ² K/W)	TCG*	PU	Item No.
35	29	4	15	0.78	045	6	1402500
30	29	4	15	0.67	045	7	1402505
30	28	5	20	0.75	040	7	1402507
25	28	4	20	0.56	045	8	1402510
20	26	5	30	0.50	040	10	1402515
20	28	4	20	0.44	045	10	1402520

Folded board

2.0 x 1.0 m = 2.0 m²



Grid*	50 mm	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Material	EPS	PU	5
Pipe diameter*	14 up to 17 mm		
Impact sound insulation	Yes		

Insulation* (mm)	Impact sound* (dB(A))	Max. load (kN/m ²)	Stiffness* (MN/m ²)	Rd* (m ² K/W)	TCG*	Item No.
35	29	4	15	0.78	045	1402600
30	29	4	15	0.67	045	1402605
30	28	5	20	0.75	040	1402607
25	28	4	20	0.56	045	1402610
20	28	4	20	0.44	045	1402620

Clamping rail

Laying rail, self-adhesive, clamp distance 5 cm



Description	Item No.
For pipe 14 mm, length 1 m	1402580
For pipe 16 mm, length 1 m	1402581



Tacker hook

Made of plastic, for pipes 14 - 20 mm

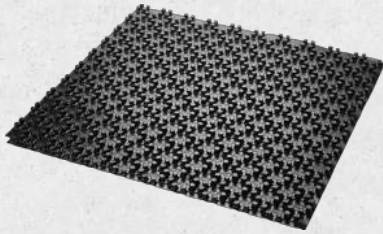
Description	PU	Item No.
Connected with adhesive tape, 1 magazine = 30 pieces	10	1402591 °
Connected with adhesive tape, 10 magazines (1 magazine = 30 pieces)	20	1402592 °
Thermowelded, 10 magazines (1 magazine = 30 pieces)	20	1402594



Tacker machine

Description	Item No.
For all Oventrop tacker hooks	1402596
Only for tacker hooks item no. 1402591 and 1402592	1402597 °

Cofloor Base mat system



The **Cofloor system base mat** consists of base mats and pipes. This system can be used for new construction and renovation. The base mats have a suitable thermal insulation made of PS (polystyrene) or EPS (expanded polystyrene) in various thicknesses (except for item no. 1402130: only foil), which also serves as impact sound insulation. The special geometry of the nubs (grid dimension 6 cm) allows easy installation of 14 mm, 16 mm and 17 mm **Copex** PE-Xc and **Copert** PE-RT plastic pipes and also **Copipe** HSC multi-layer composite pipes.

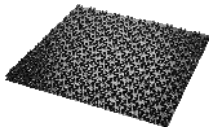
The handy base mats know practically no waste. They can be laid economically and in a user-friendly manner in both small, angled and large-area rooms. The PE foil of the optional

edge insulating strips and the overlapping of the base mats at the edge of the board create a dense surface so that cement screed or liquid screed can be applied without further sealing. This reliably prevents a sound bridge to the raw concrete.

There are four different base mats to choose from. The special geometry of the nubs increases the impact resistance of the nubs during pipe installation and ensures that the heating or cooling pipes are held securely in place. The coordinated components enable fast installation even with one-man installation. Particularly suitable for standard-compliant cement or liquid screed.

Base mat NP

1.44 x 0.84 m = 1.20 m²



Rd*	0.00 (m ² K)/W	Impact sound insulation	No
Grid*	60 mm	PU	14

Material	Pipe diameter* (mm)	Item No.
PS	14 up to 17	1402130

Base mat NP-11

1.44 x 0.84 m = 1.20 m²

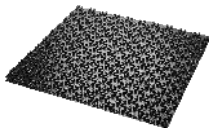


Max. load	45 kN/m ²	Impact sound insulation	Yes
Rd*	0.31 (m ² K)/W	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Grid*	60 mm	PU	8
TCG*	035		

Insulation* (mm)	Material	Pipe diameter* (mm)	Item No.
11	EPS	14 up to 17	1402330

Base mat NP-30

1.44 x 0.84 m = 1.20 m²



Impact sound*	28 dB(A)	Impact sound insulation	Yes
Max. load	5 kN/m ²	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Rd*	0.75 (m ² K)/W		
Grid*	60 mm	PU	8
TCG*	040		

Insulation* (mm)	Material	Pipe diameter* (mm)	Item No.
30	EPS	14 up to 17	1402430

Base mat NP-R (thin layered system)

1.00 x 1.00 m = 1.00 m²



Grid*	50 mm	PU	10
Impact sound insulation	No		

Material	Pipe diameter* (mm)	Item No.
PS	12	1402010

Compensation element 11

1.00 x 1.00 m = 1.00 m²



Max. load	60 kN/m ²	Impact sound insulation	No
Rd*	0.31 (m ² K)/W	PU	5
TCG*	035		

Insulation* (mm)	Material	Pipe diameter* (mm)	Item No.
11	EPS	14 up to 17	1402390

Compensation element 30

1.00 x 1.00 m = 1.00 m²



Max. load	5 kN/m ²	Rd*	0.75 (m ² K)/W
Stiffness*	20 MN/m ²	PU	5

Insulation* (mm)	Material	Pipe diameter* (mm)	Item No.
30	EPS	14 up to 17	1402490

Door and distributor/collector element

Can be used in the doorway area and in the area in front of the distributor/collector.



Material	Pipe diameter* (mm)	Item No.
PS	14 up to 17	1402394

Connection element

For laying butt-jointed or butt-to-butt base mats.



Material	Pipe diameter* (mm)	Item No.
PS	14 up to 17	1402393

Fixing hook

Made of plastic



Description	Item No.
For base mats, for pipes 14 and 16 mm, bag = 200 pieces	1409082

Cofloor Velcro system



The **Cofloor system Velcro** consists of a base mat with Velcro velour foil and a Velcro pipe. This system can be used for new construction and renovation. The base mat roll has an imprinted laying grid (grid distance 5 cm).

Fastening of the Oventrop **Copert** PE-RT Velcro plastic pipes or the 16 mm Velcro multi-layer composite pipes is done by simply pressing the pipe onto the base mat roll. The base mat

rolls are laid out on the raw concrete or, if necessary, on the additional insulation.

The **Cofloor system Velcro** enables inexpensive, quick and easy laying of the individual components. The clear picture of the laying grid facilitates straight pipe guidance. Particularly suitable for standard-compliant cement or liquid screed.

Velcro base mat roll



Stiffness*	20 MN/m ²	Pipe diameter*	14 up to 17 mm
Grid*	50 mm	Impact sound insulation	Yes
Material	EPS	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Impact sound*	28 dB(A)		

Insulation* (mm)	Rd* ((m ² K)/W)	Max. load (kN/m ²)	TCG*	PU	Item No.
30	0.75	5	040	7	1403507
25	0.55	4	045		1403510
20	0.44	4	045	10	1403520

PE-RT Copert Velcro plastic pipe



Pipe colour	White	Max. operating pressure (pipe)	6 bar at 70°C
Oxygen tight	Yes	Number of layers	5
Material inner layer	Plastic	Quality class	PE-RT II
Material intermediate layer	Plastic	Velcro tape	Yes
Material outer layer	Plastic	PU	240

Dimension (mm)	Length of roll (m)	Item No.
16 x 2.0	240	1402162



PE-RT/AL/PE-RT Velcro multi-layer composite pipe (from 2021)

Oxygen tight	Yes	Nominal size	DN 12
Material inner layer	Plastic	Number of layers	5
Material intermediate layer	Aluminium	Velcro tape	Yes
Material outer layer	Plastic	PU	200
Max. operating pressure (pipe)	10 bar at 70°C		

Dimension (mm)	Length of roll (m)	Item No.
16 x 2.0	200	1551620



PE-RT/AL/PE-RT Velcro multi-layer composite pipe (until 2021)

Will be discontinued in the course of 2021 and replaced by the pipe mentioned before.

Oxygen tight	Yes	Number of layers	5
Material inner layer	Plastic	Pipe colour	White
Material intermediate layer	Aluminium	Velcro tape	Yes
Material outer layer	Plastic	PU	200
Max. operating pressure (pipe)	10 bar at 70°C		

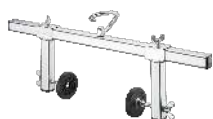
Dimension (mm)	Length of roll (m)	Item No.
16 x 2.0	200	1540355 °



Pipe guiding eye for coil unwinder

Adapter and pipe guiding eye with telescopic extension to be mounted on the coil unwinders item no. 1402096/98. Avoids ground contact of the Velcro pipe during laying.

Description	Item No.
For coil undwinder	1402070

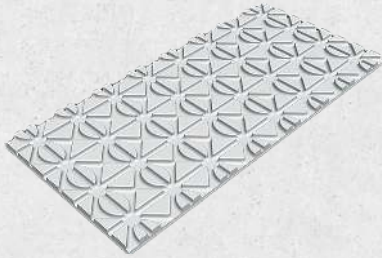


Pipe guiding eye for walls

For placement e.g. in the area of a door lintel. Avoids ground contact of the Velcro pipe during laying.

Description	Item No.
For Velcro pipe	1402071

Cofloor Drywall construction system



The **Cofloor system drywall** consists of drywall construction elements and matching heat/cooling conducting lamellas. The drywall basic element consists of 25 mm thick foamed PS (polystyrene). It is a thermal insulation and at the same time a support element for the individual heat/cooling conducting lamellas and bends. The special arrangement of the grooves in the basic elements allows both a meandering and a bifilar (spiral) installation of the Oventrop **Copipe** HSC multi-layer composite pipe 14 x 2 mm.

We recommend the installation of the **Copipe** HSC multi-layer composite pipe due to its lower expansion coefficient during heating operation compared to the **Copex** PE-Xc and **Copert**

PE-RT plastic pipes. The heat/cooling conducting lamellas are made of 0.4 mm thick and the heat/cooling conducting bends of 0.5 mm thick galvanised sheet steel and enable optimum heat/cooling transport into the drywall construction elements or into the cement or liquid screed. The practicable predetermined breaking points on the heat/cooling conducting lamellas (sheet length 998 mm) enable optimal laying of the pipes in the rooms.

The installation of the **Cofloor system drywall** is without waste, the execution of the complete installation is possible by only one person. Especially suitable for standard-compliant cement or liquid screed, but also for dry screed elements (e.g. Fermacell panels).

Drywall construction element

1.0 x 0.5 m = 0.5 m², thickness = 25 mm
Fire behaviour RTF-E according to DIN EN 13501-1



Description

1000 x 500 x 25 mm made of expanded polystyrene, thermal conductivity group 035, laying distance 12.5 cm

Item No.

1402800

Heat conducting lamella

998 x 122 mm, sheet metal thickness = 0.4 mm



Description

Made of galvanised sheet steel

Item No.

1402850

Heat conducting bend

245 x 110 mm, sheet metal thickness = 0.5 mm



Description

For Copipe HSC multi-layer composite pipe 14 x 2 mm, made of galvanised sheet steel

Item No.

1402855



Infill panel

1000 x 500 mm, thickness = 25 mm
Fire behaviour RTF-E according to DIN EN 13501-1



Description

Made of expanded polystyrene, thermal conductivity group 035, load 60 kN/m²

Item No.

1402857

Membrane



Description

Roll dimensions 25 m x 4 m, made of 0.2 mm polyethylene, for separating the drywall construction system and the screed

Item No.

1402895

Hot cutting machine



Description

For cutting individual pipe guides in the infill panel

Item No.

1402891

Cofloor Accessories and spare parts

Cofit P Press coupling



Suitable for **Copipe HSC** multi-layer composite pipes and, with the same processing method, also for plastic pipes. Casing made of stainless steel.

Description	Item No.
20 x 2.0 mm x 20 x 2.0 mm, bronze	1512541
14 x 2.0 mm x 14 x 2.0 mm, dezincification resistant brass	1512542
16 x 2.0 mm x 16 x 2.0 mm, bronze	1512543
17 x 2.0 mm x 17 x 2.0 mm, dezincification resistant brass	1512544
20 x 2.5 mm x 20 x 2.5 mm, dezincification resistant brass	1512545

Cofit P Press pliers



Description	Item No.
For pipe 20 x 2 mm, type RN 20	1519481
For pipe 17 x 2 mm, type RN 17	1519488
For pipe 14 x 2 mm, type H 14 A	1519489

Cofit S Compression fitting



For G $\frac{3}{4}$ external thread according to DIN EN 16313 (Eurocone). Suitable for Copipe multi-layer composite pipe and, with the same processing method, also for plastic pipe, metal to metal sealing plus O-ring, outlet made of bronze, clamping ring and union nut made of brass, union nut nickel plated.

Description	Item No.
14 x 2,0 mm x G $\frac{3}{4}$ union nut, 2-fold	1507934
16 x 2,0 mm x G $\frac{3}{4}$ union nut, 2-fold	1507935
17 x 2,0 mm x G $\frac{3}{4}$ union nut, 2-fold	1507937
18 x 2,0 mm x G $\frac{3}{4}$ union nut, 2-fold	1507938
20 x 2,0 mm x G $\frac{3}{4}$ union nut, 2-fold	1507939
20 x 2,5 mm x G $\frac{3}{4}$ union nut, 2-fold	1507940
14 x 2,0 mm x G $\frac{3}{4}$ union nut, nickel plated	1507954
16 x 2.0 mm x G $\frac{3}{4}$ union nut, nickel plated	1507955

Double nipple

G $\frac{3}{4}$ conically sealing according to DIN EN 16313 (Eurocone).



Description	Item No.
G $\frac{3}{4}$ external thread x G $\frac{3}{4}$ external thread, conically sealing, brass, nickel plated	1028263



Coil unwinder

For pipes, for rolls with a length up to 600 m.

Description	PU	Item No.
Stationary		1402096
Mobile with transport chart	5	1402098
Transport chart for coil unwinder		1402099 °



Screed additive

Additive component for the production of cement screed for heated floor constructions, for homogenisation and improvement of workability, as well as for increasing the bulk density of cement screed.

Description	Item No.
10 kg canister	1409095



Edge insulating strip

Description	PU	Item No.
With self-adhesive base, height: 50 mm, thickness: 5 mm, roll length: 20 m, only suitable for base mat NP-R	5	1401990
With foil for sealing to the laying system, height: 150 mm, thickness: 10 mm, roll length: 25 m	8	1402090
With self-adhesive foil for sealing to the laying system, self-adhesive on the wall side, height: 150 mm, thickness: 10 mm, roll length: 25 m	8	1402191

Expansion joint profile



Description	Item No.
Made of polyethylene foam, height: 120 mm, thickness: 10 mm, length: 1.20 m	1402091

Protective tube

For protecting heating pipes at junctions of screed joints, as well as when entering or leaving the screed.



Description	Item No.
Made of LDPE, 30 mm slotted, for pipes 14, 16 and 17 mm	1501184



Pipe guiding elbow

Made of plastic. For redirecting and fixing Copert and Copipe pipes at 90° bends, e.g. in front of the heating circuit distributor/collector and in ceiling openings.

Description	PU	Item No.
For pipes 14, 16 und 17 mm, set = 10 pieces	50	1409085
For pipe 20 mm, set = 10 pieces	10	1409086
For pipe 26 mm, set = 10 pieces	10	1409087



Round profile roll

For sealing the transition between the base mat and the edge insulation strip when using cement screed.

Description	Item No.
Made of polyethylene foam, Ø 20 mm, 150 m in a dispenser box	1402092



Marker point for measuring screed humidity

For marking locations for measuring the moisture content of the screed.

Description	Item No.
Made of plastic, set = 5 pieces	1409090



Tape gun

For masking butt edges on the base mat rolls and insulation boards.

Description	Item No.
For adhesive tape with 50 mm width	1402598



Adhesive tape

For masking butt edges on the base mat rolls and insulation boards against the penetration of screed water.

Description	Item No.
50 mm x 66 m	1402599



1.3 Surface heating and cooling

Stations for surface heating systems **186**

Regufloor Control stations for surface heating.....	187
Regufloor Accessories and spare parts.....	189
Control sets for surface heating.....	192

Regufloor Control stations for surface heating



The **Regufloor** control stations are used for flow temperature control for surface heating and cooling systems (**Regufloor HC**). In this way, the maximum/minimum permissible flow temperature for surface heating and cooling systems can be maintained. The flow temperature is controlled either by an electronic control in conjunction with an actuator (e.g.

weather-compensated) or by a fixed value control via a temperature controller with contact sensor (only for surface heating). Stations are available as directly operated variants as well as with system separation.

All stations are delivered pre-assembled and tested.

Connection thread heating circuits	G 3/4 external	Max. operating temperature secondary side	50 °C
High-efficiency pump	Yes	Max. operating pressure	6 bar
Max. operating temperature primary side	90 °C		

Regufloor HW

Control station for flow temperature control, with Regtronic RC heating circuit controller, weather-compensated.



Heating circuit controller	Max. heat output (kW)	STL*	Temperature control	Weather-compensated	Item No.
Yes	15	Yes	Electronic	Yes	1151800

Regufloor HN

Control station for flow temperature control, fixed value control.



Heating circuit controller	Max. heat output (kW)	STL*	Temperature control	Weather-compensated	Item No.
No	15	Yes	Thermostatic	No	1151600

Regufloor HC

Control station for heating / cooling.



Heating circuit controller	Max. heat output (kW)	STL*	Temperature control	Weather-compensated	Item No.
Extendable	15	No	Without	No	1152100



Regufloor HX

Control station with heat exchanger for system separation.

<u>Heating circuit controller</u>	<u>STL*</u>	<u>Temperature control</u>	<u>Weather-compensated</u>	<u>Item No.</u>
No	No	Thermostatic	No	1151065

Regufloor Accessories and spare parts

Three-way diverting valve



Description

With S-connection fitting

Item No.

1151081 °

T-connection piece



Description

With check valve and sensor housing

Item No.

1151080 °

Bracket



Description

For T-connection piece

Item No.

1151085 °

Aktor M Electromotive actuator 24 V, connection thread M 30 x 1.5



Description

0 - 10 V, two point and three point control, 1.5 m cable

0 - 10 V control, with position feedback, 1.5 m cable

Item No.

1012725

1012726



Aktor M Electromotive actuator 230 V, connection thread M 30 x 1.5

Description	Item No.
Two point and three point control, 1,5 m cable	1012729



Aktor T 2P Electrothermal actuator, connection thread M 30 x 1,5

Description	PU	Item No.
Two point control, "normally closed", 230 V	100	1012415
Two point control, "normally closed", 24 V		1012416

Replacement electric pipe contact safety switch



Description	Item No.
For Wilo pump E15/1-5, with cabling	1151087

Replacement temperature controller



Description	Item No.
With contact sensor, control range 20 °C - 50 °C	1151082

Replacement high-efficiency pump



Description	Item No.
Wilo-Yonos PARA, without pump cable	1151088



Replacement high-efficiency pump Axial

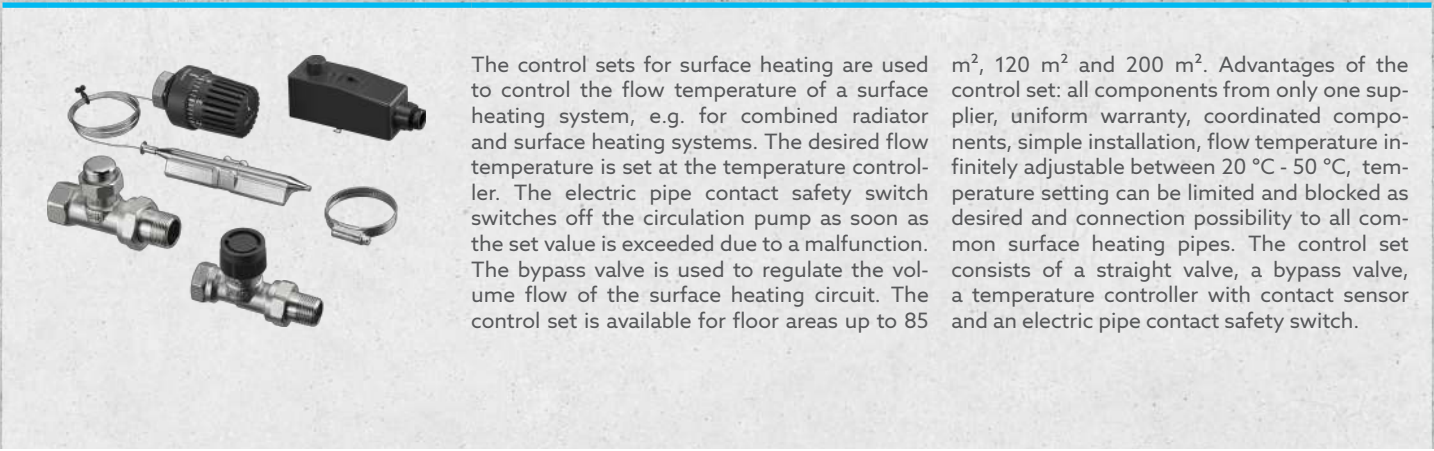
Description

For Regufloor HN, Wilo-Yonos PARA with axial pump housing, without pump cable

Item No.

1151089

Control sets for surface heating



The control sets for surface heating are used to control the flow temperature of a surface heating system, e.g. for combined radiator and surface heating systems. The desired flow temperature is set at the temperature controller. The electric pipe contact safety switch switches off the circulation pump as soon as the set value is exceeded due to a malfunction. The bypass valve is used to regulate the volume flow of the surface heating circuit. The control set is available for floor areas up to 85 m², 120 m² and 200 m². Advantages of the control set: all components from only one supplier, uniform warranty, coordinated components, simple installation, flow temperature infinitely adjustable between 20 °C - 50 °C, temperature setting can be limited and blocked as desired and connection possibility to all common surface heating pipes. The control set consists of a straight valve, a bypass valve, a temperature controller with contact sensor and an electric pipe contact safety switch.

Set 1 for surfaces up to 85 m²



Consisting of	Item No.
- Item no. 1180104 (M 30 x 1.5) Thermostatic valve DN 15, brass, nickel plated, straight version	
- Item no. 1027666 Bypass valve DN 20, brass, nickel plated, straight version	
- Item no. 1142861 (M 30 x 1.5) Temperature controller with contact sensor and heat conducting base, capillary 2 m, control range 20 °C - 50 °C	1144251
- Item no. 1143000 Electric pipe contact safety switch with concealed temperature setting, control range 20 °C - 90 °C	

Set 2 for surfaces up to 120 m²



Consisting of	Item No.
- Item no. 1187106 (M 30 x 1.5) Thermostatic valve DN 20, brass, nickel plated, straight version	
- Item no. 1027668 Bypass valve DN 25, brass, nickel plated, straight version	
- Item no. 1142861 (M 30 x 1.5) Temperature controller with contact sensor and heat conducting base, capillary 2 m, control range 20 °C - 50 °C	1144252
- Item no. 1143000 Electric pipe contact safety switch with concealed temperature setting, control range 20 °C - 90 °C	

Set 3 for surfaces up to 200 m²



Consisting of	Item No.
- Item no. 1131206 (M 30 x 1.5) Tri-CTR Three-way diverting and mixing valve DN 20, bronze	
- Item no. 1142861 (M 30 x 1.5) Temperature controller with contact sensor and heat conducting base, capillary 2 m, control range 20 °C - 50 °C	1144253
- Item no. 1143000 Electric pipe contact safety switch with concealed temperature setting, control range 20 °C - 90 °C	
- Item no. 1072006 Piston type spring assisted check valve DN 20, bronze, brass	



1.3 Surface heating and cooling

Room thermostats and controllers **193**

ClimaCon F Room thermostats for surface heating.....	194
Room thermostats heating.....	196
Room thermostats heating/cooling.....	198
Room thermostats Accessories.....	199
Connecting blocks.....	200
Actuators.....	202
Actuators Accessories.....	204
R-Tronic Wireless thermostats.....	205
R-Tronic Accessories.....	207
R-Con Wireless receivers.....	208
R-Con Accessories.....	210

ClimaCon F Room thermostats for surface heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings.

Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. Depending on the model, there are room thermostats with reduced display, with integrated time switch and setting options via app.

ClimaCon F 90 for two pipe applications, heating only/ cooling only, slave



Control	Two point / PWM	Setback*	Via master room thermostat
Installation	Surface mounting	Operation	At the room thermostat

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1155009 ::

ClimaCon F 100 for two pipe applications, heating or cooling, slave



Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting	Switching h / c*	Via change-over
Setback*	Via master room thermostat		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155010 ::
24 V	Electrothermal actuators (two point) "normally closed"	1155510 ::

ClimaCon F 210 for two pipe applications, heating only / cooling only, master



Switching between time programme and manual mode possible.

Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting		With smartphone app
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat	Communication	Bluetooth

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155021 ::



ClimaCon F 310 for two pipe applications, heating or cooling, master

Switching between time programme and manual mode possible.

Control	Two point / PWM	Switching h / c*	Via change-over
Installation	Surface mounting	Other outputs	1 x potential-free
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat	Communication	Bluetooth
Operation	At the room thermostat With smartphone app		

Tension	0 - 10 V*	Temperature sensor*	Suitable for	Item No.
230 V	No	No	Electrothermal actuators (two point) "normally closed"	1155031 ::
24 V	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531 ::

0 - 10 V = 0 - 10 V output
Setback = Temperature setback
Temperature sensor = External temperature sensor can be connected
Switching h / c = Switching heating / cooling

Room thermostats heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. Depending on the room thermostat used, the temperature is reduced via an adjustable time programme or an external time switch. Room thermostats can also be used for cooling applications by using a different actuator (e.g. "normally closed" instead of "normally open"):

Oventrop offers room thermostats for surface- or flush-mounted installation, with or without display.



Room thermostat for two pipe applications, surface mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152051 °
24 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152052 °



Room thermostat for two pipe applications, with concealed temperature setting, surface mounting

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152055 °



Room thermostat for two pipe applications, with clock, surface mounting

Control	Two point / PWM	PU	78
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152552 °



Room thermostat for two pipe applications, flush mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	128
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

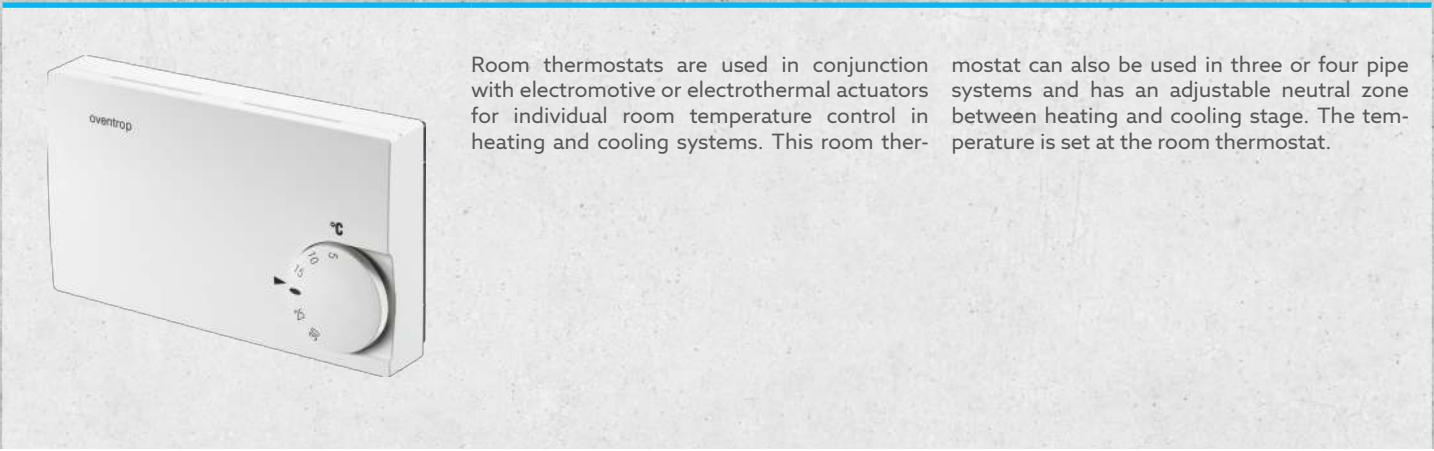


Room thermostat for two pipe applications, with display, flush mounting

Control	Two point	PU	40
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Heating: Actuators "normally closed" (terminal NC), actuators "normally open" (terminal NO) Cooling: Actuators "normally open" (terminal NO), actuators "normally closed" (terminal NC)	1152561 °

Room thermostats heating/cooling



Room thermostats are used in conjunction with electromotive or electrothermal actuators for individual room temperature control in heating and cooling systems. This room thermostat can also be used in three or four pipe systems and has an adjustable neutral zone between heating and cooling stage. The temperature is set at the room thermostat.

Room thermostat for four pipe applications, surface mounting



Neutral zone Adjustable between 0.5 K and 7.5 K PU 25

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152151

Room thermostats Accessories



Sensor GA FD Dew point monitor

Is required in conjunction with room thermostats to protect against condensation on cooling surfaces.

Description

For heating/cooling applications to prevent condensation, 24 V, with change-over contact

Item No.

1141951

Connecting blocks



The connecting block is used for wiring individual room controls and is used for surface heating and cooling control. With the connecting block, a simple assignment of the individual rooms or heating circuits can be carried out centrally. Depending on the variant, up to 10

zones for heating and cooling systems with up to 18 actuators and 10 room thermostats can be connected to the connecting block. In addition, further components, such as a pump, a change-over signal transmitter, a temperature limiter or dew point sensor can be wired.

Electrical connecting block for surface heating

When using item no. 1400980 / 82 with 24 V, an external power supply of 24 V must be available. Item no. 1153053 can be used as transformer.

PU 25



Description	Item No.
6 control zones, heating, 24 V / 230 V	1400980
10 control zones, heating / cooling (change-over), pump control, 230 V	1400981
10 control zones, heating / cooling (change-over), pump control, 24 V	1400982
10 control zones, heating / cooling (change-over), pump and boiler control and integrated time switch, 230 V	1400983

FloorCon Electrical connecting block with automatic hydronic balancing for surface heating

Description	Item No.
FloorCon F 200, without room allocation, connection of 6 room thermostats / 8 actuators, 230 V	1400984 ❏
FloorCon F 300, with room allocation, connection of 10 room thermostats / 12 actuators, 230 V	1400985 ❏



Temperature sensor for FloorCon

One flow temperature sensor is required per heating circuit distributor/collector and one return temperature sensor per heating circuit.

Description	Item No.
Flow temperature sensor for FloorCon F	1029093 ❏
Return temperature sensor for FloorCon F	1029094 ❏





Aktor T 2P Electrothermal actuator, two point control for FloorCon connecting block

With pre-mounted plug for direct connection to the FloorCon connecting block.

Installation position	Any	Valve connection	Connection thread M 30 x 1.5
Installation	Plug-in connection with valve adapter		

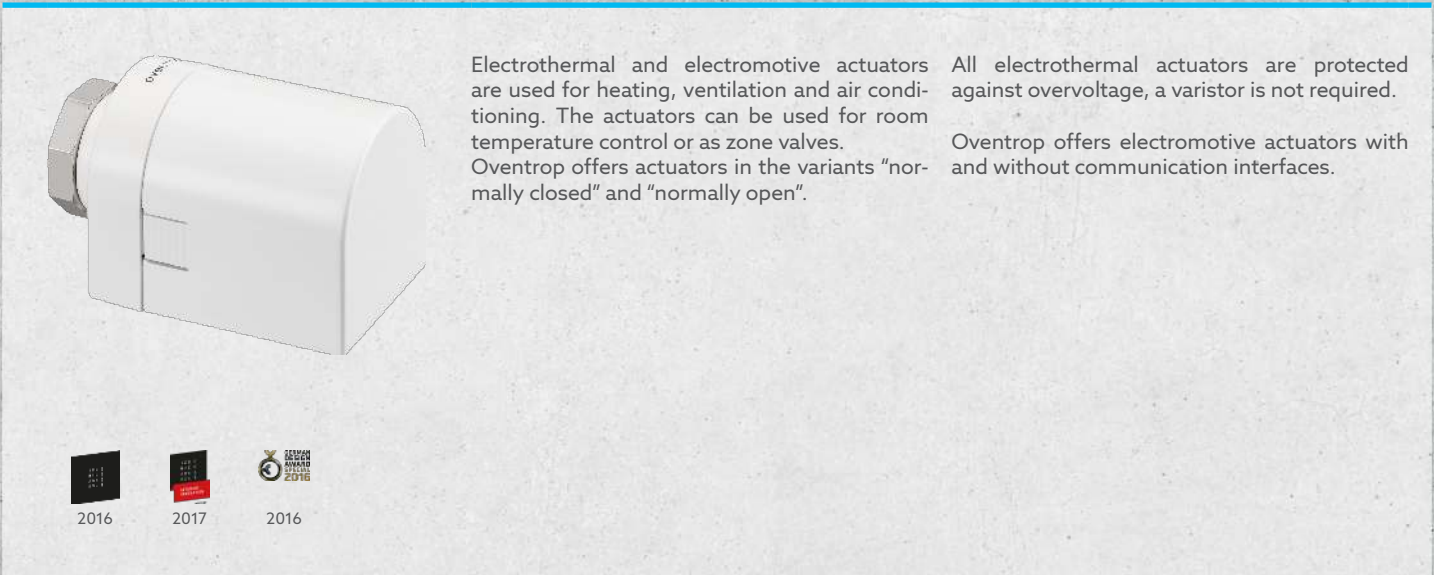
Tension	Version	Cable* (m)	Item No.
230 V	"Normally closed"	1	1012475 ::
230 V	"Normally closed"	2	1012478 ::

Sensor LW TH Electric pipe contact safety switch with concealed temperature setting



Description	Item No.
For maximum limitation of the flow temperature in surface heating systems, control range 20 °C - 90 °C	1143000

Actuators



mote 420 Wireless actuator (EnOcean)

Only functions in combination with communication centres / gateways (e.g. with the wibutler gateway) and room thermostats supporting this EnOcean Equipment Profile.



Power supply	Battery operated	Battery lifespan	About 2 years
Communication	EnOcean	Compatible with wibutler	Yes

Valve connection	EEP*	Item No.
Connection thread M 30 x 1.5	A5-20-01	1150766



mote 320 Wireless actuator (proprietary radio communication)

Compatible with R-Tronic wireless thermostats (proprietary radio communication).



Power supply	Battery operated	Communication	Proprietary radio
Battery lifespan	About 2 years		

Valve connection	Description	Item No.
Connection thread M 30 x 1.5	-	1150665
Squeeze connection	For integrated valve sets and thermostatic valves of the company Danfoss, series RA.	1150675



Aktor T 2P Electrothermal actuator, connection thread M 30 x 1,5

Installation position	Any
Installation	Plug-in connection with valve adapter



Tension	Version	Cable* (m)	PU	Item No.
230 V	"Normally closed"	1	100	1012415
24 V	"Normally closed"	1		1012416

Actuators Accessories



Valve adapter

PU _____ 5



Description

Connection thread M 30 x 1.5

Connection thread M 30 x 1.5, high model (11 mm), necessary when using the actuators item no. 10124.. and 1012953 with Hycoccon ETZ/HTZ or Multiblock T/TU/TFU/TQ and the design cover

For Oventrop valves with connection thread M 30 x 1.0 (manufactured until 1998)

Item No.

1012461

1012462

1012890

Reinforcing cap

Description

For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation

Item No.

1012450



R-Tronic Wireless thermostats



Oventrop offers wireless thermostats with two types of radio communication:

The R-Tronic wireless thermostats with open radio communication according to EnOcean standard can be integrated directly into Smart Home systems.

The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat or in the app of the Smart Home System. Depending on the model, an additional measurement of the relative humidity in % and the CO₂ concentration in ppm is

possible.

Power is supplied by batteries or a power pack (100 - 240 V). For the battery-operated models, power supply via the mains is possible as an alternative (see chapter "R-Tronic Accessories").

For the closed R-Tronic system, the following applies: In battery operation, up to 3 participants can be taught in, in mains operation, up to 8 participants can be taught in. In mains operation it is also possible to teach in wireless actuators, window contacts and a single-channel wireless receiver. The single-channel wireless receiver enables the control of a fan depending on the set CO₂ threshold value. For this application a thermostat must be used which can measure the CO₂ concentration.

R-Tronic (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean	Compatible with wibutler	Yes

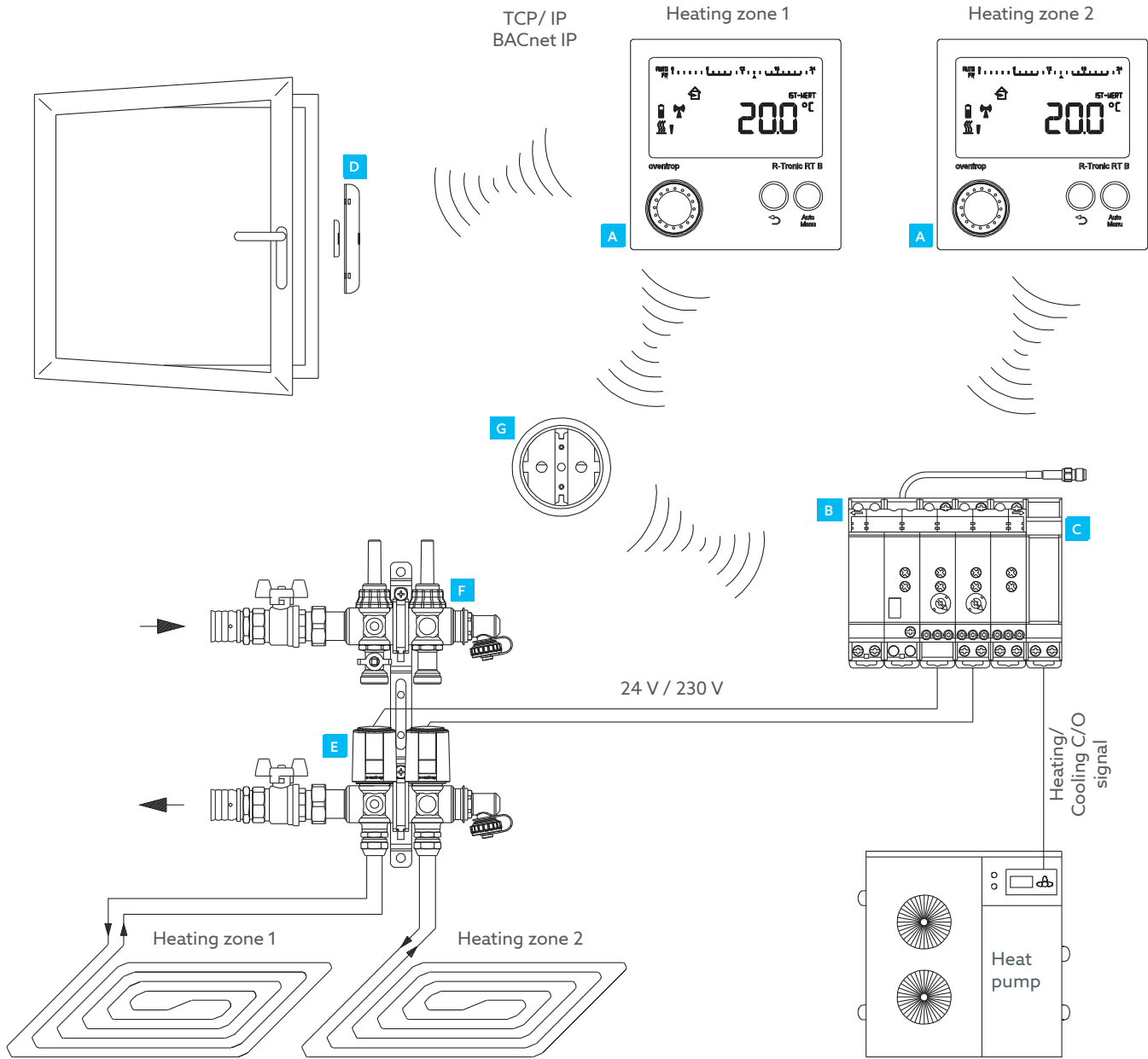
Desig.*	Description	EEP*	Item No.
RT B (EnOcean)	-	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
RTF B (EnOcean)	With integrated humidity sensor	A5-10-06 + RPS	1150781
		A5-10-11	
		A5-10-11 + RPS	
		A5-10-12	
		A5-10-22	
		A5-10-23	

R-Tronic (proprietary radio communication)



Installation	Surface mounting	Communication	Proprietary radio
--------------	------------------	---------------	-------------------

Desig.*	Description	Power supply	Item No.
RT B	-	Battery operated	1150680
RTF B	With integrated humidity sensor	Battery operated	1150681
RTFC K	With integrated humidity and CO ₂ sensor	Mains adaptor with table stand	1150682
RTFC K	With integrated humidity and CO ₂ sensor	Flush-mounted power pack with wall bracket	1150684



- A** R-Tronic RT B/R-Tronic RTF B/R-Tronic RTFC K
Wireless thermostat
- B** R-Con Wireless receiver
- C** R-Con HC Extension module heating/cooling
- D** FK-C F Wireless window contact

- E** Aktor T2P Electrothermal actuator (two point)
- F** Multidis SF Heating circuit distributor/collector
- G** RP-S F Wireless repeater

R-Tronic Accessories

Flush-mounted power pack with wall bracket



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150692

Mains adaptor with table stand



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150694

Cover frame



PU

50

Description

For covering flush-mounted box (milled hole up to Ø 83 mm, e.g. Switzerland),
cover 88 x 88 mm, traffic white (RAL 9016)

Item No.

1150693

FK-C F Wireless window contact (EnOcean)

With EnOcean radio technology. Transmits a radio signal when opening or closing a window. Compatible with R-Tronic wireless thermostats (mains operated), wireless room module (DynaTemp CR-BSX) and wibutler gateway.



Description

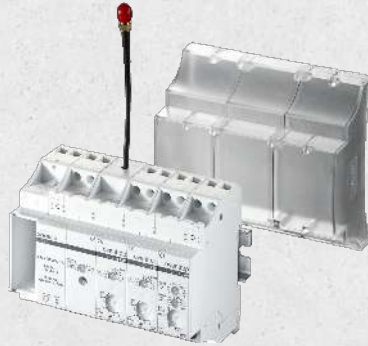
Solar powered, white (similar to RAL 9003), EnOcean Equipment Profile D5-00-01

Item No.

1153070



R-Con Wireless receivers



The **R-Con** wireless receivers are used in combination with the R-Tronic wireless thermostats for room temperature control of surface heating systems. The electronic multi-channel wireless receivers can control up to 8 independent heating zones according to adjustable time profiles. The time profiles are set via the connected wireless thermostat.

Additional functions can be set directly at the wireless receiver, e.g. pump logic with adjustable lead time and follow-up time, burner logic for heat demand and a PWM control for surface heating. Electrothermal actuators with 24 V or 230 V can be connected to the channels of the receiver.

R-Con Multichannel wireless receiver for surface heating (proprietary radio communication)

Time programme adjustable with R-Tronic wireless thermostats. Item no. 1150770 / 72 additionally with pump and burner logic. To be installed in a cabinet, the protective housing item no. 1150776 (see "R-Con Accessories") can be used alternatively.



Tension	230 V	Installation	Carrier rail (DIN EN 60715 TH35)
Control	Two point / PWM	Compatible with wibutler	Yes
Communication	Proprietary radio		



Number of radio channels	Description	Item No.
4 (max. of 4 actuators per channel)	With logic module	1150770
4 (max. of 4 actuators per channel)	Without logic module	1150771
8 (max. of 4 actuators per channel)	With logic module	1150772
8 (max. of 4 actuators per channel)	Without logic module	1150773

R-Con T 2P Four channel extension module (proprietary radio communication)

For R-Con multichannel wireless receiver.



Tension	230 V	Installation	Carrier rail (DIN EN 60715 TH35)
Control	Two point / PWM	Compatible with wibutler	Yes
Communication	Proprietary radio		



Number of radio channels	Item No.
4 (max. of 4 actuators per channel)	1150775



R-Con HC Extension module heating / cooling (proprietary radio communication)

For R-Con multichannel radio receiver. For switching between heating and cooling mode via a change-over input. The change-over signal is provided e.g. by a reversible heat pump.

Tension	230 V	Compatible with wibutler	Yes
Communication	Proprietary radio		
Installation	Carrier rail (DIN EN 60715 TH35)		

Description

Dew point monitoring, cooling mode is interrupted if the dew point is exceeded

Item No.

1150774

R-Con Accessories



Protective housing with carrier rail



Description

As alternative to installation in the cabinet, 230 V, surface mounting

Item No.

1150776

Antenna extension



Description

With SMA screw terminal, antenna length 1 m, surface mounting, white glossy (RAL 9003)

Item No.

1150777



1.3 Surface heating and cooling

Surface temperature regulation with return temperature limitation 211

Unibox Return temperature control.....	212
Unibox Room temperature control and return temperature control.....	213
Unibox Accessories and spare parts.....	215

Unibox Return temperature control



The **Unibox** return temperature control is used for surface temperature regulation of rooms with a size of up to 20 m², such as the bathroom. The Uniboxes are particularly suitable for retrofitting a surface temperature regulation in heating systems in combined use with radiators. The **Unibox** consists of a wall mounting box with thermostatic valve, an integrated return temperature limiter, a vent

and flush valve and a cover with integrated handwheel. The cover of the Unibox E RTL is closed: The nominal value range is adjustable between 10 °C and 50 °C for the **Unibox RTL** and between 20 °C and 40°C for the **Unibox E-RTL**. The cover with the integrated handwheel enables angle and depth compensation of the flush-mounted box installed in the wall.

Return temperature control	Yes	Pipe connection	G 3/4
Cover	Yes	Venting	Yes
Room temperature control	No	Presetting	No

Unibox RTL



Operation	Cover*	Colour of cover	Colour operating element	PU	Item No.
Handwheel	Plastic	White	White	112	1022735
Handwheel	Genuine glass	White	Chrome		1022750
Handwheel	Genuine glass	Black	Dark chrome		1022751

Unibox E RTL



Operation	Cover*	Colour of cover	PU	Item No.
Internal	Plastic	White	120	1022731
Internal	Genuine glass	White		1022760
Internal	Genuine glass	Black		1022761

Unibox Room temperature control and return temperature control



The **Unibox** room and return temperature control is used for surface temperature regulation of rooms with a size of up to 20 m², such as the bathroom. The Uniboxes are particularly suitable for retrofitting a surface temperature regulation in heating systems in combined use with radiators. The **Unibox** is also used for individual room temperature control. The **Unibox** consists of a wall mounting box with presettable thermostatic valve, an integrated

return temperature limiter, a vent and flush valve, a valve insulation and a cover with integrated thermostat. The cover of the Unibox T-RTL R-Tronic and TQ-RTL R-Tronic is closed. The nominal value range is adjustable between 20 °C and 40 °C (return temperature) and between 7 °C and 28 °C (room temperature). The cover with the integrated thermostat enables angle and depth compensation of the flush-mounted box installed in the wall.

Return temperature control	Yes	Venting	Yes
Room temperature control	Yes	Presetting	Yes
Pipe connection	G 3/4		



2021



2019

Unibox T-RTL



Cover	Operation	Cover*	Colour of cover	Colour operating element	PU	Item No.
Yes	Thermostat	Plastic	White	White	112	1022733
Yes	Thermostat	Genuine glass	White	Chrome		1022770
Yes	Thermostat	Genuine glass	Black	Dark chrome		1022771

Unibox T-RTL R-Tronic

Suitable for radio control with an R-Tronic wireless thermostat (not compatible with wibutler).



Cover	Operation	Cover*	Colour of cover	Item No.
Yes	Radio	Plastic	White	1022737
Yes	Radio	Genuine glass	White	1022772

Unibox T-RTL vario (basic model)

Cover must be ordered separately (accessory).



Cover	Operation	Item No.
No	Internal	1022734

Unibox TQ-RTL



Cover	Operation	Cover*	Colour of cover	Colour operating element	Q-Tech	Item No.
Yes	Thermostat	Plastic	White	White	Yes	1022739
Yes	Thermostat	Genuine glass	White	Chrome	Yes	1022780
Yes	Thermostat	Genuine glass	Black	Dark chrome	Yes	1022781

Unibox TQ-RTL R-Tronic

Suitable for radio control with an R-Tronic wireless thermostat (not compatible with wibutler).



Cover	Operation	Cover*	Colour of cover	Q-Tech	Item No.
Yes	Radio	Plastic	White	Yes	1022738
Yes	Radio	Genuine glass	White	Yes	1022782

Unibox TQ-RTL vario (basic model)

Cover must be ordered separately (accessory).



Cover	Operation	Q-Tech	Item No.
No	Internal	Yes	1022736

Unibox Accessories and spare parts

R-Tronic R-TB Wireless thermostat (EnOcean) for Unibox T-RTL R-Tronic and Unibox TQ-RTL R-Tronic



Description

For the connection to Smart Home gateways (e.g. wibutler), with EnOcean radio technology, surface mounting, battery operated

Item No.

1150780

For the connection to Smart Home gateways (e.g. wibutler), with EnOcean radio technology, surface mounting, battery operated, with humidity sensor

1150781



mote 420 Wireless actuator (EnOcean)



Only functions in combination with communication centres / gateways (e.g. with the wibutler gateway) and room thermostats supporting this EnOcean Equipment Profile.

Description

For room temperature control at the radiator, connection thread M 30 x 1,5, battery operated, supports EnOcean Equipment Profile (EEP) A5-20-01 (EnOcean 868 MHz)

Item No.

1150766



Room thermostat



For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description

230 V, sensor element PT 1000

Item No.

1152051 °

Aktor T 2P Electrothermal actuator, connection thread M 30 x 1,5



For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description

Two point control, "normally closed", 230 V

Item No.

1012415

Uni FHU Thermostat with remote control



Description	Item No.
White, 2 m capillary	1012595
White, 5 m capillary	1012596
White, 10 m capillary	1012597

Cover



Description	Item No.
Genuine glass white, for Unibox T-RTL vario, TQ-RTL vario, T vario, TQ vario and E BV vario, closed	1022774
Genuine glass black, for Unibox T-RTL vario, TQ-RTL vario, T vario, TQ vario and E BV vario, closed	1022775
White, for Unibox T-RTL vario, TQ-RTL vario, T vario, TQ vario and E BV vario, closed	1022776

Mounting channel



Description	Item No.
For Unibox, made of galvanised sheet steel, with cover made of gypsum board, H: 275-350 mm, W: 130 mm	1022652
For Unibox, made of galvanised sheet steel, H: 440-490 mm, W: 160 mm	1022653

Pipe conduit unit

For easy pipe laying in the wall.



Description	Item No.
For Unibox, depth 57 mm, suitable for the wall mounting boxes	1022650

Duo connection piece



Description	Item No.
For the connection of two heating circuits, 1 x G 3/4 union nut, 2 x G 3/4 external thread	1022655

Extension



Description

For Unibox, for RTLH valves, 20 mm

Item No.

1022699

Valve insert



Description

For reversed supply and return pipe, for Unibox and RTL valves

PU

100

Item No.

10226970

For Unibox and RTLH valves, M 30 x 1.5

100

10226981

For AV 9, CV 9, RFV 9, and E thermostatic valves, Multiblock T-RTL, Unibox, M 30 x 1.5, DN 10 - DN 20, kv = 0.67

100

1187047

For AQ, RFQ and EQ thermostatic valves, Multiblock TQ, TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 160 l/h, M 30 x 1.5

25

1187065

For reversed supply and return pipe, for A, AV 9, ADV 9, CV 9, E, AF, RF and RFV 9 thermostatic valves, Multiblock T, TU and TFU as well as Unibox, M 30 x 1.5, with presetting

100

1187078

Replacement cover for Unibox E RTL and Unibox RLA vario



Description

Genuine glass white

Item No.

1022764

Genuine glass black

1022765

Plastic white

1022766

Replacement cover for Unibox RTL

With integrated handwheel.



Description

Genuine glass white

Item No.

1022787

Genuine glass black

1022788

Plastic white

1022789

Replacement cover for Unibox T, T-RTL, TQ-RTL and E BV

With integrated thermostat.



Description

Genuine glass white

Item No.

1022777

Genuine glass black

1022778

Plastic white

1022779



Replacement design cover for Unibox (until 2019)

Description

For Unibox RTL, T, vario and plus, plastic white, depth 57 mm
For Unibox RTL, T, vario and plus, plastic, chrome plated, depth 57 mm

Item No.

1022693
1022694



Replacement cover for Unibox (until 2000)

Description

For Unibox RTL, T and plus, plastic white, depth 110 mm

Item No.

1022691



Replacement valve insulation for Uniboxes with thermostatic control

Description

For Unibox

Item No.

1022792



1.3 Surface heating and cooling

Surface heating with decentralised distribution **219**

Unidis Connection without distributor/collector for surface heating.....	220
Unidis Accessories and spare parts.....	223

Unidis Connection without distributor/collector for surface heating



Unidis is a surface heating system with decentralised distribution. The supply and return pipes are laid directly on the bare floor, so that no distributor/collector is required. Surface heating systems have long been standard in new housing construction. They offer a high level of comfort and increased living quality. At the same time, surface heating systems save energy and costs. An essential component of the **Unidis** surface heating system is the **Unibox E BV** featuring a patented integrated bypass that can be individually adjusted for each

room.

Advantages of the system are:

- no laying bottlenecks due to the supply pipes from the central distributor to the individual rooms
- no uncontrolled heat dissipation due to supply and return pipes
- hallways larger than 6 m² have their own thermostatically controlled heating circuit
- increased sound insulation
- savings potential of up to 9% in combination with the **Unibox E BV**

Floorbox UH horizontal riser connection



Consisting of

- Supply:
- Ball valve G 1 with temperature sensor connection
- Return:
- Hycocon VTZ Double regulating and commissioning valve
 - Meter spacer
 - Ball valve with coupling
 - Vent / flush valve
 - Flat seals

Item No.

1022668

Floorbox UV vertical riser connection



Consisting of

- Supply:
- Ball valve G 1 with temperature sensor connection
- Return:
- Hycocon VTZ Double regulating and commissioning valve
 - Meter spacer
 - Ball valve with coupling
 - Vent / flush valve
 - Flat seals

Item No.

1022669

Unibox E BV Room temperature control with bypass



Presetting	Yes	Room temperature control	Yes
Operation	Thermostat	Return temperature control	No
Colour operating element	White	Venting	Yes
Cover	Yes		

Cover*

Plastic

Colour of cover

White

Item No.

1022724



Unibox E BV vario (basic model) Room temperature control with bypass

Presetting	Yes	Room temperature control	Yes
Operation	Without	Return temperature control	No
Cover	No	Venting	Yes

Item No.

1022725



Unibox RLA vario (basic model) Flush-mounted box for return shutoff

Presetting	Yes	Cover	No
Operation	Without	Venting	Yes

Item No.

1022726



Unibox T Room temperature control

Pipe connection	G 3/4	Room temperature control	Yes
Presetting	Yes	Return temperature control	No
Operation	Thermostat	Venting	Yes
Colour operating element	White	PU	112
Cover	Yes		

Cover*

Colour of cover

Item No.

Plastic

White

1022722



Unibox T vario (basic model) Room temperature control

Pipe connection	G 3/4	Room temperature control	Yes
Presetting	Yes	Return temperature control	No
Operation	Without	Venting	Yes
Cover	No		

Item No.

1022723



Unibox TQ vario (basic model) Room temperature control with Q-Tech

Pipe connection	G 3/4	Q-Tech	Yes
Presetting	Yes	Room temperature control	Yes
Operation	Without	Return temperature control	No
Cover	No	Venting	Yes

Item No.

1022729

Unidis Accessories and spare parts



Mounting channel

Description

For Unibox, made of galvanised sheet steel, H: 440-490 mm, W: 160 mm
For Unibox, with return shutoff, with cover and thermostat with remote control

Item No.

1022653
1022654



Room thermostat

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description

230 V, sensor element PT 1000

Item No.

1152051 °



Aktor T 2P Electrothermal actuator, connection thread M 30 x 1,5

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description

Two point control, "normally closed", 230 V

Item No.

1012415



Uni FHU Thermostat with remote control

Description

White, 2 m capillary
White, 5 m capillary
White, 10 m capillary

Item No.

1012595
1012596
1012597



Replacement cover for Unibox T, T-RTL, TQ-RTL and E BV

Description

Item No.

Genuine glass white

1022777

Genuine glass black

1022778

Plastic white

1022779



1.3 Surface heating and cooling

Return temperature limiters **225**

Valves for return temperature limitation.....	226
Return temperature limiter sets.....	227
Return temperature limiters Accessories.....	228

Valves for return temperature limitation



Return temperature limiters are used in combined radiator and surface heating systems with closed circuits. The valves are available in reversed angle for return and straight for return versions. The integrated valve insert has a double cone that prevents unintentional over-

heating. In addition, the valve has a frost protection function. The **Uni RTLH** thermostats with connection thread M 30 x 1.5 and the **Uni RTL** thermostats with connection thread M 30 x 1.0 are suitable for the valves (see chapter "Return temperature limiter Accessories").

Body material	Brass	Protection cap	Yes
Max. operating pressure	10 bar	Zero position	No
Connection thread	M 30 x 1.5	PU	25

Reversed angle for return



Type	Radiator connection	Pipe connection	Item No.
Reversed angle	R 3/8	Rp 3/8	1024363
Reversed angle	R 1/2	Rp 1/2	1024364

Straight for return



Type	Radiator connection	Pipe connection	Item No.
Straight	R 3/8	Rp 3/8	1024463
Straight	R 1/2	Rp 1/2	1024464

Return temperature limiter sets



The return temperature limiter sets consist of the valve for return temperature limitation and the matching **Uni RTLH** thermostat. The sets

are available in straight for return and angle for return versions, each with a white thermostat.

Control range	10 up to 40 °C	Pipe connection	Rp 1/2
Colour protection cap	Black	Connection thread	M 30 x 1.5
Body material	Brass	Protection cap	Yes
Max. operating pressure	10 bar	Zero position	Yes
Radiator connection	R 1/2		

Reversed angle for return



Type

Reversed angle

Item No.

1028364

Straight for return



Type

Straight

Item No.

1028464

Return temperature limiters Accessories



Extension

Description

For Unibox, for RTLH valves, 20 mm

Item No.

1022699



Uni RTLH Thermostat with M 30 x 1.5

Description

White, 10 °C - 40 °C

Chrome plated, 10 °C - 40 °C

Anthracite, with zero position, limitable and blockable, 10 °C - 70 °C

PU

25

25

10

Item No.

1027165

1027172

1149068



Uni RTL Thermostat with M 30 x 1.5

Description

White, 10 °C - 50 °C, M 30 x 1.0

Item No.

1027100



Replacement valve insert

Description

For Unibox and RTLH valves, M 30 x 1.5

Item No.

1026981



Replacement screw gland

Description

For all RTLH valves, set = 5 pieces

Item No.

1026986



Hydronics

2



2.1 Hydronic balancing of risers in heating and cooling systems

HydroControl Balancing and pipeline valves 233

HydroControl V Double regulating and commissioning valves.....	238
HydroControl M Double regulating and commissioning valves with measuring orifice.....	239
HydroControl D Differential pressure regulators.....	240
HydroControl A Shutoff valves.....	242
HydroControl Double regulating and commissioning valves.....	243
HydroControl Double regulating and commissioning valves for shipbuilding.....	249
HydroControl Double regulating and commissioning valves with measuring orifice.....	251
HydroControl Double regulating and commissioning valves for solar.....	253
HydroControl Shutoff valves.....	254
HydroControl Accessories and spare parts.....	256

Hydromat Differential pressure regulators 259

Hydromat Differential pressure regulators.....	260
Hydromat Accessories and spare parts.....	262

HydroCom and Hycoccon Balancing and pipeline valves 264

HydroCom V Double regulating and commissioning valves.....	265
HydroCom A Shutoff valves.....	266
Hycoccon VTZ Double regulating and commissioning valves.....	267
Hycoccon DTZ Differential pressure regulators.....	268
Hycoccon ATZ Shutoff valves.....	270
Hycoccon Valve inserts.....	271
Hycoccon Accessories and spare parts.....	272

Other balancing and pipeline valves 275

Hycoflow VTB Balancing valves.....	276
Differential pressure relief valves.....	277



2.1 Hydronic balancing of risers in heating and cooling systems

HydroControl Balancing and pipeline valves 233

HydroControl V Double regulating and commissioning valves.....	238
HydroControl M Double regulating and commissioning valves with measuring orifice.....	239
HydroControl D Differential pressure regulators.....	240
HydroControl A Shutoff valves.....	242
HydroControl Double regulating and commissioning valves.....	243
HydroControl Double regulating and commissioning valves for shipbuilding.....	249
HydroControl Double regulating and commissioning valves with measuring orifice.....	251
HydroControl Double regulating and commissioning valves for solar.....	253
HydroControl Shutoff valves.....	254
HydroControl Accessories and spare parts.....	256

Hydronic balancing of risers



Chapter

Hydronic balancing of risers

Product family	HydroControl										
	V	M	D	A	VTR	VFC, VFN	VFR	VGC	MTR	MFC	STR
Characteristics											
Nominal pressure	PN25/PN16	PN25	PN25/PN16	PN25	PN25/PN16	PN16/PN6/ PN25, Class 150	PN16	PN25	PN25	PN16	PN25
Medium temperature	-20...150°C	-20...150°C	-20...120°C	-20...150°C	-20...150°C	-10...150°C	-20...150°C	-10...150°C	-20...150°C	-10...150°C	-20...200°C
Body	DZR brass	DZR brass	DZR brass	DZR brass	Bronze	Cast iron, nodular cast iron	Bronze	Cast iron	Bronze	Cast iron	Bronze
Valve type											
Double regulating and commissioning valve	†	†			†	†	†	†	†	†	†
Double regulating and commissioning valve with measuring orifice		†							†	†	†
Differential pressure regulator			†								
Shut-off valve				†							
Diverting/mixing valve											
Control valve											
Pressure independent control valve											
Volume flow regulator											
Connection set											
Control functions											
Presetting/fix throttle	†	†			†	†	†	†	†	†	†
Differential pressure control			†								
Volume flow control											
Further functions											
Shut-off	†	†	†	†	†	†	†	†	†	†	†
Draining/Filling	†	†		†	†						
Impulse line connection	†	†	†	†	†						
Measuring (flow rate)	†	†	†	†	†	†	†	†	†	†	†
Via fix orifice		†							†	†	†
Measuring (Δp)	†	†			†	†	†	†	†	†	†
Actuator connection											
Design											
Angle seat valve	†	†	†	†	†	†	†	†	†	†	†
Straight seat valve											
Multi-way valve											
Connection											
Internal thread	PN25	PN25	PN25	PN25	PN25				PN25		
External thread	PN16		PN16		PN16						
with union nuts					†						
Coupling/internal thread											
Flange acc. to EN1092-2						PN16/PN6/ PN25 Class 150	PN16			PN16	
Flange acc. to ANSI											
Groove								PN25			
Others											Clamping ring PN25
kvs value/control range	kvs		kPa		kvs	kvs	kvs	kvs	kvs	kvs	kvs
DN10 LF			5...30								
DN10			or		2.9						
DN15 ULF			25...70								
DN15 LF									0.6		
DN15	3.8				3.9				1.2		
DN15 HF									2.1		
DN20 LF											1.0
DN20	6.8				5.7	4.8			3.7		2.6
DN20 HF											
DN25	10.8				8.9	8.4			6.1		
DN32	20.0				19.5	17.1			12.5		
DN40	27.5				27.5	26.9			18.1		
DN50	44.0				38.8	36.0	36.0		30.5		
DN65					50.0	98	98	98		87	
DN80						122	122	122		102	
DN100						201	201	201		198	
DN125						293	293	293		271	
DN150						404	404	404		400	
DN200						815	815	815		750	
DN250						1,200		1,200		1,090	
DN300						1,600		1,600		1,500	
DN350						2,250					
DN400						3,750					

■ kvs value ■ Control range volume flow ■ Control range differential pressure

Hydronic balancing of risers

Chapter

HydroControl		Hydromat		HydroCom		Hycocoon			Hycoflow	Product family
ATR	AFC	DTR	DFC	V	A	VTZ	DTZ	ATZ	VTB	
PN25/PN16	PN16	PN16	PN16 Class 150	PN16	PN16	PN16	PN16	PN16	PN10	Characteristics
-20...150°C	-10...150°C	-10...120°C	-10...120°C	-10...120°C	-10...120°C	-10...120°C	-10...120°C	-10...120°C	max. 100°C	Nominal pressure
Bronze	Cast iron	Bronze	Cast iron	DZR brass	DZR brass	DZR brass	DZR brass	DZR brass	Brass	Medium temperature
										Body
										Valve type
										Double regulating and commissioning valve
										Double regulating and commissioning valve with measuring orifice
										Differential pressure regulator
										Shut-off valve
										Diverting/mixing valve
										Control valve
										Pressure independent control valve
										Volume flow regulator
										Connection set
										Control functions
										Presetting/fix throttle
										Differential pressure control
										Volume flow control
										Further functions
										Shut-off
										Draining/Filling
										Impulse line connection
										Measuring (flow rate)
										Via fix orifice
										Measuring (Δp)
										Actuator connection
										Design
										Angle seat valve
										Straight seat valve
										Multi-way valve
										Connection
										Internal thread
										External thread
										with union nuts
										Coupling/internal thread
										Flange acc. to EN1092-2
										Flange acc. to ANSI
										Groove
										Others
										I/E PN10
										kvs value/control range
										DN10 LF
										DN10
										DN15 ULF
										DN15 LF
										DN15 HF
										DN20 LF
										DN20 HF
										DN25
										DN32
										DN40
										DN50
										DN65
										DN80
										DN100
										DN125
										DN150
										DN200
										DN250
										DN300
										DN350
										DN400

■ kvs value ■ Control range volume flow ■ Control range differential pressure



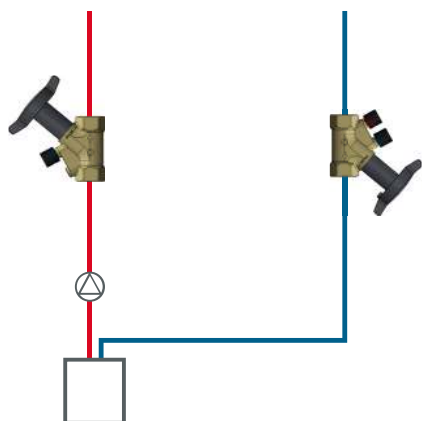
Hydronic balancing with control valves



Chapter	Hydronic balancing with pressure independent control valves					Connection of heating/cooling devices					
	Product family	Cocon				Optibal W6	Flypass 4TZ	2-/3-way valves		Hycococon control valves	
Characteristics	QTZ	QTR	QFC	QGC	QDP			Tri-CTR	2+3WV	ETZ	HTZ
Nominal pressure	PN25/PN16	PN25/PN16	PN25/PN16 Class 150	PN25	PN25	PN16	PN16	PN16	PN16 Class 150	PN16	PN16
Medium temperature	-10...120	-10...120	-10...120	-10...120	-10...120	0...90	-10...120	-10...120	-10...120	-10...120	-10...120
Body	DZR brass	Bronze	Cast iron, nodular cast iron	Cast iron	DZR brass	DZR brass	DZR brass	Bronze	Bronze	DZR brass	DZR brass
Valve type											
Double regulating and commissioning valve											
Double regulating and commissioning valve with measuring orifice											
Differential pressure regulator					†						
Shut-off valve											
Diverting/mixing valve						†		†	†		
Control valve						†			†	†	†
Pressure independent control valve	†	†	†	†	†						
Volume flow regulator	†	†	†	†	†						
Connection set							†				
Control functions											
Presetting/fix throttle						†				†	†
Differential pressure control					†						
Volume flow control	†	†	†	†	†						
Further functions											
Shut-off	†	†	†	†	†	†	†			†	†
Draining/Filling							†			†	†
Impulse line connection					†					†	†
Measuring (flow rate)	†										
Via fix orifice	†										
Measuring (Δp)	†	†	†	†			†				
Actuator connection	M30 x 1.5	†	†	†	M30 x 1.5	†		M30 x 1.5	†	M30 x 1.5	M30 x 1.5
Design											
Angle seat valve											
Straight seat valve										†	†
Multi-way valve	2W	2W	2W	2W	2W	6W	4W	3W	2W/3W	2W	2W
Connection											
Internal thread	PN25/PN16	PN25								PN16	PN16
External thread with union nuts	PN25/PN16	PN16			PN25	PN16		PN16		PN16	PN16
Coupling/internal thread	PN25/PN16							†		†	†
Flange acc. to EN1092-2			PN25/PN16						PN16		
Flange acc. to ANSI			Class 150						Class 150		
Groove				PN25							
Others							†/union nut				
kvs value/control range											
	I/h	m ³ /h	m ³ /h	m ³ /h	m ³ /h	kvs	kvs	kvs	kvs	kvs	kvs
DN10 LF	30...210										
DN10	90...450										
DN15 ULF											
DN15 LF	30...210								1		
DN15	150...1.050					3.2	22.0	2.5	1.6	1.0	1.7
DN15 HF	200...1.300								2.5		
DN20 LF									4		
DN20	150...1.050				max. 1.35	3.2	34.0	4.4	6.3	1.2	2.7
DN20 HF	250...1.800										5.0
DN25	400...2.500				max. 1.54				5.7	1.2	3.6
DN32	600...4.800								7.2		6.8
DN40		1.5...7.5	1.5...7.5						8.5		10.0
DN50		3.5...14 (I) 2.5...10 (E)	2...8						10.0		
DN65			5...20	5...20							63
DN80			7.5...30	7.5...30							100
DN100			12.5...50	12.5...50							160
DN125			27...108								220
DN150			36...150								320
DN200			55...190								
DN250											
DN300											
DN350											
DN400											

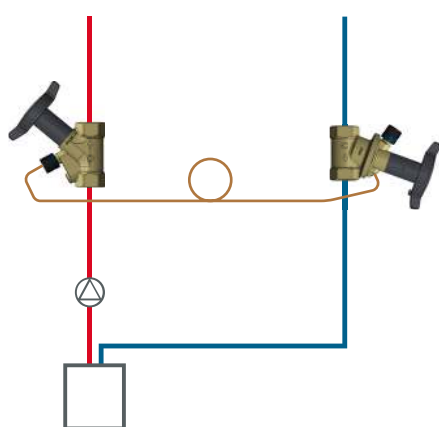
■ kvs value ■ Control range volume flow ■ Control range differential pressure

Typical applications in a riser



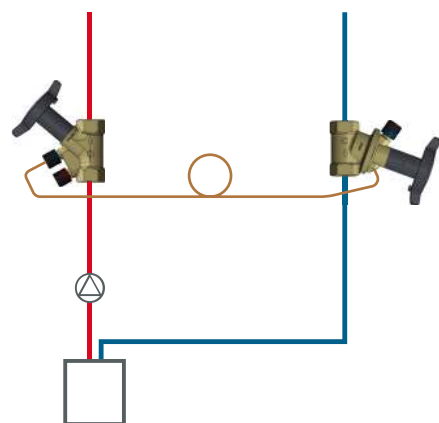
Standard installation

For example, consisting of **HydroControl V** double regulating and commissioning valve and **HydroControl A** shut-off valve for systems in which hydronic balancing of the individual supply risers is required.



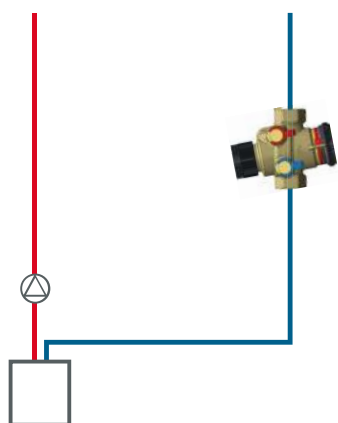
Differential pressure control

For example, consisting of **HydroControl D** differential pressure regulator and **HydroControl A** shut-off valve for systems with presettable thermostatic valves.



Differential pressure control with flow limitation

For example, consisting of **HydroControl D** differential pressure regulator and **HydroControl V** double regulating and commissioning valve for systems with thermostatic valves or radiator lockshield valves without presetting in which the flow rate is to be limited to the calculated value.



Flow control

For example with the **Cocon Q** pressure independent control valve for systems in which the mass flow of the individual supply risers is to be kept constant. For this function, the Cocon Q does not need to be equipped with an actuator.

HydroControl V Double regulating and commissioning valves



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. Determination of the flow rate by measuring the differential pressure with the help of the measuring system OV-DMC 3 taking the preset values into consideration. Installation in the supply or the return pipe.

Y-pattern valve with secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Supplied with two HydroPort auxiliary valves for measuring, draining and filling.

Valve body and all parts coming into contact with the medium made of dezincification resistant brass or EPDM. Maintenance-free spindle sealing.

The new HydroControl V double regulating and commissioning valves are characterised by robust design, precise presetting and excellent control quality.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Impulse tube connection	Yes, via HydroPort
Presetting	Yes	Operating temperature	-20 up to 150 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	With HydroPort adapter	Installation location	Supply or return
Measuring connection	HydroPort		

HydroControl V with internal thread PN 25, DN 15...50



Nominal size	kvs	Connection size	PU	Item No.
DN 15	3.80	Rp 1/2	12	1062404
DN 20	6.80	Rp 3/4	12	1062406
DN 25	10.80	Rp 1	6	1062408
DN 32	20.00	Rp 1 1/4	6	1062410
DN 40	27.50	Rp 1 1/2	6	1062412
DN 50	44.00	Rp 2	6	1062416

HydroControl V with external thread PN 16, DN 15...50

Flat sealing, without union nut and sealing ring.



Nominal size	kvs	Connection size	PU	Item No.
DN 15	3.90	G 3/4	12	1062604
DN 20	6.90	G 1	12	1062606
DN 25	11.00	G 1 1/4	6	1062608
DN 32	20.80	G 1 1/2	6	1062610
DN 40	28.70	G 1 3/4	6	1062612
DN 50	42.90	G 2 3/8	6	1062616

HydroControl M Double regulating and commissioning valves with measuring orifice



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The integrated measuring orifice enables easy balancing: modification of the flow rate values via the handwheel can be read off directly with the help of the OV-DMC 3 measuring system, irrespective of the preset values. Installation in the supply or the return pipe.
 Y-pattern valve with fixed measuring orifice and secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Supplied with two Hydro-

Port auxiliary valves for measuring, draining and filling.

Valve body and all parts coming into contact with the medium made of dezincification resistant brass or EPDM. Maintenance-free spindle sealing.

The new HydroControl M double regulating and commissioning valves are characterised by robust design, precise presetting and easy measuring.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Impulse tube connection	Yes, via HydroPort
Presetting	Yes	Operating temperature	-20 up to 150 °C
Shutoff	Yes	Medium	Water
Draining	Yes		Water-glycol mixture
Measuring connection	HydroPort	Installation location	Supply or return



2.1

HydroControl M with internal thread PN 25, DN 15...50



Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	12	1065804
DN 20	Rp 3/4	12	1065806
DN 25	Rp 1	6	1065808
DN 32	Rp 1 1/4	6	1065810
DN 40	Rp 1 1/2	6	1065812
DN 50	Rp 2	6	1065816
DN 15 MF	Rp 1/2	12	1065824
DN 15 LF	Rp 1/2	12	1065834
DN 15 ULF	Rp 1/2	12	1065844

HydroControl D Differential pressure regulators



For automatic hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The differential pressure control ensures hydronic balancing even at partial load and prevents high differential pressures in the controlled system section, e.g. at the radiator valve. When using a HydroControl V as partner valve, the water quantity in the riser can also be measured with the help of the OV-DMC 3 measuring system with the impulse tube connected. Installation only in the return pipe.

Y-pattern valve with secured, at any time controllable, infinitely adjustable presetting of the desired nominal differential pressure value. All functions accessible from the top. HydroControl

D are supplied with impulse tube and one mounted HydroPort auxiliary valve for measuring, draining and filling.

Regulator body and all parts coming into contact with the medium made of dezincification resistant brass, stainless steel or EPDM. Maintenance-free spindle sealing. Impulse tube 1 m long.

The new HydroControl D differential pressure regulators are characterised by robust design, precise presetting and excellent control quality.

Suitable connection fittings see section "Connection technology"

Body material	DZR brass	Impulse tube connection	Yes
Presetting	Yes	Operating temperature	-20 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	No	Installation location	Return
Measuring connection	Yes, with HydroControl V		

HydroControl D with internal thread PN 25, DN 15...50, nominal value range 5...30 kPa (50...300 mbar)



Nominal size	Connection size	Nominal value differential pressure (mbar)	Item No.
DN 15	Rp 1/2	50 up to 300	1064524 ::
DN 20	Rp 3/4	50 up to 300	1064526 ::
DN 25	Rp 1	50 up to 300	1064528 ::
DN 32	Rp 1 1/4	50 up to 300	1064530 ::
DN 40	Rp 1 1/2	50 up to 300	1064532 ::
DN 50	Rp 2	50 up to 300	1064536 ::

HydroControl D with internal thread PN 25, DN 15...50, nominal value range 25...70 kPa (250...700 mbar)



Nominal size	Connection size	Nominal value differential pressure (mbar)	Item No.
DN 15	Rp 1/2	250 up to 700	1064724 ::
DN 20	Rp 3/4	250 up to 700	1064726 ::
DN 25	Rp 1	250 up to 700	1064728 ::
DN 32	Rp 1 1/4	250 up to 700	1064730 ::
DN 40	Rp 1 1/2	250 up to 700	1064732 ::
DN 50	Rp 2	250 up to 700	1064736 ::

HydroControl D with external thread PN 16, DN 15...50, nominal value range 5...30 kPa (50...300 mbar)

Flat sealing, without union nut and sealing ring.



Nominal size	Connection size	Nominal value differential pressure (mbar)	Item No.
DN 15	G 3/4	50 up to 300	1064624
DN 20	G 1	50 up to 300	1064626
DN 25	G 1 1/4	50 up to 300	1064628
DN 32	G 1 1/2	50 up to 300	1064630
DN 40	G 1 3/4	50 up to 300	1064632
DN 50	G 2 3/8	50 up to 300	1064636



HydroControl A Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits. Installation in the supply or the return pipe.
Y-pattern valve without presetting. Supplied with one HydroPort auxiliary valve for measuring, draining and filling which can also be used to connect the impulse tube of a HydroControl D differential pressure regulator under system pressure.

Valve body and all parts coming into contact with the medium made of dezincification resistant brass, stainless steel, EPDM or PTFE. Maintenance-free spindle sealing.
The new HydroControl A shutoff valves are characterised by robust design and permanently reliable operation.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Impulse tube connection	Yes
Presetting	No	Operating temperature	-20 up to 150 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	With HydroPort adapter	Installation location	Supply or return
Measuring connection	No		

HydroControl A with internal thread PN 25, DN 15...50



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	4.10	12	1067524 ::
DN 20	Rp 3/4	7.80	12	1067526 ::
DN 25	Rp 1	14.10	6	1067528 ::
DN 32	Rp 1 1/4	24.80	6	1067530 ::
DN 40	Rp 1 1/2	32.40	6	1067532 ::
DN 50	Rp 2	49.80	6	1067536 ::

HydroControl A with external thread PN 16, DN 15...50

Flat sealing, without union nut and sealing ring.



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 3/4	4.10	12	1067624 ::
DN 20	G 1	7.80	12	1067626 ::
DN 25	G 1 1/4	14.10	6	1067628 ::
DN 32	G 1 1/2	24.80	6	1067630 ::
DN 40	G 1 3/4	32.40	6	1067632 ::
DN 50	G 2 3/8	49.80	6	1067636 ::

HydroControl Double regulating and commissioning valves



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. Models with measuring valves allow for the determination of the flow rate by differential pressure measurement with the help of the OV-DMC 3 measuring system, taking the preset values into account. Installation in the supply or the return pipe.

Y-pattern valve with secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Diffusion tight thermal insulation shells up to 120 °C

available as accessories.

Valve body and all parts coming into contact with the medium made of bronze, cast iron, dezincification resistant brass, PTFE, EPDM or stainless steel. Maintenance-free spindle sealing. With enclosed colour rings (red and blue) for riser identification.

HydroControl VTR will be replaced with the new HydroControl V during 2021.

Suitable connection fittings see section "Connection technology".

Presetting	Yes	Installation location	Supply or return
Shutoff	Yes		



HydroControl VTR with internal thread PN 25, DN 10...50, with mounted Classic measuring valve and fill and drain ball valve

Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..



Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Yes	Medium	Water Water-glycol mixture
Measuring connection	Classic		
Impulse tube connection	Yes		

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	2.88	10	1060303 °
DN 15	Rp 1/2	3.88	10	1060304 °
DN 20	Rp 3/4	5.71	10	1060306 °
DN 25	Rp 1	8.89	10	1060308 °
DN 32	Rp 1 1/4	19.45	5	1060310 °
DN 40	Rp 1 1/2	27.51	5	1060312 °
DN 50	Rp 2	38.78	5	1060316 °

HydroControl VTR with internal thread PN 25, DN 10...50, with two mounted Classic measuring valves



Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..

Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Classic		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Connection size	kvs	Certification	PU	Item No.
DN 10	Rp 3/8	2.88		10	1060203 °
DN 15	Rp 1/2	3.88	WaterMark	10	1060204 °
DN 20	Rp 3/4	5.71	WaterMark	10	1060206 °
DN 25	Rp 1	8.89	WaterMark	10	1060208 °
DN 32	Rp 1 1/4	19.45	WaterMark	5	1060210 °
DN 40	Rp 1 1/2	27.51	WaterMark	5	1060212 °
DN 50	Rp 2	38.78	WaterMark	5	1060216 °

HydroControl VTR with internal thread PN 25, DN 10...50



Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..

Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Closed with blind plugs		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Connection size	kvs	Certification	PU	Item No.
DN 10	Rp 3/8	2.88	WRAS	10	1060103 °
DN 15	Rp 1/2	3.88	WRAS, WaterMark	10	1060104 °
DN 20	Rp 3/4	5.71	WRAS, WaterMark	10	1060106 °
DN 25	Rp 1	8.89	WRAS, WaterMark	10	1060108 °
DN 32	Rp 1 1/4	19.45	WRAS, WaterMark	5	1060110 °
DN 40	Rp 1 1/2	27.51	WRAS, WaterMark, ACS	5	1060112 °
DN 50	Rp 2	38.78	WRAS, WaterMark, ACS	5	1060116 °

HydroControl VTR with internal thread PN 16, DN 65



Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Closed with blind plugs		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)	Certification	WaterMark

Nominal size	Connection size	kvs	Item No.
DN 65	G 2 1/2	50.00	1060120

HydroControl VTR with external thread PN 16, DN 10...50

Flat sealing, with union nut and sealing ring.



Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Closed with blind plugs		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 5/8	2.88	10	1060503 °
DN 15	G 3/4	3.88	10	1060504 °
DN 20	G 1	5.71	10	1060506 °
DN 25	G 1 1/4	8.89	10	1060508 °
DN 32	G 1 1/2	19.45	5	1060510 °
DN 40	G 1 3/4	27.51	5	1060512 °
DN 50	G 2 3/8	38.78	5	1060516 °

HydroControl VFC with flanges according to EN 1092-2 PN 16, DN 20...400, with two mounted Classic measuring valves



Draining	Extendable (only depressurised)	Operating temperature	-10 up to 150 °C
Measuring connection	Classic	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Nominal size	Body material	kvs	PU	Item No.
DN 20	Cast iron	4.80		1062646
DN 25	Cast iron	8.40		1062647
DN 32	Cast iron	17.10		1062648
DN 40	Cast iron	26.90	60	1062649
DN 50	Cast iron	36.00	60	1062650
DN 65	Cast iron	98.00	36	1062651
DN 80	Cast iron	122.00	36	1062652
DN 100	Cast iron	201.00	18	1062653
DN 125	Cast iron	293.00	16	1062654
DN 150	Cast iron	404.00	10	1062655
DN 200	Cast iron	815.00	2	1062656
DN 250	Cast iron	1,200.00	2	1062657
DN 300	Cast iron	1,600.00	2	1062658
DN 350	Nodular cast iron	2,250.00		1062659
DN 400	Nodular cast iron	3,750.00		1062660



HydroControl VFN with flanges according to EN 1092-2 PN 25, DN 65...300, with two mounted Classic measuring valves

Body material	Nodular cast iron	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Classic		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	kvs	PU	Item No.
DN 65	98.00		1062451
DN 80	122.00		1062452
DN 100	201.00		1062453
DN 125	293.00		1062454
DN 150	404.00		1062455
DN 200	815.00	2	1062456
DN 250	1,200.00		1062457
DN 300	1,600.00		1062458



HydroControl VFC with flanges according to EN 1092-2 PN 6, DN 20...200, with two mounted Classic measuring valves

Body material	Cast iron	Operating temperature	-10 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Classic		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	kvs	Item No.
DN 20	4.80	1062676
DN 25	8.40	1062677
DN 32	17.10	1062678
DN 40	26.90	1062679
DN 50	36.00	1062680
DN 65	98.00	1062681
DN 80	122.00	1062682
DN 100	201.00	1062683
DN 125	293.00	1062684
DN 150	404.00	1062685
DN 200	815.00	1062686

HydroControl VFC with flanges PN 16 with hole circles according to ANSI class 150, ¾...16 inch (DN 20...400), with two mounted Classic measuring valves



Draining	Extendable (only depressurised)	Operating temperature	-10 up to 150 °C
Measuring connection	Classic	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Nominal size	Body material	kvs	PU	Item No.
DN 20 - ¾	Cast iron	4.80		1062946
DN 25 - 1	Cast iron	8.40		1062947
DN 32 - 1¼	Cast iron	17.10		1062948
DN 40 - 1½	Cast iron	26.90		1062949
DN 50 - 2	Cast iron	36.00		1062950
DN 65 - 2½	Cast iron	98.00	36	1062951
DN 80 - 3	Cast iron	122.00	36	1062952
DN 100 - 4	Cast iron	201.00	18	1062953
DN 125 - 5	Cast iron	293.00	12	1062954
DN 150 - 6	Cast iron	404.00	10	1062955
DN 200 - 8	Cast iron	815.00	2	1062956
DN 250 - 10	Cast iron	1,200.00	2	1062957
DN 300 - 12	Cast iron	1,600.00		1062958
DN 350 - 14	Nodular cast iron	2,250.00		1062959
DN 400 - 16	Nodular cast iron	3,750.00		1062960

HydroControl VGC with grooves PN 25, DN 65...300, with two mounted Classic measuring valves

Suitable for couplings of the Victaulic, Grinnell, or similar systems.



Body material	Cast iron	Operating temperature	-10 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Classic		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Connection size	kvs	PU	Item No.
DN 65	73.0	98.00	36	1063051
DN 80	88.9	122.00	36	1063052
DN 100	114.3	201.00	18	1063053
DN 125	141.3	293.00		1063054
DN 150	168.3	404.00	10	1063055
DN 200	219.1	815.00	2	1063056
DN 250	273.0	1,200.00	2	1063057
DN 300	323.9	1,600.00		1063058
DN 65	76.1	98.00	36	1064051
DN 125	139.7	293.00		1064054
DN 150	165.1	404.00	10	1064055



HydroControl VFR with flanges according to EN 1092-2 PN 16, DN 50...200, with two mounted Classic measuring valves, body made of bronze

Body material	Bronze	Medium	Water
Draining	Extendable (only depressurised)		Water-glycol mixture
Measuring connection	Classic		Service water
Impulse tube connection	Extendable (only depressurised)		Salt water (max. 38 °C)
Operating temperature	-20 up to 150 °C		

Nominal size	kvs	PU	Item No.
DN 50	36.00		1062350
DN 65	98.00		1062351
DN 80	122.00		1062352
DN 100	201.00		1062353
DN 125	293.00		1062354
DN 150	404.00	10	1062355
DN 200	815.00	2	1062356

HydroControl Double regulating and commissioning valves for shipbuilding



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. Determination of the flow rate by measuring the differential pressure with the help of the OV-DMC 3 measuring system taking the preset values into consideration. Installation in the supply or the return pipe. Y-pattern valve with secured, at any time controllable, infinitely adjustable fine presetting.

All functions accessible from the top. Supplied with two Classic measuring valves. Maintenance-free spindle sealing. Valve body and all parts coming into contact with the medium made of dezincification resistant brass, cast iron or bronze. With type approval for shipbuilding, issued by Det Norske Veritas / German Lloyd.

Presetting	Yes	Impulse tube connection	Extendable (only depressurised)
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable (only depressurised)	Installation location	Supply or return
Measuring connection	Classic		

HydroControl VTR with internal thread PN 25, DN 10...50

Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..

Body material Bronze Operating temperature -20 up to 150 °C



Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	2.88	10	1688703
DN 15	Rp 1/2	3.88	10	1688704
DN 20	Rp 3/4	5.71	10	1688706
DN 25	Rp 1	8.89	10	1688708
DN 32	Rp 1 1/4	19.45	5	1688710
DN 40	Rp 1 1/2	27.51	5	1688712
DN 50	Rp 2	38.78	5	1688716

HydroControl VFC with flanges according to EN 1092-2 PN 16, DN 20...50, with two mounted Classic measuring valves

Body material Cast iron Operating temperature -10 up to 150 °C



Nominal size	kvs	Item No.
DN 20	4.80	1688746
DN 25	8.40	1688747
DN 32	17.10	1688748
DN 40	26.90	1688749
DN 50	36.00	1688750



HydroControl VFR with flanges according to EN 1092-2 PN 16, DN 50 and DN 200, with two mounted Classic measuring valves

Body material Bronze Operating temperature -20 up to 150 °C

Nominal size	kvs	Item No.
DN 50	36.00	1688350 °
DN 200	815.00	1688356 °



HydroControl Double regulating and commissioning valves with measuring orifice



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The integrated measuring orifice enables easy balancing. Installation in the supply or the return pipe.

Y-pattern valve with secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Supplied with two Classic measuring valves. Maintenance-free spindle sealing.

Valve body and all parts coming into contact with the medium made of bronze, cast iron, dezincification resistant brass, PTFE, EPDM or stainless steel.

HydroControl MTR will be replaced with the new HydroControl M during 2021.

Suitable connection fittings see section "Connection technology"

Presetting	Yes	Impulse tube connection	Extendable (only depressurised)
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable (only depressurised)	Installation location	Supply or return
Measuring connection	Classic		



2.1

HydroControl MTR with internal thread PN 25, DN 15...50, with two mounted Classic measuring valves



Body material	Bronze	Operating temperature	-20 up to 150 °C
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Nominal size	Connection size	kvs	PU	Item No.
DN 15 HF	Rp 1/2	2.10	10	1060404 °
DN 20	Rp 3/4	3.70	10	1060406 °
DN 25	Rp 1	6.10	10	1060408 °
DN 32	Rp 1 1/4	12.50	5	1060410 °
DN 40	Rp 1 1/2	18.10	5	1060412 °
DN 50	Rp 2	30.50	5	1060416 °
DN 15 MF	Rp 1/2	1.15	10	1060434 °
DN 15 LF	Rp 1/2	0.55	10	1060464 °

HydroControl MTR with external thread PN 16, DN 15...20, with two mounted Classic measuring valves

Flat sealing, without union nut and sealing ring.



Body material	Bronze	PU	10
Operating temperature	-20 up to 150 °C		

Nominal size	Connection size	kvs	Item No.
DN 15 HF	G 3/4	2.10	1061904 °
DN 20	G 1	3.70	1061906 °
DN 15 MF	G 3/4	1.15	1061934 °
DN 15 LF	G 3/4	0.55	1061964 °

HydroControl MFC with flanges according to EN 1092-2 PN 16, DN 65...300, with two mounted Classic measuring valves

Body material Cast iron Operating temperature -10 up to 150 °C



Nominal size	kvs	PU	Item No.
DN 65	86.70	36	1065851
DN 80	102.00	36	1065852
DN 100	198.00	18	1065853
DN 125	271.00		1065854
DN 150	400.00	10	1065855
DN 200	750.00	2	1065856
DN 250	1,090.00		1065857
DN 300	1,500.00		1065858



HydroControl Double regulating and commissioning valves for solar



Especially for the hydronic balancing of collector fields in solar thermal systems with closed circuits. No shutoff facility to ensure a minimum flow rate. Flow rate determination by differential pressure measurement via the integrated, fixed measuring orifice. Installation in the supply or the return pipe. Y-pattern valve with fixed measuring orifice and secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Clamping ring connection for Regusol compression fittings on both sides. Plug-in couplings for connection of a

measuring device. Valve body and bonnet made of bronze, other parts coming into contact with the medium made of dezincification resistant brass or stainless steel. Maintenance-free spindle sealing by double O-ring.

HydroControl STR are particularly characterised by high temperature resistance up to 200 °C, a minimum flow rate and a fixed measuring orifice.

Suitable connection fittings see section "Connection technology".

Body material	Bronze	Operating temperature	-20 up to 200 °C
Presetting	Yes	Medium	Water Water-glycol mixture
Shutoff	No	Installation location	Supply or return
Draining	No	PU	10
Measuring connection	Yes		
Impulse tube connection	No		

HydroControl STR with clamping ring connection PN 25, DN 20



Nominal size	Connection size	kvs	Item No.
DN 20 LF	G 3/4	1.04	1369050
DN 20 MF	G 3/4	2.60	1369055

HydroControl Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits. Installation in the supply or the return pipe.
 Y-pattern valve without presetting. With two measuring connections closed with blind plugs. Diffusion tight thermal insulation shells up to 120 °C available as accessories for nominal sizes up to DN 50.

Valve body and all parts coming into contact with the medium made of dezincification resistant brass, stainless steel, EPDM or PTFE. Maintenance-free spindle sealing. HydroControl ATR will be replaced with the new HydroControl A during 2012.

Suitable connection fittings see section "Connection technology".

Presetting	No	Medium	Water
Shutoff	Yes		Water-glycol mixture
Measuring connection	No	Installation location	Supply or return

HydroControl ATR with internal thread PN 25, DN 10...50



Body material	Bronze	Impulse tube connection	Extendable (only depressurised)
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	2.88	10	1067503 °
DN 15	Rp 1/2	3.88	10	1067504 °
DN 20	Rp 3/4	5.71	10	1067506 °
DN 25	Rp 1	8.89	10	1067508 °
DN 32	Rp 1 1/4	19.45	5	1067510 °
DN 40	Rp 1 1/2	27.51	5	1067512 °
DN 50	Rp 2	38.78	5	1067516 °

HydroControl ATR with internal thread PN 16, DN 65



Body material	Bronze	Impulse tube connection	Extendable (only depressurised)
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C

Nominal size	Connection size	kvs	Item No.
DN 65	G 2 1/2	50.00	1067520 °



HydroControl ATR with external thread PN 16, DN 10...50

Flat sealing, with union nut and sealing ring.

Body material	Bronze	Impulse tube connection	Extendable (only depressurised)
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C

Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 5/8	2.88	10	1067603 °
DN 15	G 3/4	3.88	10	1067604 °
DN 20	G 1	5.71	10	1067606 °
DN 25	G 1 1/4	8.89	10	1067608 °
DN 32	G 1 1/2	19.45	5	1067610 °
DN 40	G 1 3/4	27.51	5	1067612 °
DN 50	G 2 3/8	38.78	5	1067616 °



HydroControl AFC with flanges according to EN 1092-2 PN 16, DN 65...150

Body material	Cast iron	Impulse tube connection	No
Draining	No	Operating temperature	-10 up to 150 °C

Nominal size	kvs	PU	Item No.
DN 65	98.00	36	1062051
DN 80	122.00	36	1062052
DN 100	201.00	18	1062053
DN 125	293.00	16	1062054
DN 150	404.00	10	1062055

HydroControl Accessories and spare parts



Thermal insulation shell made of polyethylene flexible foam

For HydroControl VTR and ATR.

Made of polyethylene flexible foam. Only for heating systems. Operating temperature: up to 100 °C. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B1 according to DIN 4102.

Nominal size	PU	Item No.
DN 10 and DN 15	100	1060481 °
DN 20	100	1060482 °
DN 25	125	1060483 °
DN 32	100	1060484 °
DN 40	100	1060485 °
DN 50	100	1060486 °



Thermal insulation shell made of polyurethane rigid foam

For HydroControl VTR and ATR.

Made of polyurethane rigid foam with multiple clip connection. Operating temperature: up to 130 °C, for short periods up to 150 °C. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B2 according to DIN 4102.

Nominal size	PU	Item No.
DN 10 and DN 15	350	1060081
DN 20	260	1060082
DN 25		1060083
DN 32	130	1060084
DN 40		1060085
DN 50	80	1060086



Thermal insulation shell made polyurethane rigid foam with polystyrene shell

For HydroControl VFC, VFN, VFR and VGC as well as HydroControl AFC.

Made of polyurethane rigid foam with polystyrene shell. For heating and cooling systems. Operating temperature: -10 to + 130 °C. Building material class B2 according to DIN 4102. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Cold insulation: Min. medium temperature 6 °C, shells have to be bonded hermetically. Restricted diffusion tightness at low medium temperature and at high ambient temperature and/or air humidity.

Nominal size	PU	Item No.
DN 20		1062581
DN 25		1062582
DN 32		1062583
DN 40		1062584
DN 50		1062585
DN 65		1062586
DN 80		1062587
DN 100	7	1062588
DN 125		1062589
DN 150		1062590

Spindle extension, length 35 mm

For valve insulation with commercially available insulation material for HydroControl VTR, VFC, VFN, VFR, VGC, MTR and AFC. Not to be used in combination with Oventrop thermal insulation shells.



PU 10

Description	Item No.
For DN 10...50	1688296
For DN 65...150	1688297

Blocking set

For HydroControl VTR, VFC, VFN, VFR, VGC, MTR and MFC up to DN 50.



PU 25

Description	Item No.
1-fold, consisting of blocking cap, seal and sealing wire	1060180 °

Wire seal kit

For HydroControl V, M, D, A as well as VTR, VFC, VFN, VFR, VGC, MTR and MFC up to DN 50.



PU 10

Description	Item No.
10-fold, consisting of seal and sealing wire	1089091

Identification ring

Can be clipped onto the handwheel for riser identification. For HydroControl VTR, VFC, VFN, VFR, VGC, MTR and MFC up to DN 50.



PU 50

Description	Item No.
10-fold, blue	1069650 °
10-fold, red	1069651 °
10-fold, violet	1069652 °
10-fold, green	1069653 °



Replacement insert

For HydroControl VTR, VFC, VFN, VFR, VGC, MTR and MFC up to DN 50.

Nominal size	Item No.
DN 10	1069003
DN 15	1069004
DN 20	1069006
DN 25	1069008
DN 32	1069010
DN 40	1069012
DN 50	1069016



2.1 Hydronic balancing of risers in heating and cooling systems

Hydromat Differential pressure regulators 259

Hydromat Differential pressure regulators.....	260
Hydromat Accessories and spare parts.....	262



Hydromat Differential pressure regulators



For automatic hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The differential pressure control ensures hydronic balancing even at partial load and prevents high differential pressures in the controlled system section, e.g. at the radiator valve. Installation only in the return pipe.

Y-pattern valve as proportional controller working without auxiliary energy. Infinitely adjustable nominal value. Nominal value can be blocked and read from outside at any time. With direct shutoff and the option of draining and filling. All functions accessible from the

top.

Regulator body and all parts coming into contact with the medium made of bronze, cast iron, dezincification resistant brass or stainless steel. O-rings and diaphragm made of EPDM. Valve plug with soft seal. Maintenance-free spindle sealing.

Hydromat differential pressure regulators are characterised by robust design and permanently reliable operation.

Suitable connection fittings see section "Connection technology".

Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Yes	Installation location	Return
Measuring connection	No		
Impulse tube connection	Yes		

Hydromat DTR with internal thread PN 16, DN 15...50

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..

Body material Bronze



Nominal size	Connection size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
DN 15	Rp 1/2	2.50	50 up to 300		1064504 °
DN 20	Rp 3/4	5.00	50 up to 300		1064506 °
DN 25	Rp 1	7.50	50 up to 300		1064508 °
DN 32	Rp 1 1/4	10.00	50 up to 300	130	1064510 °
DN 40	Rp 1 1/2	15.00	50 up to 300	72	1064512 °
DN 50	Rp 2	34.00	50 up to 300	60	1064516 °
DN 15	Rp 1/2	2.50	250 up to 700		1064704 °
DN 20	Rp 3/4	5.00	250 up to 700		1064706 °
DN 25	Rp 1	7.50	250 up to 700		1064708 °
DN 32	Rp 1 1/4	10.00	250 up to 700		1064710 °
DN 40	Rp 1 1/2	15.00	250 up to 700		1064712 °
DN 50	Rp 2	34.00	250 up to 700	60	1064716 °



Hydromat DTR with external thread PN 16, DN 15...50

Flat sealing, with union nut and sealing ring.

Body material Bronze

Nominal size	Connection size	kvs	Nominal value differential pressure (mbar)	Item No.
DN 15	G 3/4	2.50	50 up to 300	1064604 °
DN 20	G 1	5.00	50 up to 300	1064606 °
DN 25	G 1 1/4	7.50	50 up to 300	1064608 °
DN 32	G 1 1/2	10.00	50 up to 300	1064610 °
DN 40	G 1 3/4	15.00	50 up to 300	1064612 °
DN 50	G 2 3/8	34.00	50 up to 300	1064616 °
DN 15	G 3/4	2.50	250 up to 700	1064804 °
DN 20	G 1	5.00	250 up to 700	1064806 °
DN 25	G 1 1/4	7.50	250 up to 700	1064808 °
DN 32	G 1 1/2	10.00	250 up to 700	1064810 °
DN 40	G 1 3/4	15.00	250 up to 700	1064812 °
DN 50	G 2 3/8	34.00	250 up to 700	1064816 °

Hydromat DFC with flanges according to EN 1092-2 PN 16, DN 65...200

Body material Cast iron



Nominal size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
DN 65	52.00	200 up to 1,000	16	1064651
DN 80	75.00	200 up to 1,000	16	1064652
DN 100	110.00	200 up to 1,000		1064653
DN 125	145.00	200 up to 1,000	10	1064654
DN 150	170.00	200 up to 1,000	5	1064655
DN 65	52.00	400 up to 1,800	16	1064751
DN 80	75.00	400 up to 1,800	16	1064752
DN 100	110.00	400 up to 1,800	16	1064753
DN 125	145.00	400 up to 1,800	5	1064754
DN 150	170.00	400 up to 1,800		1064755
DN 200	420.00	400 up to 1,800		1064756

Hydromat DFC with flanges PN 16 with hole circles according to ANSI class 150, 2 1/2...6 inch (DN 65...150)

Body material Cast iron



Nominal size	kvs	Nominal value differential pressure (mbar)	Item No.
DN 65 - 2 1/2	52.00	400 up to 1,800	1064951 °
DN 80 - 3	75.00	400 up to 1,800	1064952 °
DN 100 - 4	110.00	400 up to 1,800	1064953 °
DN 125 - 5	145.00	400 up to 1,800	1064954 °
DN 150 - 6	170.00	400 up to 1,800	1064955 °

Hydromat Accessories and spare parts



Thermal insulation shell made of polyethylene flexible foam

Only for heating systems. Operating temperature: up to 100 °C. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B1 according to DIN 4102.

Nominal size	PU	Item No.
DN 10 and DN 15	100	1060481 °
DN 20	100	1060482 °
DN 25	125	1060483 °
DN 32	100	1060484 °
DN 40	100	1060485 °
DN 50	100	1060486 °



Thermal insulation shell made polyurethane rigid foam

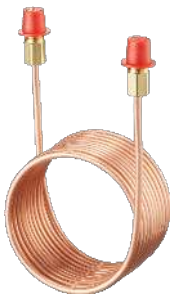
With multiple clip connection. Operating temperature: up to 130 °C, for short periods up to 150 °C. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B2 according to DIN 4102.

Nominal size	PU	Item No.
DN 10 and DN 15	350	1060081
DN 20	260	1060082
DN 25		1060083
DN 32	130	1060084
DN 40		1060085
DN 50	80	1060086

Replacement diaphragm actuator, DN 15...50



Nominal size	Nominal value differential pressure (mbar)	Item No.
DN 15	50 up to 300	1064592
DN 20	50 up to 300	1064593
DN 25	50 up to 300	1064594
DN 32	50 up to 300	1064595
DN 40	50 up to 300	1064596
DN 50	50 up to 300	1064597
DN 15	250 up to 700	1064792
DN 20	250 up to 700	1064793
DN 25	250 up to 700	1064794
DN 32	250 up to 700	1064795
DN 40	250 up to 700	1064796
DN 50	250 up to 700	1064797



Replacement impulse tube

PU _____ 10

Description	Item No.
For Hycoccon DTZ and Hydromat DTR, length 2 m	1062095
For Hycoccon DTZ and Hydromat DTR, length 5 m	1062097 °





2.1 Hydronic balancing of risers in heating and cooling systems

HydroCom and Hycoccon Balancing and pipeline valves **264**

HydroCom V Double regulating and commissioning valves.....	265
HydroCom A Shutoff valves.....	266
Hycoccon VTZ Double regulating and commissioning valves.....	267
Hycoccon DTZ Differential pressure regulators.....	268
Hycoccon ATZ Shutoff valves.....	270
Hycoccon Valve inserts.....	271
Hycoccon Accessories and spare parts.....	272

HydroCom V Double regulating and commissioning valves



For automatic hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. Installation in the supply or the return pipe.
 Y-pattern valve with infinitely adjustable pre-setting. All functions accessible from the top. Supplied with two HydroPort auxiliary valves

for measuring, draining and filling. Valve body made of dezincification resistant brass. Maintenance-free spindle sealing. The new HydroCom V double regulating and commissioning valves are characterised by robust design, fast pre-setting and excellent control quality.

Body material	DZR brass	Impulse tube connection	Yes, via HydroPort
Pre-setting	Yes	Operating temperature	-20 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	With HydroPort adapter	Installation location	Supply or return
Measuring connection	HydroPort		



HydroCom V with internal thread PN 16, DN 15...32



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	2.00	12	1062704 ::
DN 20	Rp 3/4	3.70	12	1062706 ::
DN 25	Rp 1	5.90	6	1062708 ::
DN 32	Rp 1 1/4	13.00	6	1062710 ::

HydroCom A Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits. Installation in the supply or the return pipe.
 Y-pattern valve without presetting. Supplied with one HydroPort auxiliary valve for measuring, draining and filling on the downstream side for the connection of the impulse tube of a

differential pressure regulator.
 Valve body and bonnet made of dezincification resistant brass. Valve cone with soft seal, maintenance-free spindle sealing by double O-ring.
 The new HydroCom A shutoff valves are characterised by compact dimensions and permanently high operational safety.

Body material	DZR brass	Impulse tube connection	Yes, via HydroPort
Presetting	No	Operating temperature	-20 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	With HydroPort adapter	Installation location	Supply or return
Measuring connection	No		

HydroCom A with internal thread PN 16, DN 15...32



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	2.00	12	1062724
DN 20	Rp 3/4	3.70	12	1062726
DN 25	Rp 1	5.90	6	1062728
DN 32	Rp 1 1/4	13.00	6	1062730

Hycococon VTZ Double regulating and commissioning valves



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The inserts of the sizes DN 15...25 can be replaced without draining the system and be converted to receive an actuator, a thermostat or a differential pressure regulator bonnet. The Demo-Bloc special tool is required for the replacement. Installation in the supply or the return pipe.

Straight seat valve with secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top. Thermal insulation shells up to 110 °C (not diffusion tight) included in the scope of delivery.

Diffusion tight thermal insulation shells up to 120 °C available as accessories.

Valve body, bonnet and all components coming into contact with the medium made of dezincification resistant brass, PTFE or EPDM. Maintenance-free spindle sealing by double O-ring. With two mounted measuring and drain valves with Eco measuring technique.

Hycococon VTZ will be replaced with the new HydroCom V during 2021.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Impulse tube connection	Yes
Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable	Installation location	Supply or return
Measuring connection	Eco		



Hycococon VTZ with internal thread PN 16, DN 15...50

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	1.70	10	1061704 °
DN 20	Rp 3/4	2.70	10	1061706 °
DN 25	Rp 1	3.60	10	1061708 °
DN 32	Rp 1 1/4	6.80	5	1061710 °
DN 40	Rp 1 1/2	10.00	5	1061712 °
DN 50	Rp 2	18.00	5	1061716 °

Hycococon VTZ with external thread PN 16, DN 15...50

Flat sealing, with union nut and sealing ring.



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 3/4	1.70	10	1061804 °
DN 20	G 1	2.70	10	1061806 °
DN 25	G 1 1/4	3.60	10	1061808 °
DN 32	G 1 1/2	6.80	5	1061810 °
DN 40	G 1 3/4	10.00	5	1061812 °
DN 50	G 2 3/8	18.00	5	1061816 °

Hycococon DTZ Differential pressure regulators



For automatic hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The differential pressure control ensures hydronic balancing even at partial load and prevents high differential pressures in the controlled system section, e.g. at the radiator valve. Installation only in the return pipe.

Straight seat valve as proportional controller working without auxiliary energy. Infinitely adjustable nominal value. Nominal value can be blocked and read from outside at any time. With direct shutoff and the option of draining and filling. Connection set, drain valve and thermal insulation shells for temperatures up

to 110 °C included in the scope of delivery (not diffusion tight). Diffusion tight thermal insulation shells up to 120 °C available as accessories.

Valve body, bonnet, regulator bowl and all parts coming into contact with the medium made of dezincification resistant brass or EPDM. Valve plug with soft seal. With two mounted measuring and draining valves with Eco measuring technique.

Hycococon DTZ will be replaced with the new HydroCom D during 2021.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Actuator	No
Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable	Installation location	Return
Measuring connection	Eco		
Impulse tube connection	Yes		

Hycococon DTZ with internal thread PN 16, DN 15...50

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Nominal size	Connection size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
DN 15	Rp 1/2	1.70	50 up to 300	10	1062004 °
DN 20	Rp 3/4	2.70	50 up to 300	10	1062006 °
DN 25	Rp 1	3.60	50 up to 300	10	1062008 °
DN 32	Rp 1 1/4	6.80	50 up to 300	5	1062010 °
DN 40	Rp 1 1/2	10.00	50 up to 300	5	1062012 °
DN 50	Rp 2	18.00	50 up to 300		1062016 °
DN 15	Rp 1/2	1.70	250 up to 600	10	1062204 °
DN 20	Rp 3/4	2.70	250 up to 600	10	1062206 °
DN 25	Rp 1	3.60	250 up to 600	10	1062208 °
DN 32	Rp 1 1/4	6.80	250 up to 600	5	1062210 °
DN 40	Rp 1 1/2	10.00	250 up to 600	5	1062212 °
DN 50	Rp 2	23.00	250 up to 600		1062216 °

Hycoccon DTZ with external thread PN 16, DN 15...50

Flat sealing, with union nut and sealing ring.



Nominal size	Connection size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
DN 15	G 3/4	1.70	50 up to 300	10	1062104 °
DN 20	G 1	2.70	50 up to 300	10	1062106 °
DN 25	G 1 1/4	3.60	50 up to 300	10	1062108 °
DN 32	G 1 1/2	6.80	50 up to 300	5	1062110 °
DN 40	G 1 3/4	10.00	50 up to 300	5	1062112 °
DN 50	G 2 3/8	23.00	50 up to 300		1062116 °
DN 15	G 3/4	1.70	250 up to 600	10	1062304 °
DN 20	G 1	2.70	250 up to 600	10	1062306 °
DN 25	G 1 1/4	3.60	250 up to 600	10	1062308 °
DN 32	G 1 1/2	6.80	250 up to 600	5	1062310 °
DN 40	G 1 3/4	10.00	250 up to 600	5	1062312 °
DN 50	G 2 3/8	23.00	250 up to 600		1062316 °



Hycococon ATZ Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits. Can be converted to a double regulating and commissioning valve using a conversion handwheel which is available as accessory. Installation in the supply or the return pipe. Straight seat valve without presetting. With measuring and drain valve for the connection of the impulse tube of a differential pressure regulator. Supplied with thermal insulation shells for temperatures up to 110 °C. Diffusion tight thermal insulation shells up to 120 °C

available as accessories. Valve body and bonnet made of dezincification resistant brass. Valve cone with soft seal, maintenance-free spindle sealing. With two mounted measuring and drain valves with Eco measuring technique. Hycococon ATZ will be replaced with the new HydroCom A during 2012.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Actuator	No
Presetting	No	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	Yes		Water-glycol mixture
Measuring connection	Eco	Installation location	Supply or return
Impulse tube connection	Yes		

Hycococon ATZ with internal thread PN 16, DN 15...50

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	1.70	10	1067304 °
DN 20	Rp 3/4	2.70	10	1067306 °
DN 25	Rp 1	3.60	10	1067308 °
DN 32	Rp 1 1/4	6.80	5	1067310 °
DN 40	Rp 1 1/2	10.00	5	1067312 °
DN 50	Rp 2	18.00	5	1067316 °

Hycococon ATZ with external thread PN 16, DN 15...50

Flat sealing, with union nut and sealing ring.



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 3/4	1.70	10	1067404 °
DN 20	G 1	2.70	10	1067406 °
DN 25	G 1 1/4	3.60	10	1067408 °
DN 32	G 1 1/2	6.80	5	1067410 °
DN 40	G 1 3/4	10.00	5	1067412 °
DN 50	G 2 3/8	18.00	5	1067416 °

Hycococon Valve inserts



Conversion valve insert for Hycococon DN 15 to DN 25

Hycococon VTZ, ATZ, ETZ and HTZ DN 15 to DN 25 can be retrofitted with the valve inserts listed below. This can be done with the Oventrop Demo-Bloc special tool under system pressure. Depending on the valve insert used, further accessories are necessary, for example an actuator or thermostat.

PU 100

Description	Item No.
For Unibox and RTLH valves, M 30 x 1.5	1026981
For KTB valves, opens when the sensor temperature rises	1147169
For PTB valves and Cocon 2TZ, DN 15, kvs = 0.45	1186052
For PTB valves and Cocon 2TZ, DN 15, kvs = 1.00	1186053
For Cocon 2TZ, DN 15, kvs = 1.80	1186054
For A thermostatic valves (especially for steam systems), M 30 x 1.5	1186200
For reversed supply and return pipe, for A, AV 9, ADV 9, CV 9, E, AF, RF and RFV 9 thermostatic valves as well as Hycococon ATZ and VTZ, M 30 x 1.5, without presetting	1187070
For Combi LR with cap for Hycococon valves	1187071
For F thermostatic valves, M 30 x 1.5, kv = 0.32	1187352



Replacement valve insert for Hycococon

PU 10

Description	Item No.
For Hycococon ATZ, APZ, VTZ and VPZ, DN 15...25	1067065
For Hycococon HTZ, DTZ, VTZ and VPZ, DN 32	1067066
For Hycococon HTZ, DTZ, VTZ and VPZ, DN 40	1067067
For Hycococon ATZ and APZ, DN 32	1067068 °
For Hycococon ATZ and APZ, DN 40	1067069 °
For Hycococon HTZ and DTZ DN 15...25	1067085

Hycococon Accessories and spare parts

2.1



Thermal insulation shell for higher temperatures

Thermal insulation consisting of two shells. Complies with the German Energy Saving Ordinance (EnEV). Not suitable for Hycococon DTZ differential pressure regulators.

Operating temperature up to 120 °C

Nominal size	Item No.
DN 15	1061771 °
DN 20	1061772 °
DN 25	1061773 °
DN 32	1061774 °
DN 40	1061775 °



Additional shell for cooling systems

Additionally required for cooling systems. Only suitable in combination with the thermal insulation shells item no. 106177. Cold insulation: Min. medium temperature 6 °C, shells have to be bonded hermetically. Restricted diffusion tightness at low medium temperature and at high ambient temperature and/or air humidity.

Operating temperature -10 up to 120 °C

Nominal size	Item No.
DN 15	1061781 °
DN 20	1061782 °
DN 25	1061783 °
DN 32	1061784 °
DN 40	1061785 °



Handwheel with presetting

For the conversion of Hycococon ATZ shutoff valves to Hycococon VTZ double regulating and commissioning valves.

PU 10

Nominal size	Item No.
DN 15	1061793 °
DN 20	1061794 °
DN 25	1061795 °
DN 32	1061796 °
DN 40	1061797 °

Diaphragm actuator



For the conversion of a Hycocon ATZ shutoff valve or a Hycocon VTZ double regulating and commissioning valve to a Hycocon DTZ differential pressure regulator. Note that the impulse tube supplied requires a connection in the supply pipe (or the return pipe if the valve to be converted is installed in the supply pipe). DN 15 to DN 25: the valve insert must be replaced for the conversion (enclosed). This can be done with the Oventrop Demo-Bloc special tool under system pressure.

PU 10

Description	Item No.
For DN 15 to DN 25, nominal value 50-300 mbar	1062082
For DN 32 and DN 40, nominal value 50-300 mbar	1062085
For DN 15 to DN 25, nominal value 250-600 mbar	1062282
For DN 32 and DN 40, nominal value 250-600 mbar	1062285

Adapter for impulse tube connection



PU 50

Description	Item No.
Adapter for connecting the impulse tube to a G 3/4 external thread	1062090
Adapter for connecting the impulse tube to a G 1/4 internal thread	1609302

Blocking pin with sealing wire



For blocking the set nominal values.

Description	PU	Item No.
For Hycocon VTZ and Aquastrom T plus	50	1061792 °
For Hycocon DTZ differential pressure regulator	25	1062092 °

Eco Measuring technique



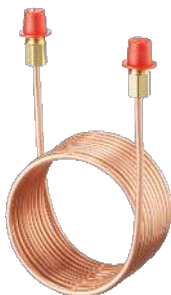
Description	PU	Item No.
Measuring adapter with quick-coupling technique for drain and fill tool	50	1060297 °
Drain and fill tool		1061791 °
2 measuring needles for OV-DMC 3, OV-DMC 2 and OV-DMPC	25	1061799 °



Demo-Bloc

Special tool for the replacement of Hycococon valve inserts DN 15 to DN 25 under system pressure - except for Hycococon DTZ differential pressure regulators.

Description	PU	Item No.
Connection thread M 30 x 1.5, including coupling set for QA and QAH valve inserts		1188051
Differential pressure measuring spindle		1188093
Cleaning head for all valves	100	1188400



Replacement impulse tube

PU	10
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Description	Item No.
For Hycococon DTZ and Hydromat DTR, length 2 m	1062095
For Hycococon DTZ and Hydromat DTR, length 5 m	1062097 °

Replacement measuring and draining unit

PU	10
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Description	Item No.
Measuring and draining unit for valves with Eco measuring technique	1061790 °
Plug for valves with Eco measuring technique	1061798 °



2.1 Hydronic balancing of risers in heating and cooling systems

Other balancing and pipeline valves **275**

Hycoflow VTB Balancing valves.....	276
Differential pressure relief valves.....	277



Hycoflow VTB Balancing valves



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The integrated flow rate display allows for easy balancing by directly reading the water quantity. Installation in the supply or the return pipe.

Axial valve with infinitely adjustable presetting and shutoff. Body made of brass.

Suitable connection fittings see section "Connection technology".

Body material	Brass	Medium	Water
Presetting	Yes		Water-glycol mixture
Shutoff	Yes		
Measuring connection	No	Installation location	Supply or return
Operating temperature	up to 100 °C		
Max. operating temperature	100 °C		



Hycoflow VTB with external thread PN 10, DN 20...32

Nominal size	Connection size	kvs	Control range (l/h)	PU	Item No.
DN 20	G 3/4	3.00	4 - 17	10	1060906
DN 25	G 1	8.30	10 - 40	10	1060908
DN 32	G 1 1/4	13.70	20 - 70	5	1060910



Hycoflow VTB with union nut / external thread PN 10, DN 25

PU	655
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Nominal size	Connection size	kvs	Control range (l/h)	Item No.
DN 25	G 1	5.50	5 - 40	1060925

Differential pressure relief valves



For pump hot water heating systems PN 10.
With visual indicator to ensure a minimum
flow rate or to reduce flow noises.

Body material	Bronze/Brass	Operating temperature	up to 120 °C
Shutoff	No	Medium	Water
Draining	No	Nominal value differential pressure	50 up to 500 mbar
Measuring connection	No		



Differential pressure relief valve with internal thread PN 10, DN 20...32

Nominal size	Connection size	Item No.
DN 20	Rp 3/4	1085206
DN 25	Rp 1	1085208
DN 32	Rp 1 1/4	1085210



2.2 Hydronic balancing with pressure independent control valves



Cocon Q Pressure independent control valves 279

Cocon QTZ Valves up to DN 32.....	280
Cocon QTR Valves DN 40 and DN 50.....	283
Cocon Q Valves with flanges.....	284
Cocon QDP Control valves with differential pressure regulator...	286
Cocon Accessories and spare parts.....	287

Actuators 289

Aktor T Electrothermal actuators.....	292
Aktor T Accessories and spare parts.....	293
Aktor M Electromotive actuators.....	294
Aktor M Accessories.....	297



2.2 Hydronic balancing with pressure independent control valves

Cocon Q Pressure independent control valves 279

Cocon QTZ Valves up to DN 32.....	280
Cocon QTR Valves DN 40 and DN 50.....	283
Cocon Q Valves with flanges.....	284
Cocon QDP Control valves with differential pressure regulator...	286
Cocon Accessories and spare parts.....	287



Cocon QTZ Valves up to DN 32



Pressure independent control valve for dynamic hydronic balancing of heat exchangers, for example fan coils or cooling ceilings and distribution pipes in heating and cooling systems with closed circuits. The valve combination consists of an automatically operating flow controller and a control valve and can be equipped with an actuator or a manual regulating head. Installation in the supply or the return pipe.

Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct setting in litres per hour. Readability of the set value independent of the handwheel position.

Valves with blind plugs can be retrofitted with Classic measuring valves. All DN 15 and DN 20 valves are suitable for copper pipe.

Valve body and parts coming into contact with the medium made of dezincification resistant brass, plastic, stainless steel, EPDM or PTFE. Maintenance-free spindle sealing. Cocon QTZ are characterised by easy adjustability, compact dimensions and best control quality.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	Operating temperature	-10 up to 120 °C
Presetting	Yes	Medium	Water Water-glycol mixture
Shutoff	Yes	Installation location	Supply or return
Connection actuator	M 30 x 1.5		

Cocon QTZ with coupling and internal thread, DN 15...32



Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 20	R ¾ x Rp ¾	250 - 1,800	PN 25	10	1143606
DN 25	R 1 x Rp 1	400 - 2,500	PN 25	10	1143608
DN 32	R 1 ¼ x Rp 1 ¼	600 - 4,800	PN 25	5	1143610
DN 15	R ½ x Rp ½	200 - 1,300	PN 25	10	1143704
DN 15	R ½ x Rp ½	30 - 210	PN 16	10	1145504
DN 20	R ¾ x Rp ¾	150 - 1,050	PN 16	10	1145506
DN 15	R ½ x Rp ½	150 - 1,050	PN 16	10	1145704 °

Cocon QTZ with coupling and internal thread, DN 15...32, with two mounted Classic measuring valves



Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 20	R ¾ x Rp ¾	250 - 1,800	PN 25	10	1143206
DN 25	R 1 x Rp 1	400 - 2,500	PN 25	10	1143208
DN 32	R 1 ¼ x Rp 1 ¼	600 - 4,800	PN 25	5	1143210
DN 15	R ½ x Rp ½	200 - 1,300	PN 25	10	1143304
DN 15	R ½ x Rp ½	30 - 210	PN 16	10	1146004
DN 20	R ¾ x Rp ¾	150 - 1,050	PN 16	10	1146006
DN 15	R ½ x Rp ½	150 - 1,050	PN 16	10	1146204 °



Cocon QTZ with external thread, DN 10...32

Nominal sizes DN 10, DN 25 and DN 32 flat sealing. Nominal sizes DN 15 and DN 20 conically sealing, with insert 1661100 (for DN 15) or 1650793 (for DN 20) flat sealing.

Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 10	G 1/2	150 - 700	PN 25	10	1143663 ::
DN 20	G 1	250 - 1,800	PN 25	10	1143666 ::
DN 25	G 1 1/4	400 - 2,500	PN 25	10	1143668 ::
DN 32	G 1 3/4	600 - 4,800	PN 25	5	1143670 ::
DN 15	G 3/4	200 - 1,300	PN 25	10	1143764 ::
DN 10	G 1/2	30 - 210	PN 16	10	1145563
DN 15	G 3/4	30 - 210	PN 16	10	1145564
DN 20	G 1	150 - 1,050	PN 16	10	1145566
DN 10	G 1/2	90 - 450	PN 16	10	1145663 °
DN 15	G 3/4	150 - 1,050	PN 16	10	1145764 °



Cocon QTZ with external thread, DN 10...32, with two mounted Classic measuring valves

Nominal sizes DN 10, DN 25 and DN 32 flat sealing. Nominal sizes DN 15 and DN 20 conically sealing, with insert 1661100 (for DN 15) or 1650793 (for DN 20) flat sealing.

Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 10	G 1/2	150 - 700	PN 25	10	1143263 ::
DN 20	G 1	250 - 1,800	PN 25	10	1143266 ::
DN 25	G 1 1/4	400 - 2,500	PN 25	10	1143268 ::
DN 32	G 1 3/4	600 - 4,800	PN 25	5	1143270 ::
DN 15	G 3/4	200 - 1,300	PN 25	10	1143364 ::
DN 10	G 1/2	30 - 210	PN 16	10	1146063
DN 15	G 3/4	30 - 210	PN 16	10	1146064
DN 20	G 1	150 - 1,050	PN 16	10	1146066
DN 10	G 1/2	90 - 450	PN 16	10	1146163 °
DN 15	G 3/4	150 - 1,050	PN 16	10	1146264 °



Cocon QTZ with internal thread, , DN 15...32

Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 20	Rp 3/4	250 - 1,800	PN 25	10	1147306 ::
DN 25	Rp 1	400 - 2,500	PN 25	10	1147308 ::
DN 32	Rp 1 1/4	600 - 4,800	PN 25	5	1147310 ::
DN 15	Rp 1/2	200 - 1,300	PN 25	10	1147404 ::
DN 15	Rp 1/2	30 - 210	PN 16	10	1147504
DN 20	Rp 3/4	150 - 1,050	PN 16	10	1147506
DN 15	Rp 1/2	150 - 1,050	PN 16	10	1147704 °

Cocon QTZ with internal thread, DN 15...32, with two mounted Classic measuring valves



Nominal size	Connection size	Control range (l/h)	Pressure rating	PU	Item No.
DN 15	Rp 1/2	30 - 210	PN 16	10	1148504
DN 20	Rp 3/4	150 - 1,050	PN 16	10	1148506
DN 15	Rp 1/2	150 - 1,050	PN 16	10	1148704 °
DN 20	Rp 3/4	250 - 1,800	PN 25	10	1149306 ::
DN 25	Rp 1	400 - 2,500	PN 25	10	1149308 ::
DN 32	Rp 1 1/4	600 - 4,800	PN 25	5	1149310 ::
DN 15	Rp 1/2	200 - 1,300	PN 25	10	1149404 ::

Cocon QTZ with external thread, DN 15...20, with two mounted Classic measuring valves and mounted measuring orifice



PU		10			
Nominal size	Connection size	Control range (l/h)	Pressure rating	Item No.	
DN 15	G 3/4	30 - 210	PN 16	1144564 °	
DN 20	G 1	150 - 1,050	PN 16	1144566 °	
DN 15	G 3/4	150 - 1,050	PN 16	1144764 °	
DN 20	G 1	250 - 1,800	PN 25	1144966 ::	
DN 15	G 3/4	200 - 1,300	PN 25	1145064 ::	

Cocon QTR Valves DN 40 and DN 50



Pressure independent control valve for dynamic hydronic balancing of heat exchangers, for example fan coils or air conditioning units and distribution pipes in heating and cooling systems with closed circuits. The valve combination consists of an automatically operating flow controller and a control valve and can be equipped with an actuator. Installation in the supply or the return pipe. Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct setting in m³ per

hour. Readability of the set value independent of the handwheel position.

Valve body and parts coming into contact with the medium made of bronze, dezincification resistant brass, stainless steel, EPDM or PTFE. Maintenance-free spindle sealing. Supplied with two Classic measuring valves.

Cocon QTR are characterised by easy adjustability, compact dimensions and best control quality.

Body material	Bronze	Medium	Water
Presetting	Yes		Water-glycol mixture
Shutoff	Yes	Measuring connection	Classic
Connection actuator	Yes	Measuring valves	Classic
Operating temperature	-10 up to 120 °C	Installation location	Supply or return



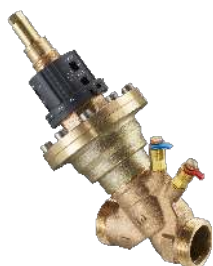
Cocon QTR with internal thread PN 25, DN 40...50, with two mounted Classic measuring valves



Nominal size	Connection size	Control range (m ³ /h)	PU	Item No.
DN 50	Rp 2	3.5 up to 14		1143116
DN 40	Rp 1 1/2	1.5 up to 7.5	50	1146112

Cocon QTR with external thread PN 16, DN 40...DN50, with two mounted Classic measuring valves

Flat sealing, without union nut and sealing ring.



Nominal size	Connection size	Control range (m ³ /h)	Item No.
DN 40	G 1 3/4	1.5 up to 7.5	1146172
DN 50	G 2 3/8	2.5 up to 10	1146174

Cocon Q Valves with flanges



Pressure independent control valve for dynamic hydronic balancing of heat exchangers, for example air conditioning units and distribution pipes in heating and cooling systems with closed circuits. The valve combination consists of an automatically operating flow controller and a control valve and can be equipped with an actuator. Installation in the supply or the return pipe.

Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct setting in m³ per hour. Readability of the set value

independent of the handwheel position.

Valve body made of cast iron or nodular cast iron, parts coming into contact with the medium made of cast iron, nodular cast iron, bronze, dezincification resistant brass, stainless steel, EPDM or PTFE. Maintenance-free spindle sealing. Supplied with two Classic measuring valves.

Cocon QFC and QGC are characterised by easy adjustability, compact dimensions and best control quality.

Presetting	Yes	Measuring connection	Classic
Shutoff	Yes	Measuring valves	Classic
Connection actuator	Yes	Installation location	Supply or return
Operating temperature	-10 up to 120 °C		
Medium	Water		
	Water-glycol mixture		

Cocon QFC with flanges according to EN 1092-2 PN 16, DN 40...200, with two mounted Classic measuring valves



Body material Cast iron

Nominal size	Control range (m ³ /h)	PU	Item No.
DN 40	1.5 up to 7.5		1146149
DN 50	2 up to 8		1146150
DN 65	5 up to 20	16	1146151
DN 80	7.5 up to 30	16	1146152
DN 100	12.5 up to 50	16	1146153
DN 125	27 up to 108	5	1146154
DN 150	36 up to 150	4	1146155
DN 200	55 up to 190		1146156

Cocon QFC with flanges according to EN 1092-2 PN 25, DN 40...200, with two mounted Classic measuring valves



Nominal size	Body material	Control range (m ³ /h)	Item No.
DN 40	Cast iron	1.5 up to 7.5	1146649
DN 50	Cast iron	2 up to 8	1146650
DN 65	Nodular cast iron	5 up to 20	1146651
DN 80	Nodular cast iron	7.5 up to 30	1146652
DN 100	Nodular cast iron	12.5 up to 50	1146653
DN 125	Nodular cast iron	27 up to 108	1146654
DN 150	Nodular cast iron	36 up to 150	1146655
DN 200	Nodular cast iron	55 up to 190	1146656



Cocon QFC with flanges PN 16 with hole circles according to ANSI class 150, 1 1/2...8 inch (DN 40...200), with two mounted Classic measuring valves

Body material Cast iron

Nominal size	Control range (m ³ /h)	Item No.
DN 40 - 1 1/2	1.5 up to 7.5	1676149
DN 50 - 2	2 up to 8	1676150
DN 65 - 2 1/2	5 up to 20	1676151
DN 80 - 3	7.5 up to 30	1676152
DN 100 - 4	12.5 up to 50	1676153
DN 125 - 5	27 up to 108	1676154
DN 150 - 6	36 up to 150	1676155
DN 200 - 8	55 up to 190	1676156



Cocon QGC with grooves PN 25, DN 65...100, with two mounted Classic measuring valves

Body material Cast iron

Nominal size	Connection size	Control range (m ³ /h)	Item No.
DN 65	73.0	5 up to 20	1676351 ::
DN 80	88.9	7.5 up to 30	1676352 ::
DN 100	114.3	12.5 up to 50	1676353 ::

Cocon QDP Control valves with differential pressure regulator



Differential pressure regulator with flow limitation and zone control for installation in heating and cooling systems.

The valve combination can be equipped with and actuator or a manual regulating head. In addition, the maximum differential pressure is limited via the control zone. Installation only in the return pipe.

Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct set-

ting of the flow rate in litres per hour. The nominal differential pressure value is fixed at the factory.

Valve body and parts coming into contact with the medium made of dezincification resistant brass. Maintenance-free spindle sealing.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass
Presetting	Yes
Shutoff	Yes
Connection actuator	M 30 x 1.5
Operating temperature	-10 up to 120 °C

Medium	Water
	Water-glycol mixture
Installation location	Return
PU	10



Cocon QDP with external thread PN 25, DN 20...25

Nominal size	Connection size	Flow range (l/h)	Item No.
DN 20	G 1	up to 1,350	1144606
DN 25	G 1 ¼	up to 1,540	1144608

Cocon Accessories and spare parts



Thermal insulation shell for Cocon QTZ PN 16

Thermal insulation consisting of two shells for heating and cooling systems. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Operating temperature: -10 to +120 °C. Cold insulation: Min. medium temperature 6 °C, shells have to be bonded hermetically. Restricted diffusion tightness at low medium temperature and at high ambient temperature and/or air humidity.

Description	Item No.
DN 15 and DN 20, except for variant 180 to 1,300 l/h	1149104
DN 20, variant 180 to 1,300 l/h	1149106
DN 25 and DN 32	1149108



Adapter with spindle

Is required if Cocon QTZ valves are to be equipped with thermal insulation shells and actuators. Extension = 25 mm.

PU	10
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Description	Item No.
Spindle extension 25 mm	1149190



Adapter for actuators of other manufacturers

Adapter sets for actuators of other manufacturers on Cocon QTR, QFC and QGC up to DN 200.

Description	PU	Item No.
For Siemens actuators SAX61.03 on Cocon QTR, QFC and QGC DN 40...100 and SKC60 to Cocon QFC DN 65...200	10	1149011 °
For Honeywell actuators ML7420A6009 or ML7421A3004 on Cocon QFC and QGC DN 65...100 and ML7421B3003 to Cocon QFC DN 125...200	10	1149021 °
For Johnson Controls actuators VA1125-GGA-1 and VA7810-GGA-12	10	1149031 °
For Belimo actuator AV24-MFT on Cocon QTR, QFC and QGC DN 40...200	10	1149041 °
Adapter rotary movement	25	1149095

OV Flex HC Flexible hose line

Diffusion-inhibiting, flexible hose line made of EPDM with stainless steel wire braiding.

PU	100
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Description	Item No.
PN 10, one side G 3/4 union nut, conically sealing, one side plug-in fitting for copper pipe according to EN 1057, length: 500 mm, medium temperature: 0 °C to 70 °C	1140352 °
PN 16, both sides G 3/4 union nut, flat sealing, length: 610 mm, medium temperature: 0 °C to 80 °C	1140451 °
PN 16, both sides G 1 union nut, flat sealing, length: 610 mm, medium temperature: 0 °C to 80 °C	1140452 °
PN 10, one side G 3/4 union nut, flat sealing, one side plug-in fitting for copper pipe according to EN 1057, length: 500 mm, medium temperature: 0 °C to 70 °C	1140552 °

FSA Fill and shutoff device for cooling ceilings



Operating temperature	-10 up to 120 °C	PU	10
Installation location	Supply or return		

Nominal size	Connection size	Item No.
DN 15	Rp 1/2	1149004 °
























2.2 Hydronic balancing with pressure independent control valves

Actuators	289
Aktor T Electrothermal actuators.....	292
Aktor T Accessories and spare parts.....	293
Aktor M Electromotive actuators.....	294
Aktor M Accessories.....	297













Actuators for small control valves

Product family	Hycocn		Cocon Small valves up to DN 32			Control valves
						
	ETZ	HTZ	QTZ PN16	QTZ PN25	QDP	Tri CTR
DN	15...25	15... 25 32 40	10... 20 25... 32	10,15 LF 10... 32	20...25	15...50
Item no.	106836. 106846.	10685.. 10686..	1145., 1146., 11475., 1148.	1143., 1147., 1149.	1144606 1144608	11312..
PN	16	16	16	25	25	16
Connection	M30x1.5	M30x1.5	M30x1.5	M30x1.5	M30x1.5	M30x1.5
Closing force [mm]	11.8	11.8	11.8	11.8	11.8	—
Δp max [bar]	1	5 3 2	4	6	4	—
Valve stroke [mm]	2.2	3 4 4	2.8 3.5 4	2,8 4	4	2.8
Upper stroke position [mm]	≥14.0	≥15.8	≥14.6 — ≥15.8	≥14.6 ≥15.8	≥15.8	≥14.6
Lower stroke position [mm]	≤11.3	≤11.3	≤11.3	≤11.3	≤11.3	≤11.3
Closing force [N] min...max	90...150	90...150	90...150	90...150	90...150	90...150
Valve characteristic line						

Item	Item no.	Model							
Electrothermal actuators with M30 x 1.5 connection									
	Aktor T 2P H NC	1012415	NC, 230VAC, two point	—	With adapter 1012462	●	●	●	●
		1012452	With 2 m connecting cable	—	With adapter 1012462	●	●	●	●
		1012455	With 5 m connecting cable	—	With adapter 1012462	●	●	●	●
		1012459	With 10 m connecting cable	—	With adapter 1012462	●	●	●	●
		1012435	With auxiliary switch	—	With adapter 1012462	●	●	●	●
		Aktor T 2P H NO	1012425	NO, 230VAC, two point	With adapter 101 24 62	With adapter 1012462	●	●	●
	Aktor T 2P L NC	1012416	NC, 24VAC, two point	—	With adapter 1012462	●	●	●	●
		1012442	With 2 m connecting cable	—	With adapter 1012462	●	●	●	●
	Aktor T 2P L NO	1012426	NO, 24VAC, two point	—	With Adapter 1012462	●	●	●	●
	Aktor T 2P M NC	1012420	NC, 120VAC, two point	—	With adapter 1012462	●	●	●	●
	Aktor T ST L NC	1012953	NC, 24VAC, steady 0...10V	Control stroke ≥ effective valve stroke	Control stroke ≥ effective valve stroke	Control stroke ≥ effective valve stroke	Control stroke ≥ effective valve stroke	Control stroke ≥ effective valve stroke	Control stroke ≥ effective valve stroke
Electromotive actuators with M30 x 1.5 connection									
	Aktor M 2P H	1012710	High-speed, 230VAC, 2 point	●	●	●	●	●	●
		1012711	High-speed, 24VAC, 2 point	●	●	●	●	●	●
	Aktor M 3P H	1012729	230VAC, 3 point	●	●	●	●	●	●
	Aktor M ST L	1012725	24VAC/DC, steady 0...10V, 2/3 point	●	●	●	●	●	●
		1012726	24VAC/DC, steady 0...10V, with position feedback	●	●	●	●	●	●
		1012717	24VAC/DC, steady 0...10V, with position feedback	●	●	●	●	●	●
	Aktor M ST L	1012745	24VAC/DC, Modbus	—	—	●	●	—	—
	Aktor M KNX	1012746	21...23VDC SELV, KNX	●	●	●	●	●	●

Actuators for large and flanged control valves

Product family	Cocon Large and flanged valves from DN 40					Control valves	
							
	QTR	QFC	QGC	QGC	2/3-way valves		
DN	40, 50	40, 50	65...100	125...200	65...100	15...50	65...150
Item no.	11461.. 1143116	11461.. 11466..	114615. 114665.	114615. 114665.	167635.	11308.. 16708..	11308.. 16708..
PN	16/25	16/25	16/25	16/25	25	16	16
Connection	Squeeze	Squeeze	Squeeze	Squeeze	Squeeze	Squeeze	Squeeze
Δp max [bar]	4/6	4	4	4	4	0.7...12.1	0.7...12.1
Valve stroke [mm]	10	10	20	36/40	20	10	30/40
Closing force [N]	500/ 800/ 1.000	500/ 800/ 1.000	800/ 1.000/ 1.200	800/ 1.000/ 1.200	800/ 1.000	500	2.000
Valve characteristic line							

Item	Item no.	Model							
 Aktor M ST L	1158011	24VAC, steady 0...10V, 2/3 point without adapter, for control valves 2/3-way valves	—	—	—	—	—	●	—
 Aktor M ST L	1158012	24VAC, steady 0...10V, 2/3 point with adapter for Cocon QTR DN40 and 50	●	●	—	—	—	—	—
	1158013	24VAC, steady 0...10V, 2 point with adapter for Cocon QTR DN40 and 50 with emergency control function	●	●	—	—	—	—	—
	1158014	24VAC, Modbus, with adapter for Cocon QTR DN40 and 50	●	●	—	—	—	—	—
 Aktor M ST L	1158020	24VAC, steady 0...10V, 2/3 point	●	●	●	—	●	—	—
	1158021	Additionally with spring return, valve opens	●	●	●	—	●	—	—
	1158022	Additionally with spring return, valve closes	●	●	●	—	●	—	—
 Aktor M ST L	1158030	24VAC, steady 0...10V, 2/3 point	—	—	—	●	—	—	●
	1158031	Additionally with spring return, valve opens	—	—	—	●	—	—	●
	1158032	Additionally with spring return, valve closes	—	—	—	●	—	—	●

Aktor T Electrothermal actuators



Electrothermal actuators are used for heating, ventilation and air conditioning. The actuators can be used for room temperature control or as zone valves.

They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distributors/collectors, radiant heating ceilings, cooling ceilings and induction units in conjunction with two point

room thermostats.

All electrothermal actuators are protected against overvoltage, a varistor is not required.

Oventrop offers actuators in the variants "normally closed" and "normally open". The model with auxiliary switch can switch e.g. a pump directly via the integrated, potential-free contact.

Installation position	Any
Installation	Plug-in connection with valve adapter



Aktor T 2P two point control, connection thread M 30 x 1.5

Tension	Version	Cable* (m)	PU	Item No.
230 V	"Normally closed"	1	100	1012415
24 V	"Normally closed"	1		1012416
230 V	"Normally open"	1		1012425
24 V	"Normally open"	1		1012426
230 V	"Normally closed" with integrated auxiliary switch	1		1012435
24 V	"Normally closed"	2		1012442
230 V	"Normally closed"	2		1012452
230 V	"Normally closed"	5		1012455
230 V	"Normally closed"	10		1012459



Aktor T ST 0 - 10 V control, connection thread M 30 x 1.5

With automatic zero point and valve travel detection.

PU	500
----	-----

Tension	Version	Cable* (m)	Item No.
24 V AC	"Normally closed"	1	1012953

Aktor T Accessories and spare parts

Valve adapter

PU _____ 5



Description

Connection thread M 30 x 1.5

Connection thread M 30 x 1.5, high model (11 mm), necessary when using the actuators item no. 10124.. and 1012953 with Hycocan ETZ/HTZ or Multiblock T/TU/TFU/TQ and the design cover

For Oventrop valves with connection thread M 30 x 1.0 (manufactured until 1998)

Item No.

1012461

1012462

1012890

Reinforcing cap

Description

For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation

Item No.

1012450



2.2

Aktor M Electromotive actuators



Electromotive actuators are used for heating, ventilation and air conditioning. Amongst others, the actuators can be used for room temperature control. They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distribu-

tors/collectors (except for item no. 1012710 / 11), radiant heating ceilings, cooling ceilings and induction units.

Oventrop offers electromotive actuators with and without communication interfaces.



Aktor M steady control with 0 - 10 V, connection thread M 30 x 1.5

With the electrical emergency control function, the actuator moves to a predefined stroke position in the event of a supply voltage failure. Various characteristic lines can be set for Cocon QTZ (item no. 1012717, PN 25 only).

Cable*	1.5 m
Description	Modulating proportional actuator Automatic valve anti-blocking function Zero point detection Mode of operation adjustable

Electrical emergency control function	Additional two point / three point control	Position feedback	Tension	Item No.
Yes	No	Yes	24 V	1012717
No	Yes	No	24 V	1012725
No	No	Yes	24 V	1012726



Aktor M two point and three point control, connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation not adjustable Zero point detection

Tension	Item No.
230 V	1012729



Aktor M two point control, with short operating time (3 s), connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation adjustable

Tension	Item No.
230 V	1012710
24 V	1012711

Aktor M steady control with 0 - 10 V or two point control, squeeze connection

For Cocon QTR / QFC DN 40 / 50, including adapter.

Cable* 1.5 m Description Automatic valve anti-blocking function



Tension	Description	Item No.
24 V	Additionally for three point control, 10 mm stroke	1158012
24 V	Additionally with emergency control function (failsafe), 10 mm stroke	1158013

Aktor M steady control with 0 - 10 V or two point / three point control, squeeze connection

For two-way valve item no. 11308.. and 16708.. DN 15 to DN 50.

Cable* 1.2 m

Description Automatic valve anti-blocking function
With position feedback signal 0 - 10 V
Characteristic line adjustable (linear, equal percentage)



Tension	Item No.
24 V	1158011

Aktor M steady control with 0(2) - 10 V or three point control, squeeze connection

For Cocon QTR / QFC DN 40 to DN 100.

Description Characteristic line linear
20 mm stroke with adapter
With position feedback signal 0 - 10 V



Tension	Item No.
24 V	1158020

Aktor M steady control with 0(2) - 10 V resp. 0(4) - 20 mA or two point / three point control, squeeze connection

For Cocon QTR / QFC DN 40 to DN 100.

Description 20 mm stroke, spring return and adapter
With position feedback signal 0 - 10 V
Characteristic line linear



Tension	Description	Item No.
24 V	Normally opening	1158021
24 V	Normally closing	1158022



Aktor M steady control with 0 - 10 V, 4 - 20 mA or two point / three point control, squeeze connection

For Cocon QFC DN 125 to DN 200 and two-way valves DN 65 to DN 150.

Description Characteristic line adjustable (linear, square-law, equal percentage)
 With position feedback signal 0 - 10 V

Tension	Description	Item No.
24 V	40 mm stroke with adapter	1158030
24 V	Normally opening 40 mm stroke, spring return and adapter	1158031
24 V	Normally closing 40 mm stroke, spring return and adapter	1158032



Aktor M with KNX interface, connection thread M 30 x 1.5

Power consumption extremely low, no external power supply necessary. With integrated binary input (e.g. for window contact, dew point sensor, motion detector).

PU 120

Tension	Item No.
24 V (from KNX bus)	1012746



Aktor M with Modbus RTU interface, connection thread M 30 x 1.5

Various parameters can be configured and/or read out via Modbus RTU (e.g. volume flow, valve characteristic line, sensor type, operating hours, operating and fault messages). Two universal inputs/outputs enable the connection of temperature sensors, window contacts and humidity sensors, as well as the control of 0 - 10 V rotary actuators.

Cable* 1.5 m

Description Zero point detection
 With control signal (0 - 100 %)
 Automatic valve anti-blocking function

Tension	Description	Item No.
24 V	For Cocon QTZ	1012745
24 V	For Cocon QTR / QFC DN 40 / 50	1158014

Aktor M Accessories



Connection module 230 V

For Aktor M 24 V (item no. 1158030 / 31 / 32).

Description

For connection to the supply voltage (230 V), pluggable module

Item No.

1158033



2.2

Resistor 0 / 4 mA

For Aktor M 0 - 10 V (item no. 1158020).

Description

For a conversion of the control to 0 / 4 mA instead of 0 - 10 V, mountable module

Item No.

1158025 °





2.3 Connection and control of heating and cooling devices



Optibal W6 Control ball valve **299**

Optibal W6 Six-way ball valves.....	301
Optibal W6 Accessories and spare parts.....	302

Flypass Connection sets **303**

Flypass 4TZ Basic fitting.....	305
Flypass sets.....	306
Flypass Accessories.....	308

Tri-CTR Three-way valves **309**

Tri-CTR Three-way diverting and mixing valves.....	310
Temperature controllers.....	311
Two-/three-way valves with flanges.....	312

Hycococon Control valves **313**

Hycococon ETZ Two-way valves.....	314
Hycococon HTZ Two-way valves with high flow rate.....	315
Hycococon ETZ and HTZ Accessories.....	316

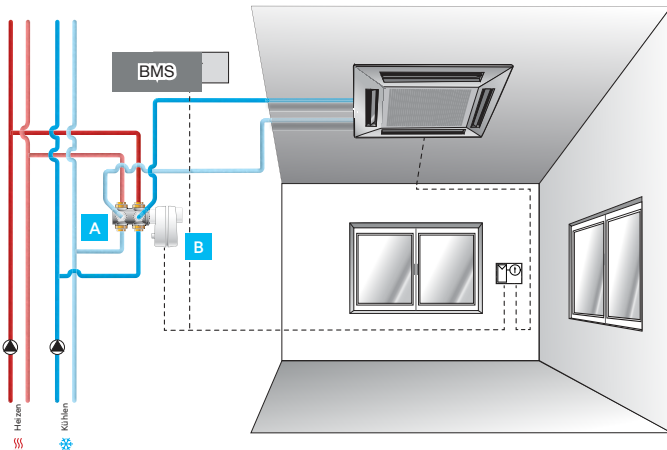


2.3 Connection and control of heating and cooling devices

Optibal W6 Control ball valve	299
Optibal W6 Six-way ball valves.....	301
Optibal W6 Accessories and spare parts.....	302



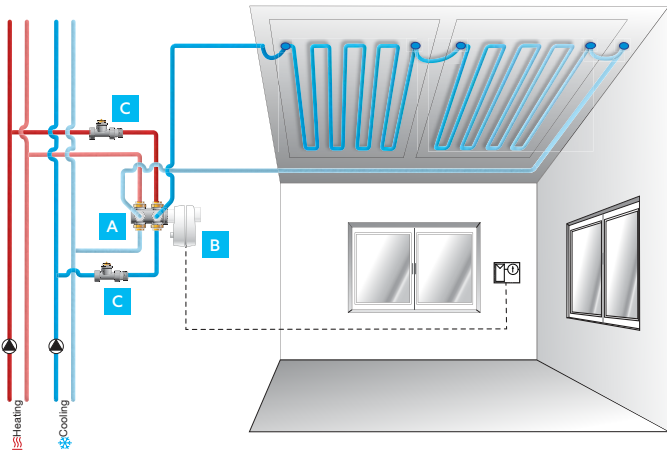
Optibal W6 Application examples



Control of a four pipe system with Optibal W6

Optibal W6 as change-over and control ball valve with Kvs orifices. Can also be integrated into the building management system (BMS).

- A** Optibal W6 Six-way ball valve
- B** Aktor R ST L Rotary actuator

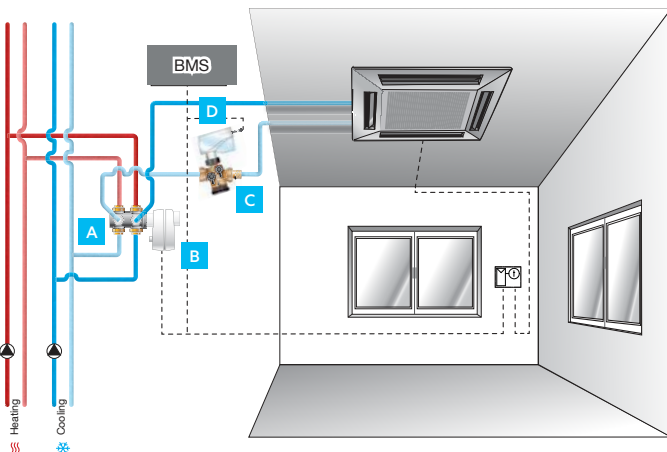


Four pipe system with Optibal W6 and automatic flow limitation with AQ valves

The **AQ** has a combined control and regulation function. This allows for automatic hydronic balancing in heating and cooling mode in any position of the six-way ball valve.

This means that the volume flow in the consumer is kept constant, regardless of pressure fluctuations in the system. The presetting at the **AQ** valves, which are installed in the supply of the heating and cooling circuit, allows the volume flow to be set and regulated to a maximum value.

- A** Optibal W6 Six-way ball valve
- B** Aktor R ST L Rotary actuator
- C** AQ Valve (one each for heating and cooling)



Four pipe system with Optibal W6 and pressure independent control valve Cocon QTZ

For larger volume flows, **Cocon QTZ** control valves can also be used instead of **AQ** valves. The **Cocon QTZ** is installed in the return of the consumer for automatic hydronic balancing.

In this application, the room temperature is controlled via the actuator on the **Cocon QTZ**. The actuator on the **Optibal W6** the only works as change-over valve and the kvs orifices are not required.

- A** Optibal W6 Six-way ball valve
- B** Aktor R ST L Rotary actuator
- C** Cocon QTZ Pressure independent control valve
- D** Aktor M ST L Electromotive actuator

Optibal W6 Six-way ball valves



Six-way ball valve for switching between cooling and heating in a four pipe system by means of the Aktor R ST L electromotive rotary actuator. The six-way ball valve can be used to control the flow rates via the angle of rotation. In conjunction with kvs orifices, cooling and heating circuits can be limited independently of each other. Body made of dezincification resistant brass.

Pipe connection DN 15 external thread with Eurocone according to EN 16313, DN 20 external thread with internal cone. Kvs orifices 0.25 / 0.4 / 0.63 / 1 / 1.6 and 2.5 available as accessories.

Suitable connection fittings see section "Connection technology".

Body material	DZR brass	kvs	3.20
Operating temperature	0 up to 90 °C		
Medium	Water Water-glycol mixture		



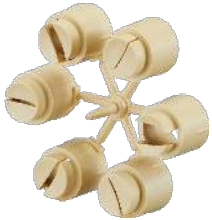
2019



Optibal W6 with external thread with internal cone PN 16, DN 15...20

Nominal size	Connection size	PU	Item No.
DN 15	G 3/4		1132004
DN 20	G 1	10	1132006

Optibal W6 Accessories and spare parts



Kvs orifice set

Orifices made of high quality plastic for flow limitation. The orifices feature a control contour which allows for a linear up to equal percentage linear flow control via the rotary actuator.

Kvs values: 0.25 / 0.4 / 0.63 / 1.0 / 1.6 and 2.5

PU 10

Description

Kvs orifice set (2 x)

Item No.

1132020



Aktor RST L

Rotary actuator for Optibal W6 six-way ball valve. 24 V, proportional control with 0 - 10 V or two point control via 24 V forced control. With position feedback signal 0 - 10 V. Torque: 5 Nm. Angle of rotation: 90°. With manual adjustment.

Description

For DN 15 and DN 20

Item No.

1132030



2.3 Connection and control of heating and cooling devices

Flypass Connection sets **303**

Flypass 4TZ Basic fitting.....	305
Flypass sets.....	306
Flypass Accessories.....	308

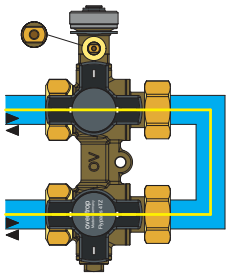




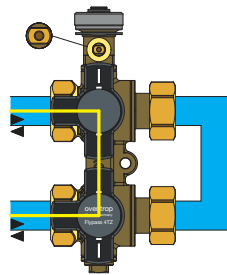
Flypass 4TZ Application example

Flypass set consisting of **Flypass 4TZ** basic fitting, **Cocon QTZ** pressure independent control valve with **Aktor M** actuator and strainer

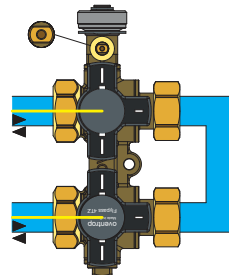
Flypass 4TZ Functions



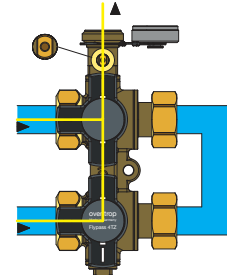
Normal mode



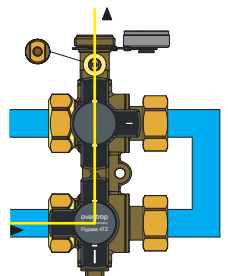
Bypass mode



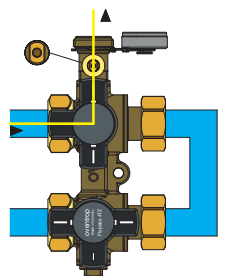
Shutting-off



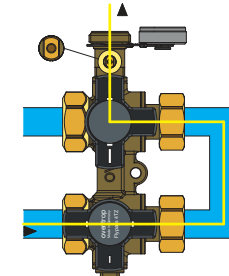
Filling and venting of the system side



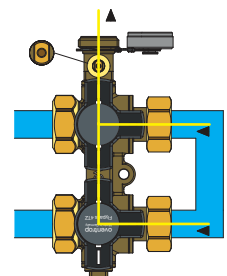
Draining of the system and appliance side, venting and flushing of the system side



Draining, venting and flushing of the system side

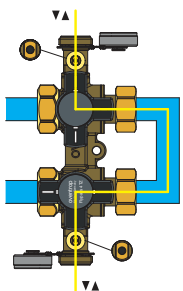


Filling and flushing of the appliance side

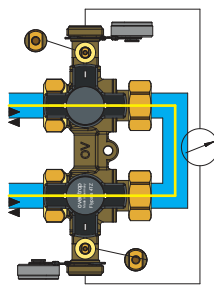


Shutting off and draining of the appliance side

Functions with accessories



Re-filling, venting and flushing of the appliance side with second fill and



Differential pressure measurement e.g. with **OV-DMC 3**

Flypass 4TZ Basic fitting



Connection fitting for shutting off, flushing, draining and venting the upstream supply and return pipes or the downstream system components, for example fan coil units or cooling ceiling modules. Convertible to bypass mode. The flow paths can be identified by the handle shape. For combination with other control and func-

tion valves. Basically, all flat-sealing Oventrop valves of the corresponding nominal sizes with G 3/4 external thread (DN 15) or G 1 external thread (DN 20) can be combined with the Flypass 4TZ. The adapter item no. 1149075 (DN 15) or 1149076 (DN 20) is required for mounting valves with internal thread.

Body material	DZR brass	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	Yes		Water-glycol mixture
Position indicator	Yes		



Flypass 4TZ with internal thread and union nut with sealing ring, flat sealing PN 16, DN 15...20



Nominal size	kvs	Item No.
DN 15	22.00	1149504
DN 20	34.00	1149506

Flypass sets



Flypass set with Cocon QTZ pressure independent control valve PN 16

Flypass set consisting of a Flypass 4TZ basic fitting with strainer and a Cocon QTZ pressure independent control valve. The set is delivered completely pre-assembled, function and pressure tested.

Nominal size	Control range (l/h)	Consisting of	PU	Item No.
DN 15	30 - 210	Flypass 4TZ Connection fitting Strainer Cocon QTZ Set of inserts (2 pieces)	110	1149450
DN 15	90 - 450	Flypass 4TZ Connection fitting Strainer Cocon QTZ Set of inserts (2 pieces)	110	1149550
DN 20	150 - 1,050	Flypass 4TZ Connection fitting Strainer Cocon QTZ Set of inserts (2 pieces)	110	1149551
DN 25	300 - 2,000	Flypass 4TZ Connection fitting Strainer Cocon QTZ	72	1149552
DN 15	30 - 210	Flypass 4TZ Connection fitting Strainer Cocon QTZ Measuring orifice Internally threaded tailpipe set (2 pieces)		1149553
DN 20	180 - 1,300	Flypass 4TZ Connection fitting Strainer Cocon QTZ Measuring orifice Internally threaded tailpipe set (2 pieces)		1149554
DN 15	150 - 1,050	Flypass 4TZ Connection fitting Strainer Cocon QTZ Set of inserts (2 pieces)	105	1149650
DN 20	180 - 1,300	Flypass 4TZ Connection fitting Strainer Cocon QTZ Set of inserts (2 pieces)		1149651

Flypass set with Hydrocontrol double regulating and commissioning valve

Flypass set consisting of a Flypass 4TZ basic fitting with strainer and a HydroControl double regulating and commissioning valve. The set is delivered completely pre-assembled, function and pressure tested.



Nominal size	Consisting of	Item No.
DN 15	Flypass 4TZ Connection fitting Strainer HydroControl VTR Double regulating and commissioning valve	1149560 °
DN 20	Flypass 4TZ Connection fitting Strainer HydroControl VTR Double regulating and commissioning valve	1149561 °
DN 15	Flypass 4TZ Connection fitting Strainer Hydrocontrol MTR Double regulating and commissioning valve with measuring orifice LF model (low flow) Internally threaded tailpipe set (2 pieces)	1149562
DN 15	Flypass 4TZ Connection fitting Strainer Hydrocontrol MTR Double regulating and commissioning valve with measuring orifice HF model (high flow) Internally threaded tailpipe set (2 pieces)	1149563
DN 20	Flypass 4TZ Connection fitting Strainer Hydrocontrol MTR Double regulating and commissioning valve with measuring orifice Internally threaded tailpipe set (2 pieces)	1149564



Flypass Accessories



Thermal insulation shell made polyurethane rigid foam with polystyrene shell

For Flypass set 1, except for item no. 1149651-54.

For Flypass set 2, except for item no. 1149562-64.

Thermal insulation consisting of two shells for heating and cooling systems. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B2 according to DIN 4102. Operating temperature: -10 °C to +120 °C.

Cold insulation: Min. medium temperature 6 °C, shells have to be bonded hermetically. Restricted diffusion tightness at low medium temperature and at high ambient temperature and/or air humidity.

Description	Item No.
For DN 15 and DN 20	1149581

2.3



Thermal insulation shell made of expanded polypropylene

Suitable for Flypass set 1, except for item no. 1149553-54.

For heating systems. Operating temperature: up to 110 °C. Not diffusion tight.

Description	Item No.
For DN 15 and DN 20	1149580
For DN 25	1149582



2.3 Connection and control of heating and cooling devices

Tri-CTR Three-way valves **309**

Tri-CTR Three-way diverting and mixing valves.....	310
Temperature controllers.....	311
Two-/three-way valves with flanges.....	312



Tri-CTR Three-way diverting and mixing valves



Tri-CTR with external thread PN 16, DN 15...50

Flat sealing, with union nuts and sealing rings.

Can be used as a diverting or mixing valve. For use as a diverting valve, the Tri-CTR has one inlet (AB) and two outlets (A and B). The medium flowing through is diverted from one outlet to the other depending on the position of the valve insert. For use with actuators or temperature controllers.

For use as a mixing valve, the Tri-CTR has two inlets (A and B) and one outlet (AB). The medium flowing through is mixed depending on the position of the valve insert. Tri-CTR valves can be used for high differential pressures.

Valve body made of bronze, all parts coming into contact with the medium made of brass, stainless steel or plastic. Union nuts and sealing rings are included in the scope of delivery.

Body material	Bronze	Medium	Water
Connection actuator	M 30 x 1.5		Water-glycol mixture
Operating temperature	-10 up to 120 °C		

Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 3/4	2.50	10	1131204
DN 20	G 1	4.40	10	1131206
DN 25	G 1 1/4	5.70	10	1131208
DN 32	G 1 1/2	7.20	5	1131210
DN 40	G 2	8.50	5	1131212
DN 50	G 2 3/8	10.00	5	1131216

Threaded tailpipe set for Tri-CTR (3 pieces)



Nominal size	Connection size	PU	Item No.
DN 15	R 1/2	10	1130291
DN 20	R 1/2	10	1130292
DN 20	R 3/4	10	1130293
DN 25	R 1	10	1130294
DN 40	R 1 1/4	5	1130295
DN 40	R 1 1/2	5	1130296
DN 50	R 2	5	1130298
DN 32	R 1 1/4	5	1130299

Temperature controllers



Connection thread M 30 x 1.5. Application: Water, maximum sensor temperature 30 K above the set value. For industrial systems, water heaters, air heaters, heating cabinets, dishwashers, surface heating, etc. The setting range can be limited and blocked. For flow temperature limitation in surface heating systems, a Combi LR throttle valve is additionally required (see section "Room climate").

Selection Combi LR:

- up to 85 m²: DN 15 three-way valve and DN 20 Combi LR
- up to 115 m²: DN 20 three-way valve and DN 25 Combi LR



Temperature controller with immersion sensor and immersion sleeve G 1/2



Control range (°C)	Length capillary* (mm)	Item No.
20 up to 50	2,000	1140561
40 up to 70	2,000	1140562
50 up to 80	2,000	1140563
70 up to 100	2,000	1140564
20 up to 50	5,000	1140571
40 up to 70	5,000	1140572
70 up to 100	5,000	1140574

Immersion sleeve



Description	Item No.
Immersion sleeve, loose, G 1/2, brass	1141091

Temperature controller with contact sensor and heat conducting base



Control range (°C)	Length capillary* (mm)	PU	Item No.
20 up to 50	2,000	528	1142861
30 up to 60	2,000		1142862
40 up to 70	2,000	500	1142863
50 up to 80	2,000	500	1142864

Two-/three-way valves with flanges



Two-way valve for use in central heating and cooling systems with closed circuits.
 DN 15 to DN 50: metal to metal seal between cone and seat, DN 65 to DN 150: soft sealing with EPDM seal between cone and seat. The

centre spigot is closed with a blind flange. The valve can be used as a three-way valve (mixing and diverting) when the blind flange is removed.

Body material	Cast iron	Medium	Water
Connection actuator	Squeeze connection		Water-glycol mixture
Operating temperature	0 up to 130 °C	Installation location	Supply or return



Flanges according to EN 1092-2 PN 16, DN 15...150



Nominal size	kvs	Item No.
DN 15	2.50	1130845
DN 20	6.30	1130846
DN 25	10.00	1130847
DN 32	16.00	1130848
DN 40	25.00	1130849
DN 50	35.00	1130850
DN 65	63.00	1130851
DN 80	100.00	1130852
DN 100	160.00	1130853
DN 125	220.00	1130854
DN 150	320.00	1130855
DN 15	1.60	1130865
DN 20	4.00	1130866
DN 15	1.00	1130875

Flanges PN 16 with hole circles according to ANSI class 150, 2 ½...6 inch (DN 65...150)



Nominal size	kvs	Item No.
DN 65 - 2 ½	63.00	1670851 °
DN 80 - 3	100.00	1670852 °
DN 100 - 4	160.00	1670853 °
DN 125 - 5	220.00	1670854 °
DN 150 - 6	320.00	1670855 °



2.3 Connection and control of heating and cooling devices

Hycoccon Control valves	313
Hycoccon ETZ Two-way valves.....	314
Hycoccon HTZ Two-way valves with high flow rate.....	315
Hycoccon ETZ and HTZ Accessories.....	316



Hycococon ETZ Two-way valves



Body material	DZR brass	Operating temperature	-10 up to 120 °C
Presetting	Yes	Medium	Water
Shutoff	Yes		Water-glycol mixture
Draining	Extendable	Installation location	Supply or return
Measuring connection	Eco	PU	10
Connection actuator	M 30 x 1.5		



Hycococon ETZ with internal thread PN 16, DN 15...25

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Nominal size	Connection size	kvs	Item No.
DN 15	Rp 1/2	1.00	1068364
DN 20	Rp 3/4	1.20	1068366
DN 25	R 1	1.20	1068368

Hycococon ETZ with external thread PN 16, DN 15...25

Flat sealing, with union nut and sealing ring.



Nominal size	Connection size	kvs	Item No.
DN 15	G 3/4	1.00	1068464 °
DN 20	G 1	1.20	1068466 °
DN 25	G 1 1/4	1.20	1068468 °

Hycococon ETZ with external thread PN 16, DN 15...20, without union nuts

Flat sealing, without union nut and sealing ring.



Nominal size	Connection size	kvs	Item No.
DN 15	G 3/4	1.00	1063964 °
DN 20	G 1	1.20	1063966 °

Hycococon HTZ Two-way valves with high flow rate



Body material	DZR brass	Connection actuator	M 30 x 1.5
Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	Extendable		Water-glycol mixture
Measuring connection	Eco	Installation location	Supply or return



Hycococon HTZ with internal thread PN 16, DN 15...40

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	1.70	10	1068564
DN 20	Rp 3/4	2.70	10	1068566
DN 25	Rp 1	3.60	10	1068568
DN 32	Rp 1 1/4	6.80	5	1068570
DN 40	Rp 1 1/2	10.00	5	1068572

Hycococon HTZ with external thread PN 16, DN 15...40

Flat sealing, with union nut and sealing ring.



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 3/4	1.70	10	1068664 °
DN 20	G 1	2.70	10	1068666 °
DN 20 HF	G 1	5.00	10	1068667 °
DN 25	G 1 1/4	3.60	10	1068668 °
DN 32	G 1 1/2	6.80	5	1068670 °
DN 40	G 1 3/4	10.00	5	1068672 °

Hycococon HTZ with external thread PN 16, DN 15...20, without union nuts

Flat sealing, without union nut and sealing ring.



PU 10

Nominal size	Connection size	kvs	Item No.
DN 15	G 3/4	1.70	1064264 °
DN 20	G 1	2.70	1064266 °
DN 20 HF	G 1	5.00	1064267 °

Hycococon ETZ and HTZ Accessories



Conversion valve insert for Hycococon DN 15 to DN 25

Hycococon VTZ, ATZ, ETZ and HTZ DN 15 to DN 25 can be retrofitted with the valve inserts listed below. This can be done with the Oventrop Demo-Bloc special tool under system pressure. Depending on the valve insert used, further accessories are necessary, for example an actuator or thermostat.

PU 100

Description	Item No.
For Unibox and RTLH valves, M 30 x 1.5	1026981
For KTB valves, opens when the sensor temperature rises	1147169
For PTB valves and Cocon 2TZ, DN 15, kvs = 0.45	1186052
For PTB valves and Cocon 2TZ, DN 15, kvs = 1.00	1186053
For Cocon 2TZ, DN 15, kvs = 1.80	1186054
For A thermostatic valves (especially for steam systems), M 30 x 1.5	1186200
For Combi LR with cap for Hycococon valves	1187071
For F thermostatic valves, M 30 x 1.5, kv = 0.32	1187352



Replacement valve insert for Hycococon

PU 10

Description	Item No.
For Hycococon HTZ, DTZ, VTZ and VPZ, DN 32	1067066
For Hycococon HTZ, DTZ, VTZ and VPZ, DN 40	1067067
For Hycococon HTZ and DTZ DN 15...25	1067085

Hycococon HTZ Presetting set

PU 10



Description	Item No.
Presetting set for Hycococon HTZ	1068585



2.4 Differential pressure measurement and verification of water quantities

OV Measuring system	319
OV-DMC 3 Measuring device.....	320
OV-Connect Differential pressure sensor.....	321
Accessories - OV Measuring system.....	322
Measuring orifices	324
Measuring orifices.....	325





2.4 Differential pressure measurement and verification of water quantities

OV Measuring system 319

OV-DMC 3 Measuring device.....	320
OV-Connect Differential pressure sensor.....	321
Accessories - OV Measuring system.....	322



OV-DMC 3 Measuring device



System for flow measurement at valves and for regulation of heating and cooling systems. For use with all Oventrop products equipped with Classic or Eco measuring valves or HydroPort auxiliary valves: HydroControl, HydroCom, Cocon, Hycoccon and measuring orifices. With interfaces for communication with commercially available smartphones and tablets using the Oventrop app for convenient measuring and logging. The data determined with the OVplan and OVselect calculation programmes can be accessed.

After entering the valve data and the desired flow rate, a calculation of the presetting for Oventrop double regulating and commissioning valves is possible. The permanent recording of differential pressure and flow rate is also possible. The optional connection of two temperature sensors, for example for supply and return, enables direct performance calculation. The OV-DMC 3 is supplied in a sturdy case with all necessary adapters for connection to Oventrop valves. Smartphone or tablet are not included in the scope of delivery.

Operating temperature -20 up to 120 °C



OV-DMC 3 Measuring system



Item No.

1069278



OV-Connect Differential pressure sensor



Differential pressure transducer for permanent differential pressure monitoring at Oventrop products with Classic measuring technique in heating and cooling systems operated with water or water-glycol mixtures. The differential pressure is taken via the measuring needles and the copper pipes at the measuring valves of the product to be measured. In operation, the differential pressure transducer pro-

vides an output signal (0 to 10 V) proportional to the measured differential pressure. This signal can be used by a higher-level electronic control and monitoring unit of a building management system (BMS) or by individual devices (e.g. pressure indicators). For central heating and cooling systems as well as potable water installations (circulation pipes) up to PN 25. Installation in the supply or the return pipe.

PU

5



OV-Connect Differential pressure transducer

Item No.

1069180



Accessories - OV Measuring system



OV-DMC 3, OV-DMC 2, OV-DMPC Accessories and spare parts

Description	PU	Item No.
2 measuring hoses, length 0.5 m, red and blue	5	1069178
2 measuring hoses, length 2 m, red and blue	5	1069179
2 measuring valves G 3/8 with quick-coupling technique, with screen	50	1069186
Contact thermometer for OV-DMC 2 and OV-DMPC		1069197
USB connecting cable with data transfer software on USB stick, for transferring data from the OV-DMC 2	50	1069299 °



Accessories - Classic measuring technique



Description	PU	Item No.
1 fill and drain ball valve G 1/4	50	1060191
2 measuring valves G 1/4	50	1060281
2 measuring valves G 1/4 with extension L=100 mm, system draining not required for mounting	50	1060282
Measuring valve extension L = 80 mm, system draining not required for mounting	50	1060295
1 measuring adapter + 1 fill and drain ball valve G 1/4	50	1060296 °
Measuring adapter	50	1060298
2 measuring adapters for differential pressure measurement at Hydromat DTR / DFC	10	1060299
1 measuring valve G 1/4 and 1 fill and drain ball valve G 1/4	50	1060381
Adapter for connecting the impulse tube to a G 3/4 external thread	50	1062090
2 measuring needles with plug-in connection	50	1069199
Measuring valve extension L = 80 mm, with T-piece connection. For differential pressure measurement and simultaneous connection of the impulse tube of the differential pressure regulator	50	1688290
2 measuring valve extensions L = 80 mm, for measuring orifices item no. 1060771-78	50	1688291
Measuring valve extension L = 40 mm, system draining not required for mounting	40	1688295



Accessories - Eco measuring technique

Description	PU	Item No.
Drain and fill tool		1061791 °
2 measuring needles for OV-DMC 3, OV-DMC 2 and OV-DMPC	25	1061799 °

Accessories - Quick-coupling technique

PU 50



Description

Measuring adapter with quick-coupling technique for drain and fill tool
 1 measuring valve+ 1 fill and drain ball valve with quick-coupling technique

Item No.

1060297 °
 1060391





2.4 Differential pressure measurement and verification of water quantities

Measuring orifices **324**

Measuring orifices.....	325
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Measuring orifices



Measuring orifices PN 16 / PN 25 with threads or for installation between flanges. Supplied with Classic measuring valves. For flow determination in central heating and cooling systems. The flow rate is determined by measuring the differential pressure across the measuring orifice. Modification of the flow values

can be read directly independently of the preset values of the upstream or downstream valve by means of the OV-DMC 3 measuring system.

The measuring orifices for installation between flanges can be combined with all valves with flanges according to EN 1092.

Measuring connection	Yes	Installation location	Supply or return
Medium	Water Water-glycol mixture		



Measuring orifices with internal thread / external thread PN 25, DN 15...50



Body material	DZR brass	PU	10
Operating temperature	-20 up to 150 °C		

Nominal size	Connection size	kvs	Item No.
DN 15 HF	R 1/2 x Rp 1/2	2.20	1060604
DN 20	R 3/4 x Rp 3/4	4.25	1060606
DN 25	R 1 x Rp 1	8.60	1060608
DN 32	R 1 1/4 x Rp 1 1/4	15.90	1060610
DN 40	R 1 1/2 x Rp 1 1/2	23.70	1060612
DN 50	R 2 x Rp 2	48.00	1060616
DN 15 MF	R 1/2 x Rp 1/2	1.20	1060634
DN 15 LF	R 1/2 x Rp 1/2	0.55	1060644



Measuring orifices for flanges according to EN 1092 PN 16, DN 65...1.000, made of stainless steel

Body material Stainless steel Operating temperature -10 up to 150 °C

Nominal size	kvs	Item No.
DN 65	102.00	1060751
DN 80	120.00	1060752
DN 100	234.00	1060753
DN 125	335.00	1060754
DN 150	522.00	1060755
DN 200	780.00	1060756
DN 250	1,197.00	1060757
DN 300	1,810.00	1060758
DN 350	2,050.00	1060759
DN 400	2,650.00	1060760
DN 450	3,400.00	1060761 °
DN 500	4,200.00	1060762
DN 600	6,250.00	1060763
DN 700	10,690.00	1060764
DN 800	14,000.00	1060765
DN 900	17,577.00	1060766 °
DN 1000	22,540.00	1060767 °



Measuring orifices for flanges according to EN 1092 PN 25, DN 100...600, made of stainless steel

Body material Stainless steel Operating temperature -10 up to 150 °C

Nominal size	kvs	Item No.
DN 100	234.00	1060853 °
DN 125	335.00	1060854 °
DN 150	522.00	1060855 °
DN 200	780.00	1060856 °
DN 250	1,197.00	1060857 °
DN 300	1,810.00	1060858 °
DN 350	2,050.00	1060859 °
DN 400	2,650.00	1060860 °
DN 450	3,400.00	1060861 °
DN 500	4,200.00	1060862 °
DN 600	6,250.00	1060863 °

Measuring orifices for flanges according to EN 1092 PN 16, DN 65...300, made of cast iron



Body material Cast iron Operating temperature -10 up to 120 °C

Nominal size	kvs	Item No.
DN 65	93.00	1060771
DN 80	126.00	1060772
DN 100	244.00	1060773
DN 125	415.00	1060774
DN 150	540.00	1060775
DN 200	1,010.00	1060776
DN 250	1,450.00	1060777
DN 300	2,400.00	1060778





2.5 Shutoff valves and other pipeline valves, connection technology

Optibal Ball valves 329

Optibal Ball valves with plastic handle.....	330
Optibal Ball valves with lever.....	333
Optibal Ball valves with T-handle.....	334
Optibal P Pump ball valves.....	335
Optibal High temperature ball valves.....	336
Optibal High pressure ball valves PN 40.....	337
Ball valves DZR.....	339
Other ball valves.....	340
Optibal Accessories.....	341

Individual parts.....	382
-----------------------	-----

Fill and drain cocks 344

Optiflex Fill and drain ball valves.....	345
Other fill and drain cocks.....	348
Fill and drain cocks Accessories and spare parts.....	349

Shutoff valves 351

Hygate Gate valves.....	352
Hygate Gate valves with flanges.....	353
Shutoff valves.....	354
Pressure gauge cocks.....	356
Pressure gauge shutoff valves.....	357
Accessories and spare parts.....	358

Other pipeline valves 360

Butterfly valves.....	361
Spare parts for butterfly valves.....	363
Piston type spring assisted check valves.....	364
Swing check valves.....	365
Strainer.....	367
Spare parts for strainers.....	370
Dirt separators.....	372
Air vents.....	374

Connection technology 375

Compression fitting - for products with internal thread.....	376
Connection set for external thread - for products without union nut and sealing ring.....	377
Connection sets for Cocon QTZ PN 25.....	379
Tailpipe sets for external thread, for products with union nuts and sealing rings.....	380





2.5 Shutoff valves and other pipeline valves, connection technology

Optibal Ball valves	329
Optibal Ball valves with plastic handle.....	330
Optibal Ball valves with lever.....	333
Optibal Ball valves with T-handle.....	334
Optibal P Pump ball valves.....	335
Optibal High temperature ball valves.....	336
Optibal High pressure ball valves PN 40.....	337
Ball valves DZR.....	339
Other ball valves.....	340
Optibal Accessories.....	341



Optibal Ball valves with plastic handle



Ball surface hard chrome plated. Anthracite extended plastic handle for easy insulation. With red replaceable cover plug for riser identification.

Body material	Brass	Medium	Water
Surface	Nickel plated		Water-glycol mixture
Type of construction	Full flow		Other media according to data sheet
Operating temperature	-10 up to 100 °C		



Optibal with internal thread PN 16, DN 10...50



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1077103
DN 15	G 1/2	22.00	10	1077104
DN 20	G 3/4	43.00	10	1077106
DN 25	G 1	67.00	10	1077108
DN 32	G 1 1/4	99.00	8	1077110
DN 40	G 1 1/2	143.00	6	1077112
DN 50	G 2	254.00	4	1077116

Optibal with internal thread PN 16, DN 10...50, with thermometer



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1078003
DN 15	G 1/2	22.00	10	1078004
DN 20	G 3/4	43.00	10	1078006
DN 25	G 1	67.00	10	1078008
DN 32	G 1 1/4	99.00	8	1078010
DN 40	G 1 1/2	143.00	6	1078012
DN 50	G 2	254.00	4	1078016

Optibal with external thread and internal thread PN 16, DN 10...50



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1077303
DN 15	G 1/2	22.00	10	1077304
DN 20	G 3/4	43.00	10	1077306
DN 25	G 1	67.00	10	1077308
DN 32	G 1 1/4	99.00	8	1077310
DN 40	G 1 1/2	143.00	6	1077312
DN 50	G 2	254.00	4	1077316



Optibal with internal thread PN 16, DN 15...32, with drain valve

Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	10	1077804
DN 20	G 3/4	43.00	5	1077806
DN 25	G 1	67.00	5	1077808
DN 32	G 1 1/4	99.00	5	1077810



Optibal with internal thread PN 16, DN 15...32, with drain ball valve

Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	20	1697804
DN 20	G 3/4	43.00	20	1697806
DN 25	G 1	67.00	10	1697808
DN 32	G 1 1/4	99.00	10	1697810



Optibal with press connection PN 16, DN 15...32

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392, stainless steel pipe according to DIN EN 10088 / DVGW GW 451 and thin-walled C-steel pipe (material no. E195/1.0034) according to DIN EN 10305-3.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing. Processing must be carried out according to the installation instructions.

Nominal size	Connection size	kvs	PU	Item No.
DN 15	15 mm	22.00	10	1077162
DN 15	18 mm	22.00	10	1077163
DN 20	22 mm	43.00	10	1077164
DN 25	28 mm	67.00	10	1077165
DN 32	35 mm	99.00	5	1077166



Optibal with internal thread and press connection PN 16, DN 15...32

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392, stainless steel pipe according to DIN EN 10088 / DVGW GW 451 and thin-walled C-steel pipe (material no. E195/1.0034) according to DIN EN 10305-3.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing. Processing must be carried out according to the installation instructions.

Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2 x 15 mm	22.00	10	1077152
DN 15	G 1/2 x 18 mm	22.00	10	1077153
DN 20	G 3/4 x 22 mm	43.00	10	1077154
DN 25	G 1 x 28 mm	67.00	10	1077155
DN 32	G 1 1/4 x 35 mm	99.00	5	1077156



Optibal with coupling and internal thread PN 16, DN 15...32



PU _____ 10

Nominal size	Connection size	kvs	Item No.
DN 15	R 1/2 x G 1/2	22.00	1075704
DN 20	R 3/4 x G 3/4	43.00	1075706
DN 25	R 1 x G 1	67.00	1075708
DN 32	R 1 1/4 x G 1 1/4	99.00	1075710



Optibal Ball valves with lever



Ball surface hard chrome plated. Lever made of galvanized steel with plastic coating.

Body material	Brass	Medium	Water Water-glycol mixture Other media according to data sheet
Surface	Nickel plated		
Type of construction	Full flow		
Operating temperature	-10 up to 100 °C		

Optibal with internal thread PN 16, DN 8...100



Nominal size	Connection size	kvs	PU	Item No.
DN 8	G 1/4	5.60	10	1076002
DN 10	G 3/8	8.80	10	1076003
DN 15	G 1/2	22.00	10	1076004
DN 20	G 3/4	43.00	10	1076006
DN 25	G 1	67.00	10	1076008
DN 32	G 1 1/4	99.00	8	1076010
DN 40	G 1 1/2	143.00	6	1076012
DN 50	G 2	254.00	4	1076016
DN 65	G 2 1/2	470.00	2	1076020
DN 80	G 3	720.00	50	1076024
DN 100	G 4	1,120.00		1076032

Optibal with external thread and internal thread PN 16, DN 10...32



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1076203
DN 15	G 1/2	22.00	10	1076204
DN 20	G 3/4	43.00	10	1076206
DN 25	G 1	67.00	10	1076208
DN 32	G 1 1/4	99.00	8	1076210



2.5

Optibal Ball valves with T-handle



Ball surface hard chrome plated. T-handle made of metal.

Body material	Brass	Medium	Water Water-glycol mixture Other media according to data sheet
Surface	Nickel plated		
Type of construction	Full flow		
Operating temperature	-10 up to 100 °C		



Optibal with internal thread PN 16, DN 10...32



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1076103
DN 15	G 1/2	22.00	10	1076104
DN 20	G 3/4	43.00	10	1076106
DN 25	G 1	67.00	10	1076108
DN 32	G 1 1/4	99.00	8	1076110

Optibal with external thread and internal thread PN 16, DN 10...32



Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	8.80	10	1076303
DN 15	G 1/2	22.00	10	1076304
DN 20	G 3/4	43.00	10	1076306
DN 25	G 1	67.00	10	1076308
DN 32	G 1 1/4	99.00	8	1076310

Optibal with coupling and internal thread PN 16, DN 15...32



Nominal size	Connection size	kvs	PU	Item No.
DN 15	R 1/2 x G 1/2	22.00	10	1075804
DN 20	R 3/4 x G 3/4	43.00	10	1075806
DN 25	R 1 x G 1	67.00	8	1075808
DN 32	R 1 1/4 x G 1 1/4	99.00	8	1075810

Optibal P Pump ball valves



Ball surface hard chrome plated. Anthracite extended plastic handle for easy insulation. With red replaceable cover plug for riser identification.

Body material	Brass	Medium	Water
Surface	Nickel plated		Water-glycol mixture
Operating temperature	up to 120 °C		



Optibal P with internal thread and pump flange PN 10, with check valve

To prevent gravity circulation in various heating systems when the pump is switched off. For direct connection to the circulation pump. Opening pressure 20 mbar.

PU	10
----	----

Nominal size	Connection size	kvs	Item No.
DN 25	Rp 1 x G 1 1/2	8.50	1078171
DN 32	Rp 1 1/4 X G 2	13.00	1078172
DN 32	Rp 1 1/4 x G 1 1/2	8.50	1078173



Optibal P with internal thread and pump flange, without check valve

PU	10
----	----

Nominal size	Connection size	kvs	Item No.
DN 25	Rp 1 x G 1 1/2	17.00	1078371
DN 32	Rp 1 1/4 X G 2	33.00	1078372
DN 32	Rp 1 1/4 x G 1 1/2	30.00	1078373

Optibal PK Shutoff set

Supply: Pump ball valve with check valve and pump ball valve with thermometer (red) Ø 63 as well as union nuts and seals for the pump flanges.

Return: Ball valve with internal thread on both sides and thermometer (blue) Ø 63.

Suitable insulations:

For DN 25: 2 x 1078194 and 1 x 1078094

For DN 32: 2 x 1078195 and 1 x 1078095



Nominal size	Connection size	kvs	Item No.
DN 25	G 1 1/2	6.90	1353583
DN 32	G 2	11.40	1353584



Optibal High temperature ball valves



Ball surface hard chrome plated. Anthracite extended plastic handle for easy insulation. With red replaceable cover plug for riser identification.

The maximum operating temperature is only permissible for a short time.

Body material	Brass	Medium	Water
Surface	Nickel plated		Water-glycol mixture
Type of construction	Reduced flow		



Optibal HT with internal thread PN 16, DN 20...32



Operating temperature -10 up to 150 °C Max. operating temperature 180 °C

Nominal size	Connection size	kvs	PU	Item No.
DN 20	Rp 3/4	9.50	10	1078706
DN 25	Rp 1	17.00	10	1078708
DN 32	Rp 1 1/4	35.00	5	1078710

Optibal HT with press connection PN 16, DN 20...32



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392, stainless steel pipe according to DIN EN 10088 / DVGW GW 451 and thin-walled C-steel pipe (material no. E195/1.0034) according to DIN EN 10305-3.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing. Processing must be carried out according to the installation instructions.

Operating temperature -10 up to 120 °C Max. operating temperature 150 °C

Nominal size	Connection size	kvs	PU	Item No.
DN 20	22 mm	9.50	10	1078760 °
DN 25	28 mm	17.00	10	1078761 °
DN 32	35 mm	35.00	5	1078762 °

Optibal High pressure ball valves PN 40



Body material	Bronze	Medium	Water
Surface	Untreated		Water-glycol mixture
Type of construction	Full flow		

Optibal with weldable tailpipe and external thread with cap, DN 15...32, extended handle made of plastic



Operating temperature	2 up to 120 °C	PU	5
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Nominal size	Connection size	Item No.
DN 15	20.5 mm x G 3/4	1066604
DN 20	26 mm x G 1	1066606
DN 25	33 mm x G 1 1/4	1066608
DN 32	42.5 mm x G 1 3/4	1066610

Optibal with weldable tailpipe and external thread with cap, DN 15...32, lever made of aluminium



Operating temperature	2 up to 150 °C
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Nominal size	Connection size	Item No.
DN 15	20.5 mm x G 3/4	1066504
DN 20	26 mm x G 1	1066506
DN 25	33 mm x G 1 1/4	1066508
DN 32	42.5 mm x G 1 3/4	1066510

Optibal with weldable tailpipes, DN 15...32, extended handle made of plastic



Operating temperature	2 up to 120 °C	PU	5
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Nominal size	Connection size	Item No.
DN 15	20.5 mm	1065604
DN 20	26 mm	1065606
DN 25	33 mm	1065608
DN 32	42.5 mm	1065610



2.5

Optibal with weldable tailpipes, DN 15...32, lever made of aluminium

Operating temperature 2 up to 150 °C



Nominal size	Connection size	Item No.
DN 15	20.5 mm	1065504
DN 20	26 mm	1065506
DN 25	33 mm	1065508
DN 32	42.5 mm	1065510



Ball valves DZR



Body material	DZR brass	Operating temperature	-10 up to 120 °C
Surface	Untreated	Medium	Water
Type of construction	Full flow		Water-glycol mixture

Ball valve DZR with internal thread PN 30, DN 15...50, lever made of galvanised steel with plastic coating



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	10	1079004
DN 20	G 3/4	43.00	10	1079006
DN 25	G 1	67.00	10	1079008
DN 32	G 1 1/4	99.00	8	1079010
DN 40	G 1 1/2	143.00	6	1079012
DN 50	G 2	254.00	4	1079016

Ball valve DZR with internal thread PN 30, DN 15...20, T-handle made of aluminium



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	10	1079404
DN 20	G 3/4	43.00	12	1079406

Ball valve DZR with internal thread PN 30, DN 15...50, extended handle made of plastic



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	8	1079104
DN 20	G 3/4	43.00	10	1079106
DN 25	G 1	67.00	8	1079108
DN 32	G 1 1/4	99.00	6	1079110
DN 40	G 1 1/2	143.00	6	1079112
DN 50	G 2	254.00	4	1079116

Other ball valves



Angle ball valve

Body material	Brass	Operating temperature	-10 up to 100 °C
Surface	Untreated	Medium	Water

Nominal size	Connection size	Item No.
DN 20	G 1	1351705



Ball valve with hose connection

PN 16, DN 15...25, one side internal thread, one side hose connection and cap with fixing loop. Full flow, with double FKM O-ring seal, ball hard chrome plated, PTFE seats

Body material	Brass	Medium	Water
Surface	Nickel plated		Water-glycol mixture
Operating temperature	-20 up to 120 °C		

Nominal size	Connection size	kvs	PU	Item No.
DN 15	Rp 1/2	5.30	25	1036154
DN 20	Rp 3/4	10.40	10	1036156
DN 25	Rp 1	19.00	5	1036158

Optibal Accessories



Optibal Thermal insulation shell

For Optibal ball valves with extended plastic handle item no. 10771., 10780., 10787.. and 10791.. With spindle extension also suitable for other handles.
Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B2 according to DIN 4102.

Operating temperature up to 100 °C

Nominal size	PU	Item No.
DN 10 and DN 15		1078092
DN 20		1078093
DN 25		1078094
DN 32	250	1078095
DN 40	250	1078096
DN 50		1078097



Optibal P Thermal insulation shell

For Optibal P pump ball valves.
Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B2 according to DIN 4102.

Nominal size	PU	Item No.
DN 25		1078194
DN 32	250	1078195



Conversion set plastic handle

With red cover plug for riser identification. For subsequent conversion of Optibal ball valves with lever or metal T-handle to plastic handle (except for item no. 10787..). This handle allows the ball valves to be insulated.

PU 10

Description	Item No.
Up to DN 15	1076071
For DN 20 and DN 25	1076072
For DN 32 to DN 50	1076073



Spindle extension

Made of brass, with rotatable plastic sleeve. For retrofitting of Optibal brass ball valves, except for item no. 10787.. By sealing the rotatable plastic sleeve against the insulation in cooling systems, moisture cannot reach the pipework via the spindle extension. Only one extension can be used at a time. To avoid condensation on the handle, the handle of ball valves with T-handle or lever must also be insulated, e.g. by covering the shaft and handle with elastic pipe insulation.

PU 10

Description	Item No.
For Optibal with lever or T-handle, up to DN 15	1076081
For Optibal with lever or T-handle, DN 20 and DN 25	1076082
For Optibal with lever or T-handle, DN 32 to DN 50	1076083
For Optibal with lever or T-handle, DN 65 to DN 100	1076084
For Optibal with extended plastic handle, up to DN 15	1696081
For Optibal with extended plastic handle, DN 20 and DN 25	1696082
For Optibal with extended plastic handle, DN 32 to DN 50	1696083



Cover plug, blue

For Optibal ball valves with extended plastic handle. For riser identification by replacing the existing red cover plug.

Description	Item No.
For DN 10 and DN 15, set = 10 pieces	1077171
For DN 20 and DN 25, set =10 pieces	1077172
For DN 32 to DN 50, set =5 pieces	1077173



Thermometer conversion set

Anthracite. For item no. 10757.., 10771.., 10773.. and 10778..

PU 10

Description	Item No.
For DN 10 and DN 15	1077181
For DN 20 and DN 25	1077182
For DN 32 to DN 50	1077183
For Optibal P, DN 25 and DN 32 and Optibal TW, DN 20 and DN 25	1078382



Thermometer conversion set, red and blue

For item no. 10757.., 10771.., 10773.. and 10778..

PU 10

Description	Item No.
For DN 25 and DN 32	1078182



Blocking cap made of brass

For ball valves DZR. The blocking cap can be fitted instead of the lever, T-handle or handle. It locks the ball valve in open and closed position and prevents unintentional actuation.

PU 5

Description	Item No.
For DN 15	1079254
For DN 20 and DN 25	1079255
For DN 32 to DN 50	1079256



Cap with sealing washer and chain

For item no. 10655.., 10656.., 10665.. and 10666..

PU 25

Nominal size	Connection size	Item No.
DN 15	G 3/4	1066904
DN 20	G 1	1066906
DN 25	G 1 1/4	1066908
DN 32	G 1 3/4	1066910





2.5 Shutoff valves and other pipeline valves, connection technology

Fill and drain cocks **344**

Optiflex Fill and drain ball valves.....	345
Other fill and drain cocks.....	348
Fill and drain cocks Accessories and spare parts.....	349



Optiflex Fill and drain ball valves



For filling and draining of heating and cooling systems, boilers, radiators and pipework.

With cap. Handle with stop. Hose connections, if included, with soft seal.

Shutoff Yes



Optiflex with external thread PN 16 and plastic hose connection

Self sealing with counter nut.



Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 120 °C	PU	50
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Surface	Item No.
DN 10	G 3/8	Untreated	1033313
DN 15	G 1/2	Untreated	1033314
DN 10	G 3/8	Nickel plated	1033351
DN 15	G 1/2	Nickel plated	1033352

Optiflex with external thread PN 16 and plastic hose connection, without individual packaging

Self sealing with counter nut.



Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 120 °C	PU	50
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Surface	Item No.
DN 15	G 1/2	Untreated	1033315
DN 15	G 1/2	Nickel plated	1033354



Optiflex with external thread PN 16 and brass hose connection

Self sealing with counter nut.

Body material	Brass	Medium	Water
Operating temperature	0 up to 120 °C		Water-glycol mixture
Surface	Untreated	Installation location	Supply or return

Nominal size	Connection size	PU	Item No.
DN 25	G 1	10	1033308
DN 20	G ¾	25	1033316
DN 15	G ½	50	1034315



Optiflex with external thread PN 16, without hose connection

Self sealing with counter nut.

Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 120 °C	PU	50
Surface	Untreated		
Medium	Water		
	Water-glycol mixture		

Nominal size	Connection size	Item No.
DN 10	G ¾	1033413
DN 15	G ½	1033414



Optiflex with internal thread PN 16

Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 120 °C	PU	50
Medium	Water		
	Water-glycol mixture		

Nominal size	Connection size	Surface	Item No.
DN 15	Rp ½	Untreated	1033814
DN 15	Rp ½	Nickel plated	1033852 °



Optiflex with internal thread PN 16, without hose connection

Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 120 °C	PU	50
Surface	Untreated		
Medium	Water		
	Water-glycol mixture		

Nominal size	Connection size	Item No.
DN 15	Rp ½	1033914 °



Optiflex with external thread PN 16, made of bronze



Body material	Bronze	Installation location	Supply or return
Operating temperature	0 up to 150 °C	PU	50
Surface	Untreated		
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Item No.
DN 10	G 3/8	1032403
DN 15	G 1/2	1032404

Optiflex with external thread PN 16, for solar



For the solar sector. Can be used up to 180 °C for short periods. Suitable for connecting plastic or copper pipes.

Body material	Brass	Installation location	Supply or return
Operating temperature	0 up to 150 °C	PU	50
Surface	Nickel plated		
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Type	Item No.
DN 15	G 1/2	Straight	1033372
DN 15	G 1/2	Angle	1033672

Optiflex with external thread PN 10, for potable water



For the potable water sector. Max. water temperature 90 °C.

Body material	Brass	Medium	Water
Operating temperature	0 up to 90 °C	PU	50
Surface	Untreated	Certification	DVGW

Nominal size	Connection size	Item No.
DN 15	G 1/2	1033152



Other fill and drain cocks



Fill and drain cock with external thread PN 16, DN 10...25, heavy model

Based on DIN 3848. For liquids, steam and treated heating water, e.g. district heating. Can be used up to 180 °C for short periods.

Readjustment of the fill and drain ball valves to maintain tightness during operation may be necessary, e.g. during operation in the low-temperature range, extreme temperature changes or use of penetrating additives in heat transfer liquids.



Body material	Bronze	Operating temperature	0 up to 150 °C
Shutoff	Yes	Medium	Water
Draining	Yes		Water-glycol mixture
Measuring connection	No	Installation location	Supply or return

Nominal size	Connection size	PU	Item No.
DN 10	R 3/8	50	1032003
DN 15	R 1/2	50	1032004
DN 20	R 3/4	25	1032006
DN 25	R 1	10	1032008

Drain and vent valve with external thread PN 16, DN 8...10, with metal seal



Body material	Brass	PU	50
Operating temperature	up to 120 °C		

Nominal size	Connection size	Item No.
DN 8	G 1/4	1038002 °
DN 10	G 3/8	1038003 °

Fill and drain cocks Accessories and spare parts

Hose connection for Optiflex fill and drain ball valves



Nominal size	Connection size	Body material	PU	Item No.
DN 10 and DN 15	G ¾	Brass	50	1034552 °
DN 20	G 1	Brass	25	1034553 °
DN 25	G 1 ¼	Brass	25	1034554 °
DN 10 and DN 15	G ¾	Plastic	50	1034562 °

Hose connection for fill and drain ball valve, heavy model



Nominal size	Connection size	Body material	PU	Item No.
DN 15	G ¾	Brass	50	1034504 °
DN 20	G 1	Brass	50	1034506 °
DN 10	G ½	Brass	50	1034551 °
DN 25	G 1 ¼	Brass	25	1034554 °



Cap with sealing washer and fixing loop for fill and drain cock, heavy model

Item no. 1034052 also suitable for Optiflex DN 10.



Nominal size	Connection size	PU	Item No.
DN 10	G ½	50	1034003
DN 15	G ¾	50	1034052
DN 20	G 1	25	1034053
DN 25	G 1 ¼		1034054

Square spanner for fill and drain ball valve, heavy pattern



Description	PU	Item No.
For DN 10 and DN 15, spanner size 12 mm	10	1035004
For DN 20 and DN 25, spanner size 14 mm	5	1035006



Handle for fill and drain ball valve, item no. 103240.

PU _____ 10

Description

Anthracite

Item No.

1033091 °





2.5 Shutoff valves and other pipeline valves, connection technology

Shutoff valves	351
Hygate Gate valves.....	352
Hygate Gate valves with flanges.....	353
Shutoff valves.....	354
Pressure gauge cocks.....	356
Pressure gauge shutoff valves.....	357
Accessories and spare parts.....	358



Hygate Gate valves



Hygate ATB with internal thread PN 25, DN 10...100, made of brass

Body material	Brass	Installation location	Supply or return
Shutoff	Yes		
Operating temperature	-10 up to 120 °C		
Medium	Water Water-glycol mixture Other media according to data sheet		

Nominal size	Connection size	kvs	PU	Item No.
DN 10	G 3/8	10.00	50	1040003
DN 15	G 1/2	11.00	50	1040004
DN 20	G 3/4	34.00	50	1040006
DN 25	G 1	46.00	25	1040008
DN 32	G 1 1/4	60.00	25	1040010
DN 40	G 1 1/2	105.00	10	1040012
DN 50	G 2	170.00	5	1040016
DN 65	G 2 1/2	280.00	5	1040020
DN 80	G 3	420.00	2	1040024
DN 100	G 4	650.00	2	1040032



2.5



Hygate ATR with internal thread PN 25, DN 10...80, made of bronze

Body material	Bronze	Installation location	Supply or return
Shutoff	Yes		
Operating temperature	-10 up to 200 °C		
Medium	Water Water-glycol mixture Other media according to data sheet		

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	10.00	50	1043003 °
DN 15	Rp 1/2	11.00	50	1043004 °
DN 20	Rp 3/4	34.00	50	1043006 °
DN 25	Rp 1	46.00	25	1043008 °
DN 32	Rp 1 1/4	60.00	20	1043010 °
DN 40	Rp 1 1/2	105.00	10	1043012 °
DN 50	Rp 2	170.00	5	1043016 °
DN 65	Rp 2 1/2	280.00	5	1043020 °
DN 80	Rp 3	420.00	2	1043024 °

Hygate Gate valves with flanges



Hygate AFC with flanges according to EN 1092-2 PN 16, DN 40...300

Body material	Cast iron	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	-10 up to 120 °C	Installation location	Supply or return

Nominal size	kvs	PU	Item No.
DN 40	107.00		1045049
DN 50	250.00		1045050
DN 65	430.00	40	1045051
DN 80	790.00	21	1045052
DN 100	1,250.00	21	1045053
DN 125	1,960.00	15	1045054
DN 150	2,790.00	10	1045055
DN 200	2,880.00	6	1045056
DN 250	4,306.00	4	1045057
DN 300	6,380.00	2	1045058



Hygate AFC with flanges according to EN 1092-2 PN 10, DN 40...300

Body material	Cast iron	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	-10 up to 120 °C	Installation location	Supply or return

Nominal size	kvs	PU	Item No.
DN 40	120.00		1045149 °
DN 50	270.00		1045150 °
DN 65	470.00		1045151 °
DN 80	900.00		1045152 °
DN 100	1,600.00		1045153 °
DN 125	2,150.00		1045154 °
DN 150	3,680.00	3	1045155 °
DN 200	-		1045156 °
DN 250	-		1045157 °
DN 300	-		1045158 °



Shutoff valves



Y-pattern valve with internal thread PN 25, DN 10...50

Body material	Bronze	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	-10 up to 150 °C	Installation location	Supply or return

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	3.10	10	1050203 °
DN 15	Rp 1/2	4.40	10	1050204 °
DN 20	Rp 3/4	9.50	10	1050206 °
DN 25	G 1	17.40	10	1050208 °
DN 32	G 1 1/4	29.20	5	1050210 °
DN 40	G 1 1/2	42.90	5	1050212 °
DN 50	G 2	64.00	5	1050216 °



Y-pattern valve with internal thread PN 25, DN 10...50, with drain valve



Body material	Bronze	Medium	Water
Shutoff	Yes		Water-glycol mixture
Draining	Yes	Installation location	Supply or return
Operating temperature	-10 up to 150 °C		

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	3.10	10	1050303 °
DN 15	Rp 1/2	4.40	10	1050304 °
DN 20	Rp 3/4	9.50	10	1050306 °
DN 25	G 1	17.40	10	1050308 °
DN 32	G 1 1/4	29.20	5	1050310 °
DN 40	G 1 1/2	42.90	5	1050312 °
DN 50	G 2	64.00	5	1050316 °



Straight seat valve with internal thread PN 25, DN 8...50

Body material	Bronze	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	0 up to 150 °C	Installation location	Supply or return

Nominal size	Connection size	kvs	PU	Item No.
DN 8	Rp 1/4	1.45	10	1052102 °
DN 10	Rp 3/8	2.10	10	1052103 °
DN 15	Rp 1/2	3.70	10	1052104 °
DN 20	Rp 3/4	6.40	10	1052106 °
DN 25	Rp 1	9.80	10	1052108 °
DN 32	Rp 1 1/4	15.80	5	1052110 °
DN 40	Rp 1 1/2	22.50	5	1052112 °
DN 50	Rp 2	32.60	5	1052116 °

Shutoff valve with weldable tailpipes PN 25, DN 15...32



Body material	Bronze	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	0 up to 150 °C	Installation location	Supply or return

Nominal size	Connection size	Item No.
DN 15	20.5 mm	1065004
DN 20	26 mm	1065006
DN 25	33 mm	1065008
DN 32	42.5 mm	1065010

Drain valve with weldable tailpipe and external thread with cap PN 25, DN 15...32



Body material	Bronze	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	0 up to 150 °C	Installation location	Supply or return

Nominal size	Connection size	Item No.
DN 15	20.5 mm x G 3/4	1066004
DN 20	26 mm x G 1	1066006
DN 25	33 mm x G 1 1/4	1066008
DN 32	42.5 mm x G 1 3/4	1066010



Pressure gauge cocks



Pressure gauge cock with internal thread and stuffing box

Body material	Brass	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	No	Connection size	G 1/2
Measuring connection	Yes	PU	20

Nominal size	Pressure rating	Item No.
DN 15	PN 10	1110104
DN 15	PN 25	1110174



2.5



Pressure gauge cock with internal thread and test flange 25 x 60 mm

Body material	Brass	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	No	Connection size	G 1/2
Measuring connection	Yes	PU	5

Nominal size	Pressure rating	Item No.
DN 15	PN 25	1110204



Pressure gauge cock, button type with internal thread

Brass, nickel-plated. Outlet also corresponds to pressure gauge screw-in hole according to DIN EN 837-1. DVGW certified according to VP 308. The pressure is only measured when the push button is pressed down, after releasing it, the system disconnection takes place automatically. The pressure gauge is depressurised in the disconnected position.

Water: PN 25, 0 °C to 90 °C
Gas: MOP5, -20 °C to +60 °C

Body material	Brass	Connection size	G 1/2
Shutoff	Yes	PU	25
Draining	No	Certification	DVGW
Measuring connection	Yes		

Nominal size	Pressure rating	Item No.
DN 15	PN 25	1110504

Pressure gauge shutoff valves



Pressure gauge shutoff valve with clamping sleeve and spigot, PN 250

For connecting pressure measuring devices and pressure gauges to systems. Application: Liquids, gases and vapours to which the materials of the valves are resistant.

Body, clamping sleeve, union nut and, if applicable, test spigot or flange made of brass. Spindle and vent screw made of stainless steel, seal packing made of PTFE, handwheel made of plastic.

Description	Item No.
DIN 16270-A-20 Ms, brass / stainless steel, without test connection	1115004
DIN 16271-A-20 Ms, brass / stainless steel, with test spigot M 20 x 1,5	1115104
Similar to DIN 16271-A-20 Ms, brass / stainless steel, with test flange 25 x 60 mm	1115204 °



Pressure gauge shutoff valve with clamping sleeve and spigot, PN 250

For connecting pressure measuring devices and pressure gauges to systems. Application: Liquids, gases and vapours to which the materials of the valves are resistant.

Body, clamping sleeve, union nut and, if applicable, test spigot or flange made of steel. Spindle and vent screw made of stainless steel, seal packing made of graphite, handwheel made of plastic.

Description	Item No.
DIN 16270-A-10 St, steel / stainless steel, without test connection	1116004
Similar to DIN 16271-A-10 St, steel / stainless steel, with test flange 25 x 60 mm	1116204 °



Accessories and spare parts



Vent valve PN 25

PU _____ 25

Nominal size

DN 15

Item No.

10667004



2.5



General purpose lockshield key

PU _____ 10

Description

Universal socket spanner

Item No.

1066151 °

Accessories - Pressure gauge cocks



Description

Connection piece DN 15 made of brass with rotatable union nut, with graphited sealing washer for differential pressure gauge, suitable for pressure gauge cocks item no. 11101.. to 11105..

PU

Item No.

40

1111904

Handle for pressure gauge cocks DN 10 and DN 15, plastic, red. Connection thread and length of handle M 5 x 50 mm

10

1905051 °

Graphited sealing washer for pressure gauge cocks

50

1905551

Accessories - Pressure gauge shutoff valves



Description

Steel welding nipple with union nut for pressure gauge shutoff valves

PU

Item No.

50

1117204 °

Cu sealing ring DIN 16528 for pressure gauge shutoff valves

1905552

Replacement handwheel for gate valves Hygate ATB and ATR



PU _____ 100

Description	Item No.
DN 10 and DN 15	1900051
DN 20 and DN 25	1900052
DN 32 and DN 40	1900053
DN 50	1900054
DN 65	1900055
DN 80 and DN 100	1900056

Replacement lockshield spindle

For item no. 10650.. and 10660..



PU _____ 5

Nominal size	Item No.
DN 15	1069292 °
DN 20	1069293 °
DN 25	1069294
DN 32	1069295 °

Replacement sealing ring

For item no. 10650.. and 10660..



PU _____ 10

Nominal size	Item No.
DN 15	1065904 °
DN 20	1065906 °
DN 25	1065908 °
DN 32	1065910 °

Replacement cap with sealing washer and chain

For item no. 10650.., 10655.., 10656.., 10660.., 10665.. and 10666..



PU _____ 25

Nominal size	Connection size	Item No.
DN 15	G 3/4	1066904
DN 20	G 1	1066906
DN 25	G 1 1/4	1066908
DN 32	G 1 3/4	1066910





2.5 Shutoff valves and other pipeline valves, connection technology

Other pipeline valves **360**

Butterfly valves.....	361
Spare parts for butterfly valves.....	363
Piston type spring assisted check valves.....	364
Swing check valves.....	365
Strainer.....	367
Spare parts for strainers.....	370
Dirt separators.....	372
Air vents.....	374



Butterfly valves



The lugged and wafer butterfly valves are designed for installation between two flanges according to EN 1092-2. The neck is extended for insulation purposes. Higher nominal sizes are available on request.
For central heating and cooling systems with

closed circuits. For operation with non-aggressive, harmless media, e.g. water or water-glycol mixtures according to VDI 2035 / ÖNORM 5195.

Body made of nodular cast iron, spindle and disc made of stainless steel.

Body material	Nodular cast iron	Medium	Water
Shutoff	Yes		Water-glycol mixture
Operating temperature	-10 up to 120 °C		

Lugged butterfly valve PN 16, DN 50...200

For flanges according to EN 1092-2 PN 16 (up to DN 150 also PN 10).



Nominal size	kvs	PU	Item No.
DN 50	147.00		1048450
DN 65	290.00		1048451
DN 80	450.00	160	1048452
DN 100	730.00		1048453
DN 125	1,260.00		1048454
DN 150	1,990.00	50	1048455
DN 200	4,390.00		1048456

Lugged butterfly valve PN 16, DN 100...600, gear operated

For flanges according to EN 1092-2 PN 16 (up to DN 150 also PN 10).



Nominal size	kvs	PU	Item No.
DN 100	730.00		1049253
DN 125	1,260.00		1049254
DN 150	1,990.00	25	1049255
DN 200	4,390.00	20	1049256
DN 250	4,500.00	8	1049257
DN 300	6,800.00		1049258
DN 350	8,900.00		1049259
DN 400	11,500.00	2	1049260
DN 450	15,000.00		1049261
DN 500	18,800.00		1049262
DN 600	27,600.00		1049263





Wafer butterfly valve PN 16, DN 50...200

For flanges according to EN 1092-2 PN 16, PN 10 or PN 6.

Nominal size	kvs	Item No.
DN 50	147.00	1046450
DN 65	290.00	1046451
DN 80	450.00	1046452
DN 100	730.00	1046453
DN 125	1,260.00	1046454
DN 150	1,990.00	1046455
DN 200	4,390.00	1046456



Wafer butterfly valve PN 16, DN 100...300, gear operated

For flanges according to EN 1092-2 PN 16, PN 10 or PN 6.

Nominal size	kvs	Item No.
DN 100	730.00	1047253
DN 125	1,260.00	1047254
DN 150	1,990.00	1047255
DN 200	4,390.00	1047256
DN 250	4,500.00	1047257
DN 300	6,800.00	1047258



Spare parts for butterfly valves

Lever

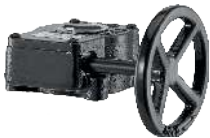
For item no. 10484.. and 10464..



Description	Item No.
For DN 50 to DN 80	1048491
For DN 100 to DN 150	1048492
For DN 200	1048493

Gear operator with handwheel

For item no. 10464.., 10472.., 10484.. and 10492..



Description	Item No.
For DN 50 to DN 100	1049850
For DN 125 to DN 200	1049853



Piston type spring assisted check valves



Backflow preventers for horizontal and vertical installation. Valve plug spring-loaded. Opening pressure 40 mbar. The piston type spring assisted check valves DN 10 and DN 20 are suitable for Oventrop compression fittings item

no. 10271.. For central heating and cooling systems with closed circuits. For operation with non-aggressive, harmless media, e.g. water or water-glycol mixtures according to VDI 2035 / ÖNORM 5195.

Body material	Bronze
Medium	Water Water-glycol mixture

WRAS



Piston type spring assisted check valve with internal thread PN 25, DN 10...50, FKM seal



Operating temperature	0 up to 100 °C
Material resistance	Mineral, heating and hydraulic oils Fuels Air Not suitable for gaseous fluids group 1 according to directive 2014/68/EU

Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	2.50	10	1072003
DN 15	Rp 1/2	3.80	10	1072004
DN 20	Rp 3/4	6.00	10	1072006
DN 25	G 1	13.00	10	1072008
DN 32	G 1 1/4	17.00	5	1072010
DN 40	G 1 1/2	19.00	5	1072012
DN 50	G 2	30.50	5	1072016

Piston type spring assisted check valve with internal thread PN 25, DN 10...50, EPDM seal

Also for systems with open circuits that are operated with water. Materials suitable for potable water.



Operating temperature	-10 up to 150 °C	Certification	WRAS
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Nominal size	Connection size	kvs	PU	Item No.
DN 10	Rp 3/8	3.40	10	1072103
DN 15	Rp 1/2	5.50	10	1072104
DN 20	Rp 3/4	10.30	10	1072106
DN 25	G 1	17.50	10	1072108
DN 32	G 1 1/4	33.00	5	1072110
DN 40	G 1 1/2	44.00	5	1072112
DN 50	G 2	68.00	5	1072116

Swing check valves



Backflow preventers for horizontal and vertical installation in risers, flap opening upwards. For central heating and cooling systems with closed circuits. For operation with non-aggressive, harmless media, e.g. water or water-glycol mixtures according to VDI 2035 / ÖNORM 5195.

Medium Water
Water-glycol mixture

sive, harmless media, e.g. water or water-glycol mixtures according to VDI 2035 / ÖNORM 5195.

Swing check valve with internal thread PN 16, DN 15...65

Metal to metal sealing. Body made of brass, inner parts made of brass.

Body material Bronze Operating temperature -10 up to 80 °C



Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	5.50	10	1075004
DN 20	G 3/4	10.20	10	1075006
DN 25	G 1	20.20	10	1075008
DN 32	G 1 1/4	34.70	5	1075010
DN 40	G 1 1/2	44.90	5	1075012
DN 50	G 2	104.00		1075016
DN 65	G 2 1/2	175.00		1075020

Swing check valve with flanges according to EN 1092-2 PN 16, DN 40...300

Body, cover and stuffing box assembly made of cast iron, valve seat made of brass, asbestos-free seals.

Body material Cast iron Operating temperature -10 up to 120 °C



Nominal size	kvs	PU	Item No.
DN 40	85.00		1073049
DN 50	132.00	20	1073050
DN 65	326.00	50	1073051
DN 80	490.00	20	1073052
DN 100	770.00		1073053
DN 125	1,020.00		1073054
DN 150	1,700.00		1073055
DN 200	2,410.00		1073056
DN 250	3,870.00	4	1073057
DN 300	5,670.00	2	1073058





Swing check valve (wafer model) PN 16, DN 40...450

Body and flap made of galvanised steel with EPDM seal. Suitable for 3 m/s flow velocity.

Body material Steel Operating temperature -10 up to 120 °C

Nominal size	kvs	Item No.
DN 40	22.20	1072549
DN 50	54.00	1072550
DN 65	75.00	1072551
DN 80	112.00	1072552
DN 100	172.00	1072553
DN 125	342.00	1072554
DN 150	490.00	1072555
DN 200	1,128.00	1072556
DN 250	1,500.00	1072557
DN 300	1,850.00	1072558
DN 350	2,700.00	1072559
DN 400	3,500.00	1072560
DN 500	5,200.00	1072561



Double swing check valve (wafer model) PN 16, DN 50...600

Body made of cast iron, flaps made of stainless steel with EPDM seat seal.

Body material Cast iron Operating temperature 0 up to 120 °C



Nominal size	kvs	Item No.
DN 50	55.00	1072650
DN 65	82.00	1072651
DN 80	115.00	1072652
DN 100	236.00	1072653
DN 125	500.00	1072654
DN 150	700.00	1072655
DN 200	1,100.00	1072656
DN 250	2,000.00	1072657
DN 300	3,300.00	1072658
DN 350	3,950.00	1072659
DN 400	5,000.00	1072660
DN 450	6,550.00	1072661
DN 500	8,250.00	1072662
DN 600	12,600.00	1072663

Strainer



For central heating and cooling systems with closed circuits. For operation with non-aggressive, harmless media, e.g. water or water-gly-

col mixtures according to VDI 2035 / ÖNORM 5195.

Medium Water
Water-glycol mixture

WRAS



Strainer with internal thread PN 25, DN 8...80, mesh size 600 µm



Wire basket made of stainless chromium nickel steel.
DN 8 - DN 50: Body made of bronze, cover made of brass
DN 65 and DN 80: Body and cover made of brass

Operating temperature -10 up to 150 °C

Material resistance Mineral, heating and hydraulic oils
Fuels
Water vapour
Air

Harmless, non-aggressive gases
Not suitable for gaseous fluids group
1 according to directive 2014/68/EU

Nominal size	Connection size	kvs	Certification	PU	Item No.
DN 8	G 1/4	1.50	WRAS	10	1120002
DN 10	Rp 3/8	1.70	WRAS	10	1120003
DN 15	Rp 1/2	3.80	WRAS	10	1120004
DN 20	Rp 3/4	7.80	WRAS	10	1120006
DN 25	G 1	13.40	WRAS	10	1120008
DN 32	G 1 1/4	23.90	WRAS	5	1120010
DN 40	G 1 1/2	32.50	WRAS	5	1120012
DN 50	G 2	56.20	WRAS	5	1120016
DN 65	G 2 1/2	101.30	WRAS		1120020
DN 80	G 3	133.60	WRAS		1120024

Strainer with weldable tailpipes PN 25, DN 15...32, mesh size 600 µm

Wire basket made of stainless chromium nickel steel. Body made of bronze, cover made of brass, weldable tailpipes made of steel.



Operating temperature	0 up to 150 °C
Material resistance	Mineral, heating and hydraulic oils Fuels Water vapour Air Harmless, non-aggressive gases Not suitable for gaseous fluids group 1 according to directive 2014/68/EU

Nominal size	Connection size	Item No.
DN 15	20.5 mm	1068004
DN 20	26 mm	1068006
DN 25	33 mm	1068008
DN 32	42.5 mm	1068010

Strainer with internal thread PN 25, DN 8...80, mesh size 250 µm

Wire basket made of stainless chromium nickel steel.
DN 8 - DN 50: Body made of bronze, cover made of brass
DN 65 and DN 80: Body and cover made of brass



Operating temperature	-10 up to 150 °C
Material resistance	Mineral, heating and hydraulic oils Fuels Water vapour Air Harmless, non-aggressive gases Not suitable for gaseous fluids group 1 according to directive 2014/68/EU

Nominal size	Connection size	kvs	PU	Item No.
DN 8	G ¼	1.40	10	1121002
DN 10	Rp ⅜	1.60	10	1121003
DN 15	Rp ½	3.40	10	1121004
DN 20	Rp ¾	6.90	10	1121006
DN 25	G 1	10.90	10	1121008
DN 32	G 1 ¼	20.70	5	1121010
DN 40	G 1 ½	27.40	5	1121012
DN 50	G 2	47.30	5	1121016
DN 65	G 1 ½	82.10		1121020
DN 80	G 3	102.00		1121024

Strainer with external thread PN 25, DN 15...20, mesh size 250 µm

Wire basket made of stainless chromium nickel steel. Body made of bronze, cover made of brass. Flat sealing, without union nuts and seals.



Operating temperature	-10 up to 120 °C	PU	10
-----------------------	------------------	----	----

Nominal size	Connection size	kvs	Item No.
DN 15	G ¾	2.70	1141004
DN 20	G 1	4.80	1141006

Strainer with flanges according to EN 1092-2 PN 16, DN 15...600, mesh size 1...3 mm

Body: DN 15 to DN 300 made of cast iron, DN 350 to 600 made of nodular cast iron. Wire basket made of stainless steel, asbestos free seal.

Screen aperture width:

- DN 15 to DN 32: 1.0 mm
- DN 40 to DN 150: 1.5 mm
- DN 200 to DN 300: 2.0 mm
- DN 350 to DN 600: 3.0 mm

Operating temperature 0 up to 120 °C

Nominal size	kvs	PU	Item No.
DN 15	7.00		1122045
DN 20	10.00		1122046
DN 25	15.00		1122047
DN 32	21.00		1122048
DN 40	39.00		1122049
DN 50	60.00		1122050
DN 65	105.00	50	1122051
DN 80	140.00	20	1122052
DN 100	225.00	20	1122053
DN 125	340.00		1122054
DN 150	405.00		1122055
DN 200	715.00	5	1122056
DN 250	1,355.00	4	1122057
DN 300	1,890.00	2	1122058
DN 350	2,970.00		1122059
DN 400	4,150.00		1122060
DN 450	5,540.00		1122061
DN 500	6,850.00		1122062
DN 600	9,280.00		1122063



Spare parts for strainers

Wire basket, mesh size 600 µm, for item no. 11200..

Mesh size 0.6 mm, 100 meshes / cm².



Nominal size	PU	Item No.
DN 8 and DN 10		1123003
DN 15		1123004
DN 20		1123006
DN 25		1123008
DN 32		1123010
DN 40		1123012
DN 50	100	1123016
DN 65		1123020
DN 80		1123024

Wire basket, mesh size 600 µm, for item no. 10680..

Mesh size 0.6 mm, 100 meshes / cm².



PU 10

Nominal size	Item No.
DN 15	1068804
DN 20	1068806
DN 25	1068808
DN 32	1068810

Double wire basket, mesh size 250 µm

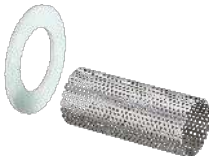
For strainers item no. 11210.. and 11410.., mesh size 0.25 mm, 600 Maschen / cm².



Nominal size	Item No.
DN 8 and DN 10	1123103
DN 15	1123104
DN 20	1123106
DN 25	1123108
DN 32	1123110
DN 40	1123112
DN 50	1123116
DN 65	1123120
DN 80	1123124

Wire basket with cover flange sealing ring

For strainers item no. 11220.. Screen aperture width:



- DN 15 to DN 32: 1.0 mm
- DN 40 to DN 150: 1.5mm
- DN 200 to DN 300: 2.0 mm
- DN 350 to DN 600: 3.0 mm

Nominal size	Item No.
DN 15 and DN 20	1122085
DN 25	1122087
DN 32	1122088
DN 40	1122089
DN 50	1122090
DN 65	1122091
DN 80	1122092
DN 100	1122093
DN 125	1122094
DN 150	1122095
DN 200	1122096
DN 250	1122097
DN 300	1122098
DN 350	1122159
DN 400	1122160
DN 450	1122161
DN 500	1122162
DN 600	1122163

Dirt separators



Sludge separators continuously remove smallest dirt particles without significantly increasing the flow resistance. A strong magnet retains magnetite. When the magnet is pulled out, the magnetic particles fall into the sump and can be rinsed out via a ball valve without interrupting operation.
For central heating and cooling systems with

closed circuits. For operation with non-aggressive, harmless fluids, e.g. water or water-glycol mixtures according to VDI 2035 / ÖNORM 5195.

Body of the models with internal thread made of brass, body of the models with flanges made of steel.

Draining	Yes	Medium	Water
Operating temperature	-10 up to 110 °C		Water-glycol mixture



Sludge separator with internal thread PN 16, DN 20...40, for horizontal installation

Body material Brass

Nominal size	Connection size	kvs	Item No.
DN 20	Rp 3/4	10.70	1124006
DN 25	Rp 1	17.20	1124008
DN 32	Rp 1 1/4	31.80	1124010
DN 40	Rp 1 1/2	40.00	1124012



Sludge separator with internal thread PN 16, DN 20...25, for vertical installation

Body material Brass

Nominal size	Connection size	kvs	Item No.
DN 20	Rp 3/4	10.70	1124106
DN 25	Rp 1	17.20	1124108



Sludge separator with flanges according to EN 1092-1 PN 16, DN 50...300

Body material Steel

Nominal size	kvs	Item No.
DN 50	72.00	1124550
DN 65	121.00	1124551
DN 80	158.00	1124552
DN 100	244.00	1124553
DN 125	351.00	1124554
DN 150	487.00	1124555
DN 200	780.00	1124556
DN 250	1,185.00	1124557
DN 300	1,696.00	1124558



Sludge separator with flanges PN 16 with hole circles according to ANSI class 150, 2...12 inch (DN 50...300)

Body material Steel

Nominal size	kvs	Item No.
DN 50 - 2	72.00	1124650
DN 65 - 2 1/2	121.00	1124651
DN 80 - 3	158.00	1124652
DN 100 - 4	244.00	1124653
DN 125 - 5	351.00	1124654
DN 150 - 6	487.00	1124655
DN 200 - 8	780.00	1124656
DN 250 - 10	1,185.00	1124657
DN 300 - 12	1,696.00	1124658



Air vents



Air vent PN 10, with automatic shutoff device

For central heating and cooling systems with closed circuits. For operation with non-aggressive, harmless media, e.g. water or water-glycol mixtures with a max. glycol content of 30% according to VDI 2035 / ÖNORM 5195.

Body material	Brass	PU	10
Operating temperature	0 up to 110 °C		
Medium	Water Water-glycol mixture		

Nominal size	Connection size	Item No.
DN 10	G 3/8	1088303
DN 15	G 1/2	1088304
DN 20	G 3/4	1088306



Air vent with angle connection PN 10, nickel plated, without automatic shutoff device

Body material	Brass	Connection size	G 1/2
Operating temperature	0 up to 110 °C		PU
Medium	Water Water-glycol mixture		

Nominal size	Item No.
DN 15	1088404



Precision air vent PN 10, with automatic shutoff device

With air admission barrier in the vent valve.

Body material	Brass	Connection size	G 3/8
Operating temperature	0 up to 110 °C		PU
Medium	Water Water-glycol mixture		

Nominal size	Item No.
DN 10	1088203



2.5 Shutoff valves and other pipeline valves, connection technology

Connection technology **375**

Compression fitting - for products with internal thread.....	376
Connection set for external thread - for products without union nut and sealing ring.....	377
Connection sets for Cocon QTZ PN 25.....	379
Tailpipe sets for external thread, for products with union nuts and sealing rings.....	380
Individual parts.....	382



Compression fitting - for products with internal thread

Ofix Compression fitting

Ofix CEP, 1-fold, for copper pipes according to EN 1057. Pressure screw nickel plated, metal to metal sealing.



Suitable for:

- HydroControl VTR, MTR and ATR
- Hydromat DTR
- Hycocon VTZ, DTZ, ATZ, ETZ and HTZ
- Cocon QTZ, **only DN 15 and DN 20**
- Y-pattern valves PN 25 (10502.., 10503..)
- Straight seat valves PN 25 (10521..)
- Piston type spring assisted check valves PN 25 (10720.., 10721..)
- Strainers PN 25 (11200.., 11210..)

PU 10



Nominal size	Connection size	Item No.
DN 10	G 3/8 x 10 mm	1027151
DN 10	G 3/8 x 12 mm	1027152
DN 15	G 1/2 x 12 mm	1027153 °
DN 15	G 1/2 x 15 mm	1027155 °
DN 20	G 3/4 x 18 mm	1027157
DN 20	G 3/4 x 22 mm	1027158

Connection set for external thread - for products without union nut and sealing ring

Connection set with externally threaded tailpipes, flat/conically sealing

Consisting of two externally threaded tailpipes, union nuts and sealing rings. Nominal sizes DN 15 and DN 20 additionally with inserts for the transition from conically sealing to flat sealing with Cocon QTZ.

Suitable for:

- HydroControl V, D and A,
- Hycoflow VTB, Cocon QTZ PN 16,
- Cocon QTZ PN 25 (max. operating pressure 16 bar),
- Optibal W6,
- Strainers PN 25 (11410..) (max. operating pressure 16 bar)



Nominal size	Connection size	PU	Item No.
DN 10	R 3/8	10	1140791 °
DN 15	R 1/2	10	1140792 °
DN 20	R 3/4	10	1140793 °
DN 25	R 1	10	1140794 °
DN 32	R 1 1/4	5	1140795 °
DN 40	R 1 1/2	5	1140796 °
DN 50	R 2	5	1140797 °

Connection set with solder tailpipes, flat/conically sealing

Set as above, but with solder tailpipes.



Nominal size	Connection size	PU	Item No.
DN 15	18 mm	10	1140691 °
DN 15	15 mm	10	1140692 °
DN 20	18 mm	10	1140693 °
DN 20	22 mm	10	1140694 °
DN 25	28 mm	10	1140695 °
DN 32	35 mm	5	1140696 °
DN 40	42 mm	5	1140697 °
DN 50	54 mm	5	1140698 °

Connection set with weldable tailpipes, flat/conically sealing

Set as above, but with weldable tailpipes



Nominal size	PU	Item No.
DN 10	10	1140591 °
DN 15	10	1140592 °
DN 20	10	1140593 °
DN 25	10	1140594 °
DN 32	5	1140595 °
DN 40	5	1140596 °
DN 50	5	1140597 °

Connection set with internally threaded tailpipes, flat/conically sealing

Set as above, but with internally threaded tailpipes



Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	1140892
DN 20	Rp 3/4	10	1140893
DN 25	Rp 1	10	1140894
DN 32	Rp 1 1/4	5	1140895



Connection sets for Cocon QTZ PN 25

Connection set with externally threaded tailpipes for Cocon QTZ PN 25

Consisting of two tailpipes with O-ring and union nuts.

In conjunction with Cocon QTZ PN 25 suitable for operating pressure up to a maximum of 25 bar. Also suitable for Cocon QTZ PN 16 and Optibal W6 with operating pressure up to a maximum of 16 bar.



Nominal size	Connection size	PU	Item No.
DN 10	R 3/8	10	1140281
DN 15	R 1/2	10	1140282
DN 20	R 3/4	10	1140284
DN 25	R 1	10	1140285
DN 32	R 1 1/4	5	1140286

Connection set with solder tailpipes for Cocon QTZ PN 25

Set as above, but with solder tailpipes.

PU 10



Nominal size	Connection size	Item No.
DN 15	12 mm	1140181 °
DN 15	15 mm	1140182 °
DN 20	18 mm	1140183 °
DN 20	22 mm	1140184 °

Connection set with plug-in tailpipes for Cocon QTZ PN 25

Set as above, but with plug-in tailpipes.

PU 10



Nominal size	Connection size	Item No.
DN 15	10 mm	1140380 °
DN 15	12 mm	1140381 °
DN 15	15 mm	1140382 °
DN 20	18 mm	1140383 °
DN 20	22 mm	1140384 °

Connection set with internally threaded tailpipes for Cocon QTZ PN 25

Set as above, but with internally threaded tailpipes.



Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	1141292
DN 20	Rp 3/4	10	1141293
DN 25	Rp 1	10	1141294
DN 32	Rp 1 1/4	5	1141295



2.5

Tailpipe sets for external thread, for products with union nuts and sealing rings



Flat sealing externally threaded tailpipe, 2-fold

Suitable for:

- Hydrocontrol VTR and ATR
- Hydromat DTR
- Hycocon VTZ, DTZ, ATZ, ETZ and HTZ
- Flypass 4TZ - if no other products are connected to the device

Nominal size	Connection size	PU	Item No.
DN 10	R 3/8	10	1061491
DN 15	R 1/2	10	1061492
DN 20	R 3/4	10	1061493
DN 25	R 1	10	1061494
DN 32	R 1 1/4	5	1061495
DN 40	R 1 1/2	5	1061496
DN 50	R 2	5	1061497



Flat sealing solder tailpipe, 2-fold



Nominal size	Connection size	PU	Item No.
DN 15	18 mm	10	1061091 °
DN 15	15 mm	10	1061092 °
DN 20	18 mm	10	1061093 °
DN 20	22 mm	10	1061094 °
DN 25	28 mm	10	1061095 °
DN 32	35 mm	5	1061096 °
DN 40	42 mm	5	1061097 °
DN 50	54 mm	5	1061098 °

Flat sealing weldable tailpipe, 2-fold



Nominal size	PU	Item No.
DN 10	10	1060591 °
DN 15	10	1060592
DN 20	10	1060593
DN 25	10	1060594
DN 32	5	1060595
DN 40	5	1060596
DN 50	5	1060597

Flat sealing internally threaded tailpipe, 2-fold



Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	1061392 °
DN 20	Rp 3/4	10	1061393 °
DN 25	Rp 1	10	1061394 °
DN 32	Rp 1 1/4	5	1061395 °



2.5

Individual parts

Inserts

Inserts allow for the use of flat sealing tailpipes or connection sets with conically sealing valves.



Description

For Cocon QTZ and Optibal W6 DN 20 with G 1 externally threaded connection. Suitable for flat sealing tailpipes.

PU

Item No.

100

1650793

For Cocon QTZ, Optibal W6, Multiflex F and FQ, Multiblock T, TU, TQ, TFU, T-RTL and TQ-RTL, DN 15 with G 3/4 externally threaded connection. Suitable for flat sealing tailpipes. For cone according to DIN EN 16313 (Eurocone), set = 2 pieces

50

1661100

Adapter

One side external thread (valve connection), one side flat sealing external thread. For connecting valves with internal thread to the Flypass 4TZ. For this purpose, the adapter must be screwed into the internally threaded connection of the valve.



PU

10

Nominal size

Item No.

DN 15

1149075 °

DN 20

1149076 °

Double nipple

Both sides flat sealing external thread. For connecting flat sealing pipes or valves with union nut directly to the Flypass 4TZ.



PU

10

Nominal size

Item No.

DN 15

1149070

DN 20

1149071



Stations
Storage cylinders

3



3.1 Stations for heating circuit and cooling circuit connection

Regumat Stations for heating circuits **387**

Regumat S Stations for constant temperature heating circuits....	388
Regumat M3 Stations for variable temperature heating circuits..	393
Regumat S/M3 Accessories and spare parts.....	398
Regumat F Stations for fixed value control.....	404
Regumat F Accessories and spare parts.....	407

Regumat Stations for solid fuel boilers **409**

Regumat RTA Stations for return temperature increase.....	410
Regumat RTA Accessories and spare parts.....	413

Regumat Accessories **414**

Regumat Distributors.....	415
HydroFixx Hydraulic separator / distributor combination.....	419
Distributors / Hydraulic separators Accessories and spare parts.	422
Regumat Heat exchanger.....	424
Regumat Tailpipe sets.....	426
Regumat Thermal insulations.....	428
Regumat High-efficiency pumps.....	429
Regtronic Electronic controllers.....	431
Connection of the boiler and storage cylinder to the pipework...	437
MSM-Block Boiler safety devices.....	440
Expa-Con Cap valves.....	441
Check valves.....	442



3.1 Stations for heating circuit and cooling circuit connection

Regumat Stations for heating circuits **387**

Regumat S Stations for constant temperature heating circuits....	388
Regumat M3 Stations for variable temperature heating circuits..	393
Regumat S/M3 Accessories and spare parts.....	398
Regumat F Stations for fixed value control.....	404
Regumat F Accessories and spare parts.....	407



Regumat S Stations for constant temperature heating circuits



For the connection of a constant temperature heating circuit. The stations include all components which are necessary for the connection of heat generators, pumps and pipework. The stations enable the heating circuit to be shut off on the supply and return sides. The check valve in the return pipe prevents incorrect circulation. Flow and return can be changed individually on site.

The stations consist of a shutoff device with two ball valves to shut off the heating circuit,

two thermometers integrated in the handles to display the flow and return temperatures, a check valve to prevent incorrect circulation and a thermal insulation.

The Regumat stations are characterised by a time and space saving installation of the boilers to the pipework systems. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials. The stations can be modularly extended with various accessories.

Version	Constant temperature heating circuit	Three-way mixing valve	No
		Actuator	No
		Electric pipe contact safety switch	No
Supply pipe	Right	Max. operating pressure	10 bar
Optional supply pipe change	Yes	Leak tested	Yes
Thermal insulation	Yes		
Shutoff	Yes		
Check valve	Yes		

3.1

Regumat S-130 DN 20

With universal thermal insulation of modular construction.



Nominal size	DN 20	Centre distance	100 mm
Connection heating circuit	G 1 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 1 external thread flat sealing	Wall bracket	Yes
Pump length	130 mm	Pump ball valve	No
Length	190 mm	Pump ball valve with drain/flush valve	No
Width	230 mm	Insert for pressure relief device	No
Height	360 mm	kvs	5.80
Length product assembly	315 mm	Max. operating temperature	95 °C

Pump type	Item No.
Without pump	1355051
Grundfos ALPHA 2.1 15-60	1355057
Wilo-Stratos PICO 15/1-6	1355059

Regumat S-130 DN 25

With thermal insulation.



Nominal size	DN 25	Centre distance	125 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Universal thermal insulation	No
Connection heat generator	G 1 ½ external thread flat sealing	Wall bracket	No
Pump length	130 mm	Pump ball valve	No
Length	197 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	Extendable
Height	364 mm	kvs	7.40
Length product assembly	311 mm	Max. operating temperature	85 °C

Pump type

Item No.

Without pump	1355071
Wilo PARA 25-130/6-43/SC-9	1355074 °

Regumat S-180 DN 25 with pump ball valve

With universal thermal insulation of modular construction.



Nominal size	DN 25	Universal thermal insulation	Yes
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	Yes
Pump length	180 mm	Pump ball valve with drain/flush valve	No
Length	213 mm	Insert for pressure relief device	No
Width	248 mm	kvs	7.00
Height	465 mm	Max. operating temperature	95 °C
Length product assembly	411 mm	PU	30
Centre distance	125 mm		

Pump type

Item No.

Without pump	1357070
Wilo PARA 25-180/6-43/SC-9	1357072
Grundfos ALPHA 2.1 25-60	1357073

Regumat S-180 DN 25 for heat meters

With universal thermal insulation of modular construction. Suitable for the installation of a heat meter.



Nominal size	DN 25	Universal thermal insulation	Yes
Connection heating circuit	G 1 1/2 external thread, flat sealing	Wall bracket	No
Connection heat generator	G 1 1/2 external thread flat sealing	Pump ball valve	Yes
Pump length	180 mm	Pump ball valve with drain/flush valve	No
Length	520 mm	Insert for pressure relief device	No
Width	250 mm	kvs	7.40
Height	210 mm	Max. operating temperature	95 °C
Length product assembly	460 mm	PU	30
Centre distance	125 mm		

Pump type

Item No.

Without pump

1356050

Regumat S-180 DN 25 - compact design

With universal thermal insulation of modular construction.



Nominal size	DN 25	Universal thermal insulation	Yes
Connection heating circuit	G 1 1/2 external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 1/2 external thread flat sealing	Pump ball valve	Yes
Pump length	180 mm	Pump ball valve with drain/flush valve	No
Length	213 mm	Insert for pressure relief device	No
Width	248 mm	kvs	7.00
Height	393 mm	Max. operating temperature	95 °C
Length product assembly	339 mm	PU	30
Centre distance	125 mm		

Pump type

Item No.

Without pump

1357020

Grundfos ALPHA 2.1 25-60

1357027

Wilco-Stratos PICO 25/1-6

1357029

Regumat S-180 DN 32 with pump ball valve

With universal thermal insulation of modular construction.



Nominal size	DN 32	Centre distance	125 mm
Connection heating circuit	G 2 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	221 mm	Pump ball valve with drain/flush valve	No
Width	350 mm	Insert for pressure relief device	No
Height	530 mm	kvs	9.80
Length product assembly	445 mm	Max. operating temperature	95 °C

Pump type

Item No.

Without pump	1355075
Grundfos ALPHA 2.1 32-60	1355076
Wilo-Stratos PICO plus 30/1-6	1355079

Regumat S-180 plus DN 32 with pump ball valve

With universal thermal insulation of modular construction. Suitable for higher performance ranges.



Nominal size	DN 32	Centre distance	125 mm
Connection heating circuit	G 2 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	221 mm	Pump ball valve with drain/flush valve	No
Width	428 mm	Insert for pressure relief device	No
Height	626 mm	kvs	25.00
Length product assembly	540.5 mm	Max. operating temperature	95 °C

Pump type

PU

Item No.

Without pump	6	1355070
Grundfos MAGNA3 32-100		1355080
Wilo-Stratos 30 1-10		1355081

Regumat S-220 DN 40

With universal thermal insulation of modular construction.



Nominal size	DN 40	Universal thermal insulation	Yes
Connection heating circuit	G 2 internal thread	Wall bracket	No
Connection heat generator	G 2 external thread flat sealing	Pump ball valve	Yes
Pump length	220 mm	Pump ball valve with drain/flush valve	Yes
Length	340 mm	Insert for pressure relief device	No
Width	428 mm	kvs	29.30
Height	850 mm	Max. operating temperature	95 °C
Length product assembly	797 mm	PU	2
Centre distance	180 mm		

Pump type

Item No.

Without pump	1358240
Wilo-Stratos 40/1-8	1358251
Grundfos MAGNA3 40-100F	1358252

Regumat S-280 DN 50

With universal thermal insulation of modular construction.



Nominal size	DN 50	Universal thermal insulation	Yes
Connection heating circuit	G 2 internal thread	Wall bracket	No
Connection heat generator	G 2 external thread flat sealing	Pump ball valve	Yes
Pump length	280 mm	Pump ball valve with drain/flush valve	Yes
Length	340 mm	Insert for pressure relief device	No
Width	428 mm	kvs	29.30
Height	850 mm	Max. operating temperature	95 °C
Length product assembly	797 mm	PU	2
Centre distance	180 mm		

Pump type

Item No.

Without pump	1358540
Wilo-Stratos 50/1-12	1358551
Grundfos MAGNA3 50-120F	1358552

Regumat M3 Stations for variable temperature heating circuits



For the connection of a variable temperature heating circuit. The stations include all components which are necessary for the connection of heat generators, pumps and pipework. The stations enable the heating circuit to be shut off on the supply and return sides. The check valve in the return pipe prevents incorrect circulation. Flow and return can be changed individually on site.

The stations consist of a shutoff device with two ball valves to shut off the heating circuit, two thermometers integrated in the handles

to display the flow and return temperatures, a check valve to prevent incorrect circulation, a three-way mixing valve with actuator and a thermal insulation.

The Regumat stations are characterised by a time and space saving installation of the boilers to the pipework systems. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials. The stations can be modularly extended with various accessories.

Version	Variable temperature heating circuit	Three-way mixing valve	Yes
		Actuator	Yes
Supply pipe	Right	Temperature control	Electronic
Optional supply pipe change	Yes	Electric pipe contact safety switch	No
Thermal insulation	Yes	Max. operating pressure	10 bar
Shutoff	Yes	Leak tested	Yes
Check valve	Yes		



3.1

Regumat M3-130 DN 20

With universal thermal insulation of modular construction.



Nominal size	DN 20	Centre distance	100 mm
Connection heating circuit	G 1 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 1 external thread flat sealing	Wall bracket	Yes
Pump length	130 mm	Pump ball valve	No
Length	190 mm	Pump ball valve with drain/flush valve	No
Width	230 mm	Insert for pressure relief device	No
Height	360 mm	kvs	5.10
Length product assembly	315 mm	Max. operating temperature	95 °C

Pump type	PU	Item No.
Without pump		1355251
Grundfos ALPHA 2.1 15-60		1355257
Wilo-Stratos PICO 15/1-6	30	1355259



Regumat M3-130 DN 25

With thermal insulation.

Nominal size	DN 25	Centre distance	125 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Universal thermal insulation	No
Connection heat generator	G 1 ½ external thread flat sealing	Wall bracket	No
Pump length	130 mm	Pump ball valve	No
Length	197 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	Extendable
Height	364 mm	kvs	4.30
Length product assembly	311 mm	Max. operating temperature	85 °C

Pump type

Item No.

Without pump	1355271
Wilo PARA 25-130/6-43/SC-9	1355274 °

Regumat M3-180 DN 25 with pump ball valve

With universal thermal insulation of modular construction.



Nominal size	DN 25	Universal thermal insulation	Yes
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	Yes
Pump length	180 mm	Pump ball valve with drain/flush valve	No
Length	213 mm	Insert for pressure relief device	No
Width	248 mm	kvs	5.50
Height	465 mm	Max. operating temperature	95 °C
Length product assembly	411 mm	PU	30
Centre distance	125 mm		

Pump type

Item No.

Without pump	1357270
Wilo PARA 25-180/6-43/SC-9	1357272
Grundfos ALPHA 2.1 25-60	1357273

Regumat M3-180 DN 25 for heat meters

With universal thermal insulation of modular construction. Suitable for the installation of a heat meter.



Nominal size	DN 25	Centre distance	125 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Wall bracket	No
Pump length	180 mm	Pump ball valve	Yes
Length	511 mm	Pump ball valve with drain/flush valve	No
Width	250 mm	Insert for pressure relief device	No
Height	195 mm	kvs	4.30
Length product assembly	460 mm	Max. operating temperature	95 °C

Pump type

Item No.

Without pump

1356250

Regumat M3-180 DN 25 - compact design

With universal thermal insulation of modular construction.



Nominal size	DN 25	Universal thermal insulation	Yes
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
Pump length	180 mm	Pump ball valve with drain/flush valve	No
Length	213 mm	Insert for pressure relief device	No
Width	248 mm	kvs	5.50
Height	393 mm	Max. operating temperature	95 °C
Length product assembly	339 mm	PU	30
Centre distance	125 mm		

Pump type

Item No.

Without pump

1357220

Grundfos ALPHA 2.1 25-60

1357227

Wilo-Stratos PICO 25/1-6

1357229



Regumat M3-180 DN 32 with pump ball valve

With universal thermal insulation of modular construction.

Nominal size	DN 32	Centre distance	125 mm
Connection heating circuit	G 2 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	221 mm	Pump ball valve with drain/flush valve	No
Width	350 mm	Insert for pressure relief device	No
Height	530 mm	kvs	8.10
Length product assembly	445 mm	Max. operating temperature	95 °C

Pump type

	PU	Item No.
Without pump	16	1355275
Grundfos ALPHA 2.1 32-60		1355276
Wilo-Stratos PICO plus 30/1-6		1355279



Regumat M3-180 plus DN 32 with pump ball valve

With universal thermal insulation of modular construction. Suitable for higher performance ranges.

Nominal size	DN 32	Centre distance	125 mm
Connection heating circuit	G 2 external thread, flat sealing	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	221 mm	Pump ball valve with drain/flush valve	No
Width	428 mm	Insert for pressure relief device	No
Height	626 mm	kvs	15.00
Length product assembly	540.5 mm	Max. operating temperature	95 °C

Pump type

	PU	Item No.
Without pump	6	1355270
Grundfos MAGNA3 32-100		1355280
Wilo-Stratos 30 1-10	6	1355281

Regumat M3-220 DN 40

With universal thermal insulation of modular construction.



Nominal size	DN 40	Universal thermal insulation	Yes
Connection heating circuit	G 2 internal thread	Wall bracket	No
Connection heat generator	G 2 external thread flat sealing	Pump ball valve	Yes
Pump length	220 mm	Pump ball valve with drain/flush valve	Yes
Length	340 mm	Insert for pressure relief device	No
Width	428 mm	kvs	24.80
Height	850 mm	Max. operating temperature	95 °C
Length product assembly	797 mm	PU	2
Centre distance	180 mm		

Pump type

Item No.

Without pump	1358340
Wilo-Stratos 40/1-8	1358351
Grundfos MAGNA3 40-100F	1358352

Regumat M3-280 DN 50

With universal thermal insulation of modular construction.



Nominal size	DN 50	Universal thermal insulation	Yes
Connection heating circuit	G 2 internal thread	Wall bracket	No
Connection heat generator	G 2 external thread flat sealing	Pump ball valve	Yes
Pump length	280 mm	Pump ball valve with drain/flush valve	Yes
Length	340 mm	Insert for pressure relief device	No
Width	428 mm	kvs	24.80
Height	850 mm	Max. operating temperature	95 °C
Length product assembly	797 mm	PU	2
Centre distance	180 mm		

Pump type

Item No.

Without pump	1358640
Wilo-Stratos 50/1-12	1358651
Grundfos MAGNA3 50-120F	1358652

Regumat S/M3 Accessories and spare parts

Wall bracket



Description	Item No.
For Regumat DN 25 (manufactured until 2015), with fixing parts	1352096
For Regumat DN 40/50, with fixing parts	1352098
For Regumat DN 25 (manufactured from 2015), with fixing parts	1357097

Heat meter installation set



Description	Item No.
For Regumat S-180 DN 25 with pump ball valve (manufactured until 2015)	1350443
For Regumat M3/M4-180 DN 25 with pump ball valve (manufactured until 2015)	1350444
For Regumat S/M3-180 DN 25 with pump ball valve (manufactured from 2015)	1352250

Plug



Description	Item No.
For heat meter installation set (manufactured until 2015), M 10 x 1.0	1350490

Adapter



Description	Item No.
For heat meter installation set, M 10 x 1 external thread x M 10 x 1 internal thread x Ø 5.6	1352258
For heat meter installation set, M 10 x 1 external thread x M 12 x 1.5 external thread x Ø 6.2	1352259

Spacer



Description	Item No.
For Regumat-180 DN 25 - compact design	1357085
For Regumat S (manufactured from 2015), with union nuts and seals	1357086

Check valve



Description	Item No.
For Regumat S (manufactured from 2015), with union nuts and seals	1357087

Installation relay



Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089

Heating circuit controller extension set



Description	Item No.
For Regumat-180 DN 25 (manufactured from 2015), with Regtronic RH and controller bracket	1357290

Replacement thermal insulation

With one-piece front insulation shell



Description	Item No.
For Regumat-130 DN 25	1355090



Replacement universal thermal insulation

Description	Item No.
For Regumat-180 DN 25 with pump ball valve (manufactured until 2015)	1356097
For Regumat-180 DN 25 without pump ball valve (manufactured until 2015)	1356098
For Regumat-180 DN 25 (manufactured from 2015), with expanded metal	1357096

Replacement shutoff device



Description	Item No.
For Regumat DN 25	1353181

Replacement ball valve



Description	Item No.
For Regumat DN 20	1351703
For Regumat DN 25 (manufactured from 2015)	1357090

Replacement insert for pressure relief device



Description	Item No.
For Regumat DN 25 (manufactured until 2015), preset to 200 mbar	1353390

Replacement thermometer



Description	Item No.
For Regumat and Regusol stations DN 20, blue	1351701
For Regumat and Regusol stations DN 20, red	1351702
For Optibal PK, Regumat DN 25 to DN 50 and Regucirc M, blue	1355093
For Optibal PK, Regumat DN 25 to DN 50 and Regucirc M, red	1355094
For Regumat-180 DN 25, blue	1356293
For Regumat-180 DN 25, red	1356294
For Regumat DN 25 (manufactured from 2015) and DN 32 (manufactured from 2013), blue	1357098
For Regumat DN 25 (manufactured from 2015) and DN 32 (manufactured from 2013), red	1357099

Replacement flanged pipe

With check valve



Description	Item No.
For Regumat-180 DN 25 with pump ball valve, length 279 mm	1352272
For Regumat-180 DN 25, length 180 mm	1352273
For Regumat-130 DN 25, length 212 mm	1352296
For Regumat-180 DN 25, length 361 mm	1352297
For Regumat DN 25 with pump ball valve (manufactured from 2015)	1357091

Replacement pump ball valve



Description	Item No.
For Regumat DN 25 with pump ball valve (manufactured from 2015)	1357089

Replacement high-efficiency pump



Description	Item No.
For Regumat-180 DN 32, KSB Calio 30-120	1358165 °

Replacement three-way mixing valve



Description	Item No.
For Regumat M3 DN 25 (manufactured until 2015), without manually adjustable bypass	1350271
For Regumat M3 DN 25 (manufactured until 2015), with manually adjustable bypass	1350281
For Regumat M3 DN 20	1351704
For Regumat M3 DN 32 (manufactured from 2013)	1355299
For Regumat M3 DN 25 (manufactured from 2015)	1357092

Replacement setting group



Description	Item No.
For manual adjustment of the three- and four-way mixing valve	1651500

Replacement plug



Description	Item No.
For three-way mixing valve with manually adjustable bypass, for closing the bypass channel	1350292

Replacement regulating insert



Description	PU	Item No.
For three-way mixing valve DN 25 (manufactured until 2015), with seal set		1350285
For four-way mixing valve DN 25, for Lineg actuators (without adapter), with seal set	30	1350294
For four-way mixing valve DN 25, for ESBE actuators (without adapter), with seal set	30	1350295
For three-way mixing valve DN 25 (manufactured from 2015)		1357095

Replacement seal set



Description	PU	Item No.
For three-way mixing valve DN 25 (manufactured until 2015)	20	1350289
For four-way mixing valve DN 25		1350299
For three-way mixing valve DN 25 (manufactured from 2015)	20	1357094



Replacement adapter

Description	Item No.
For Oventrop actuators (manufactured until 2015)	1350296
For Oventrop actuators (manufactured until 2005)	1350297
For Oventrop actuators (manufactured from 2015)	1357088

Replacement actuator



Description	Item No.
For Regumat M3 DN 20/25/32, 24 V (0-10 V), operating time 140 s, torque 5 Nm	1350951
For Regumat M3 DN 20/25/32, 24 V (three point), operating time 140 s, torque 5 Nm	1350952
For Regumat M3 DN 20/25/32, 230 V (three point), operating time 140 s, torque 5 Nm	1350953
For Regumat M3 DN 32 plus/40/50, 230 V (three point), operating time 140 s, torque 15 Nm	1350956
For Regumat M3 DN 32 plus/40/50, 24 V (0-10 V), operating time 140 s, torque 10 Nm	1350958
For Regumat M3 DN 20/25/32, 230 V, operating time 140 s, torque 5 Nm, with fixed flow temperature value control	1351055
For Regumat M3 DN 25 (manufactured from 2015), 230 V (three point), operating time 140 s, torque 5 Nm, with mounting plate and adapter	1357093
For Regumat M3 DN 20/25/32, 230 V (three point), operating time 35 s, torque 5 Nm	1361098



Replacement mounting set

For subsequent installation of the actuators in the Regumat DN 25 stations with pump ball valve and Regumat DN 25 - compact design.



Description	Item No.
For actuators without mounting set, for installation in Regumat M3 DN 25 (manufactured from 2015)	1350290

Regumat F Stations for fixed value control



For the connection of a thermally controlled heating circuit. The stations are used for flow temperature control and limitation in combined radiator/surface heating systems. They include all components which are necessary for the connection of heat generators, pumps and pipework. The stations enable the heating circuit to be shut off on the supply and return sides. The check valve in the return pipe prevents incorrect circulation.

two thermometers integrated in the handles to display the flow and return temperatures, a check valve to prevent incorrect circulation, a three-way mixing valve with temperature controller and a thermal insulation.

The Regumat stations are characterised by a time and space saving installation of the boilers to the pipework systems. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials. The stations can be modularly extended with various accessories.

The stations consist of a shutoff device with two ball valves to shut off the heating circuit,

Version	Fixed value control	Pump ball valve with drain/flush valve	No
Nominal size	DN 25	Insert for pressure relief device	No
Connection heating circuit	G 1 ½ external thread, flat sealing	Check valve	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Three-way mixing valve	Yes
Supply pipe	Right	Electric pipe contact safety switch	Yes
Width	248 mm	Max. operating pressure	10 bar
Centre distance	125 mm	Leak tested	Yes
Thermal insulation	Yes		
Shutoff	Yes		

3.1

Regumat F-130 DN 25

With thermal insulation.



Pump length	130 mm	Wall bracket	No
Optional supply pipe change	No	Pump ball valve	No
Length	197 mm	Temperature control	Thermostatic
Height	364 mm	Control range	20 up to 50 °C
Length product assembly	312 mm	kvs	2.20
Actuator	No	Max. operating temperature	85 °C
Universal thermal insulation	No		

Pump type	PU	Item No.
Wilco PARA 25-130/6-43/SC-9		1354166 °
Without pump	30	1354171

Regumat F-180 DN 25 with pump ball valve

With universal thermal insulation of modular construction.



Pump length	180 mm	Wall bracket	No
Optional supply pipe change	No	Pump ball valve	Yes
Length	200 mm	Temperature control	Thermostatic
Height	512 mm	Control range	20 up to 50 °C
Length product assembly	460 mm	kvs	2.20
Actuator	No	Max. operating temperature	95 °C
Universal thermal insulation	Yes	PU	30

Pump type	Item No.
Without pump	1354270
Grundfos ALPHA 2.1 25-60	1354274
Wilo-Stratos PICO 25/1-6	1354276

Regumat F-180 DN 25 with pump ball valve and without temperature controller

With universal thermal insulation of modular construction.



Pump length	180 mm	Wall bracket	No
Optional supply pipe change	No	Pump ball valve	Yes
Length	200 mm	Temperature control	Thermostatic
Height	512 mm	Control range	20 up to 50 °C
Length product assembly	460 mm	kvs	2.20
Actuator	No	Max. operating temperature	95 °C
Universal thermal insulation	Yes		

Pump type	Item No.
Without pump	1354272

Regumat F-180 DN 25

With universal thermal insulation of modular construction.



Pump length	180 mm	Wall bracket	No
Optional supply pipe change	No	Pump ball valve	No
Length	200 mm	Temperature control	Thermostatic
Height	512 mm	Control range	20 up to 50 °C
Length product assembly	361 mm	kvs	2.20
Actuator	No	Max. operating temperature	95 °C
Universal thermal insulation	Yes		

Pump type	Item No.
Without pump	1354070

Regumat FR-180 DN 25

With universal thermal insulation of modular construction. Suitable for open vented surface heating systems.



Pump length	180 mm	Wall bracket	No
Optional supply pipe change	No	Pump ball valve	No
Length	200 mm	Temperature control	Thermostatic
Height	414 mm	Control range	20 up to 50 °C
Length product assembly	361 mm	kvs	2.20
Actuator	No	Max. operating temperature	95 °C
Universal thermal insulation	Yes		

Pump type

Item No.

Grundfos ALPHA 2.1 25-60N

1354087

Wilo-Stratos PICO plus 25/1-6 N

1354097

Regumat MF-180 DN 25 with pump ball valve and integrated fixed flow temperature value control

With universal thermal insulation of modular construction.



Pump length	180 mm	Wall bracket	Yes
Optional supply pipe change	Yes	Pump ball valve	Yes
Length	213 mm	Temperature control	Electronic
Height	465 mm	Control range	0 up to 95 °C
Length product assembly	411 mm	kvs	5.50
Actuator	Yes	Max. operating temperature	95 °C
Universal thermal insulation	Yes	PU	30

Pump type

Item No.

Without pump

1354260

Regumat F Accessories and spare parts

Wall bracket



Description

For Regumat DN 25 (manufactured until 2015), with fixing parts

Item No.

1352096

Replacement thermal insulation

With one-piece front insulation shell



Description

For Regumat-130 DN 25

Item No.

1355090



Replacement universal thermal insulation



Description

For Regumat-180 DN 25 with pump ball valve (manufactured until 2015)

For Regumat-180 DN 25 without pump ball valve (manufactured until 2015)

Item No.

1356097

1356098

Replacement shutoff device

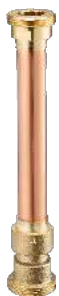


Description

For Regumat DN 25

Item No.

1353181



Replacement flanged pipe

With check valve

Description	Item No.
For Regumat-180 DN 25 with pump ball valve, length 279 mm	1352272
For Regumat-180 DN 25, length 180 mm	1352273



Replacement high-efficiency pump

Description	Item No.
For Regumat-180 DN 25, Wilo PARA 25-180/6-43/SC-9	1355159
For Regumat-180 DN 25, Grundfos ALPHA 2.1 25-60N	1357159 °
For Regumat-180 DN 25, Wilo PICO plus 25/1-6 N	1357160 °

3.1

Replacement three-way mixing valve



Description	Item No.
For Regumat F, without temperature controller	4723050

Replacement temperature controller

With contact sensor and heat conducting base



Description	PU	Item No.
Capillary 2 m, control range 20 - 50 °C	528	1142861
Capillary 2 m, control range 30 - 60 °C		1142862
Capillary 2 m, control range 40 - 70 °C	500	1142863
Capillary 2 m, control range 50 - 80 °C	500	1142864



3.1 Stations for heating circuit and cooling circuit connection

Regumat Stations for solid fuel boilers **409**

Regumat RTA Stations for return temperature increase.....	410
Regumat RTA Accessories and spare parts.....	413



Regumat RTA Stations for return temperature increase



For the connection of a solid fuel boiler. The return temperature to the solid fuel boiler is at least approx. 55 °C and thus above the dew point. It prevents condensate tar formation. During start-up mode the boiler circuit is short circuited. Hot supply water is fed to the return flow via the bypass. When the return temperature of 55 °C is reached, the mixing valve opens.

The stations consist of a shutoff device with two ball valves, two thermometers integrated in the handles to display the flow and return

temperatures, a check valve to prevent incorrect circulation, a three-way mixing valve with temperature controller and a thermal insulation.

The Regumat stations are characterised by a time and space saving installation of the boilers to the pipework systems. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials. The stations can be modularly extended with various accessories.

Version	Return temperature increase	Insert for pressure relief device	No
Optional supply pipe change	No	Check valve	Yes
Width	248 mm	Three-way mixing valve	Yes
Centre distance	125 mm	Actuator	No
Thermal insulation	Yes	Temperature control	Thermostatic
Wall bracket	No	Control range	40 up to 70 °C
Shutoff	Yes	Electric pipe contact safety switch	No
Pump ball valve	No	Max. operating pressure	10 bar
Pump ball valve with drain/flush valve	No	Leak tested	Yes

3.1

Regumat RTA-130 VR DN 25 with supply on the right hand side

With thermal insulation.



Nominal size	DN 25	Length	197 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Height	364 mm
Connection heat generator	G 1 ½ external thread flat sealing	Length product assembly	321 mm
Pump length	130 mm	Universal thermal insulation	No
Supply pipe	Right	kvs	3.90
		Max. operating temperature	85 °C

Pump type

Wilo PARA 25-130/6-43/SC-9

Item No.

1354795

Regumat RTA-130 VL DN 25 with supply on the left hand side

With thermal insulation.



Nominal size	DN 25	Length	197 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Height	364 mm
Connection heat generator	G 1 ½ external thread flat sealing	Length product assembly	321 mm
Pump length	130 mm	Universal thermal insulation	No
Supply pipe	Left	kvs	3.90
		Max. operating temperature	85 °C

Pump type

Item No.

Wilo PARA 25-130/6-43/SC-3

1354798

Regumat RTA-130 TOP DN 25 with connection from the top

With thermal insulation.



Nominal size	DN 25	Height	364 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Length product assembly	321 mm
Connection heat generator	G 1 ½ external thread flat sealing	Universal thermal insulation	No
Pump length	130 mm	kvs	3.90
Supply pipe	Right	Max. operating temperature	85 °C
Length	197 mm	PU	30

Pump type

Item No.

Wilo PARA 25-130/6-43/SC-3

1354783

Regumat RTA-180 DN 25

With thermal insulation.



Nominal size	DN 25	Length	211 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Height	513 mm
Connection heat generator	G 1 ½ external thread flat sealing	Length product assembly	460 mm
Pump length	180 mm	Universal thermal insulation	No
Supply pipe	Right	kvs	3.90
		Max. operating temperature	85 °C

Pump type

PU

Item No.

Wilo PARA 25-180/6-43/SC-9

1354691

Without pump

30

1354692



Regumat RTA-180 DN 25

With universal thermal insulation of modular construction.

Nominal size	DN 25	Length	200 mm
Connection heating circuit	G 1 ½ external thread, flat sealing	Height	414 mm
Connection heat generator	G 1 ½ external thread flat sealing	Length product assembly	371 mm
Pump length	180 mm	Universal thermal insulation	Yes
Supply pipe	Right	kvs	3.90
		Max. operating temperature	95 °C

Pump type

	PU	Item No.
Without pump	30	1354580
Grundfos ALPHA 2.1 25-60		1354586 °
Wilo PARA 25-180/6-43/SC-9	30	1354587



Regumat RTA-180 DN 32

With thermal insulation.

Nominal size	DN 32	Length	207 mm
Connection heating circuit	G 2 external thread, flat sealing	Height	471 mm
Connection heat generator	G 2 external thread flat sealing	Length product assembly	419 mm
Pump length	180 mm	Universal thermal insulation	No
Supply pipe	Right	kvs	5.30
		Max. operating temperature	85 °C

Pump type

	Item No.
Wilo PARA 30-180/6-43/SC-9	1354571

Regumat RTA Accessories and spare parts

Wall bracket



Description

For Regumat DN 25 (manufactured until 2015), with fixing parts

Item No.

1352096

Thermal drainage protection device



Description

For temperature protection of solid fuel boilers, DN 20

Item No.

1354699

Replacement mixing valve group



Description

For Regumat RTA DN 25

Item No.

1350260

Replacement thermometer



Description

For Optibal PK, Regumat DN 25 to DN 50 and Regucirc M, blue

For Optibal PK, Regumat DN 25 to DN 50 and Regucirc M, red

For Regumat-180 DN 25, blue

For Regumat-180 DN 25, red

Item No.

1355093

1355094

1356293

1356294



3.1



3.1 Stations for heating circuit and cooling circuit connection

Regumat Accessories **414**

Regumat Distributors.....	415
HydroFixx Hydraulic separator / distributor combination.....	419
Distributors / Hydraulic separators Accessories and spare parts.....	422
Regumat Heat exchanger.....	424
Regumat Tailpipe sets.....	426
Regumat Thermal insulations.....	428
Regumat High-efficiency pumps.....	429
Regtronic Electronic controllers.....	431
Connection of the boiler and storage cylinder to the pipework...	437
MSM-Block Boiler safety devices.....	440
Expa-Con Cap valves.....	441
Check valves.....	442



3.1

Regumat Distributors



Distributor for Regumat DN 20

Connection heating circuit	G 1 union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	100 mm	Max. flow rate	2.5 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	60 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar

Heating circuits	Item No.
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2	1351482
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3	1351483
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Distributor for Regumat DN 25

Wall bracket available as accessory.



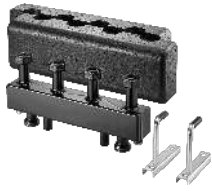
Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Max. flow rate	4 m ³ /h
Centre distance	125 mm	Recommended range of application (ΔT = 20 K)	95 kW
Body material	Bronze	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	4 bar
Material thermal insulation	Expanded polypropylene (EPP)	PU	35

Heating circuits	Item No.
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2	1351571
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3.1



Distributor for Regumat DN 25

Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. flow rate	4 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	95 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar

	Heating circuits	PU	Item No.
	2		1351582
	3	25	1351583
	4	15	1351584
	5		1351585
	6		1351586
	7		1351587
	8		1351588

3.1



Compact distributor for Regumat DN 25

Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. flow rate	4 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	95 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar

	Heating circuits	Item No.
	3	1351783
	5	1351785

Modular distributor for Regumat DN 25

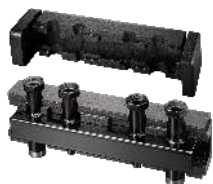
Wall bracket available as accessory.



Connection heating circuit	G 1 1/2 union nut, flat sealing	Wall bracket	No
Connection heat generator	G 1 1/2 external thread flat sealing	Max. flow rate	4 m ³ /h
Centre distance	125 mm	Recommended range of application (ΔT = 20 K)	95 kW
Body material	Brass	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	4 bar
Material thermal insulation	Expanded polypropylene (EPP)		

Heating circuits	Item No.
1	1351470
2	1351471
3	1351472

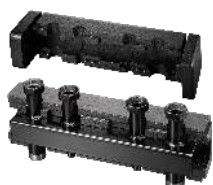
Distributor for Regumat DN 32 with pump ball valve



Connection heating circuit	G 2 union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 2 external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. operating temperature	110 °C
Body material	Steel	Max. operating pressure	4 bar
Thermal insulation	Yes		

Heating circuits	Material thermal insulation	Max. flow rate (m ³ /h)	Recommended range of application (ΔT = 20 K) (kW)	PU	Item No.
2	Expanded polypropylene (EPP)	9	210		1351672
3	Expanded polypropylene (EPP)	9	210	5	1351673
4	PU rigid foam	12	280		1351674
5	PU rigid foam	12	280		1351675

Distributor for Regumat plus DN 32 with pump ball valve



Connection heating circuit	G 2 union nut, flat sealing	Material thermal insulation	PU rigid foam
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Centre distance	125 mm	Max. operating temperature	110 °C
Body material	Steel	Max. operating pressure	4 bar
Thermal insulation	Yes		

Heating circuits	Max. flow rate (m ³ /h)	Recommended range of application (ΔT = 20 K) (kW)	Item No.
2	12	280	1351662
3	12	280	1351663
4	26	600	1351664
5	26	600	1351665



Distributor for Regumat DN 40/50

Connection heating circuit	G 2 union nut, flat sealing	Wall bracket	No
Connection heat generator	Flanged connection DN 80	Max. flow rate	26 m ³ /h
Centre distance	180 mm	Recommended range of application ($\Delta T = 20$ K)	600 kW
Body material	Steel	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	6 bar
Material thermal insulation	PU rigid foam		

	Heating circuits	Item No.
	2	1351692
	3	1351693
	4	1351694



3.1

HydroFixx Hydraulic separator / distributor combination

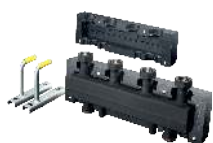
HydroFixx for Regumat DN 20



Connection heating circuit	G 1 union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	100 mm	Max. flow rate	2.5 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	60 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	PU rigid foam	Max. operating pressure	4 bar

Heating circuits	Item No.
2	1351568
3	1351569

HydroFixx for Regumat DN 25



Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. flow rate	4 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	95 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	PU rigid foam	Max. operating pressure	4 bar

Heating circuits	PU	Item No.
2	25	1351698
3	10	1351699

MonoFixx for Regumat DN 25



Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. flow rate	4 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	95 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar

Heating circuits	Item No.
1	1351589

Hydraulic separator DN 25



Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 1 ½ external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	280 mm	Max. flow rate	4 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	95 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar
		PU	30

Heating circuits	Item No.
1	1351590

HydroFixx for Regumat DN 32 with pump ball valve



Connection heating circuit	G 2 union nut, flat sealing	Wall bracket	Yes
Connection heat generator	G 2 external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	125 mm	Max. flow rate	9 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	210 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	PU rigid foam	Max. operating pressure	4 bar

Heating circuits	Item No.
2	1351758
3	1351759

HydroFixx for Regumat plus DN 32 with pump ball valve



Connection heating circuit	G 2 union nut, flat sealing	Material thermal insulation	PU rigid foam
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Centre distance	125 mm	Max. operating temperature	110 °C
Body material	Steel	Max. operating pressure	4 bar
Thermal insulation	Yes		

Heating circuits	Max. flow rate (m ³ /h)	Recommended range of application (ΔT = 20 K) (kW)	Item No.
2	12	280	1351678
3	26	600	1351679

Hydraulic separator DN 32



Connection heating circuit	G 2 external thread, flat sealing	Wall bracket	Yes
Connection heat generator	G 2 external thread flat sealing	Material wall bracket	Steel, galvanised
Centre distance	550 mm	Max. flow rate	8 m ³ /h
Body material	Steel	Recommended range of application (ΔT = 20 K)	190 kW
Thermal insulation	Yes	Max. operating temperature	110 °C
Material thermal insulation	Expanded polypropylene (EPP)	Max. operating pressure	4 bar
		PU	10

	Heating circuits	Item No.
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	1	1351591
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HydroFixx for Regumat DN 40 / 50



Connection heating circuit	G 2 union nut, flat sealing	Wall bracket	No
Connection heat generator	Flanged connection DN 80	Max. flow rate	26 m ³ /h
Centre distance	180 mm	Recommended range of application (ΔT = 20 K)	600 kW
Body material	Steel	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	6 bar
Material thermal insulation	PU rigid foam		

	Heating circuits	Item No.
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	2	1351778
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	3	1351779
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Distributors / Hydraulic separators Accessories and spare parts

Wall bracket



Description

- For Regumat distributor DN 25, bronze, with fixing material
- For Regumat modular distributor DN 25, brass, with fixing material

Item No.

- 1351592
- 1351593

Stand bracket



Description

- For distributors/HydroFixx DN 32 plus/40/50, with fixing material

Item No.

- 1351697

3.1

Wall bracket



Description

- For distributors/HydroFixx DN 32 plus/40/50, with fixing material

Item No.

- 1351695

Plug set



Description

- For closing a pair of heating circuits, 2-fold, DN 25
- For closing a pair of heating circuits, 2-fold, DN 32

Item No.

- 1351770
- 1351771

Connection fitting



Description	Item No.
For Regumat RTA below the distributor, 2 x G 1½ internal thread, 2-fold	1351655

Connection piece



Description	PU	Item No.
From distributor DN 25 to Regumat DN 32 without pump ball valve	25	1351651
From distributor DN 32 to Regumat DN 25	10	1351652
From distributor DN 25 to Regumat DN 20, 2-fold		1351654
From distributor DN 40/50 to Regumat DN 25, 2-fold		1351657
From distributor DN 40/50 to Regumat DN 32, 2-fold		1351658

Regumat Heat exchanger

Regumat Heat exchanger with connection fitting



Modular extension for Regumat DN 25.

For extending existing heating circuits by a heat exchanger and e.g. a fixed value control station, for open vented surface heating systems.

Description	Item No.
14 plates up to 14 kW (primary circuit 70/50°C, secondary circuit 40/50°C)	1351596
30 plates up to 28 kW (primary circuit 70/50°C, secondary circuit 40/50°C)	1351696

Safety group set



Description	Item No.
For Regumat heat exchanger, for the protection of pressurised systems	1351598

Connection piece set



Description	Item No.
For Regumat heat exchanger, for connecting a Regumat station to the primary side	1351597

Regumat Heat exchanger without connection fitting



Description	Item No.
20 plates up to 40 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351790
30 plates up to 55 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351791
40 plates up to 70 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351792
50 plates up to 85 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351793

Thermal insulation

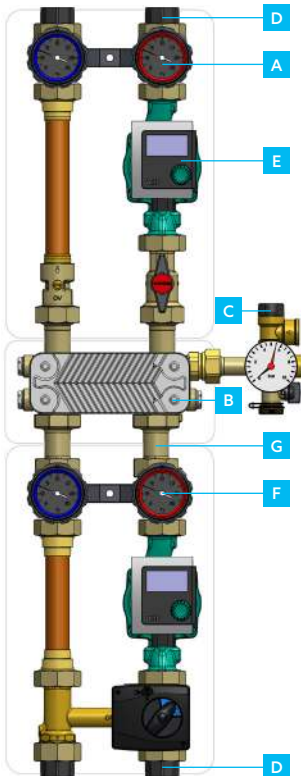


Description

Description	Item No.
For Regumat heat exchanger item no. 1351790/1351791, made of expanded polypropylene	1359591
For Regumat heat exchanger item no. 1351792/1351793, made of expanded polypropylene	1359592



Example 1	Item no.	
A Regumat FR-180 DN 25		
with pump Grundfos ALPHA 2.1 25-60 N	1354087	
with pump Wilo-Stratos PICO 25/1-6 RG	1354097	
B Regumat Heat exchanger with 14 plates up to 14 kW	1351596	For extending existing heating circuits by a heat exchanger and a fixed value control station, for open vented heating systems.
C Safety group set	1351598	
D Tailpipe set	13504..	Installation dimensions: H = 640 mm, W = 250 mm



Example 2	Item no.	
A Regumat S-180 DN 25		
with pump Wilo-Stratos PICO 25/1-6 RG	1357029	
B Regumat Heat exchanger with 30 plates up to 28 kW	1351696	Please note: When swapping the supply, both pumps must always be changed.
C Safety group set	1351598	
D Tailpipe set	13504..	
E High-efficiency pump with stainless steel / bronze housing 180 mm Wilo-Stratos PICO 25/1-6 RG	1357160	
F Regumat M3-180 DN 25		Delivered with supply on the right hand side.
with pump Wilo-Stratos PICO 25/1-6 RG	1357229	
G Connection piece set	1351597	Installation dimensions: H = 960 mm, W = 250 mm

Regumat Tailpipe sets



Regumat Tailpipe set DN 20

For connection to Regumat DN 20 and Regumaq X-25/X-45.

Description	Item No.
Weldable tailpipe set, G 1 union nut, 2-fold	1350445 °
Solder tailpipe set 22 mm, G 1 union nut, 2-fold	1350446 °
Connection set nipple Rp 3/4, G 1 union nut, 2-fold	1350447 °
Threaded tailpipe set R 3/4, G 1 union nut, 2-fold	1350448 °
Press connection set 26 x 3 mm, G 1 union nut, 2-fold	1350449 °



Regumat Tailpipe set DN 25

For connection to Regumat DN 25.

Description	PU	Item No.
Union nut G 1 1/2, 2-fold		1350450
Union nut G 1 1/2, 4-fold		1350451 °
Weldable tailpipe set, G 1 1/2 union nut, 2-fold		1350455 °
Solder tailpipe set, G 1 1/2 union nut, 2-fold		1350456 °
Threaded tailpipe set Rp 1, G 1 1/2 union nut, 2-fold		1350457
Weldable tailpipe set, G 1 1/2 union nut, 4-fold		1350465 °
Solder tailpipe set 28 mm, G 1 1/2 union nut, 4-fold		1350466 °
Threaded tailpipe set Rp 1, G 1 1/2 union nut, 4-fold		1350467 °
Weldable tailpipe set, 2-fold		1350594 °
Solder tailpipe set, 25 mm, 2-fold		1351095 °
Threaded tailpipe set Rp 1, 2-fold		1351394 °
Union nut G 1 1/2, 1-fold	20	1359099 °
Press connection set 26 mm x 3 mm, G 1 1/2 union nut, 1-fold	5	1511946 °
Press connection set 32 mm x 3 mm, G 1 1/2 union nut, 1-fold	5	1511949 °



Regumat Tailpipe set DN 32

For connection to Regumat DN 32.

Description	PU	Item No.
Union nut G 2, 2-fold		1350470
Union nut G 2, 4-fold		1350471 °
Threaded tailpipe set Rp 1 1/4, G 2 union nut, 2-fold		1350476
Threaded tailpipe set Rp 1 1/4, G 2 union nut, 4-fold		1350477 °
Solder tailpipe set 35 mm, 2-fach		1351096 °
Threaded tailpipe set Rp 1 1/4, 2-fold		1351396 °
Coupling G 2 union nut (2 x), for connection to Regumat DN 32		1352088
Sealing ring Ø 30 x Ø 25 x 2 mm, G 1, 10-fold	100	1359551 °
Sealing ring Ø 44.5 x Ø 28 x 2 mm, G 1 1/2, 10-fold	10	1359552 °
Sealing ring Ø 27 x Ø 38 x 2 mm, G 1 1/4, 10-fold		1359553
Sealing ring Ø 56 x Ø 36 x 2.5 mm, G 2, 4-fold	10	1359554 °



Regumat Tailpipe set DN 40/50

For connection to Regumat DN 40/50.

Description

Coupling R 2 external thread x G 2 union nut (1 x), for connection to Regumat DN 40 / 50

Item No.

1352089



3.1

Regumat Thermal insulations



Replacement thermal insulation

With one-piece front insulation shell.

Description	Item No.
For Regumat-130 DN 25	1355090
For Regumat-180 DN 25 with pump ball valve	1355091
For Regumat-180 DN 32	1355092
For Regumat-180 DN 25 with pump ball valve, Grundfos ALPHA 2.1 25-60	1356090 °
For Regumat-180 DN 25 with pump ball valve, Wilo-Stratos ECO 25/1-5	1356091 °
For Regumat-180 DN 25 without pump ball valve, Grundfos ALPHA 2.1 25-60	1356092 °
For Regumat-180 DN 25 without pump ball valve, Wilo-Stratos ECO 25/1-5	1356093 °



Replacement universal thermal insulation

Description	Item No.
For Regumat-180 DN 25 with pump ball valve (manufactured until 2015)	1356097
For Regumat-180 DN 25 without pump ball valve (manufactured until 2015)	1356098

Regumat High-efficiency pumps

Replacement high-efficiency pump 130 mm with connection thread G 1



Description

For Regumat-130 DN 20, Grundfos Alpha 2.1 15-60

Item No.

1357161 °

Replacement high-efficiency pump 130 mm with connection thread G 1 ½



Description

For Regumat-130 DN 25, Grundfos ALPHA 2.1 25-60

Item No.

1357157 °

Replacement high-efficiency pump 180 mm with connection thread G 1 ½



Description

For Regumat-180 DN 25, Wilo PARA 25-180/6-43/SC-9

Item No.

1355159

For Regumat-180 DN 25, Grundfos ALPHA 2.1 25-60N

1357159 °

For Regumat-180 DN 25, Wilo PICO plus 25/1-6 N

1357160 °

For Regumat-180 DN 25, Grundfos ALPHA 2.1 25-60

1358155 °

For Regumat-180 DN 25, Wilo-Stratos PICO 25/1-6

1358157 °

Replacement high-efficiency pump 180 mm with connection thread G 2



Description

For Regumat-180 DN 32, Grundfos ALPHA 2.1 32-60

Item No.

1358161 °

For Regumat-180 DN 32, KSB Calio 30-120

1358165 °



3.1

Replacement power supply cable



Description	Item No.
For Grundfos ALPHA high-efficiency pump, with right-angle plug	1358150
For Wilo-Stratos PICO high-efficiency pump, with right-angle plug	1358170
For Wilo-Yonos PARA high-efficiency pump, with right-angle plug	1358171



Installation relay

Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089



3.1

Grounding clamp

For electrical connection of metallic pipework to the equipotential bonding.



Description	Item No.
DN 20 - DN 32	1359995
DN 40 - DN 50	1359996

Regtronic Electronic controllers



Regtronic RH weather-compensated heating circuit controller for variable/constant temperature heating circuit

Compatible with Datalog CS-BS-6, CS-BS-1 and Regtronic KM-TCP. Extendable by a maximum of 5 extension modules.

Application	Heating circuit control	Solid-state relays	3
	Heat generator activation	Electromechanical relays	2
	Solid fuel boiler	Potential-free relays	1
	Service water heating	PWM*	2
Operating voltage	230 V	PWM switchable 0 - 10 V*	Yes
Sensor inputs	8	Heat meter	5
Further inputs	Pulse inputs V40	Product compatible to	Regtronic EM
	Grundfos Direct Sensor		

Scope of delivery

	Item No.
1 x Remote control incl. room temperature sensor	
1 x Outdoor sensor	
1 x Sensor attached to the pipe	1152080
1 x Storage cylinder sensor	
1 x Outdoor sensor	
1 x Sensor attached to the pipe	1152083
2 x Storage cylinder sensor	

ErP classification Regtronic RH heating circuit controller

Item no.	Controller	Required accessories	Boiler control			ErP %	Class
			Modulating (0-10 V)	On/Off			
1152083	Regtronic RH	Adapter cable 1152086	●		2.0	II	
1152083		—		●	1.5	III	
1152080	Regtronic RH incl. remote control with room temperature sensor	Adapter cable 1152086	●		4.0	VI	
1152080		—		●	3.5	VII	
1152080		2x Room temperature sensor 1152095 Adapter cable 1152086	●		5.0	VIII	



Adapter cable

Description

For signal transmission from the heating circuit controller to a modulating heat generator with 0 - 10 V interface

Item No.

1152086

Heating circuit controller extension set



Description	Item No.
For Regumat-180 DN 25 (manufactured from 2015), with Regtronic RH and controller bracket	1357290

Regtronic EM Extension module for the control of further variable/constant temperature heating circuits

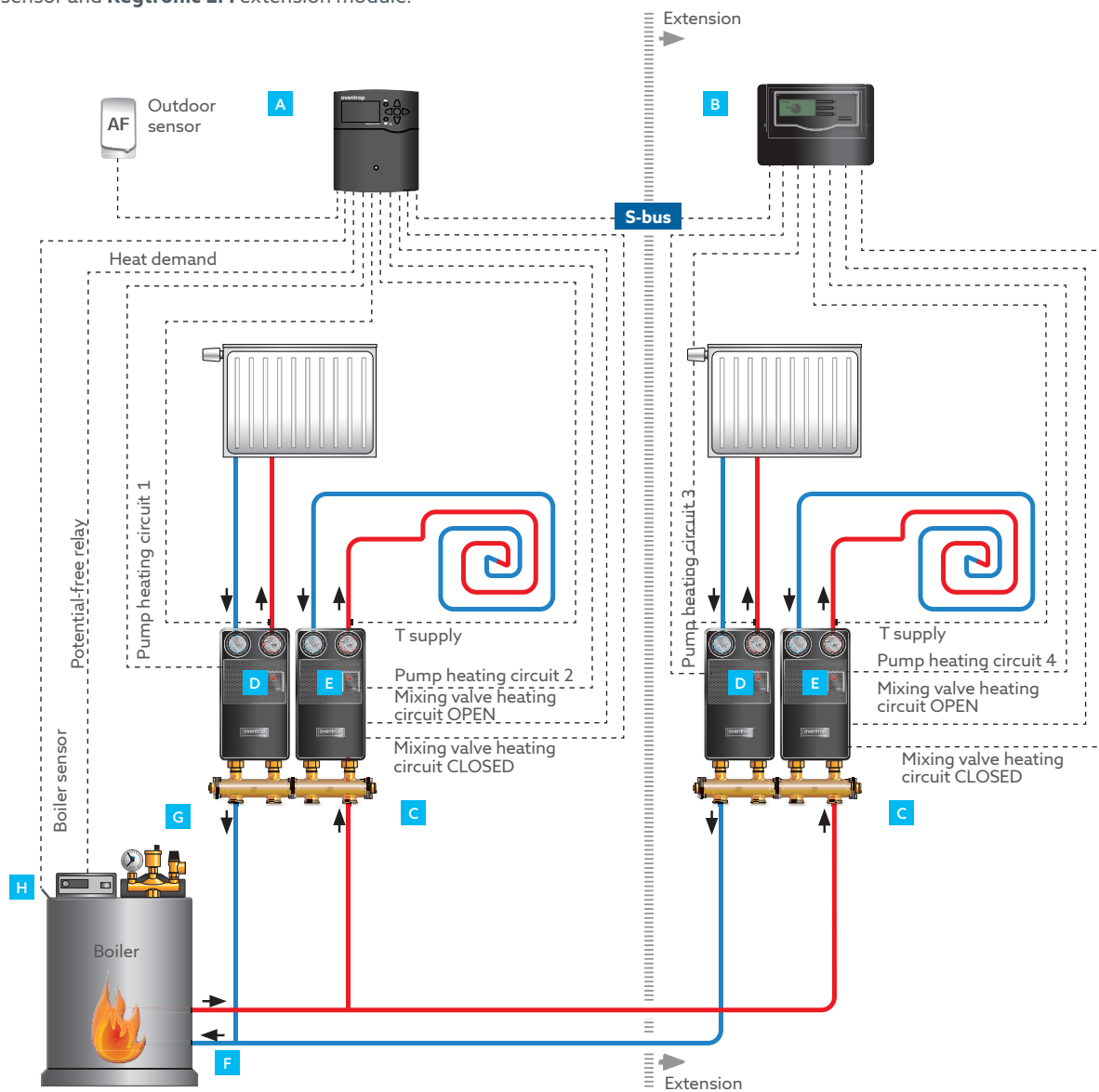
For extending the Regtronic controller by 6 sensor inputs and 5 relay outputs.



Operating voltage	230 V	Product compatible to	Regtronic RH
Sensor inputs	6		Regtronic RM
Solid-state relays	4		Regtronic RS
Potential-free relays	1		

Scope of delivery	Item No.
1 x Sensor attached to the pipe	1152098

Weather-compensated control of 2 variable and 2 constant temperature heating circuits with heat demand (e.g. via a conventional boiler, solid fuel boiler or heat pump) consisting of the **Regtronic RH** heating circuit controller with outdoor sensor and **Regtronic EM** extension module.



- A** Regtronic RH Heating circuit controller with outdoor sensor
- B** Regtronic EM Extension module
- C** Regumat Distributor
- D** Regumat S

- E** Regumat M3
- F** Optiflex Ball valve
- G** MSM-Block Boiler safety device
- H** Expa-Con Valve with lead sealable cap



Regtronic RM Multifunction controller for the control of weather-compensated variable/constant temperature heating circuits as well as solar thermal systems

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Heating circuit control	Solid-state relays	13
	Heat generator activation	Potential-free relays	1
	Solid fuel boiler, solar	PWM*	4
	Service water heating	PWM switchable 0 - 10 V*	Yes
	Storage cylinder management	Heat meter	7
Operating voltage	230 V	Product compatible to	Regtronic EM
Sensor inputs	12		
Further inputs	Pulse inputs V40 Grundfos Direct Sensor FlowRotor		

Scope of delivery

Item No.

6 x Storage cylinder sensor	1369555
2 x Collector sensor	

ErP classification Regtronic RM

Item no.	Controller	Required accessories	Boiler control		ErP %	Class
			Modulating (0-10 V)	On/Off		
1369555	Regtronic RM	1 x Outside temperature sensor 1152099	●		2.0	II
		1 x Outside temperature sensor 1152099		●	1.5	III
		1 x Room temperature sensor 1152095	●		4.0	VI
		1 x Outside temperature sensor 1152099		●	3.5	VII
		1 x Room temperature sensor 1152095				
		1 x Outside temperature sensor 1152099				
		3x Room temperature sensor 1152095	●		5.0	VIII

Regtronic KM TCP Communication module Modbus TCP

For integration of a controller into a building automation system via Modbus TCP.



Description

Item No.

Wall mounting	1159099
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Outside temperature sensor

Description	Item No.
For outside temperature measurement, sensor element PT 1000, splash-proof housing, surface mounting	1152099



Room temperature sensor

Description	Item No.
For room temperature measurement, sensor element PT 1000, surface mounting	1152095



Room thermostat

With nominal value setting device. For the connection of electrothermal actuators (two point "normally closed").

Description	Item No.
24 V, surface mounting, sensor element PT 1000	1152052 °
230 V, concealed temperature setting, sensor element PT 1000	1152055 °



Remote control with room temperature sensor

Description	Item No.
For heating curve and function setting (Party, Heating circuit off), control from the living room, sensor element PT 1000, surface mounting	1152096



Room controller

Description	Item No.
For operating mode setting (Auto, Night, Summer, Off), for heating curve and function setting (Party, Heating off), control from the living room, sensor element PT 1000, surface mounting	1152087

Temperature sensor

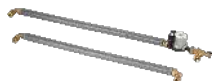
Suitable for all Oventrop controllers.



Description	Item No.
For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m	1369093
For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m	1369094
For temperature measurement and detection at the pipework, with fastening clip Ø 25 - 40 mm and heat conducting paste, sensor element PT 1000, continuous temperature range up to 180 °C, length 1.5 m	1369095

Connection of the boiler and storage cylinder to the pipework

Storage cylinder loading set



Description

With connecting pieces, elbows, corrugated metal hoses that can be cut to length, pump and angle non-return check valve, DN 25

Item No.

1359050 °

Three-way mixing valve



Description

For flow temperature control, manual setting, actuator can be retrofitted, Rp 3/4 internal thread, kv 6

Item No.

1350106 °

For flow temperature control, manual setting, actuator can be retrofitted, Rp 1 internal thread, kv 12

1350108 °

Connection elbow



Description

2 x G 1 union nut, 88 x 35 mm

Item No.

1359042

G 1 1/4 union nut x R 1 1/4 external thread, 40 x 49 mm

1359043

G 1 external thread x G 1 1/2 pump flange, 40 x 35 mm

1359060 °

G 1 external thread x G 1 external thread, 35 x 35 mm

1359061 °

G 1 external thread x G 1 union nut, 37 x 35 mm

1359062

G 1 union nut x G 1 union nut, 37 x 35 mm

1359063

G 1 union nut x G 1 external thread x G 3/8 internal thread, 37 x 35 mm

1359064

G 1 union nut x G 1 union nut x G 3/8 internal thread, 37 x 35 mm

1359065

G 1 union nut x G 1 external thread, 37 x 35 mm, with Optiflex fill and drain ball valve

1359066 °

G 1 union nut x G 1 union nut, 37 x 35 mm, with Optiflex fill and drain ball valve

1359067 °

G 1 union nut x G 1 1/2 pump flange, 88 x 35 mm, R 1/2 vent plug and R 3/8 blind plug

1359068 °

G 1 union nut x G 1 external thread, 90 x 35 mm, R 3/8 blind plug

1359069 °

2 x G 1 union nut, 88 x 35 mm, with Optiflex fill and drain ball valve

1359073

Reducer



Description

G 1 internal thread x G 1 1/2 external thread, 31.5 mm

Item No.

1359041 °

Double fitting



Description

2 x G 1 union nut, 30 mm

G 3/4 internal thread x G 3/4 union nut, 19.5 mm

Item No.

1359085

1359086

Check valve



Description

G 1 external thread x G 1 1/2 pump flange, 31 mm

Item No.

1359070

Angle non-return check valve



Description

G 1 union nut x G 1 external thread, 44 x 35 mm

G 1 union nut x G 1 1/2 pump flange, 47 x 40 mm, with Optiflex fill and drain ball valve

PU

20

12

Item No.

1359071 °

1359072 °

T-piece



Description

G 1 x G 1 x G 1 union nut

G 1 x G 1 union nut x G 1

Item No.

1359080

1359081

Pump connecting piece



Description	Item No.
G 1 ½ internal thread x G 1 external thread, 32 mm	1359090
G 1 ½ internal thread x G 1 union nut, 32 mm	1359091

Connecting piece



Description	Item No.
G 1 external thread x Rp ¾, 34 mm	1359095 °
G 1 external thread x Rp 1, 37 mm	1359096 °
G 1 external thread x Rp 1 ¼, 40 mm	1359097 °

Double nipple



Description	Item No.
R 1 x G 1 external thread, 33 mm	1359094
G 1 external thread x G 1 external thread, 33 mm	1359098 °

Six-way block



Description	Item No.
With pump flange G 1 ½, G 1 ½ external thread, 4 x G 1 external thread	1359040 °

Extension



Description	Item No.
2 x G 1 external thread, 51 mm	1359101 °
2 x G 1 external thread, 65 mm	1359102 °
2 x G 1 external thread, 89 mm	1359103 °
2 x G 1 external thread, 104 mm	1359104 °
2 x G 1 external thread, 125 mm	1359105 °



3.1

MSM-Block Boiler safety devices



MSM-Block with internal thread

Complete safety group according to DIN EN 12828.

With diaphragm safety valve 3.0 bar, air vent with automatic shutoff device, pressure gauge with automatic shutoff device and thermal insulation.

Description

DN 25, internally threaded connection Rp 1

Item No.

1351062 °



MSM-Block with external thread

Complete safety group according to DIN EN 12828.

With diaphragm safety valve 3.0 bar, air vent with automatic shutoff device, pressure gauge with automatic shutoff device and thermal insulation.

Description

DN 25, flat sealing externally threaded connection G 1

Item No.

1351072 °

Expa-Con Cap valves



Expa-Con Cap valve

Required according to DIN EN 12828.

For control, maintenance and possible replacement of diaphragm expansion tanks.

Description	PU	Item No.
DN 20, Rp ¾ internal thread, PN 10, brass, with lead sealing device	25	1089006
DN 20, Rp 1 internal thread, PN 10, brass, with lead sealing device	25	1089008
DN 32, Rp 1¼ internal thread, PN 10, brass, with lead sealing device	10	1089010
DN 40, Rp 1½ internal thread, PN 10, brass, with lead sealing device	10	1089012
DN 25, Rp 1 internal thread, PN 10, brass, with lead sealing device	10	1089052

Wire seal kit



Description	Item No.
10-fold, consisting of seal and sealing wire	1089091

Quick coupling for diaphragm expansion tank

For automatic separation of the expansion tank from the system.



Description	Item No.
DN 20, G ¾ internal thread x G ¾ external thread	1088806



3.1

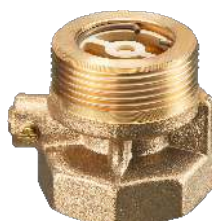
Check valves



Check valve SVE

To prevent gravity circulation in various heating systems when the pump is switched off. For installation in front of the pump. Opening pressure 20 mbar.

Description	Item No.
DN 20, G 1¼ external thread, PN 10, brass	1070006
DN 25, G 1½ external thread, PN 10, brass	1070008
DN 32, G 2 external thread, PN 10, brass	1070010



Check valve SVE with automatic venting

To prevent gravity circulation in various heating systems when the pump is switched off. For installation behind the pump. Opening pressure 20 mbar.

Description	Item No.
DN 25, G 1½ external thread, G 1½ internal thread, PN 10, brass	1070308
DN 32, G 2 external thread, G 2 internal thread, PN 10, brass	1070310



Check valve SVA

To prevent gravity circulation in various heating systems when the pump is switched off. For direct connection to the circulation pump. Opening pressure 20 mbar.

Description	Item No.
DN 25, G 1 external thread, G 1½ internal thread union nut, PN 10, brass	1070108
DN 32, G 1¼ external thread, G 2 internal thread union nut, PN 10, brass	1070110



Check valve SVI

To prevent gravity circulation in various heating systems when the pump is switched off. For direct connection to the circulation pump. Opening pressure 20 mbar.

Description	Item No.
DN 25, G 1 internal thread, G 1½ internal thread union nut, PN 10, brass	1070208
DN 32, G 1¼ internal thread, G 2 internal thread union nut, PN 10, brass	1070210

**Check valve SVU**

To prevent gravity circulation in various heating systems when the pump is switched off.

Universal model made of bronze for vertical installation as angle, straight or three-way valve. Opening pressure 20 mbar.

Description	Item No.
DN 25, 3 x G 1 internal thread, PN 10, bronze	1071008
DN 32, 3 x G 1¼ internal thread, PN 10, bronze	1071010
DN 40, 3 x G 1½ internal thread, PN 10, bronze	1071012
DN 50, 3 x G 2 internal thread, PN 10, bronze	1071016



3.1



3.2 Stations for local and district heating

Regudis H Transmission stations for local and 445 district heating networks

Regudis H Transmission stations.....	446
Regudis H Accessories and spare parts.....	450



3.2 Stations for local and district heating

Regudis H Transmission stations for local and 445 district heating networks

Regudis H Transmission stations.....	446
Regudis H Accessories and spare parts.....	450

Regudis H Transmission stations



Regudis H transmission stations with plate heat exchanger for direct and indirect heat transmission from a local or district heating network to the potable water and heating system of detached and semi-detached houses. The stations are equipped with an electronic controller for the weather-compensated control of the flow temperature of the heating system and simultaneous limitation of the return temperature to the heat network.

The stations consist of a plate heat exchanger, an electronic controller, a pressure independ-

ent control valve with actuator, strainers with fill and drain ball valve, spacers for heat meters, a safety group with pressure gauge, ball valves and a thermal insulation.

The compact stations are available in two performance classes and different connection configurations. They are characterised by a simple hydronic connection to the local and district heating network. The station is delivered with factory-mounted function modules, completely parameterized and tested.

Heat exchanger	Copper brazed	Ball valve	Yes
Thermal insulation	Yes	Pressure independent control valve	Yes
Pressure gauge	Yes	Actuator	Yes
Safety valve	Yes	Venting	Yes
Safety group	Yes	Temperature sensor	PT 1000
Spacer for heat meter	Yes	Max. operating temperature	95 °C
Strainer	Yes	Min. operating pressure	1 bar
Draining	Yes	Max. operating pressure	10 bar
Electronic controller	Yes		



Regudis H DN 20

With Regudis H transmission station and ball valve connection set.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	775 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G 3/4 external thread	PU	2

Nominal size

DN 20

Item No.

1391026



Regudis H DN 25

With Regudis H transmission station and ball valve connection set.

Length	330 mm	Connection heating network	G 1 1/2 external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	940 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 1/4 external thread	PU	2

Nominal size

DN 25

Item No.

1391036



Regudis H-HT DN 20

For the connection of a constant temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set and HT switching module.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	1074 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G ¾ external thread		
Connection heating circuit HT switching module	G 1½ external thread		

Nominal size

Item No.

DN 20

1391027



Regudis H-HT DN 25

For the connection of a constant temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set and HT switching module.

Length	330 mm	Connection heating network	G 1½ external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	1182 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1¼ external thread		
Connection heating circuit HT switching module	G 1½ external thread		

Nominal size

Item No.

DN 25

1391037



Regudis H-MT DN 20

For the connection of a variable temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set, HT switching module and electric pipe contact safety switch.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	1074 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G ¾ external thread		
Connection heating circuit HT switching module	G 1½ external thread		

Nominal size

Item No.

DN 20

1392027



Regudis H-MT DN 25

For the connection of a variable temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set, HT switching module and electric pipe contact safety switch.

Length	330 mm	Connection heating network	G 1 ½ external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	1182 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 ¼ external thread		
Connection heating circuit HT switching module	G 1 ½ external thread		

Nominal size	Item No.
DN 25	1392037



Regudis H-MHT DN 20

For the connection of a variable and a constant temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set, HT switching module, Regumat M3, electric pipe contact safety switch and connection set.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	1550 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G ¾ external thread		
Connection heating circuit HT switching module	G 1 ½ external thread		

Nominal size	Item No.
DN 20	1393027



Regudis H-MHT DN 25

For the connection of a variable and a constant temperature heating circuit and a potable water storage cylinder. With Regudis H transmission station, ball valve connection set, HT switching module, Regumat M3, electric pipe contact safety switch and connection set.

Length	330 mm	Connection heating network	G 1 ½ external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	1706 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 ¼ external thread		
Connection heating circuit HT switching module	G 1 ½ external thread		

Nominal size	Item No.
DN 25	1393037



Regudis H-H DN 20

For the connection of a constant temperature heating circuit.
 With Regudis H transmission station, ball valve connection set, Regumat S and connection set.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	1220 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G 3/4 external thread		

Nominal size

DN 20

Item No.

1391021



Regudis H-H DN 25

For the connection of a constant temperature heating circuit.
 With Regudis H transmission station, ball valve connection set, Regumat S and connection set.

Length	330 mm	Connection heating network	G 1 1/2 external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	1365 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 1/4 external thread		

Nominal size

DN 25

Item No.

1391031



Regudis H-M DN 20

For the connection of a variable temperature heating circuit.
 With Regudis H transmission station, ball valve connection set, Regumat S, electric pipe contact safety switch and connection set.

Length	295 mm	Connection heating network	G 1 external thread
Width	545 mm	Max. primary volume flow	1,300 l/h
Height	1220 mm	Max. primary differential pressure	4 bar
Connection heating circuit	G 3/4 external thread		

Nominal size

DN 20

Item No.

1392021



Regudis H-M DN 25

For the connection of a variable temperature heating circuit.
 With Regudis H transmission station, ball valve connection set, Regumat S, electric pipe contact safety switch and connection set.

Length	330 mm	Connection heating network	G 1 1/2 external thread
Width	630 mm	Max. primary volume flow	4,800 l/h
Height	1365 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 1/4 external thread		

Nominal size

DN 25

Item No.

1392031

Regudis H Accessories and spare parts



Hydrocor WM Monovalent potable water storage cylinder

Surface	Enamelled	Max. operating temperature	95 °C
Energy efficiency class	B	Max. operating pressure	10 bar

Type	Connection	Total height (mm)	Ø (with ti)* (mm)	Thickness TI* (mm)	Item No.
120	R ¾ external thread	825	610	55	1395010
160	R ¾ external thread	1,035	610	55	1395011
200	G 1 external thread	1,200	650	75	1395012



Diaphragm expansion tank

Feet welded on.

Description	Item No.
Nominal volume 35 l	1399091
Nominal volume 50 l	1399092

3.2

Regtronic EM Extension module for the control of further variable/constant temperature heating circuits

For extending the Regtronic controller by 6 sensor inputs and 5 relay outputs.



Operating voltage	230 V	Product compatible to	Regtronic RH
Sensor inputs	6		Regtronic RM
Solid-state relays	4		Regtronic RS
Potential-free relays	1		

Scope of delivery	Item No.
1 x Sensor attached to the pipe	1152098

Replacement controller



Description	Item No.
For Regudis H, Regtronic RH HT, cabled	1152070



Replacement actuator

Description

For Regudis H, electrothermal 24 V DC, 0 - 10 V, NC

Item No.

1012954



3.3 Stations for hot potable water preparation

Regumaq X Fresh water stations for central hot potable water preparation 453

Regumaq X-25 Fresh water stations.....	454
Regumaq X-45 Fresh water stations.....	455
Regumaq X-25/X-45 Accessories and spare parts.....	456
Regumaq X-80 Fresh water stations.....	460
Regumaq X-80 Accessories and spare parts.....	461
Regumaq X-30/XZ-30 Accessories and spare parts.....	465
Regumaq XH Accessories and spare parts.....	469

Regudis W Dwelling stations for decentralised hot potable water preparation 471

Regudis W-HTE Electronic dwelling stations.....	473
Regudis W-HTE Accessories and spare parts.....	475
Regudis W-HTU Hydronic dwelling stations.....	485
Regudis W-HTF Hydronic dwelling stations.....	492
Regudis W-HTU/W-HTF Accessories and spare parts.....	497





3.3 Stations for hot potable water preparation

Regumaq X Fresh water stations for central hot potable water preparation 453

Regumaq X-25 Fresh water stations.....	454
Regumaq X-45 Fresh water stations.....	455
Regumaq X-25/X-45 Accessories and spare parts.....	456
Regumaq X-80 Fresh water stations.....	460
Regumaq X-80 Accessories and spare parts.....	461
Regumaq X-30/XZ-30 Accessories and spare parts.....	465
Regumaq XH Accessories and spare parts.....	469

Regumaq X-25 Fresh water stations



The Regumaq X-25 fresh water station is an electronically controlled product assembly with heat exchanger for the hygienic heating of potable water according to the continuous flow principle for connection to a buffer storage cylinder. Depending on the temperature and the volume flow on the potable water side, the circulation pump on the heating side is speed controlled. When selecting the fresh water station, it is necessary to consider the water quality of the application area.

The stations consist of a plate heat exchanger, a controller box, a circulation pump, a back-flow preventer, a volume flow sensor, a safety valve, temperature sensors, fill and drain ball valves and ball valves.

The compact stations are characterised by high draw off capacities at low excess temperatures. The control technology is particularly fast and precise due to turbine sensor technology and LIN pump technology.

Circulation function	Extendable	Shutoff ball valve potable water circuit	Yes
Connection potable water circuit	G 1 external thread, flat sealing	Shutoff ball valve storage cylinder circuit	Yes
Connection storage cylinder circuit	G 1 external thread, flat sealing	Fill and drain valve potable water circuit	Yes
Length	240 mm	Fill and drain valve storage cylinder circuit	Yes
Width	400 mm	Number of fill and drain valves potable water circuit	2
Height	625 mm	Number of fill and drain valves storage cylinder circuit	2
Centre distance potable water circuit	250 mm	Preprogrammed system examples	No
Centre distance storage cylinder circuit	100 mm	Additional controller functions	Yes
Type of temperature control	Speed control storage cylinder circuit pump	Nominal draw off capacity*	29 l/min
Pump control signal	LIN	Kv value potable water circuit	1.88
Volume flow sensor	Turbine	Kv value storage cylinder circuit	2.67
Temperature sensor	PT 1000	Max. operating temperature	95 °C
Control range potable water temperature	20 up to 60 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes	PU	6

3.3

Regumaq X-25



Heat exchanger

	Item No.
Copper brazed	1381125
Copper brazed, Sealix® protective layer	1381127

Regumaq X-45 Fresh water stations



The Regumaq X-45 fresh water station is an electronically controlled product assembly with heat exchanger for the hygienic heating of potable water according to the continuous flow principle for connection to a buffer storage cylinder. Depending on the temperature and the volume flow on the potable water side, the circulation pump on the heating side is speed controlled. When selecting the fresh water station, it is necessary to consider the water quality of the application area.

a controller with touch control panel, a circulation pump, a backflow preventer, a volume flow sensor, a safety valve, temperature sensors, fill and drain ball valves and ball valves.

The compact stations are characterised by high draw off capacities at low excess temperatures. The control technology is particularly fast and precise due to turbine sensor technology and LIN pump technology. With intuitive touch control panel for setting extensive functions such as circulation, return temperature stratification or heat demand.

The stations consist of a plate heat exchanger,

Circulation function	Extendable	Shutoff ball valve potable water circuit	Yes
Connection potable water circuit	G 1 external thread, flat sealing	Shutoff ball valve storage cylinder circuit	Yes
Connection storage cylinder circuit	G 1 external thread, flat sealing	Fill and drain valve potable water circuit	Yes
Length	240 mm	Fill and drain valve storage cylinder circuit	Yes
Width	400 mm	Number of fill and drain valves potable water circuit	2
Height	625 mm	Number of fill and drain valves storage cylinder circuit	2
Centre distance potable water circuit	250 mm	Preprogrammed system examples	Yes
Centre distance storage cylinder circuit	100 mm	Additional controller functions	Yes
Type of temperature control	Speed control storage cylinder circuit pump	Nominal draw off capacity*	45 l/min
Pump control signal	LIN	Kv value potable water circuit	2.55
Volume flow sensor	Turbine	Kv value storage cylinder circuit	3.41
Temperature sensor	PT 1000	Max. operating temperature	95 °C
Control range potable water temperature	35 up to 60 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes		



3.3

Regumaq X-45



Heat exchanger

	PU	Item No.
Copper brazed	6	1381140
Copper brazed, Sealix® protective layer		1381142

Regumaq X-25/X-45 Accessories and spare parts



Potable water circulation set

For extending the Regumaq X-25 / X45 fresh water station by a potable water circulation.

Description	Item No.
For Regumaq X-25/X-45 with pump	1381150
For Regumaq X-25/X-45 without pump	1381152



Return stratification control valve

For temperature-dependent stratification of the return water in the lower or central storage cylinder section.

Description	Item No.
For Regumaq X-45, with actuator, 230 V, operating time 20 s, kvs value 11.3, DN 25	1381190



Installation relay

Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089



Grounding clamp

For electrical connection of metallic pipework to the equipotential bonding.

Description	Item No.
DN 20 - DN 32	1359995

Strainer



Description	Item No.
Both sides flat sealing external thread, with double wire basket 250 µm, PN 25, DN 20	1141006

Connection fitting



Description	Item No.
R 3/4 x G 1 union nut, bronze	4201473 °
Solder tailpipe 22 mm x G 1 union nut, bronze	4202074 °

Aquastrom P Water sampling valve



Description	Certification	Item No.
DN 8, PN 10, flame resistant, bronze/stainless steel, G 1/4	DVGW, SVGW	4209102
DN 10, PN 10, flame resistant, bronze/stainless steel, G 3/8	DVGW, SVGW	4209103

Aquastrom R Backflow preventer



Description	Certification	Item No.
DN 25, 1 1/4 union nut x G 1 1/4 external thread, straight, bronze	DVGW, SVGW	4208608
DN 32, 1 1/2 union nut x G 1 1/2 external thread, straight, bronze	DVGW, SVGW	4208610
DN 25, G 1 1/4 external thread x G 1 1/4 external thread, straight, bronze	DVGW, SVGW	4208708
DN 32, G 1 1/2 external thread x G 1 1/2 external thread, straight, bronze	DVGW, SVGW	4208710

Aquanova Magnum Water filter



Description	Certification	Item No.
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6120008
DN 32, Rp 1 1/4, PN 16, with transparent plastic cup	DVGW, ACS	6120010
DN 40, Rp 1 1/2, PN 16, with transparent plastic cup	DVGW, ACS	6120012
DN 50, Rp 2, PN 16, with transparent plastic cup	DVGW, ACS	6120016
DN 20, R 3/4, PN 16, with transparent plastic cup	DVGW, ACS	6122006
DN 25, R 1, PN 16, with transparent plastic cup	DVGW, ACS	6122008
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6122010



Replacement heat exchanger

For Regumaq X-25 (performance range 2) and Regumaq X-45 (performance range 3).
 The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.oventrop.com/to/trinkwasseranforderung.

Description	Item No.
Performance range 2, copper brazed	1344084
Performance range 3, copper brazed	1344085
Performance range 2, copper brazed with Sealix® protective layer	1344094
Performance range 3, copper brazed with Sealix® protective layer	1344095

Replacement volume flow sensor



Description	Item No.
For Regumaq X-25/X-45, with elbow	1381164
For Regumaq X-25/X-45 and Regudis W-HTE, insertion turbine for volume flow sensor	1381165

Replacement temperature sensor



Description	Item No.
For Regumaq X-25/X-45, PT 1000, length 1 m	1381163

Replacement check valve



Description	Item No.
For Regumaq X-25/X-45 primary circuit	1381167

Replacement elbow with check valve



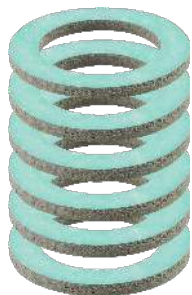
Description	Item No.
For Regumaq X-25/X-45 circulation	1381169

Replacement pump



Description	Item No.
For Regumaq X-25/X-45 primary circuit	1381166
For Regumaq X-25/X-45 circulation	1381168

Replacement sealing ring



Description	Item No.
For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G ¾	1344497
For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G 1	1344498

Replacement controller



Description	Item No.
For Regumaq X-45, cabled without touch control panel	1381160
For Regumaq X-45, touch control panel	1381161
For Regumaq X-25, cabled	1381162



Regumaq X-80 Fresh water stations



The Regumaq X-80 fresh water station is an electronically controlled product assembly with heat exchanger for the hygienic heating of potable water according to the continuous flow principle for connection to a buffer storage cylinder. Depending on the temperature and the volume flow on the potable water side, the circulation pump on the heating side is speed controlled. When selecting the fresh water station, it is necessary to consider the water quality of the application area.

valve with actuator, a backflow preventer, a volume flow sensor, a safety valve, temperature sensors, fill and drain ball valves and ball valves.

The particularly powerful stations are characterised by high draw off capacities at low excess temperatures. Remote access as well as networking and visualization are possible via the Datalog CS-BS data logger. The controller data can be set and read out via a web interface or be passed on to the building management system (BMS).

The stations consist of a plate heat exchanger, a controller, a circulation pump, a throttling

Circulation function	Extendable	Shutoff ball valve potable water circuit	Yes
Connection potable water circuit	G 1 1/2 external thread, flat sealing	Shutoff ball valve storage cylinder circuit	Yes
Connection storage cylinder circuit	G 1 1/2 external thread, flat sealing	Fill and drain valve potable water circuit	Yes
Length	300 mm	Fill and drain valve storage cylinder circuit	Yes
Width	660 mm	Number of fill and drain valves potable water circuit	2
Height	875 mm	Number of fill and drain valves storage cylinder circuit	2
Centre distance potable water circuit	205 mm	Preprogrammed system examples	No
Centre distance storage cylinder circuit	220 mm	Additional controller functions	Yes
Type of temperature control	Speed control storage cylinder circuit pump with throttling valve	Nominal draw off capacity*	77 l/min
Pump control signal	PWM	Kv value potable water circuit	6.6
Volume flow sensor	Turbine	Kv value storage cylinder circuit	6.9
Temperature sensor	PT 1000	Max. operating temperature	95 °C
Control range potable water temperature	20 up to 60 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes	PU	3

Regumaq X-80



Heat exchanger

	Item No.
Copper brazed	1381580
Copper brazed, Sealix® protective layer	1381582

Regumaq X-80 Accessories and spare parts

Potable water circulation set

For extending the Regumaq X-80 fresh water station by a potable water circulation.



Description

For Regumaq X-80, without circulation pump

Item No.

1381590

High-efficiency circulation pump

Description

For Regumaq X-80 potable water circulation set, with Wilo-Yonos PARA Z 15/7.0 RKC 130

Item No.

1381591

For Regumaq X-80 potable water circulation set, with Wilo-Stratos PARA Z 25/1-12 RK 180

1381592



Shutoff unit

To prevent gravity circulation in the primary circuit.



Description

For Regumaq X-80, with Hycocn HTZ DN 40 and Aktor M 2P H

Item No.

1381078

Regtronic KM TCP Communication module Modbus TCP

For integration of a controller into a building automation system via Modbus TCP.



Description

Wall mounting

Item No.

1159099 





Fault signal module

Description	Item No.
For Regumaq X-80 and Regumaq X-30/XZ-30	1381594



Return stratification ball valve

For temperature-dependent stratification of the return water in the lower or central storage cylinder section. A return stratification set consists of a return stratification ball valve, an actuator (item no. 1381199) and a temperature sensor PT 1000 (item no. 1369093).

Description	Item No.
DN 25, PN 16, internal thread, brass	1381191 °
DN 32, PN 16, internal thread, brass	1381192
DN 40, PN 16, internal thread, brass	1381193
DN 50, PN 16, internal thread, brass	1381194



Actuator

Description	Item No.
For return stratification ball valve	1381199

3.3



Installation relay

Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089



Grounding clamp

For electrical connection of metallic pipework to the equipotential bonding.

Description	Item No.
DN 20 - DN 32	1359995
DN 40 - DN 50	1359996

Connection fitting



One connection fitting item no. 1381585 is required to integrate a G 1 circulation pump installed on site into the potable water circulation set item no. 1381590. One connection fitting item no. 1381587 and one connection fitting item no. 1359091 are required for a G 1 ½ circulation pump.

Description	PU	Item No.
G 1 ½ internal thread x G 1 union nut, 32 mm	10	1359091
G 1 internal thread x G 1 internal thread	10	1381585
G 1 ½ internal thread x G 1 internal thread	10	1381587
R 1 ¼ x G 1 ½ union nut, bronze	5	4201475 °

Aquastrom P Water sampling valve



Description	Certification	Item No.
DN 8, PN 10, flame resistant, bronze/stainless steel, G ¼	DVGW, SVGW	4209102
DN 10, PN 10, flame resistant, bronze/stainless steel, G ⅜	DVGW, SVGW	4209103

Aquastrom R Backflow preventer



Description	Certification	Item No.
DN 40, 1 ¾ union nut x G 1 ¾ external thread, straight, bronze	DVGW, SVGW	4208612
DN 40, G 1 ¾ external thread x G 1 ¾ external thread, straight, bronze	DVGW, SVGW	4208712

Aquanova Magnum Water filter



Description	Certification	Item No.
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6120008
DN 32, Rp 1 ¼, PN 16, with transparent plastic cup	DVGW, ACS	6120010
DN 40, Rp 1 ½, PN 16, with transparent plastic cup	DVGW, ACS	6120012
DN 50, Rp 2, PN 16, with transparent plastic cup	DVGW, ACS	6120016
DN 20, R ¾, PN 16, with transparent plastic cup	DVGW, ACS	6122006
DN 25, R 1, PN 16, with transparent plastic cup	DVGW, ACS	6122008
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6122010



Replacement heat exchanger

The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.ventrop.com/to/trinkwasseranforderung.

Description	Item No.
For Regumaq X-80, 46 plates, copper brazed, Sealix® protective layer	1381584
For Regumaq X-80, 46 plates, copper brazed	1381595
For Regumaq X-80, 46 plates, nickel brazed	1381596 °

Replacement volume flow sensor



Description	Item No.
For Regumaq X-80	1381593

Replacement high-efficiency pump



Description	Item No.
For Regumaq X-80 primary circuit, Grundfos UPML 25-105 180 PWM-C	1381599

3.3

Replacement controller



Description	Item No.
For Regumaq X-80, Regtronic RQ	1381597

Regumaq X-30/XZ-30 Accessories and spare parts



Fault signal module

Description

For Regumaq X-80 and Regumaq X-30/XZ-30

Item No.

1381594



Return stratification set

For temperature-dependent stratification of the return water in the lower or central storage cylinder section. Not suitable for cascading constructions.

Description

For Regumaq XZ-30, with three-way valve, actuator and storage cylinder sensor

Item No.

1381066



Return stratification ball valve

For temperature-dependent stratification of the return water in the lower or central storage cylinder section. A return stratification set consists of a return stratification ball valve, an actuator (item no. 1381199) and a temperature sensor PT 1000 (item no. 1369093).

Description

DN 25, PN 16, internal thread, brass

DN 32, PN 16, internal thread, brass

DN 40, PN 16, internal thread, brass

DN 50, PN 16, internal thread, brass

Item No.

1381191 °

1381192

1381193

1381194



Actuator

Description

For return stratification ball valve

Item No.

1381199



Exchange set



Description	Item No.
For Regumaq X-30/XZ-30, with Regtronic RQ controller, VFD volume flow sensor, controller location made of expanded polypropylene, screw-in sensor PT 1000 and high-efficiency pump Wilo-Yonos PARA RS 15/7 130 PWM for the primary circuit	1389095

Conversion set for external circulation pump



Description	Item No.
For Regumaq X-30, with pipes, ball valve, drain valve, check valve, thermometer, insulation screen and fixing material	1381080 °

Spacer



Description	Item No.
For Regumaq circulation pump, 2 x G 1 external thread x 130 mm	1381079

3.3

Tailpipe set DN 20

For connection to Regumaq X-30/XZ-30 and Regusol X.



Description	Item No.
Solder tailpipe 22 mm, 3-fold, DN 20	1367465 °
Externally threaded tailpipe R 3/4, 3-fold, DN 20	1367468 °

Replacement heat exchanger

The possibility of using copper brazed plate heat exchangers must be checked. Information on this is available at www.ointrop.com/to/trinkwasseranforderung.



Description	Item No.
20 plates up to 40 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351790
30 plates up to 55 kW (primary circuit 80/60°C, secondary circuit 50/70°C)	1351791
30 plates up to 55 kW (primary circuit 80/60°C, secondary circuit 50/70°C), completely made of stainless steel	1381068



Replacement ball valve

Description	Item No.
For Regumaq X-30/XZ-30, potable water circulation, thermometer red	1381088 °
For Regumaq X-30/XZ-30, primary circuit return, thermometer blue	1381094 °
For Regumaq X-30/XZ-30, primary circuit supply, with check valve, thermometer red	1381095 °
For Regumaq X-30/XZ-30, potable water hot, with fill and drain cock, thermometer red	1381096 °
For Regumaq X-30/XZ-30, potable water cold, thermometer blue	1381097 °



Replacement check valve

Description	Item No.
For Regumaq X-30/XZ-30	1381089



Replacement volume flow sensor

Description	Item No.
For Regumaq X-30/XZ-30 mit Regtronic PQ, pulse water meter 40 pulses/litre	1381093
For Regumaq X-30/XZ-30 with Regtronic RQ, VFD sensor 2-40 l/min	1389901
For Regumaq X-30/XZ-30 with Regtronic RQ, VFD sensor 2-40 l/min, sensor head, without housing	1389902



Replacement temperature sensor

Description	Item No.
For Regumaq X-30/XZ-30 with Regtronic PQ, potable water hot, screw-in sensor PT 1000	1389050
For Regumaq X-30/XZ-30 with Regtronic PQ, potable water cold, sensor attached to the pipe PT 1000	1389051
For Regumaq X-30/XZ-30 with Regtronic RQ, potable water hot, screw-in sensor PT 1000	1389052



Replacement high-efficiency pump

Description	Item No.
For Regumaq XZ-30 secondary circuit, Wilo ZRS 15/4-3 KU	1381091
For Regumaq X-30/XZ-30 primary circuit and Regusol X secondary circuit, Wilo PARA 15-130/7-50/iPWM2-9	1389010



Replacement controller

Description

For Regumaq X-30/XZ-30, Regtronic RQ

Item No.

1389099

Regumaq XH Accessories and spare parts

Potable water circulation set

For extending the Regumaq XH fresh water station by a potable water circulation.



Description	Item No.
For Regumaq XH and Regucor WH/WHS, with circulation pump Wilo-Star Z Nova C and time switch	1381047 °
For Regumaq XH and Regucor WH/WHS, without circulation pump	1381049 °

Retrofit set high-efficiency pumps

Description	Item No.
For Regumaq XH, with electronic box, mains cable, flow switch and high-efficiency pump for the primary circuit	1381048



Replacement flow switch

Description	Item No.
For Regumaq XH and Regucor WH/WHS with high-efficiency pump	1381043 °
For Regumaq XH without high-efficiency pump	1381046 °



Replacement proportional flow controller

Description	Item No.
For Regumaq XH and Regucor WH/WHS	1381045



Replacement filter insert

For the protection of the potable water circuit against contamination.



Description

For Regumaq XH, mesh size 0.5 mm, stainless steel

Item No.

1381044 °

Replacement circulation pump



Description

For Regumaq XH and Regucor WH/WHS, Wilo-Yonos ST 15/7 130 PWM2 for the primary circuit

Item No.

1383582

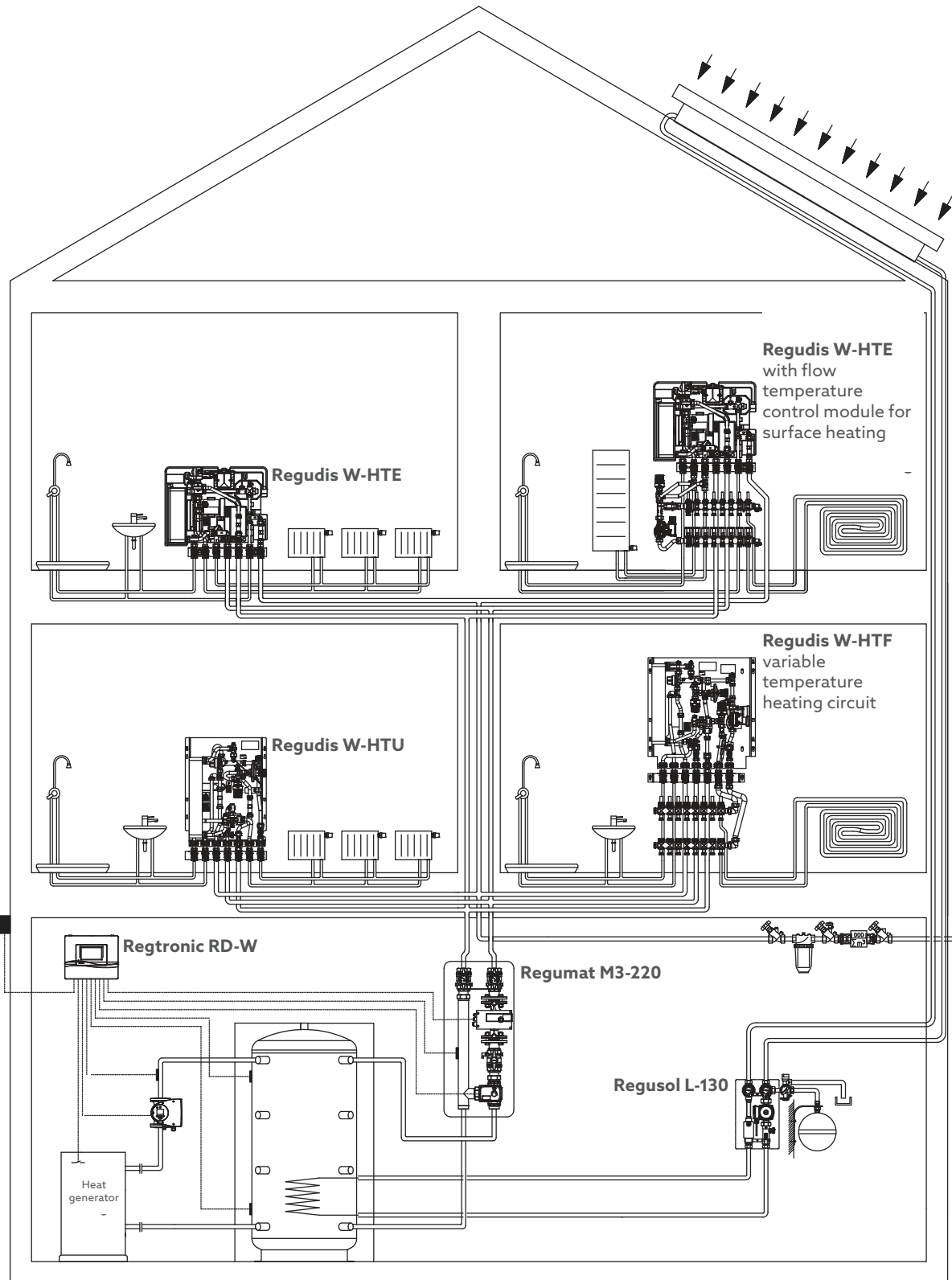


3.3 Stations for hot potable water preparation

Regudis W Dwelling stations for decentralised hot potable water preparation 471

Regudis W-HTE Electronic dwelling stations.....	473
Regudis W-HTE Accessories and spare parts.....	475
Regudis W-HTU Hydronic dwelling stations.....	485
Regudis W-HTF Hydronic dwelling stations.....	492
Regudis W-HTU/W-HTF Accessories and spare parts.....	497

Regudis W with conventional heat generator, buffer storage cylinder and solar support



A control engineered integration of the **Regudis W** dwelling stations into the heating system can be carried out using the **Regtronic RD-W** system controller.

Regudis W-HTE Electronic dwelling stations



For the supply of individual dwellings or commercial units with heating water, as well as with hot and cold potable water. The required heat is provided by a central heat supply. Hot potable water is prepared decentrally via a plate heat exchanger according to the continuous flow principle. When selecting the dwelling station, it is necessary to consider the water quality of the application area.

The stations consist of a plate heat exchanger, a control valve with integrated differential pressure and volume flow control, an actuator with integrated potable water temperature

control, a volume flow sensor, a temperature sensor, a filter insert, spacers for heat and water meter, vent valves and drain valves.

The Regudis W-HTE stations are designed for constant temperature heating circuits and can also be used for variable temperature heating circuits with an optional flow temperature control module. The range of functions can also be extended in a modular way using extension modules. The stations are characterised by high draw-off capacities at low excess temperatures, are optimised in terms of pressure loss and offer a conclusive insulation concept.



2019



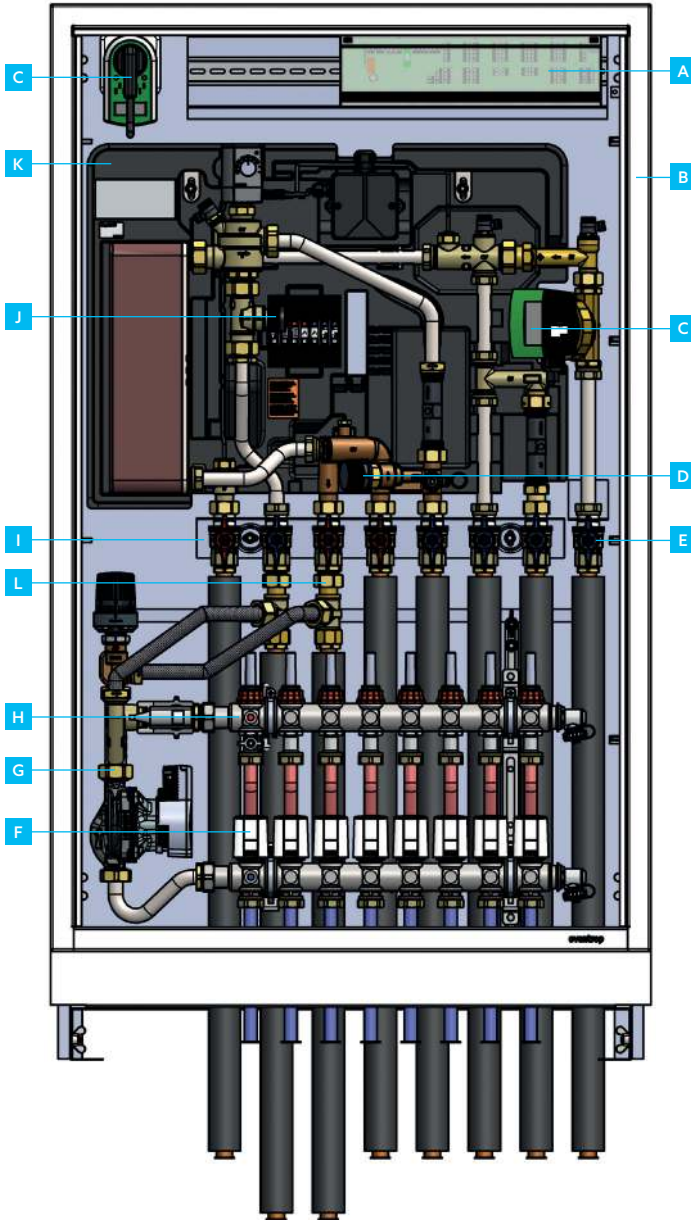
2019

Heating circuit	Constant temperature, extendable	Integrated differential pressure regulator	Yes
Heat exchanger, double-walled	No	Control range	40 up to 70 °C
Connection	G 3/4 union nut, flat sealing	Spacer for heat meter	Yes
Length	110 mm	Spacer for water meter	Yes
Width	455 mm	Filter insert	Yes
Height	600 mm	Safety valve	No
Supply connections	Bottom	Zone valve	Yes
Heating circuit separation system	Extendable	Max. operating temperature	90 °C
Circulation	Extendable	Max. operating pressure	10 bar
High temperature outlet	Yes	Min. differential pressure supply	150 mbar
Proportional flow controller	No	Leak tested	Yes
		PU	10

Regudis W-HTE



Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Certification	Item No.
Performance range 1	21	Copper brazed	SVGW	1344030
Performance range 2	25	Copper brazed	SVGW	1344031
Performance range 3	30	Copper brazed	SVGW	1344032
Performance range 1	21	Copper brazed, Sealix® protective layer		1344050
Performance range 2	25	Copper brazed, Sealix® protective layer		1344051
Performance range 3	30	Copper brazed, Sealix® protective layer		1344052



Example Regudis W-HTE		Item no.
A	Electrical connecting block for room thermostats and actuators	1400983
B	Cabinet	1344598
C	Potable water circulation module with time switch	1344555
D	Derivative temperature control set	1344490
E	Ball valve connection set for circulation module	1344484
F	Aktor T 2P H NC Actuator for room temperature control	1012452
G	Flow temperature control module	1344550
H	Multidis SF 8-fold Heating circuit distributor/collector	1405358
I	Ball valve connection set	1344480
J	Aktor T 2P H NC Actuator for zone control	1012452
K	Regudis W-HTE Dwelling station	1344032
L	Heating circuit connection fitting	1344551

Regudis W-HTE Accessories and spare parts



Flow temperature control module

Extension module for Regudis W-HTE.

Description

For thermostatic flow temperature control of surface heating circuits, with high-efficiency pump Wilo PARA 15-130/6-43/SC-12, thermostatic temperature controller 25 °C - 50 °C, connection set and electric pipe contact safety switch

Item No.

1344550



Heating circuit connection fitting

Extension module for Regudis W-HTE.

Description

For the flow temperature control module, extension by a constant temperature heating circuit, set consisting of 2 T-pieces and sealing washers

Item No.

1344551



Potable water circulation module

Extension module for Regudis W-HTE.

Description

Time controlled potable water circulation function

Certification

SVGW

Item No.

1344555



Instantaneous water heater module

Extension module for Regudis W-HTE.

Description

For electronic reheating of the potable water

Item No.

1344560 



Connection and piping set

Extension module for Regudis W-HTE.

Description	Item No.
For Regudis W-HTE instantaneous water heater module, for fixing and piping in the cabinet.	1344561



Duo Heating circuit separation module

Extension module for Regudis W-HTE.

Description	Item No.
For system separation of the heating circuit (radiator) on the dwelling side from the heating circuit on the building side	1344575
For system separation of the heating circuit (surface heating) on the dwelling side from the heating circuit on the building side	1344576



Front insulation shell

Description	Item No.
For Regudis W-HTE, made of expanded polypropylene, anthracite	1344470

3.3



Derivative temperature control set

To maintain the flow temperature in the Regudis W station to ensure a quick supply of hot potable water outside of the heating mode.

Description	Item No.
For Regudis W-HTE, thermostatically adjustable heating bypass	1344490

Ball valve connection set



Description	PU	Item No.
For Regudis W-HTE, for shutting off all connections	142	1344480
For Regudis W-HTE potable water circulation module, for shutting off the circulation pipe		1344484
For Regudis W-HTE, for shutting off all connections, with flushing function of the supply pipe		1344485
For Regudis W-HTE flushing and mounting bridge		1344489
For Regudis W-HTE, for shutting off all connections and for flexible hydronic connection from above and/or below		1344570

Stainless steel spacer



Description	Item No.
For Regudis W, for replacing the plastic spacers, G ¾ x 110 mm	1349052

Grounding clamp



Description	Item No.
For Regudis W, for equipotential bonding of dwelling stations without cabinet	1341092

Plug set

Accessory for installation in a four pipe system.



Description	Item No.
For Regudis W-HTE, 2-fold	1344481

Heat meter connection set

Accessory for installation in a four pipe system.



Description	Item No.
With Hycocon VTZ, angle, DN 20	1404578
With Hycocon VTZ, angle, DN 25	1404580
with Hycocon DTZ, angle, DN 25	1404682
With ball valves, angle, DN 20	1405578
With ball valves, angle, DN 25	1405580

Electrical connecting block for surface heating

Accessory for installation in a four pipe system. When using 24 V, an external power supply of 24 V must be available. Item no. 1153053 can be used as transformer.



Description	Item No.
6 control zones, heating, 24 V / 230 V	1400980



Flush-mounted cabinet

Description	PU	Item No.
For Regudis W-HTE, standard model	10	1344596
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 8 circuits	8	1344598
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits	6	1344599



Tiling ready frame

Description	Item No.
For Regudis W-HTE, standard version, for flush wall mounting	1344098



Surface-mounted cabinet

Description	PU	Item No.
For Regudis W-HTE, standard model	9	1344697
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 8 circuits	6	1344698
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits	4	1344699



Cylinder lock

Description	Item No.
With key for flush-mounted cabinets (item no. 1401151-54) and all Regudis W cabinets	1401191



Regubox Exclusive surface-mounted bonnet

Description	Item No.
For Regudis W-HTE, with integrated thermal insulation	1344595



Regubox Exclusive cabinet



Description

As item no. 1341098, but for Regudis W-HTE or Multidis SF/SFQ heating circuit distributors/collectors with a maximum of 9 heating circuit connections (angle connection set item no. 1404780 taken into account)

Item No.

1341298

For Regudis W-HTE exclusive cabinet, mounting set for installation during construction

1344097

Room thermostat for two pipe applications, with display, flush mounting



Electronic control component for the constant temperature heating circuit.

Description

Two point control, 230 V, flush mounting, digital

Item No.

1152561 °

Electric pipe contact safety switch



Electronic control component for the variable temperature heating circuit.

Description

Electric pipe contact safety switch 20 °C - 90 °C

Item No.

1344583

Regtronic RH weather-compensated heating circuit controller for variable/constant temperature heating circuit



Compatible with Datalog CS-BS-6, CS-BS-1 and Regtronic KM-TCP. Extendable by a maximum of 5 extension modules.

Application	Heating circuit control	Solid-state relays	3
	Heat generator activation	Electromechanical relays	2
	Solid fuel boiler	Potential-free relays	1
	Service water heating	PWM*	2
Operating voltage	230 V	PWM switchable 0 - 10 V*	Yes
Further inputs	Pulse inputs V40	Heat meter	5
	Grundfos Direct Sensor	Product compatible to	Regtronic EM
Sensor inputs	8		

Scope of delivery

1 x Outdoor sensor
 1 x Sensor attached to the pipe
 2 x Storage cylinder sensor

Item No.

1152083



Aktor M Electromotive actuator 230 V, connection thread M 30 x 1.5

Electronic control component for the variable temperature heating circuit.

Description

Two point and three point control, 1,5 m cable

Item No.

1012729



Remote control with room temperature sensor

Electronic control component for the variable temperature heating circuit.

Description

For heating curve and function setting (Party, Heating circuit off), control from the living room, sensor element PT 1000, surface mounting

Item No.

1152096



Electrical connecting block for surface heating

Electronic control component for the variable temperature heating circuit.

Description

10 control zones, heating / cooling (change-over), pump and boiler control and integrated time switch, 230 V

Item No.

1400983



Room thermostat for two pipe applications, surface mounting

Electronic control component for the variable temperature heating circuit.

Description

230 V, sensor element PT 1000

Item No.

1152051 °



Aktor T 2P Electrothermal actuator, connection thread M 30 x 1.5

Electronic control component for the variable temperature heating circuit.

Description

Two point control, "normally closed", 230 V, 2 m cable

Item No.

1012452

Regtronic RD-W System controller for the integration of the Regudis W dwelling stations into the heat supply



Description	Item No.
For Regudis W, with touch display	1342093

Sensor connection set

Accessories for Regtronic RD-W system controller.



Description	Item No.
For connecting differential pressure and temperature sensors to the pipework	1357291
For connecting temperature sensors to the pipework	1357292

Regumat Tailpipe set

Accessories for Regtronic RD-W System controller.



Description	Item No.
Coupling G 2 union nut (2 x), for connection to Regumat DN 32	1352088
Coupling R 2 external thread x G 2 union nut (1 x), for connection to Regumat DN 40 / 50	1352089

Outside temperature sensor

Accessories for Regtronic RD-W system controller.



Description	Item No.
For outside temperature measurement, sensor element PT 1000, splash-proof housing, surface mounting	1152099

Temperature sensor

Accessories for Regtronic RD-W System controller.



Description	Item No.
For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m	1369093
For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m	1369094
For temperature measurement and detection at the pipework, with fastening clip Ø 25 - 40 mm and heat conducting paste, sensor element PT 1000, continuous temperature range up to 180 °C, length 1.5 m	1369095



Replacement heat exchanger

For Regudis W-HTE.
 The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.oventrop.com/to/trinkwasseranforderung.

Description	Item No.
Performance range 1, copper brazed	1344083
Performance range 2, copper brazed	1344084
Performance range 3, copper brazed	1344085
Performance range 1, copper brazed with Sealix® protective layer	1344093
Performance range 2, copper brazed with Sealix® protective layer	1344094
Performance range 3, copper brazed with Sealix® protective layer	1344095

Replacement volume flow sensor



Description	PU	Item No.
For Regudis W-HTE, with cable and plug		1344493
For Regudis W-HTE, hall sensor for volume flow sensor	10	1344499
For Regumaq X-25/X-45 and Regudis W-HTE, insertion turbine for volume flow sensor		1381165

Replacement filter insert



Description	Item No.
For Regudis W-HTE	1344495

Replacement temperature sensor potable water



Description	Item No.
For Regudis W-HTE, with cable and plug	1344494

Replacement control valve



Description

For Regudis W-HTE, with integrated differential pressure and volume flow control

Item No.

1344492

Replacement actuator



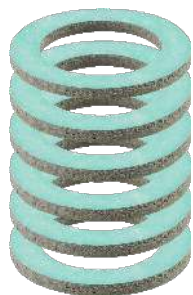
Description

For Regudis W-HTE, with integrated potable water temperature control

Item No.

1344491

Replacement sealing ring



Description

For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G 3/4

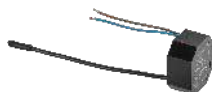
For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G 1

Item No.

1344497

1344498

Replacement power pack



Description

For Regudis W-HTE

Item No.

1344496

Replacement thermostatic temperature controller



Description

For Regudis W-HTE flow temperature control module, with contact sensor, 25 °C - 50 °C

Item No.

1344582





Replacement high-efficiency pump

Description

For Regudis W-HTE potable water circulation module, Wilo Star-Z NOVA
For Regudis W-HTE flow temperature control module, Wilo Para 15-130/6-43/ SC-12

Item No.

1344580
1344581



Replacement ball valve

Description

For Regudis W ball valve connection sets, ball valve for the supply pipe with red handle
For Regudis W ball valve connections sets, ball valve for the return pipe with blue handle

Item No.

1341980
1341981

Regudis W-HTU Hydronic dwelling stations



For the supply of individual dwellings or commercial units with heating water, as well as with hot and cold potable water. The required heat is provided by a central heat supply. Hot potable water is prepared decentrally via a plate heat exchanger according to the continuous flow principle. When selecting the dwelling station, it is necessary to consider the water quality of the application area.

The stations consist of a plate heat exchanger, a proportional flow controller for hydronic control of hot potable water preparation, a ther-

mostatic temperature controller, a filter insert, spacers for heat and water meter, a zone valve for heating circuit control, a differential pressure regulator, vent valves and drain valves.

The Regudis W-HTU dwelling stations are designed for variable temperature heating circuits and are ideal for replacing existing gas boilers in building refurbishment projects. They are characterised by high-quality materials and are completely mounted on a base plate. The stations are tested for tightness and function.



Connection	G 3/4 union nut, flat sealing	Control range	40 up to 70 °C
Height	630 mm	Filter insert	Yes
Circulation	No	Max. operating temperature	90 °C
Proportional flow controller	Yes	Leak tested	Yes

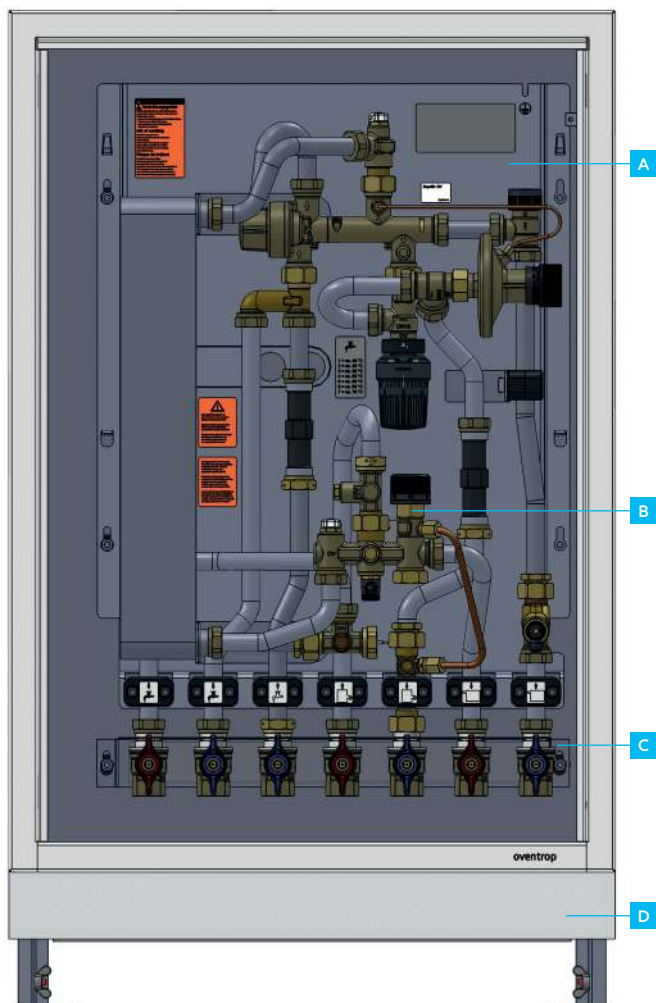


Regudis W-HTU

Heating circuit	Constant temperature	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	Yes
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	Yes
Supply connections	Bottom	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	PU	10
Integrated differential pressure regulator	Yes	Certification	SVGW, ACS, WRAS

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 1	12	Copper brazed	1341030
Performance range 2	15	Copper brazed	1341031
Performance range 3	17	Copper brazed	1341032
Performance range 1	12	Nickel brazed	1341050
Performance range 2	15	Nickel brazed	1341051
Performance range 3	17	Nickel brazed	1341052

Nominal draw off capacity = Nominal draw off capacity heating of potable water 10 °C/50 °C with ΔT 15 K (according to SFP test procedure)



Example Regudis W-HTU

Item no.

A	Regudis W-HTU Dwelling station	1341032
B	Derivative temperature control set	1341191
C	Ball valve connection set	1341080
D	Flush mounted cabinet – narrow model	1341070



Regudis W-HTU without cold water outlet and spacer for water meter

Heating circuit	Constant temperature	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	No
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	Yes
Supply connections	Bottom	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	PU	10
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Certification	Item No.
Performance range 2	15	Copper brazed	ACS, SVGW	1341231
Performance range 2	15	Nickel brazed	SVGW	1341251



Regudis W-HTU without cold water outlet and spacer for water meter

With double-walled heat exchanger.

Heating circuit	Constant temperature	Spacer for heat meter	Yes
Heat exchanger, double-walled	Yes	Spacer for water meter	No
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	Yes
Supply connections	Bottom	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	PU	10
Integrated differential pressure regulator	Yes	Certification	SVGW

Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
8	Copper brazed	1341220





Regudis W-HTO without cold water outlet and spacer for water meter

Supply connctions from the top.
 With strainer in the potable water inlet.
 Without cold water outlet dwelling and spacer for water meter.
 With six ball valves.

Heating circuit	Constant temperature	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	No
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	Yes
Supply connections	Top	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	PU	10
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Certification	Item No.
Performance range 2	15	Nickel brazed	SVGW	1341271
Performance range 2	15	Copper brazed	SVGW, ACS	1341274



Regudis W-TU

For hot potable water preparation.
 Without heating circuit, cold water outlet dwelling and spacers for water and heat meter.
 Derivative temperature control set pre-assembled. With four ball valves.

Heat exchanger, double-walled	No	Spacer for water meter	No
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	No
Supply connections	Bottom	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	300 mbar
High temperature outlet	No	PU	10
Integrated differential pressure regulator	Yes	Certification	SVGW, ACS
Spacer for heat meter	No		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Nickel brazed	1341252
Performance range 3	17	Copper brazed	1341262

3.3



Regudis W-TU

For hot potable water preparation.
 Without heating circuit.
 Derivative temperature control set pre-assembled.

Heat exchanger, double-walled	No	Spacer for heat meter	Yes
Length	150 mm	Spacer for water meter	Yes
Width	476 mm	Safety valve	No
Supply connections	Bottom	Zone valve	No
Heating circuit separation system	No	Max. operating pressure	10 bar
High temperature outlet	No	Min. differential pressure supply	300 mbar
Integrated differential pressure regulator	Yes	PU	10

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Certification	Item No.
Performance range 3	17	Copper brazed	SVGW, ACS	1341257
Performance range 3	17	Nickel brazed	SVGW	1341267



Regudis W-HTU Duo with heating circuit separation system

Heating circuit	Variable temperature	Spacer for heat meter	Yes
Control range heating circuit	40 up to 70 °C	Spacer for water meter	Yes
Heat exchanger, double-walled	No	Safety valve	Yes
Length	150 mm	Zone valve	Yes
Width	630 mm	Max. operating pressure	16 bar
Supply connections	Bottom	Min. differential pressure supply	300 mbar
Heating circuit separation system	Yes	PU	5
High temperature outlet	Yes	Certification	ACS, WRAS
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341332





Regudis W-HTO Duo with heating circuit separation system

Potable water and supply connections from the top.
 Without cold water outlet dwelling and spacer for water meter.
 Derivative temperature control set cannot be integrated.

Heating circuit	Variable temperature	Spacer for heat meter	Yes
Control range heating circuit	25 up to 50 °C	Spacer for water meter	No
Heat exchanger, double-walled	No	Safety valve	Yes
Length	150 mm	Zone valve	Yes
Width	630 mm	Max. operating pressure	10 bar
Supply connections	Top	Min. differential pressure supply	300 mbar
Heating circuit separation system	Yes	PU	5
High temperature outlet	Yes	Certification	WRAS
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341372



Regudis W-HTU Basic

Without differential pressure regulator, cold water outlet dwelling and spacer for water meter.

Heating circuit	Constant temperature	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	No
Length	150 mm	Safety valve	No
Width	476 mm	Zone valve	Yes
Supply connections	Bottom	Max. operating pressure	10 bar
Heating circuit separation system	No	Min. differential pressure supply	150 mbar
High temperature outlet	Yes	PU	10
Integrated differential pressure regulator	No	Certification	ACS

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 1	12	Copper brazed	1340930 °
Performance range 2	15	Copper brazed	1340931 °
Performance range 3	17	Copper brazed	1340932 °
Performance range 1	12	Nickel brazed	1340950 °
Performance range 2	15	Nickel brazed	1340951 °
Performance range 3	17	Nickel brazed	1340952 °



Regudis W-HTU Basic with double-walled heat exchanger

Without differential pressure regulator, cold water outlet dwelling and spacer for water meter.

Heating circuit	Constant temperature	Integrated differential pressure regulator	No
Heat exchanger, double-walled	Yes	Spacer for heat meter	Yes
Length	175 mm	Spacer for water meter	No
Width	476 mm	Safety valve	No
Supply connections	Bottom	Zone valve	Yes
Heating circuit separation system	No	Max. operating pressure	10 bar
High temperature outlet	Yes	Min. differential pressure supply	150 mbar

Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
8	Copper brazed	1340920



Regudis W-HTF Hydronic dwelling stations



For the supply of individual dwellings or commercial units with heating water, as well as with hot and cold potable water. The required heat is provided by a central heat supply. Hot potable water is prepared decentrally via a plate heat exchanger according to the continuous flow principle. When selecting the dwelling station, it is necessary to consider the water quality of the application area.

The stations consist of a plate heat exchanger, a proportional flow controller for hydronic control of hot potable water preparation, a thermostatic temperature controller, a filter insert, spacers for heat and water meter, a zone valve

for heating circuit control, a differential pressure regulator, vent valves and drain valves. The version with variable temperature heating circuit also features a thermostatic flow temperature control with integrated high-efficiency pump for the low temperature range.

The Regudis W-HTF dwelling stations are optionally available for constant or variable temperature heating circuits and are ideally suited for installation in lightweight partition walls due to their low installation depth. They are characterised by high-quality materials and are completely mounted on a base plate. The stations are tested for tightness and function.

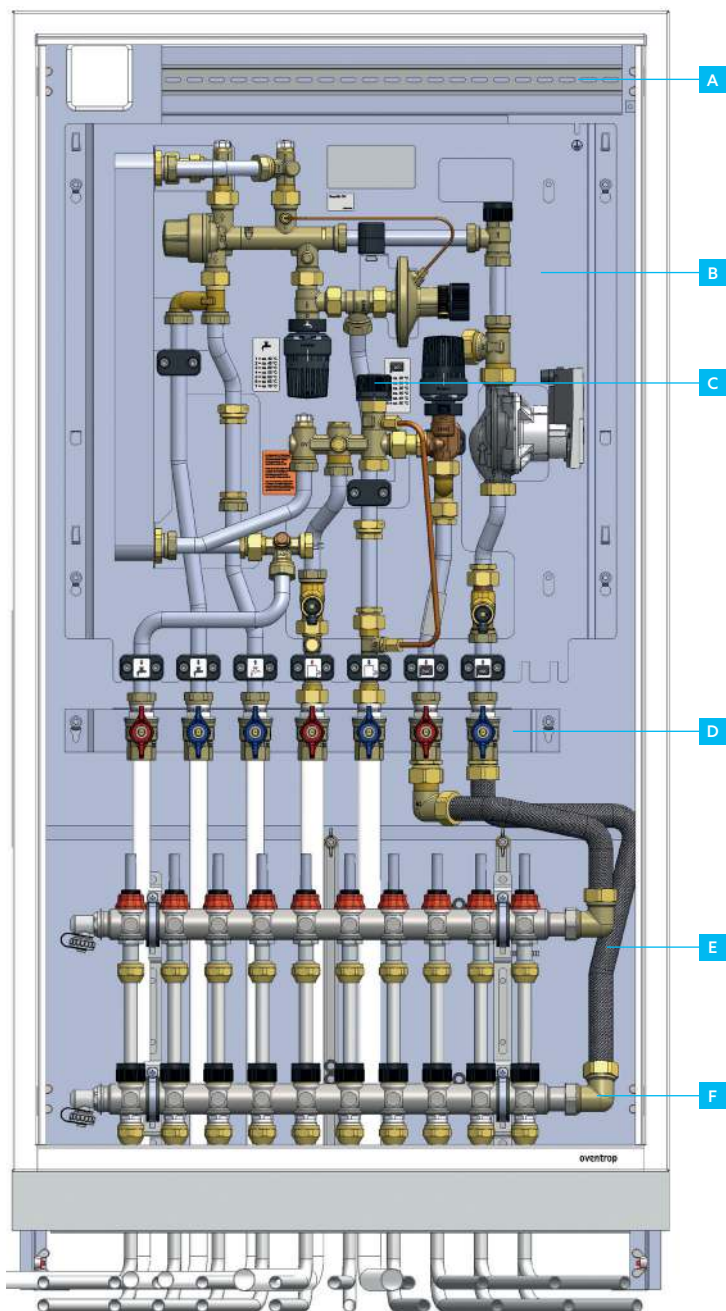
Heat exchanger, double-walled	No	Control range	40 up to 70 °C
Connection	G ¾ union nut, flat sealing	Spacer for heat meter	Yes
Length	110 mm	Spacer for water meter	Yes
Height	655 mm	Filter insert	Yes
Supply connections	Bottom	Safety valve	No
Heating circuit separation system	No	Zone valve	Yes
Proportional flow controller	Yes	Max. operating temperature	90 °C
Integrated differential pressure regulator	Yes	Max. operating pressure	10 bar
		Min. differential pressure supply	300 mbar
		Leak tested	Yes



Regudis W-HTF with constant temperature heating circuit

Heating circuit	Constant temperature	High temperature outlet	Yes
Width	565 mm	PU	10
Circulation	No		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 1	12	Copper brazed	1341130
Performance range 2	15	Copper brazed	1341131
Performance range 3	17	Copper brazed	1341132
Performance range 1	12	Nickel brazed	1341150
Performance range 2	15	Nickel brazed	1341151
Performance range 3	17	Nickel brazed	1341152



Example Regudis W-HTF

Item no.

A	Cabinet – long model	1341175
B	Regudis W-HTF Dwelling station	1341140
C	Derivative temperature control set	1341191
D	Ball valve connection set	1341180
E	Connection set for Multidis SF heating circuit distributor/collector	1341187
F	Multidis SF 10-fold Heating circuit distributor/collector	1405360



Regudis W-HTF with variable temperature heating circuit

Heating circuit	Variable temperature	High temperature outlet	No
Control range heating circuit	25 up to 50 °C	PU	8
Width	630 mm	Certification	ACS
Circulation	No		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 1	12	Copper brazed	1341140
Performance range 2	15	Copper brazed	1341141
Performance range 3	17	Copper brazed	1341142
Performance range 1	12	Nickel brazed	1341160
Performance range 2	15	Nickel brazed	1341161
Performance range 3	17	Nickel brazed	1341162



Regudis W-HTF with variable temperature heating circuit and high temperature outlet

Heating circuit	Variable temperature	High temperature outlet	Yes
Control range heating circuit	25 up to 50 °C	PU	8
Width	630 mm	Certification	ACS
Circulation	No		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 1	12	Copper brazed	1341340
Performance range 2	15	Copper brazed	1341341
Performance range 3	17	Copper brazed	1341342
Performance range 1	12	Nickel brazed	1341360
Performance range 2	15	Nickel brazed	1341361
Performance range 3	17	Nickel brazed	1341362



Regudis W-HTF with constant temperature heating circuit and circulation pipe

Heating circuit	Constant temperature	High temperature outlet	Yes
Width	565 mm	PU	8
Circulation	Yes		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341642
Performance range 3	17	Nickel brazed	1341662

Regudis W-HTF with variable temperature heating circuit and circulation pipe



Heating circuit	Variable temperature	Circulation	Yes
Control range heating circuit	25 up to 50 °C	High temperature outlet	No
Width	630 mm	PU	8

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341442
Performance range 3	17	Nickel brazed	1341462

Regudis W-HTF with variable temperature heating circuit, high temperature outlet and circulation pipe



Heating circuit	Variable temperature	Circulation	Yes
Control range heating circuit	25 up to 50 °C	High temperature outlet	Yes
Width	630 mm	PU	8

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341542
Performance range 3	17	Nickel brazed	1341562

Regudis W-HTF GSWB



With spacer for cold and hot water meter, no potable water priority function.
 Derivative temperature control set pre-assembled. Return temperature limiter in the heating circuit.

Heating circuit	Constant temperature	High temperature outlet	Yes
Width	565 mm	PU	8
Circulation	No		

Performance range	Nominal draw off capacity* (l/min)	Heat exchanger	Item No.
Performance range 2	15	Copper brazed	1341121





3.3

Regudis W-HTU/W-HTF Accessories and spare parts

Connection set



Description	Item No.
For Regudis W-HTF, for connecting Multidis SF heating circuit distributors/collectors	1341187

T-piece



Description	Item No.
For Regudis W-HTF, for connecting two Multidis SF heating circuit distributors/collectors to one connection set	1685121

Derivative temperature control set

To maintain the flow temperature in the Regudis W station to ensure a quick supply of hot potable water outside of the heating mode.



Description	Item No.
For Regudis W-HTO Duo, ready for installation	1341087
For Regudis W-HTU/W-TU, ready for installation	1341088
For Regudis W-HTO, ready for installation	1341089
For Regudis W-HTF, ready for installation	1341188

Return temperature limiter set



Description	Item No.
For Regudis W-HTU/W-HTO, for limitation of the heating circuit return temperature, control range 0 °C - 40 °C	1341091

Stainless steel spacer



Description	Item No.
For Regudis W, for replacing the plastic spacers, G 3/4 x 110 mm	1349052

Ball valve connection set



Description	PU	Item No.
For Regudis W-HTU, for shutting off all connections	80	1341080
For Regudis W-HTU, for shutting off all connections, with flushing function of the supply pipe		1341082
For Regudis W-TU, for shutting off all connections, without heating circuit connection dwelling		1341083
For Regudis W-HTU Basic, for shutting off all connections, without cold water outlet dwelling		1341084
For Regudis W-HTF, for shutting off all connections	80	1341180
For Regudis W-HTF, GSWB version, for shutting off all connections		1341182
For Regudis W-HTF, for shutting off the high temperature outlet		1341183
For Regudis W-HTF, for shutting off the circulation pipe		1341184
For Regudis W-HTF, for shutting off all connections, with flushing function of the supply pipe		1341185

Flushing and mounting bridge



Description	Item No.
For Regudis W-HTF, for flushing the heating system	1341189

Plug



Description	Item No.
For Regudis W-HTF, for temperature sensor, G 1/2 external thread x M 10 x 1.0 internal thread, Ø 5.6	1349051
For Regudis W-HTF, for temperature sensor, G 1/2 x M 12 x 1.5	1349053
For Regudis W-HTF with high temperature outlet, for temperature sensor, G 1/4 external thread x M 10 x 1,0 internal thread, Ø 5.6	1349054

Drain set



Description	Item No.
For Regudis W, for easy draining of the heating circuit when installing a heat meter	1341094 °

Flow limiter



Description	Item No.
Draw off capacity limitation 12 l/min	1349980
Draw off capacity limitation 15 l/min	1349981
Draw off capacity limitation 17 l/min	1349982

Conversion set



Description	Item No.
For Regudis W-TU/W-HTU/W-HTU-Duo, for retrofitting a cold water meter to the dwelling	1341093 °

Connection set



Description	Item No.
For Regudis W, with 7 flexible corrugated pipes which can be shortened individually	1341081 °

Accessory set for equipotential bonding

Fixing material for connection to the base plate of the dwelling station.



Description	Item No.
For Regudis W-HTU/W-HTF	1349983

Bonnets and cabinets for hydronic dwelling stations

Bonnet

Item no.	1341072	1341095	1341097	1341195	1341197	1341295	1341296
1340920							●
1340930/31/32		●	●				
1340950/51/52		●	●				
1341030/31/32		●	●				
1341050/51/52		●	●				
1341121				●			
1341130/31/32				●			
1341140/41/42					●		
1341150/51/52				●			
1341160/61/62					●		
1341220							●
1341231/51		●	●				
1341252/62		●	●				
1341257/67		●	●				
1341271/74						●	
1341332							
1341340/41/42					●		
1341360/61/62					●		
1341372	●						
1341442/62							
1341542/62							
1341642/62							



Cabinets

Flush mounting				Surface mounting				Regubox 1341098
1341070	1341170	1341175	1341177	1341071	1341198	1341193	1341074	
•		• ¹	• ¹		•	•		•
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1 = Min. required installation depth: 150 mm





Flush-mounted cabinet

Description	PU	Item No.
For Regudis W, narrow model	8	1341070
For Regudis W, wide model	10	1341170
For Regudis W, long model, for heating circuit distributors/collectors up to 8 circuits	9	1341175
For Regudis W, long model, for heating circuit distributors/collectors up to 12 circuits	5	1341177



Surface-mounted cabinet

Description	PU	Item No.
For Regudis W, standard model	8	1341071
For Regudis W, long model, for heating circuit distributors/collectors up to 10 circuits, pipe lead-through from above and below	6	1341074
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits		1341193
For Regudis W, long model, for heating circuit distributors/collectors up to 10 circuits	7	1341198



Surface-mounted bonnet

Description	PU	Item No.
For Regudis W, wall-hung, pipe lead-through from above and below	7	1341072
For Regudis W, standard model	8	1341095
For Regudis W, standard model, stainless steel design		1341097 °
For Regudis W, standard model, with door	10	1341195
For Regudis W, wide model	10	1341197
For Regudis W, long model, pipe lead-through from above and below	7	1341295
For Regudis W-HTU with double-walled heat exchanger, standard model	8	1341296



Refurbishment frame

Description	Item No.
For Regudis W-HTF, GSWB version	1341196



Regubox Exclusive cabinet

Description	Item No.
For Regudis W-HTU/HTF with constant temperature heating circuit and Multidis SF/SFQ heating circuit distributors/collectors with a maximum of 6 heating circuit connections (angle connection set item no. 1404780 taken into account)	1341098 °



Mounting set for installation during construction

Description	Item No.
For Regubox exclusive cabinet (item no. 1341098), floor-standing installation, adjustable height	1341099 °



Wall mounting set

Description	Item No.
For Regubox exclusive cabinet (item no. 1341098), wall mounting	1341199 °

Cylinder lock



Description	Item No.
With key for flush-mounted cabinets (item no. 1401151-54) and all Regudis W cabinets	1401191



Replacement heat exchanger

For Regudis W-HTU.
 The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.ointrop.com/to/trinkwasseranforderung.

Description	Item No.
Performance range 1 12 l/min, 24 plates, copper brazed	1341280
Performance range 2 15 l/min, 30 plates, copper brazed	1341281
Performance range 3 17 l/min, 30 plates, copper brazed	1341282
Performance range 1 12 l/min, 24 plates, nickel brazed	1341290
Performance range 2 15 l/min, 30 plates, nickel brazed	1341291
Performance range 3 17 l/min, 30 plates, nickel brazed	1341292





Replacement heat exchanger

For Regudis W-HTF.
 The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.oventrop.com/to/trinkwasseranforderung.

Description	Item No.
Performance range 3 17 l/min, 30 plates, copper brazed	1341282
Performance range 1 12 l/min, 16 plates, copper brazed	1341283
Performance range 2 15 l/min, 20 plates, copper brazed	1341284
Performance range 3 17 l/min, 30 plates, nickel brazed	1341292
Performance range 1 12 l/min, 16 plates, nickel brazed	1341383
Performance range 2 15 l/min, 20 plates, nickel brazed	1341384

Replacement proportional flow controller



Description	Item No.
For Regudis dwelling stations, except for Regudis GSWB/W-TU	1343050

Replacement temperature controller



Description	Item No.
For Regudis W, for potable water temperature control, with spiral sensor made of stainless steel	1343092

Replacement filter insert



Description	Item No.
For Regudis W, 2-fold	1349098



Replacement drain valve

Description	Item No.
For Regudis W	1349099



Replacement high-efficiency pump

Description	Item No.
For Regudis W-HTF with potable water circulation, Wilo-Star-Z NOVA	1349096
For Regudis W-HTF with variable temperature heating circuit, Wilo-Yonos PARA RS 15/6 RK	1349097 °



Replacement ball valve

Description	Item No.
For Regudis W ball valve connection sets, ball valve for the supply pipe with red handle	1341980
For Regudis W ball valve connections sets, ball valve for the return pipe with blue handle	1341981



3.4 Storage cylinders

Hydrocor Storage cylinders **507**

Hydrocor HP Buffer storage cylinders.....	508
Hydrocor HS Solar buffer storage cylinders.....	509
Hydrocor HP/HS Accessories and spare parts.....	510
Hydrocor WM Monovalent potable water storage cylinders.....	511
Hydrocor WB Bivalent potable water storage cylinder.....	512

Regucor Energy storage centres **513**

Regucor WHS Energy storage centres.....	515
Regucor WH Energy storage centres.....	516
Regucor WH/WHs Accessories and spare parts.....	517



3.4 Storage cylinders

Hydrocor Storage cylinders	507
Hydrocor HP Buffer storage cylinders.....	508
Hydrocor HS Solar buffer storage cylinders.....	509
Hydrocor HP/HS Accessories and spare parts.....	510
Hydrocor WM Monovalent potable water storage cylinders.....	511
Hydrocor WB Bivalent potable water storage cylinder.....	512



Hydrocor HP Buffer storage cylinders



Buffer storage cylinders for the storage of heating water. Various heat generators, such as conventional boilers, heat pumps, solid fuel boilers or solar thermal systems can be connected.

The buffer storage cylinders have a separating sheet in the upper third of the cylinder for better separation of the standby volume. The loading and unloading connections are equipped with baffle plates, one unloading connection has an internally raised connection pipe

for withdrawal in the upper standby volume. Additionally there is a connection for an electric immersion heater and an air vent connection at the torispherical head. Temperature sensors can be positioned at lateral sensor clamps.

The storage cylinders are particularly energy efficient due to a fibre fleece insulation (energy efficiency class C) or a composite insulation (energy efficiency class A).

Connection	G 1 1/2 internal thread
Max. operating temperature	95 °C



Hydrocor HP

Without thermal insulation. Thermal insulation available as accessory.

Total height	1,720 mm	Max. operating pressure	3 bar
Ø (without ti)*	650 mm		

Type	Item No.
500	1387505 °



Hydrocor HP

With thermal insulation (energy efficiency class C).

Thickness TI*	160 mm
---------------	--------

Type	Total height (mm)	Ø (without ti)* (mm)	Ø (with ti)* (mm)	Max. operating pressure (bar)	Item No.
800	1,830	790	1,090	3	1385008
1,000	2,110	790	1,090	3	1385010
1,500	2,190	1,000	1,300	3	1385015
800	1,830	790	1,090	6	1386008
1,000	2,110	790	1,090	6	1386010
1,500	2,190	1,000	1,300	6	1386015

Hydrocor HS Solar buffer storage cylinders



Solar buffer storage cylinders for the storage of heating water with additional internal tube heat exchanger for the connection to a solar thermal system. Additional heat generators, such as conventional boilers, heat pumps, solid fuel boilers or solar thermal systems can be connected.

The solar buffer storage cylinders have a separating sheet in the upper third of the cylinder for better separation of the standby volume. The loading and unloading connections are equipped with baffle plates, one unloading

connection has an internally raised connection pipe for withdrawal in the upper standby volume. Additionally there is a connection for an electric immersion heater and an air vent connection at the torispherical head. Temperature sensors can be positioned at lateral sensor clamps.

The storage cylinders are particularly energy efficient due to a fibre fleece insulation (energy efficiency class C) or a composite insulation (energy efficiency class A).

Connection	G 1 1/2 internal thread	Max. operating pressure	3 bar
Max. operating temperature	95 °C		



Hydrocor HS

Without thermal insulation. Thermal insulation available as accessory.

Total height	1,720 mm	Ø (without ti)*	650 mm
--------------	----------	-----------------	--------

Type	Item No.
500	1385105 °



Hydrocor HS

With thermal insulation (energy efficiency class C).

Ø (without ti)*	790 mm	Thickness TI*	160 mm
Ø (with ti)*	1,090 mm		

Type	Total height (mm)	Item No.
800	1,830	1385107 °
1,000	2,110	1385110 °

Hydrocor HP/HS Accessories and spare parts

Thermal insulation

Description	Item No.
For Hydrocor HP type 500, energy efficiency class C	1387006 °
For Hydrocor HS type 500, energy efficiency class C	1387106 °
For Hydrocor HP type 500, energy efficiency class A	1387506 °
For Hydrocor HS type 500, energy efficiency class A	1387606 °

Thermal insulation cap

For optimum thermal insulation of connections not in use.



Description	Item No.
For G 1 1/2 connection sleeves	1389001

Electrical immersion heater

For direct heating and warming of the storage medium heating water in storage cylinders.



Description	Item No.
With controller/limiter combination, 25 °C - 70 °C, capacity (P): 9 kW, U _{required} : 400 V	1383594 °

Extension

Description	Item No.
For passing the electrical immersion heater through the thermal insulation	1383592 °



Hydrocor WM Monovalent potable water storage cylinders



Monovalent potable water storage cylinders for the storage of heating water with additional internal heat exchanger for reheating. Heat generators, such as conventional boilers, heat pumps or local district heating networks can be connected.

The monovalent potable water storage cylinders have an enamel coating, an integrated thermometer and a cleaning flange.

The storage cylinders are particularly energy efficient due to a PUR rigid foam thermal insulation (energy efficiency class B).

Surface	Enamelled	Max. operating temperature	95 °C
Energy efficiency class	B	Max. operating pressure	10 bar



Hydrocor WM

Type	Connection	Total height (mm)	Ø (with ti)* (mm)	Thickness TI* (mm)	Item No.
120	R ¾ external thread	825	610	55	1395010
160	R ¾ external thread	1,035	610	55	1395011
200	G 1 external thread	1,200	650	75	1395012

Hydrocor WB Bivalent potable water storage cylinder



Bivalent potable water storage cylinder for the storage of heating water with additional internal heat exchanger for solar heating and re-heating. Heat generators, such as conventional boilers or heat pumps can be connected.

has an enamel coating, an integrated thermometer and a cleaning flange.

The storage cylinder is particularly energy efficient due to a PUR rigid foam thermal insulation (energy efficiency class B).

The bivalent potable water storage cylinder

Connection	G 1 external thread	Thickness TI*	75 mm
Surface	Enamelled	Max. operating temperature	95 °C
Energy efficiency class	B	Max. operating pressure	10 bar
Total height	1,900 mm		
Ø (with ti)*	650 mm		



Hydrocor WB

Type	Item No.
300	1387303 °



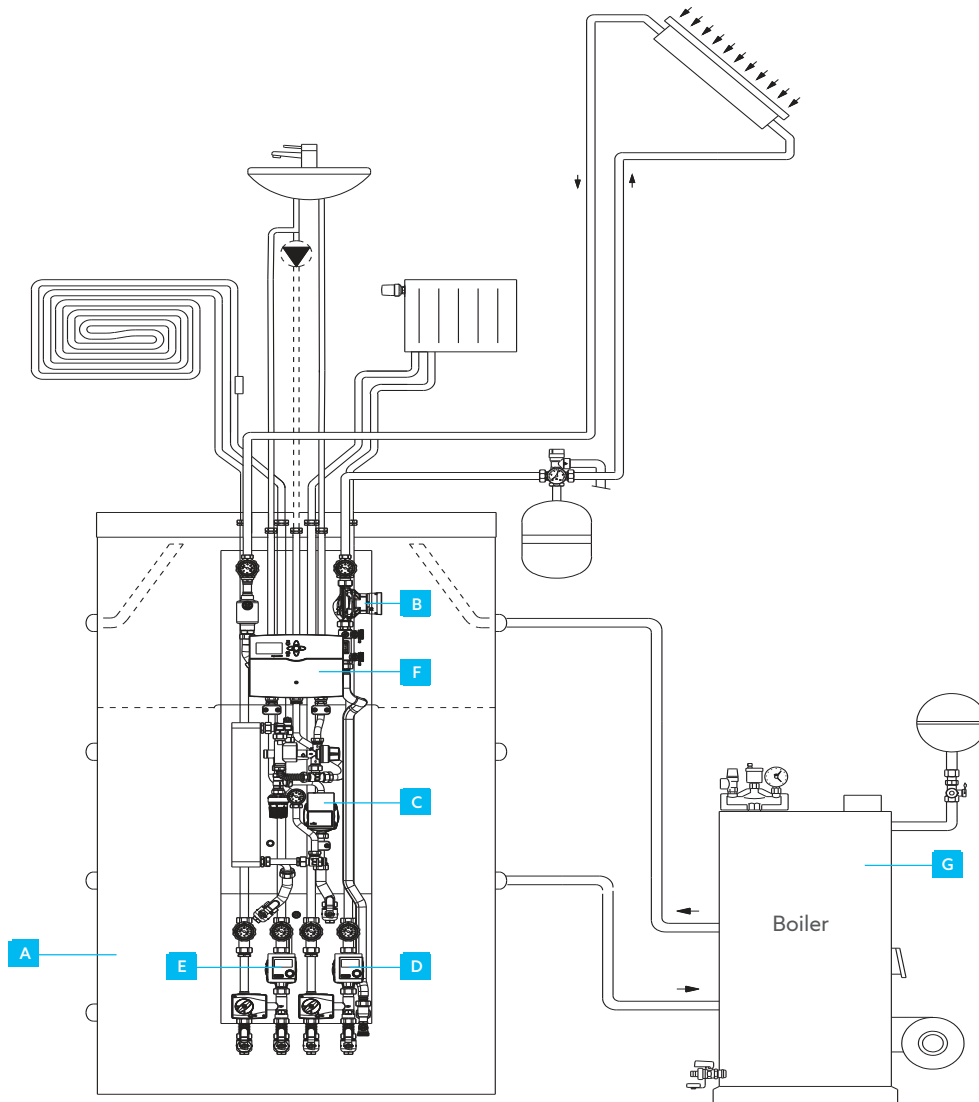
3.4 Storage cylinders

Regucor Energy storage centres 513

Regucor WHS Energy storage centres.....	515
Regucor WH Energy storage centres.....	516
Regucor WH/WHS Accessories and spare parts.....	517



Regucor WHS in combination with a conventional heat generator



- A** System storage cylinder
- B** Add-on group Solar
- C** Add-on group Fresh water
- D** Add-on group Heating circuit 1

- E** Add-on group Heating circuit 2 (optional)
- F** **Regtronic RS** System controller
- G** Heat generator (e.g. oil/gas/heat pump/solid fuel)

Regucor WHS Energy storage centres



Modular system for the solar-supported supply of detached and semi-detached houses with heat and hot water. The storage cylinder and the add-on groups are functionally and thermodynamically coordinated. With integrated pipework and cabling ready for plug-in. For combination with conventional (e.g. gas/oil) and regenerative heat generators (e.g. heat pump/solid fuel) in existing and new buildings.

The energy storage centre consists of a sys-

tem storage cylinder, a Regusol LH-130 DN 20 solar station, a Regumaq XH DN 20 fresh water station, a Regumat M3-130 DN 20 heating circuit station and a multifunctional system controller.

The energy storage centre is characterised by low installation and piping costs due to internal pipework, pre-assembled add-on groups and only one connection level to the building installation.

Regucor WHS

Without thermal insulation. Thermal insulation available as accessory.

Type	Heat exchanger	Item No.
500	Copper brazed	1383645 °



Regucor WHS

With thermal insulation (energy efficiency class C).

Type	Heat exchanger	Item No.
800	Copper brazed	1383550 °
1,000	Copper brazed	1383555 °
800	Nickel brazed	1383562 °
1,000	Nickel brazed	1383567 °

ErP classification Regtronic RS for Regucor WHS

Controller	Required accessories	Boiler control		ErP %	Class
		Modulating (0-10 V)	On/Off		
Regucor controller Regtronic RS incl. remote control with room temperature sensor	—	●		2.0	II
	—		○●	1.5	III
	2 x Room temperature sensor 1152095	●		4.0	VI

Regucor WH Energy storage centres



Modular system for the supply of detached and semi-detached houses with heat and hot water. The storage cylinder and the add-on groups are functionally and thermodynamically coordinated. With integrated pipework and cabling ready for plug-in. For combination with conventional (e.g. gas/oil) and regenerative heat generators (e.g. heat pump/solid fuel) in existing and new buildings. The energy storage centre consists of a sys-

tem storage cylinder, a Regumaq XH DN 20 fresh water station and a Regumat M3-130 DN 20 heating circuit station.

The energy storage centre is characterised by low installation and piping costs due to internal pipework, pre-assembled add-on groups and only one connection level to the building installation.



Regucor WH

With thermal insulation (energy efficiency class C).

Type	Heat exchanger	Item No.
800	Copper brazed	1383460 °
1,000	Copper brazed	1383465 °

Regucor WH/WHS Accessories and spare parts



Thermal insulation

Description

For Regucor WHS type 500, energy efficiency class A

Item No.

1383646 °



Extension set solar

Description

For Regucor WH, Regusol LH-130 DN 20

Item No.

1383480 °



Extension set system controller

Compatible with Datalog CS-BS-6 and CS-BS-1.

Description

For Regucor WH, system controller Regtronic RS

Item No.

1383485 °



Extension set heating circuit

Description

For Regucor WH/WHS, Regumat M3-130 DN 20

Item No.

1383575 °



Extension set potable water circulation

Description

For Regumaq XH and Regucor WH/WHS, with circulation pump Wilo-Star Z Nova C and time switch

For Regumaq XH and Regucor WH/WHS, without circulation pump

Item No.

1381047 °

1381049 °



Extension set zone loading

For targeted stratification in different sections of the buffer storage cylinder.

Description

For Regucor WH/WHS, with three-way valves, electromotive actuators and angle adapter

Item No.

1383583 °



Connection set

Description

For Regucor WH/WHS, for connection of the heating circuit station and the fresh water station

For Regucor WH/WHS, for connection of an additional heating circuit station

For Regucor WH/WHS, for connection of the extension set potable water circulation

Item No.

1383580 °

1383581 °

1383584 °



Solar diaphragm expansion tank

For wall mounting

Description

Nominal volume 18 l, G 3/4 external thread, inlet pressure 1.5 bar

Nominal volume 25 l, G 3/4 external thread, inlet pressure 1.5 bar

Nominal volume 33 l, G 3/4 external thread, inlet pressure 1.5 bar

PU

Item No.

1361421 °

1361422 °

12

1361423 °

Connection set for diaphragm expansion tank

PU

80



Description

For Solar diaphragm expansion tank, with wall bracket, quick coupling for diaphragm expansion tank and flexible hose

Item No.

1369051



Expa-Con Solar Cap valve

PU 25

Description

DN 20, Rp 3/4 internal thread x G 3/4 external thread

Item No.

1364185

Electrical immersion heater



Description

With controller/limiter combination, 25 °C - 70 °C, capacity (P): 9 kW, U_{required}: 400 V

Item No.

1383594 °

Extension



Description

For passing the electrical immersion heater through the thermal insulation

Item No.

1383592 °

For passing the connection pipe for storage cylinder loading through the thermal insulation

1383593 °

Sensor LW TH

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m

1369094

Electric pipe contact safety switch



Description

For maximum limitation of the flow temperature in surface heating systems, control range 20 °C - 90 °C

Item No.

1143000



Replacement safety group solar

Description

For riser installation with safety valve 6 bar

Item No.

1364248



Potable water

4



4.1 Products for the preservation of potable water hygiene

Aquastrom Thermal circulation valves **525**

Aquastrom VT Thermal circulation valves.....	527
Aquastrom T plus Thermal circulation valves.....	529
Aquastrom K Thermostatic cold water circulation valves.....	532
Aquastrom UP-Therm Flush-mounted circulation valves.....	533
Thermal circulation valves Accessories and spare parts.....	535

Aquastrom Static control valves **538**

Aquastrom C Static control valves.....	539
Aquastrom C Accessories and spare parts.....	541

Circulation and flushing stations **544**

Regudrain Flushing stations.....	545
Regudrain Accessories and spare parts.....	546
Regucirc Circulation station.....	549
Regucirc Accessories and spare parts.....	550





4.1 Products for the preservation of potable water hygiene

Aquastrom Thermal circulation valves **525**

Aquastrom VT Thermal circulation valves.....	527
Aquastrom T plus Thermal circulation valves.....	529
Aquastrom K Thermostatic cold water circulation valves.....	532
Aquastrom UP-Therm Flush-mounted circulation valves.....	533
Thermal circulation valves Accessories and spare parts.....	535

Hygiene with the Aquanova-system – for our most important food: Potable water

Potable water can spoil like any other food. The potable water installation has a great influence on this. It is the "packaging" that carries the water from the house connection to the individual tapping points - hygienically

pure and safe for consumption, in accordance with the German Potable Water Ordinance (TrinkwV). Therefore, neither the operation nor the materials used in the potable water installation may impair the water quality.

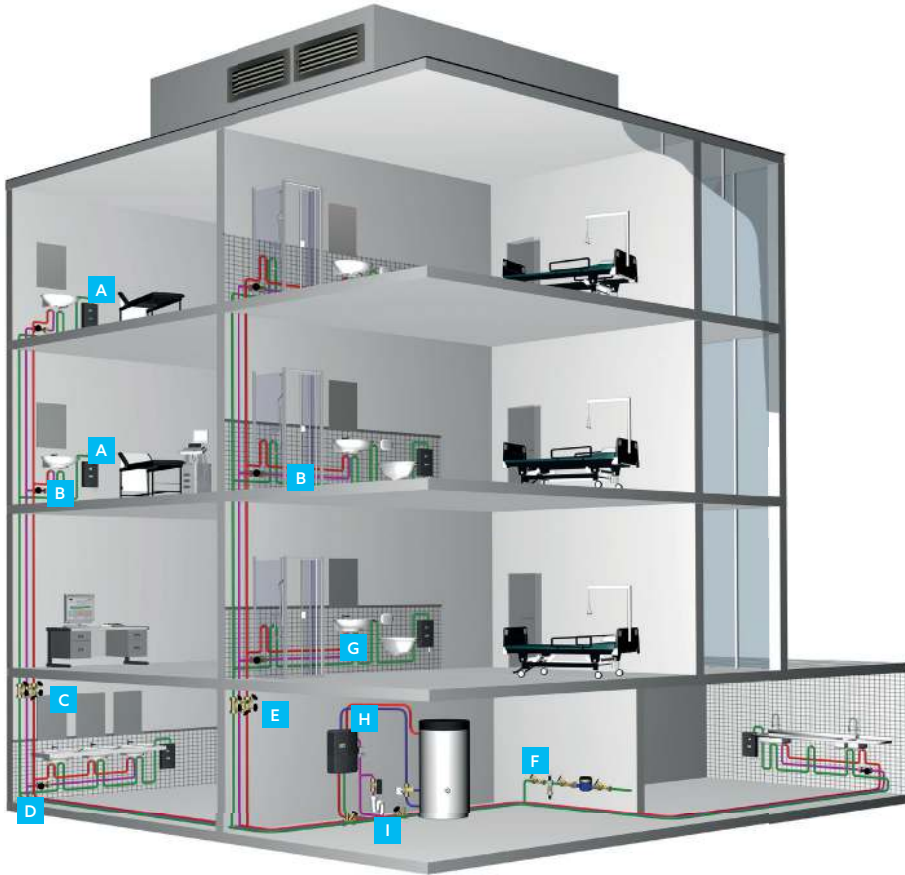
Our **Aquanova system** includes systems, products, software and other services related to potable water.

Another advantage: we are not only the partner for clean potable water, but also for efficient heating and cooling.

With our modular systems, all HVAC professionals work easily and flexibly - because they can combine the pioneering solutions depending on their requirements. Our close cooperation with the trade and many years of experience in systems engineering make us a competence leader.

Our competent service teams provide support in the design and calculation of potable water and heating systems.

In our **OV Academy** we offer certified training courses for specifying engineers and qualified tradespeople.



A Regudrain
Hygiene flushing station



B Aquastrom UP-Therm



C Aquastrom F
with water sampling valve



D Aquastrom VT



E Aquastrom C



F Aquastrom F



G Aquastrom P



H Regumaq X
Fresh water station



I Optibal TW



I Regudis W
Dwelling station

Aquastrom VT Thermal circulation valves



Thermal circulation valve with adjustable temperature control range for hydronic balancing in circulation pipes according to DVGW work sheet W551/W553.

Below the set temperature, the valve opens and automatically increases the hot water volume flow. The valve has an individual setting of the residual volume flow, automatically detects thermal disinfection and allows the riser to be shut off via a ball valve. The valve is equipped with a drain valve with hose connection and a thermometer. A temperature sensor can be retrofitted.

Valve made of bronze, all parts coming into contact with the medium free from brass. A thermal insulation shell made of expanded polystyrene according to the German Energy Saving Ordinance (EnEV) and building material class B1 according to DIN 4102 is included in the scope of delivery.

The temperature and volume flow settings can be lead sealed to prevent unintentional adjustment.



Control range	50 up to 65 °C	Operating temperature	up to 90 °C
Body material	Bronze	Shutoff	Yes
Installation location	Return	Draining	Yes
Max. operating pressure	16 bar	Measuring connection	Yes
Medium	Potable water	Thermal insulation	Yes

Aquastrom VT with internal thread



Certification DVGW, SVGW, KIWA, VA, WRAS, WaterMark

Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	180	4205704
DN 20	Rp 3/4		4205706

Aquastrom VT with flat sealing external thread



Certification DVGW, SVGW, KIWA, VA, WaterMark

Nominal size	Connection size	Item No.
DN 15	G 3/4	4206704
DN 20	G 1	4206706



Aquastrom VT with press connection



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Certification DVGW, SVGW, KIWA, VA, WRAS

<u>Nominal size</u>	<u>Connection size</u>	<u>Item No.</u>
DN 15	15 mm	4205752
DN 15	18 mm	4205753
DN 20	22 mm	4205754

Aquastrom T plus Thermal circulation valves



Thermal circulation valve with adjustable temperature control range for hydronic balancing in circulation pipes according to DVGW work sheet W551/W553.

Below the set temperature, the valve opens and automatically increases the hot water volume flow. The valve has a fixed residual volume flow, automatically detects thermal disinfection and allows the maximum volume flow to be limited and shut off via an integrated regulating unit with reproducible presetting. The valve is equipped with a drain valve with hose connection and a thermometer. A tem-

perature sensor can be retrofitted.

Valve made of bronze, all parts coming into contact with the medium free from brass. A thermal insulation shell made of expanded polystyrene according to the German Energy Saving Ordinance (EnEV) and building material class B1 according to DIN 4102 is included in the scope of delivery or is available as accessory. The temperature and volume flow settings can be lead sealed to prevent unintentional adjustment.



Control range	40 up to 65 °C	Max. operating pressure	16 bar
Body material	Bronze	Medium	Potable water
Installation location	Return	Operating temperature	up to 90 °C

Aquastrom T plus with internal thread



Shutoff	Yes	Thermal insulation	Yes
Draining	Yes	Certification	DVGW, SVGW, KIWA, WRAS, ACS, VA, WaterMark
Measuring connection	Yes		

Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	180	4205504
DN 20	Rp 3/4		4205506
DN 25	Rp 1		4205508



Aquastrom T plus with flat sealing external thread



Shutoff	Yes	Thermal insulation	Yes
Draining	Yes	Certification	DVGW, SVGW, KIWA, WRAS, ACS, VA
Measuring connection	Yes		

Nominal size	Connection size	Item No.
DN 15	G 3/4	4206504
DN 20	G 1	4206506
DN 25	G 1 1/4	4206508

Aquastrom T plus with press connection



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Shutoff	Yes	Thermal insulation	Yes
Draining	Yes	Certification	SVGW, VA
Measuring connection	Yes		

Nominal size	Connection size	Item No.
DN 15	15 mm	4205552
DN 15	18 mm	4205553
DN 20	22 mm	4205554
DN 25	28 mm	4205555

Aquastrom T plus with internal thread, without accessories



Shutoff	Yes	Thermal insulation	No
Draining	No	Certification	SVGW, ACS, KIWA, VA
Measuring connection	No		

Nominal size	Connection size	Item No.
DN 15	Rp 1/2	4205604
DN 20	Rp 3/4	4205606
DN 25	Rp 1	4205608

Aquastrom T plus with flat sealing external thread, without accessories



Shutoff	Yes	Thermal insulation	No
Draining	No	Certification	SVGW, ACS, KIWA, VA
Measuring connection	No		

Nominal size	Connection size	Item No.
DN 15	G 3/4	4206604
DN 20	G 1	4206606
DN 25	G 1 1/4	4206608

Aquastrom T plus with internal thread, without accessories and without shutoff facility and presetting



Shutoff	No	Thermal insulation	No
Draining	No	Certification	SVGW, ACS, KIWA, VA
Measuring connection	No		

Nominal size	Connection size	Item No.
DN 15	Rp 1/2	4205404
DN 20	Rp 3/4	4205406

Aquastrom K Thermostatic cold water circulation valves



Thermal circulation valve for hydronic balancing in chilled potable water and service water systems.

Above the set temperature, the valve opens and automatically increases the cold water volume flow. The valve construction does not feature a dead zone. The spindle seal is maintenance-free thanks to a double O-ring made of

EPDM.

Valve made of bronze, all parts coming into contact with the medium free from brass. A thermal insulation shell made of expanded polystyrene according to the German Energy Saving Ordinance (EnEV) and building material class B1 according to DIN 4102 is included in the scope of delivery.

Connection size	Rp 1/2	Operating temperature	up to 90 °C
Body material	Bronze	Shutoff	Yes
Installation location	Return	Draining	Yes
Max. operating pressure	16 bar	Measuring connection	Yes
Medium	Potable water	Thermal insulation	Yes



Aquastrom K with internal thread



Nominal size	Control range (°C)	Certification	Item No.
DN 15	6 up to 18	WRAS	4205904
DN 15	12 up to 24		4206304

Aquastrom UP-Therm Flush-mounted circulation valves



Thermal circulation valve for hydronic balancing of the storey distribution in circulation pipes according to DVGW work sheet W551/W553.

Below the operating point temperature, the valve opens and automatically increases the hot water volume flow. The valve has a fixed residual volume flow, automatically detects thermal disinfection and allows the volume flow to be shut off.

The valve construction does not feature

a dead zone. The spindle seal is maintenance-free thanks to a double O-ring made of EPDM.

Valve made of bronze, all parts coming into contact with the medium free from brass. A thermal insulation shell made of expanded polystyrene according to the German Energy Saving Ordinance (EnEV) and building material class B1 according to DIN 4102 is included in the scope of delivery.



Control range	40 up to 70 °C	Operating temperature	up to 90 °C
Body material	Bronze	Shutoff	Yes
Installation location	Return	Draining	Yes
Max. operating pressure	16 bar	Measuring connection	Yes
Medium	Potable water	Thermal insulation	Yes

Aquastrom UP-Therm with internal thread



Nominal size	Connection size	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	57 ± 1	DVGW, SVGW, WRAS	4225004
DN 15	Rp 1/2 x Rp 1/2	63 ± 1	DVGW, SVGW, WRAS	4225504

Aquastrom UP-Therm with external thread



Nominal size	Connection size	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	57 ± 1	DVGW, SVGW, WRAS	4226004
DN 15	Rp 1/2 x Rp 1/2	63 ± 1	DVGW, SVGW, WRAS	4226504

Aquastrom UP-Therm with internal thread and flush-mounted sleeve



Nominal size	Connection size	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	57 ± 1	DVGW, SVGW, WRAS	4225104

Aquastrom UP-Therm with press connection and flush-mounted sleeve



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Nominal size	Ø* (mm)	Operating point* (°C)	Certification	Item No.
DN 15	15	57 ± 1	DVGW, SVGW	4225152

Aquastrom UP-Therm with internal thread and chrome plated handwheel



Nominal size	Connection size	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	57 ± 1	DVGW, SVGW, WRAS	4225204
DN 15	Rp 1/2 x Rp 1/2	63 ± 1	DVGW, SVGW, WRAS	4225704

Aquastrom UP-Therm with internal thread, lockshield configuration



Nominal size	Connection size	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	57 ± 1	DVGW, SVGW, WRAS	4225304
DN 15	Rp 1/2 x Rp 1/2	63 ± 1	DVGW, SVGW, WRAS	4225804

Aquastrom UP-Therm with press connection, lockshield configuration



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Nominal size	Connection size	Ø* (mm)	Operating point* (°C)	Certification	Item No.
DN 15	Rp 1/2 x Rp 1/2	15	57 ± 1	DVGW, SVGW	4225352

Thermal circulation valves Accessories and spare parts

Wire seal kit



Description

10-fold, consisting of seal and sealing wire

Item No.

1089091

Blocking pin with sealing wire



Description

For Hycocon VTZ and Aquastrom T plus

Item No.

1061792 °

Drain valve for hose connection



Description

For Aquastrom VT, T plus, C, F, KFR and M, with G 1/4

For Aquastrom VT, T plus, C, F, KFR and M, with control thermometer 0 °C - 30 °C, with G 1/4

PU

10

Item No.

4205593

25

4205991

Dial thermometer

For installation in the drain valve for hose connection item no. 4205593.



Description

For Aquastrom VT, T plus, C, F, KFR, M and Regucirc B, bimetal, NG 50

Item No.

4205591

Sensor LW TQ Sensor element



Description	Item No.
For remote monitoring for Aquastrom VT, T plus, C, F, KFR and M, PT 1000, G ¼	4205592



Handwheel set for Aquastrom UP-Therm flush-mounted circulation valves without flush-mounted sleeve

Suitable for flush-mounted valves without flush-mounted sleeve and water meter installation sets, consisting of chrome plated operating handle, chrome plated cover rosette, sleeve as well as three coloured marking plates.

Description	Item No.
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-35 mm	4223192
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-135 mm, lockshield configuration	4223193
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-90 mm	4223195
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-40 mm, lockshield configuration	4223196



Handwheel set for Aquastrom UP-Therm flush-mounted circulation valves with flush-mounted sleeve

Suitable for flush-mounted valves with flush-mounted sleeve consisting of top part assembly with clamping unit, rack, chrome plated operating handle, chrome plated cover rosette as well as three coloured marking plates.

Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229001
For Aquastrom UP, DN 15 / DN 20, lockshield configuration	4229010



Extension set for Aquastrom UP-Therm flush-mounted circulation valves with flush-mounted sleeve



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229040

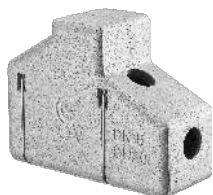
Mounting set for Aquastrom UP-Therm flush-mounted circulation valves with flush-mounted sleeve

For front wall installation.



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229020

Replacement thermal insulation shell



Description	Item No.
For Aquastrom T plus, DN 15 and DN 20	4205581
For Aquastrom T plus, DN 25	4205583
For Aquastrom VT, DN 15 and DN 20	4205781

Replacement flush-mounted valve insert



Description	Item No.
For Aquastrom K, adjustable between 6 °C and 18 °C	4205990
For Aquastrom K, adjustable between 12 °C and 24 °C	4205992
For Aquastrom UP- Therm, DN 15, operating point 57 °C	4225090
For Aquastrom UP- Therm, DN 15, operating point 57 °C	4225590

Replacement handwheel



Description	Item No.
For Aquastrom UP, DN 15 / 20 and Aquastrom UP-MS	4223197

Replacement flush-mounted sleeve



Description	Item No.
With rack and protection cap, DN 15 / DN 20	4229015





4.1 Products for the preservation of potable water hygiene

Aquastrom Static control valves 538

Aquastrom C Static control valves.....	539
Aquastrom C Accessories and spare parts.....	541



Aquastrom C Static control valves



Static circulation valve for hydronic balancing in circulation pipes according to DVGW work sheet W551/W553.

The valve allows the maximum volume flow to be limited and shut off via an integrated regulating unit with reproducible presetting. The valve is equipped with a drain valve with hose connection and a thermometer. A temperature sensor can be retrofitted.

Valve made of bronze, all parts coming into

contact with the medium free from brass. A thermal insulation shell made of expanded polystyrene according to the German Energy Saving Ordinance (EnEV) and building material class B1 according to DIN 4102 is included in the scope of delivery or is available as accessory.

The temperature and volume flow settings can be lead sealed to prevent unintentional adjustment.

Body material	Bronze	Medium	Potable water
Installation location	Return	Operating temperature	up to 90 °C
Max. operating pressure	16 bar	Shutoff	Yes



Aquastrom C with internal thread



Draining	Yes	Certification	DVGW, SVGW, KIWA, ACS, VA, WaterMark
Measuring connection	Yes		
Thermal insulation	Yes		

Nominal size	Connection size	PU	Item No.
DN 20	G 1	160	4207106
DN 15	Rp 1/2		4208104
DN 20	Rp 3/4		4208106
DN 25	Rp 1		4208108
DN 32	Rp 1 1/4		4208110



Aquastrom C with internal thread and water sampling valve



Draining	Yes	Certification	DVGW, SVGW, KIWA, ACS, VA, WaterMark
Measuring connection	Yes		
Thermal insulation	Yes		

Nominal size	Connection size	Item No.
DN 15	Rp 1/2	4208504
DN 20	Rp 3/4	4208506
DN 25	Rp 1	4208508
DN 32	Rp 1 1/4	4208510

Aquastrom C with internal thread, without accessories



Draining	No	Certification	DVGW, SVGW, KIWA, ACS, Water- Mark
Measuring connection	No		
Thermal insulation	No		

Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	4208152
DN 20	Rp 3/4	10	4208154
DN 25	Rp 1	10	4208156
DN 32	Rp 1 1/4	5	4208158

Aquastrom C with external thread



Draining	Yes	Certification	DVGW, SVGW, KIWA, ACS, VA, WaterMark
Measuring connection	Yes		
Thermal insulation	Yes		

Nominal size	Connection size	PU	Item No.
DN 15	G 3/4		4207104
DN 20	G 1	160	4207106
DN 25	G 1 1/4	76	4207108
DN 32	G 1 1/2		4207110

Aquastrom C with external thread and water sampling valve



Draining	Yes	Thermal insulation	Yes
Measuring connection	Yes		

Nominal size	Connection size	Item No.
DN 15	G 3/4	4207504
DN 20	G 1	4207506
DN 25	G 1 1/4	4207508
DN 32	G 1 1/2	4207510

Aquastrom C Accessories and spare parts



Aquastrom P Water sampling valve

Description	Certification	PU	Item No.
DN 8, PN 10, flame resistant, bronze/stainless steel, G 1/4	DVGW, SVGW	10	4209102
DN 10, PN 10, flame resistant, bronze/stainless steel, G 3/8	DVGW, SVGW	10	4209103
DN 10, PN 10, flame resistant, dezincification resistant brass/stainless steel, chrome plated, for mounting on angle valves, inlet: pipe 10 x 1.25, outlet: G 3/8 external thread conical compression fitting	DVGW, SVGW		4209202

Aquastrom M Measuring and draining device with flat sealing external thread

With outlet nipples G 1/4 internal thread and G 3/8 internal thread.



Description	Item No.
DN 15, G 3/4 external thread, PN 10	4209204
DN 20, G 1 external thread, PN 10	4209206
DN 25, G 1 1/4 external thread, PN 10	4209208
DN 32, G 1 1/2 external thread, PN 10	4209210

Measuring valve



Description	Item No.
Classic measuring technique, bronze, red/blue, set = 2 pieces	4209090

Drain valve for hose connection



Description	PU	Item No.
For Aquastrom VT, T plus, C, F, KFR and M, with G 1/4	10	4205593
For Aquastrom VT, T plus, C, F, KFR and M, with control thermometer 0 °C - 30 °C, with G 1/4	25	4205991



Dial thermometer

For installation in the drain valve for hose connection item no. 4205593.

Description	Item No.
For Aquastrom VT, T plus, C, F, KFR, M and Regucirc B, bimetal, NG 50	4205591



Sensor LW TQ Sensor element

Description	Item No.
For remote monitoring for Aquastrom VT, T plus, C, F, KFR and M, PT 1000, G ¼	4205592



Blocking set

Description	Item No.
1-fold, consisting of blocking cap, seal and sealing wire	1060180 °



Wire seal kit

Description	Item No.
10-fold, consisting of seal and sealing wire	1089091



Identification ring

Can be clipped onto the handwheel for riser identification.

Description	Item No.
10-fold, blue	1069650 °
10-fold, red	1069651 °
10-fold, violet	1069652 °
10-fold, green	1069653 °

Replacement thermal insulation shell



Description	Item No.
For Aquastrom C DN 15 and DN 20, with recess for Aquastrom P	4208181
for Aquastrom C DN 25, with recess for Aquastrom P	4208182
for Aquastrom C DN 32, with recess for Aquastrom P	4208183

Replacement insert



Description	Item No.
For Aquastrom C, DN 15	4208192
For Aquastrom C, DN 20	4208193
For Aquastrom C, DN 25	4208194
For Aquastrom C, DN 32	4208195



4.1 Products for the preservation of potable water hygiene

Circulation and flushing stations	544
Regudrain Flushing stations.....	545
Regudrain Accessories and spare parts.....	546
Regucirc Circulation station.....	549
Regucirc Accessories and spare parts.....	550



Regudrain Flushing stations



Hygiene flushing station for protecting cold and hot water risers and for maintaining the intended operation in potable water installations, e.g. in the event of interruptions in use. For installation at the end of the riser or in ring installations.

unit. Flushing riser with solenoid valve and volume flow sensor, with shutoff facility. Regtronic HS electronic control for controlling the valves, individually programmable, with web access via LAN or WLAN and log function.

Completely pre-assembled and leak tested

Free outlet type AB according to EN 1717 for connection to the sewage network.

Thermal insulation	Yes	Installation	Wall
Material thermal insulation	Expanded polypropylene (EPP)	Volume flow sensor	Yes
Max. operating pressure	10 bar	Additional controller functions	Yes
Max. operating temperature	90 °C	Certification	DVGW, SVGW



2018



2019



2018

Regudrain with Regtronic HS controller, individually programmable, with web access, with log function

Connections:
Potable water circuit: flat sealing G 3/4 external thread
Sewage network: DN 40

Certification DVGW, SVGW



System*	Nominal size	Height (mm)	Length (mm)	Width (mm)	Item No.
One pipe	DN 15	100	500	300	4207004
Two pipe	DN 15	100	520	300	4207005

Regudrain Accessories and spare parts

Extension set Duo

For extending the one pipe version by a second flushing riser.



Description

With fixing material

Item No.

4207094

H-piece with union nut (flat sealing)

For extension when installed in ring circuit installations, 2 sets are required for the two pipe version.



Description

G 3/4 union nut x G 3/4 external thread x G 3/4 external thread

Item No.

4207095

Sensor LW TQ

Description

For remote monitoring of the riser temperature and for integration into a building management system (BMS), sensor element PT 1000, G 1/4

Item No.

1150090



Humidity sensor

To indicate leaks or blocked drains.

Description

2 m

Item No.

4207099



Temperature sensor



Description

For temperature measurement and detection at the pipework, with fastening clip \varnothing 25 - 40 mm and heat conducting paste, sensor element PT 1000, continuous temperature range up to 180 °C, length 1.5 m

Item No.

1369095

Sensor cable

For connecting the sensors item no. 1150090, 1369095 and 4207099 to the Regudrain flushing stations.



Description

For Regudrain, 1.5 m

Item No.

4207098

Tiling-ready frame, made of aluminium, infinitely adjustable



Description

For Regudrain, from 200 mm x 350 mm to 520 mm x 620 mm, with fixing material

Item No.

4207090

Surface-mounted bonnet, white, made of galvanised steel



Description

For Regudrain, 315 mm x 472 mm x 108 mm

Item No.

4207091



Replacement flush valve



Description

With volume flow sensor, flow controller and jet regulator, 24 V DC

Item No.

4207092



Replacement siphon

Description

For Regudrain

Item No.

4207093



Replacement jet regulator

Description

For Regudrain flush valve

Item No.

4207097



Replacement flow controller

Description

For Regudrain flush valve, set with versions 5 l/min, 7 l/min and 11 l/min

Item No.

4207096

Regucirc Circulation station



Circulation pump assembly for potable water circulation systems with storage cylinder in detached and semi-detached houses.

With energy-saving high-efficiency pump,

backflow preventer and Aquastrom VT thermal circulation valve as well as control thermometer for direct connection to the return pipe of a circulation pipe according to DVGW work sheet W551/W553.

Regucirc B with pump and integrated thermal circulation valve

Pre-installed pump: Biral AX20-4 120BLUE



Nominal size	System*	Height (mm)	Length (mm)	Width (mm)	Item No.
DN 20	One pipe	210	420	200	4206776

Regucirc B with pump, integrated service water mixing valve and thermometer ball valves

Pre-installed pump: Biral AX20-4 120BLUE



Nominal size	System*	Height (mm)	Length (mm)	Width (mm)	Item No.
DN 20	Two pipe	185	425	350	4206780



Regucirc Accessories and spare parts

Dial thermometer



Description

For Aquastrom VT, T plus, C, F, KFR, M and Regucirc B, bimetal, NG 50

Item No.

4205591

Sensor LW TH



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

Strainer



kvs

7.80

Certification

WRAS

Item No.

1120006

Replacement thermal insulation



Description

For Regucirc B

For Regucirc M

Item No.

4206795

4206797

Replacement high-efficiency pump

Biral AX20-4 120BLUE



Nominal size	Item No.
DN 20	4206790



4.2 Shutoff valves and other products for potable water

Aquastrom Free-flow and KFR valves 553

Aquastrom F Free-flow valves.....	554
Aquastrom KFR Combined free-flow valves with backflow preventer.....	558
Aquastrom FR Free-flow valves with backflow preventer.....	561
Aquastrom UP Flush-mounted free-flow valves.....	562
Free-flow and KFR valves Accessories and spare parts.....	564
Flush-mounted free-flow valves Accessories and spare parts.....	566

Optibal Ball valves for potable water 568

Optibal TW Ball valves for potable water.....	569
Optibal TW Accessories and spare parts.....	571

System components for the potable water installation 572

Brawa Mix Thermostatic service water mixing valves.....	573
Brawa-Mix Accessories and spare parts.....	574
Domestic water stations and heating system filling stations.....	575
Domestic water stations and heating system filling stations Spare parts.....	576
Aquastrom UP-MS Water meter installation sets.....	577
Aquastrom G Frost-proof outdoor tap.....	578
Ofix Connection fittings.....	580

Potable water distribution 581

Aquamodul Distributor system for potable water.....	582
Aquamodul Accessories and spare parts.....	584
Multidis R Sanitary distributors.....	586
Multidis R Accessories and spare parts.....	587

Products for potable water treatment 588

Aquanova Water filters.....	589
Aquanova Water filters Accessories and spare parts.....	591
Bypass mixing valves and bypass valves.....	593
Bypass mixing valves and bypass valves Accessories and spare parts.....	595



4.2 Shutoff valves and other products for potable water

Aquastrom Free-flow and KFR valves **553**

Aquastrom F Free-flow valves.....	554
Aquastrom KFR Combined free-flow valves with backflow preventer.....	558
Aquastrom FR Free-flow valves with backflow preventer.....	561
Aquastrom UP Flush-mounted free-flow valves.....	562
Free-flow and KFR valves Accessories and spare parts.....	564
Flush-mounted free-flow valves Accessories and spare parts.....	566



Aquastrom F Free-flow valves



Extremely low-noise free-flow valve for potable water installations.

Y-pattern valve made of bronze, all parts coming into contact with the medium free from brass, with plastic handwheel, design according to DIN 3502. All functions accessible from the top. Maintenance-free spindle sealing by double O-ring.

Can be converted to a KFR valve by changing the insert. Draining facility within same plane as handwheel, therefore allowing pipes to be at close centres. The valves with drain bores can be retrofitted with a drain ball valve which is available as accessory.

Sound insulation according to DIN EN ISO 3822: Product group I

Body material	Bronze	Medium	Potable water
Installation location	Supply or return	Operating temperature	up to 120 °C
Max. operating pressure	16 bar	Shutoff	Yes



kiwa

Aquastrom F with internal thread and drain ball valve G ¼



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp ½	DVGW, SVGW, KIWA	10	4201204
DN 20	Rp ¾	DVGW, SVGW, KIWA	10	4201206
DN 25	Rp 1	DVGW, SVGW, KIWA	10	4201208
DN 32	Rp 1 ¼	DVGW, SVGW, KIWA	5	4201210
DN 40	Rp 1 ½	DVGW, SVGW, KIWA	5	4201212
DN 50	Rp 2	DVGW, SVGW, KIWA	5	4201216

Aquastrom F with internal thread and drain bores G ¼ closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp ½	DVGW, KIWA	10	4201004
DN 20	Rp ¾	DVGW, KIWA	10	4201006
DN 25	Rp 1	DVGW, KIWA	10	4201008
DN 32	Rp 1 ¼	DVGW, KIWA	5	4201010
DN 40	Rp 1 ½	DVGW, KIWA	5	4201012
DN 50	Rp 2	DVGW, KIWA	5	4201016

Aquastrom F with internal thread, without drain bores



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp 1/2	DVGW, SVGW, KIWA	10	4200804
DN 20	Rp 3/4	DVGW, SVGW, KIWA	10	4200806
DN 25	Rp 1	DVGW, SVGW, KIWA	10	4200808
DN 32	Rp 1 1/4	DVGW, SVGW, KIWA	5	4200810
DN 40	Rp 1 1/2	DVGW, SVGW, KIWA	5	4200812
DN 50	Rp 2	DVGW, SVGW, KIWA	5	4200816

Aquastrom F with press connection and drain ball valve G 1/4



For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Nominal size	Connection size	Certification	PU	Item No.
DN 15	15 mm	SVGW	10	4201252
DN 15	18 mm	SVGW	10	4201253
DN 20	22 mm	SVGW	10	4201254
DN 25	28 mm	SVGW	10	4201255
DN 32	35 mm	SVGW	5	4201256
DN 40	42 mm	SVGW	5	4201257
DN 50	54 mm	SVGW	5	4201258

Aquastrom F with flat sealing external thread and drain ball valve G 1/4



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 3/4	DVGW, SVGW, KIWA	10	4202204
DN 20	G 1	DVGW, SVGW, KIWA	10	4202206
DN 25	G 1 1/4	DVGW, SVGW, KIWA	10	4202208
DN 32	G 1 1/2	DVGW, SVGW, KIWA	5	4202210
DN 40	G 1 3/4	DVGW, SVGW, KIWA	5	4202212
DN 50	G 2 3/8	DVGW, SVGW, KIWA	5	4202216

Aquastrom F with flat sealing external thread and drain bores G 1/4 closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 3/4	DVGW, SVGW, KIWA	10	4201804
DN 20	G 1	DVGW, SVGW, KIWA	10	4201806
DN 25	G 1 1/4	DVGW, SVGW, KIWA	10	4201808
DN 32	G 1 1/2	DVGW, SVGW, KIWA	5	4201810
DN 40	G 1 3/8	DVGW, SVGW, KIWA	5	4201812
DN 50	G 2 3/8	DVGW, SVGW, KIWA	5	4201816

Aquastrom F with flat sealing external thread and drain bores G 3/8 closed with plugs



Nominal size	Connection size	Certification	Item No.
DN 65	G 3	DVGW	4202220
DN 80	G 3 1/2	DVGW	4202224

Aquastrom F with flat sealing external thread, without drain bores



Nominal size	Connection size	Certification	Item No.
DN 65	G 3	DVGW	4201820 °
DN 80	G 3 1/2	DVGW	4201824 °

Aquastrom F with flanges and drain bores G 3/8 closed with plugs



Nominal size	Certification	Item No.
DN 65 - 2 1/2	DVGW, SVGW	4204451
DN 80 - 3	DVGW, SVGW	4204452

Aquastrom F valve with flanges, without drain bores



Nominal size	Certification	Item No.
DN 65 - 2 1/2	DVGW, SVGW	4204351 °
DN 80 - 3	DVGW, SVGW	4204352 °

Aquastrom F with flat sealing external thread and drain bores G 1/4 closed with plugs

With enlarged sealing surfaces for thick-walled plastic pipes.



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 1	DVGW, SVGW, KIWA	10	4202463 °
DN 20	G 1 1/4	DVGW, SVGW, KIWA	10	4202464 °
DN 25	G 1 1/2	DVGW, SVGW, KIWA	10	4202465 °
DN 32	G 2	DVGW, SVGW, KIWA	5	4202466 °
DN 40	G 2 1/4	DVGW, SVGW, KIWA	5	4202467 °
DN 50	G 2 3/4	DVGW, SVGW, KIWA	5	4202468 °

Aquastrom F with internal thread / flat sealing external thread and drain bores G ¼ closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp ½ x G ¾	DVGW, SVGW	10	4202804 °
DN 20	Rp ¾ x G 1	DVGW, SVGW	10	4202806 °
DN 15	Rp 1 x G 1 ½	DVGW, SVGW	10	4202808 °
DN 15	Rp 1 ¼ x G 1 ½	DVGW, SVGW	5	4202810 °
DN 15	Rp 1 ½ x G 1 ¾	DVGW, SVGW	5	4202812 °
DN 15	Rp 2 x G 2 ⅜	DVGW, SVGW	5	4202816 °

Aquastrom F with solder connection / union nut and drain bores G ¼ closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	15 mm	DVGW	10	4203852 °
DN 15	18 mm	DVGW	10	4203853 °
DN 20	22 mm	DVGW	10	4203854 °
DN 25	28 mm	DVGW	10	4203855 °
DN 32	35 mm	DVGW	5	4203856 °
DN 40	42 mm	DVGW	5	4203857 °
DN 50	54 mm	DVGW	5	4203858 °

Aquastrom KFR Combined free-flow valves with backflow preventer



Extremely low-noise free-flow valve with integrated backflow preventer for potable water installations.

Y-pattern valve made of bronze, all parts coming into contact with the medium free from brass, with plastic handwheel, design according to DIN 3502. All functions accessible from the top. Maintenance-free spindle sealing by double O-ring.

Can be converted to a KFR valve by changing the insert. Draining facility within same plane as handwheel, therefore allowing pipes to be at close centres. The valves with drain bores can be retrofitted with a drain ball valve which is available as accessory.

Sound insulation according to DIN EN ISO 3822: Product group I

Body material	Bronze	Medium	Potable water
Installation location	Supply or return	Operating temperature	up to 120 °C
Max. operating pressure	16 bar	Shutoff	Yes

Aquastrom KFR with internal thread and drain ball valve G ¼



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp ½	DVGW, SVGW	10	4206204
DN 20	Rp ¾	DVGW, SVGW	10	4206206
DN 32	Rp 1	DVGW, SVGW	10	4206208
DN 40	Rp 1 ¼	DVGW, SVGW	5	4206210
DN 40	Rp 1 ½	DVGW, SVGW	5	4206212
DN 50	Rp 2	DVGW, SVGW	5	4206216

Aquastrom KFR with internal thread and drain bores G ¼ closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp ½	DVGW, SVGW	10	4205804
DN 20	Rp ¾	DVGW, SVGW	10	4205806
DN 25	Rp 1	DVGW, SVGW	10	4205808
DN 32	Rp 1 ¼	DVGW, SVGW	5	4205810
DN 40	Rp 1 ½	DVGW, SVGW	5	4205812
DN 50	Rp 2	DVGW, SVGW	5	4205816

Aquastrom KFR with flat sealing external thread and drain ball valve G 1/4



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 3/4	DVGW, SVGW	10	4208204
DN 20	G 1	DVGW, SVGW	10	4208206
DN 25	G 1 1/4	DVGW, SVGW	10	4208208
DN 32	G 1 1/2	DVGW, SVGW	5	4208210
DN 40	G 1 3/4	DVGW, SVGW	5	4208212
DN 50	G 2 3/8	DVGW, SVGW	5	4208216

Aquastrom KFR with flat sealing external thread and drain bores G 1/4 closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 3/4	DVGW, SVGW	10	4207804
DN 20	G 1	DVGW, SVGW	10	4207806
DN 25	G 1 1/4	DVGW, SVGW	10	4207808
DN 32	G 1 1/2	DVGW, SVGW	5	4207810
DN 40	G 1 3/4	DVGW, SVGW	5	4207812
DN 50	G 2 3/8	DVGW, SVGW	5	4207816

Aquastrom KFR with flat sealing external thread and drain bores G 3/8 closed with plugs



Nominal size	Connection size	Certification	Item No.
DN 65	G 3	DVGW, SVGW	4208220
DN 80	G 3 1/2	DVGW, SVGW	4208224

Aquastrom KFR with flat sealing external thread, without drain bores



Nominal size	Connection size	Certification	Item No.
DN 65	G 3	DVGW, SVGW	4207820 °
DN 80	G 3 1/2	DVGW, SVGW	4207824 °

Aquastrom KFR with flanges and drain bores G 3/8 closed with plugs



Nominal size	Connection size	Certification	Item No.
DN 65 - 2 1/2	Rp 1/2	DVGW	4209451
DN 80 - 3	-	DVGW	4209452



Aquastrom KFR with flanges, without drain bores



Nominal size	Certification	Item No.
DN 65 - 2 1/2	DVGW	4209351 °
DN 80 - 3	DVGW	4209352 °

Aquastrom KFR with internal thread / flat sealing external thread and drain bores G 1/4 closed with plugs



Nominal size	Connection size	Certification	PU	Item No.
DN 15	Rp 1/2 x G 3/4	DVGW, SVGW	10	4206804 °
DN 20	Rp 3/4 x G 1	DVGW, SVGW	10	4206806 °
DN 25	Rp 1 x G 1 1/2	DVGW, SVGW	10	4206808 °
DN 32	Rp 1 1/4 x G 1 1/2	DVGW, SVGW	5	4206810 °
DN 40	Rp 1 1/2 x G 1 3/4	DVGW, SVGW	5	4206812 °
DN 15	Rp 2 x G 2 3/8	DVGW, SVGW	5	4206816 °

Aquastrom KFR with flat sealing external thread and drain bores G 1/4 closed with plugs

With enlarged sealing surfaces for thick-walled plastic pipes.



Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 1	DVGW, SVGW	10	4208363 °
DN 20	G 1 1/4	DVGW, SVGW	10	4208364 °
DN 25	G 1 1/2	DVGW, SVGW	10	4208365 °
DN 32	G 2	DVGW, SVGW	5	4208366 °
DN 32	G 2 1/4	DVGW, SVGW	5	4208367 °
DN 50	G 2 3/4	DVGW, SVGW	5	4208368 °

Aquastrom FR Free-flow valves with backflow preventer



Extremely low-noise free-flow valve with integrated backflow preventer for potable water installations.

Y-pattern valve made of bronze, all parts coming into contact with the medium free from brass, with plastic handwheel, design according to DIN 3502. All functions accessible from the top. Maintenance-free spindle sealing by

double O-ring. Draining facility within same plane as handwheel, therefore allowing pipes to be at close centres. The valves with drain bores can be retrofitted with a drain ball valve (accessory).

Sound insulation according to DIN EN ISO 3822: Product group I

Certification DVGW, SVGW



Aquastrom FR with flat sealing external thread, backflow preventer and drain bores G ¼ closed with plugs



Nominal size	Connection size	PU	Item No.
DN 15	G ¾	10	4202704 °
DN 20	G 1	10	4202706 °
DN 25	G 1 ¼	10	4202708 °
DN 32	G 1 ½	5	4202710 °

Aquastrom UP Flush-mounted free-flow valves

Aquastrom UP-F with internal thread



Nominal size	Connection size	Certification	Item No.
DN 15	Rp 1/2	DVGW, SVGW	4220004
DN 20	Rp 3/4	DVGW, SVGW	4220006

Aquastrom UP-F with internal thread and flush-mounted sleeve



Nominal size	Connection size	Certification	Item No.
DN 15	Rp 1/2	DVGW, SVGW	4220104
DN 20	Rp 3/4	DVGW, SVGW	4220106
DN 25	Rp 1		4220108
DN 32	Rp 1 1/4		4220110

Aquastrom UP-F with press connection

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.



Nominal size	Ø* (mm)	Certification	Item No.
DN 15	15	DVGW, SVGW	4220052
DN 15	18	DVGW, SVGW	4220053
DN 20	22	DVGW, SVGW	4220054

Aquastrom UP-F with press connection and flush-mounted sleeve

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.



Nominal size	Ø* (mm)	Certification	Item No.
DN 15	15	DVGW, SVGW	4220152
DN 15	18	DVGW, SVGW	4220153
DN 20	22	DVGW, SVGW	4220154
DN 25	28		4220155



Aquastrom UP-F with internal thread and chrome plated handwheel

Nominal size	Connection size	Certification	Item No.
DN 15	Rp 1/2	DVGW, SVGW	4220204
DN 20	Rp 3/4	DVGW, SVGW	4220206
DN 25	Rp 1		4220208
DN 32	Rp 1 1/4		4220210



Aquastrom UP-F with press connection and chrome plated handwheel

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Nominal size	Ø* (mm)	Certification	Item No.
DN 15	15	DVGW, SVGW	4220252
DN 15	18	DVGW, SVGW	4220253
DN 20	22	DVGW, SVGW	4220254



Aquastrom UP-F with internal thread, lockshield configuration, chrome plated

Nominal size	Connection size	Certification	Item No.
DN 15	Rp 1/2	DVGW, SVGW	4220304
DN 20	Rp 3/4	DVGW, SVGW	4220306
DN 25	Rp 1		4220308
DN 32	Rp 1 1/4		4220310



Aquastrom UP-F with press connection, lockshield configuration, chrome plated

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Nominal size	Ø* (mm)	Certification	Item No.
DN 15	15	DVGW, SVGW	4220352
DN 15	18	DVGW, SVGW	4220353
DN 20	22	DVGW, SVGW	4220354



Free-flow and KFR valves Accessories and spare parts

Thermal insulation shell made polyurethane rigid foam

Only for heating systems. Operating temperature: 130 °C. Complies with the German Energy Saving Ordinance (EnEV) according to appendix 5, table 1, line 5. Building material class B1 according to DIN 4102.



Description	PU	Item No.
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 15	350	1060081
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 20	260	1060082
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 25		1060083
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 32	130	1060084
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 40		1060085
For Hydrocontrol VTR, ATR, Hydromat DTR and Aquastrom F/KFR, DN 60	80	1060086

Aquastrom R Backflow preventers



Description	Certification	Item No.
DN 15, 3/4 union nut x G 3/4 external thread, straight, bronze	DVGW, SVGW	4208604
DN 20, 1 union nut x G 1 external thread, straight, bronze	DVGW, SVGW	4208606
DN 25, 1 1/4 union nut x G 1 1/4 external thread, straight, bronze	DVGW, SVGW	4208608
DN 32, 1 1/2 union nut x G 1 1/2 external thread, straight, bronze	DVGW, SVGW	4208610
DN 40, 1 3/4 union nut x G 1 3/4 external thread, straight, bronze	DVGW, SVGW	4208612
DN 50, 2 3/8 union nut x G 2 3/8 external thread, straight, bronze	DVGW, SVGW	4208616
DN 15, G 3/4 external thread x G 3/4 external thread, straight, bronze	DVGW, SVGW	4208704
DN 20, G 1 external thread x G 1 external thread, straight, bronze	DVGW, SVGW	4208706
DN 25, G 1 1/4 external thread x G 1 1/4 external thread, straight, bronze	DVGW, SVGW	4208708
DN 32, G 1 1/2 external thread x G 1 1/2 external thread, straight, bronze	DVGW, SVGW	4208710
DN 40, G 1 3/4 external thread x G 1 3/4 external thread, straight, bronze	DVGW, SVGW	4208712
DN 50, G 2 3/8 external thread x G 2 3/8 external thread, straight, bronze	DVGW, SVGW	4208716

Drain valve for hose connection



Description	PU	Item No.
For Aquastrom VT, T plus, C, F, KFR and M, with G 1/4	10	4205593
For Aquastrom VT, T plus, C, F, KFR and M, with control thermometer 0 °C - 30 °C, with G 1/4	25	4205991

Dial thermometer

For installation in the drain valve for hose connection item no. 4205593.



Description	Item No.
For Aquastrom VT, T plus, C, F, KFR, M and Regucirc B, bimetal, NG 50	4205591

Sensor LW TQ Sensor element



Description	Item No.
For remote monitoring for Aquastrom VT, T plus, C, F, KFR and M, PT 1000, G ¼	4205592

Replacement insert



Description	Item No.
For Aquastrom F, DN 15, bronze	4209004
For Aquastrom F, DN 20, bronze	4209006
For Aquastrom F, DN 25, bronze	4209008
For Aquastrom F, DN 32, bronze	4209010
For Aquastrom F, DN 40, bronze	4209012
For Aquastrom F, DN 50, bronze	4209016
For Aquastrom F, DN 65, bronze	4209020
For Aquastrom F, DN 80, bronze	4209024
For Aquastrom KFR, DN 15, bronze	4209504
For Aquastrom KFR, DN 20, bronze	4209506
For Aquastrom KFR, DN 25, bronze	4209508
For Aquastrom KFR, DN 32, bronze	4209510
For Aquastrom KFR, DN 40, bronze	4209512
For Aquastrom KFR, DN 50, bronze	4209516
For Aquastrom KFR, DN 65, bronze	4209520
For Aquastrom KFR, DN 80, bronze	4209524

Flush-mounted free-flow valves Accessories and spare parts



Handwheel set for Aquastrom UP flush-mounted free-flow valves without flush-mounted sleeve

Suitable for flush-mounted valves without flush-mounted sleeve and water meter installation sets, consisting of chrome plated operating handle, chrome plated cover rosette and sleeve as well as three coloured marking plates.

Description	Item No.
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-35 mm	4223192
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-135 mm, lockshield configuration	4223193
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-90 mm	4223195
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-40 mm, lockshield configuration	4223196



Handwheel set for Aquastrom UP flush-mounted free-flow valves with flush-mounted sleeve

Suitable for flush-mounted valves with flush-mounted sleeve consisting of top part assembly with clamping unit, rack, chrome plated operating handle, chrome plated cover rosette as well as three coloured marking plates.

Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229001
For Aquastrom UP, DN 25 / DN 32	4229002
For Aquastrom UP, DN 15 / DN 20, lockshield configuration	4229010
For Aquastrom UP, DN 25 / DN 32, lockshield configuration	4229011



Extension set for Aquastrom UP flush-mounted free-flow valves with flush-mounted sleeve

Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229040
For Aquastrom UP, DN 25 / DN 32	4229041



4.2

Mounting set for front wall installation



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229020
For Aquastrom UP, DN 25 / DN 32	4229021

Pipe socket wrench



Description	Item No.
For Aquastrom UP, DN 15 - DN 32	4229035 °

Replacement valve insert



Description	Item No.
For Aquastrom UP-F, DN 15 / DN 20 (manufactured until 2016)	4220190
For Aquastrom UP-F, UP-MS, DN 25 / DN 32	4220191
For Aquastrom UP-KFR, DN 15 / DN 20	4221090
For Aquastrom UP-F and UP-MS, DN 15	4223191

Replacement handwheel



Description	Item No.
For Aquastrom UP, DN 15 / 20 and Aquastrom UP-MS	4223197

Replacement flush-mounted sleeve



Description	Item No.
With rack and protection cap, DN 15 / DN 20	4229015
With rack and protection cap, DN 25 / DN 32	4229016



4.2 Shutoff valves and other products for potable water

Optibal Ball valves for potable water **568**

Optibal TW Ball valves for potable water.....	569
Optibal TW Accessories and spare parts.....	571



Optibal TW Ball valves for potable water



Ball valve for potable water without dead zone and with full flow according to DIN EN 13828. The ball is always surrounded by water.

Body made of bronze, ball chrome plated, maintenance-free spindle sealing by double O-

ring made of EPDM, all parts coming into contact with the medium are free from brass. Up to size DN 50 with extended plastic handle, from size DN 65 with lever made of galvanised steel.

Body material	Bronze	Pressure rating	PN 10
Installation location	Supply or return	Surface	Untreated
Medium	Potable water	Main function	Ball valve
Operating temperature	up to 90 °C		



Optibal TW with internal thread and drain bore G ¼ closed with a plug

Certification DVGW, ACS, GDV, VA



Nominal size	Connection size	PU	Item No.
DN 15	Rp ½	10	4208804
DN 20	Rp ¾	10	4208806
DN 25	Rp 1	10	4208808
DN 32	Rp 1 ¼	10	4208810
DN 40	Rp 1 ½	5	4208812
DN 50	Rp 2	5	4208816

Optibal TW with internal thread, without drain bore

Certification DVGW, GDV, VA



Nominal size	Connection size	Item No.
DN 65	Rp 2 ½	4208820
DN 80	Rp 3	4208824



Optibal TW with press connection and drain bore G 1/4 closed with a plug

For direct connection of copper pipe according to DIN EN 1057 / DVGW GW 392 and stainless steel pipe according to DIN EN 10088 / DVGW GW 451.

Pressing must be carried out to tighten the connection. Only use press jaws with original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in the appropriate size for pressing.

Certification DVGW, ACS

Nominal size	Connection size	PU	Item No.
DN 15	15 mm	10	4208852
DN 15	18 mm	10	4208853
DN 20	22 mm	10	4208854
DN 25	28 mm	10	4208855
DN 32	35 mm	10	4208856
DN 40	42 mm	5	4208857
DN 50	54 mm	5	4208858



Optibal TW with external thread and drain bore G 1/4 closed with a plug

Nominal size	Connection size	Certification	PU	Item No.
DN 15	G 3/4	DVGW, ACS, GDV, VA	10	4208904
DN 20	G 1	DVGW, ACS, GDV, VA	10	4208906
DN 25	G 1 1/4	DVGW, ACS, GDV, VA	10	4208908
DN 32	G 1 1/2	DVGW, ACS, GDV, VA	10	4208910
DN 40	G 1 3/4	DVGW, ACS, GDV, VA	5	4208912
DN 50	G 2 3/8	DVGW, GDV, VA, ACS	5	4208916

Optibal TW Accessories and spare parts

Thermal insulation shell



The thermal insulation shell complies with the German Energy Saving Ordinance (EnEV) and fire protection requirements of building material class B1 according to DIN 4102.

Description	PU	Item No.
For Optibal TW DN 15	50	4208881
For Optibal TW DN 20	25	4208882
For Optibal TW DN 25	25	4208883
For Optibal TW DN 32	25	4208884
For Optibal TW DN 40	10	4208885
For Optibal TW DN 50	10	4208886

Thermometer conversion set



Description	Item No.
For Optibal P, DN 25 and DN 32 and Optibal TW, DN 20 and DN 25	1078382
For Optibal TW DN 32 to DN 50	4208893

Electromotive actuator



Description	Item No.
For Optibal TW DN 15 to DN 25, 24 V AC/DC, with spring return	4208890



4.2 Shutoff valves and other products for potable water

System components for the potable water installation 572

Brawa Mix Thermostatic service water mixing valves.....	573
Brawa-Mix Accessories and spare parts.....	574
Domestic water stations and heating system filling stations.....	575
Domestic water stations and heating system filling stations Spare parts.....	576
Aquastrom UP-MS Water meter installation sets.....	577
Aquastrom G Frost-proof outdoor tap.....	578
Ofix Connection fittings.....	580



Brawa Mix Thermostatic service water mixing valves



Service water mixing valve made of bronze for installation in potable water or heating systems.

Without dead zone, mixing temperature infinitely adjustable by turning the handwheel, temperature setting can be blocked and lead sealed, high-quality control piston insensitive

to calcification and corrosion. Installation in potable water systems directly in the hot water outlet of water heaters. In heating systems, the service water mixing valve can be used as temperature limiter for surface heating systems or as return temperature limiter.

Body material	Bronze	Medium	Potable water
Installation location	Supply pipe	Operating temperature	up to 90 °C
Max. operating pressure	10 bar	Measuring connection	Extendable



Brawa-Mix with flat sealing external thread, with scald protection

Nominal size	Connection size	Control range (°C)	Item No.
DN 20	G 1	35 up to 65	1300306
DN 25	G 1 ¼	35 up to 65	1300308
DN 32	G 1 ½	35 up to 65	1300310



Brawa-Mix with external thread, without scald protection

Nominal size	Connection size	Control range (°C)	PU	Item No.
DN 20	G 1	30 up to 70	25	1300200
DN 20	G 1	30 up to 70	20	1300251



Brawa-Mix with external thread

Nominal size	Connection size	Control range (°C)	Item No.
DN 20	G 1	35 up to 50	1300351
DN 20	G 1	35 up to 50	1300352

Brawa-Mix Accessories and spare parts



Thermal insulation shell made of expanded polypropylene

The thermal insulation shell complies with the German Energy Saving Ordinance (EnEV) and fire protection requirements of building material class B2 according to DIN 4102.

Description

For Brawa-Mix DN 20
For Brawa-Mix DN 25 and DN 32

Item No.

1300385
1300386



Inline thermometer

Description

For Brawa-Mix DN 20, G 1 union nut x G 1 external thread, bronze, length 74 mm
For Brawa-Mix DN 25, G 1¼ union nut x G 1¼ external thread, bronze, length 70 mm
For Brawa-Mix DN 32, G 1½ union nut x G 1½ external thread, bronze, length 81 mm

Item No.

1300952
1300953
1300954



Non-return valve for cold water

Description

For Brawa-Mix DN 20, Rp ¾ x Rp ¾, bronze, length 61 mm
For Brawa-Mix DN 25, Rp 1 x Rp 1, bronze, length 81 mm
For Brawa-Mix DN 32, Rp 1¼ x Rp 1¼, bronze, length 91 mm

Item No.

1302006
1302008
1302010



Strainer

Certification

WRAS
WRAS
WRAS

PU

10
10
5

Item No.

1120006
1120008
1120010

Domestic water stations and heating system filling stations



Domestic water station

Consisting of backflush filter, pressure reducer and pressure gauge.
Suitable for horizontal and vertical installation.
Body and transparent cup made of plastic.

Mesh size: 95-110 µm
Medium temperature (continuous operation): up to 30 °C
Inlet pressure: min. 1.5 bar, max. 16 bar
Outlet pressure: 1.5 - 6 bar, adjustable

Description	Certification	PU	Item No.
DN 20 with couplings R ¾ external thread, PN 16	DVGW		4204506
DN 20 with couplings R 1 external thread, PN 16	DVGW	72	4204508
DN 32 with couplings R 1 ¼ external thread, PN 16	DVGW		4204510



Heating system filling station

Consisting of strainer, pressure reducer, system separator type BA and sewage connection.
Can be completely shut off for maintenance purposes.
Brass body, system separator and pressure reducer cartridge made of plastic.

Medium temperature (continuous operation) up to 30 °C on the inlet side, up to 65 °C on the outlet side.
Outlet pressure 1-5 bar adjustable.

According to DIN EN 1717, all installations must be intrinsically safe and designed as permanent connections.
This means that the heating system must be filled via a system separator type BA or BC!

Description	Certification	Item No.
DN 15, with couplings G ¾ external thread, PN 10	DVGW	1055004

Domestic water stations and heating system filling stations Spare parts



Spare parts for domestic water station

Description	Item No.
Replacement pressure reducer insert	4204590
Replacement filter insert 100 µm	4204591
Replacement filter cup, complete	4204592
Replacement pressure gauge	4204593



Spare parts for heating system filling station

Description	Item No.
Replacement cartridge for system separator	1055095
Replacement cartridge for pressure reducer	1055096

Aquastrom UP-MS Water meter installation sets

Aquastrom UP-MS



Nominal size	System*	Connection size	Certification	Item No.
DN 20	One pipe	Rp 3/4 x Rp 3/4	DVGW, SVGW	4223116
DN 20	Two pipe	Rp 3/4	DVGW, SVGW	4223216

Fixing set



Description	Item No.
For Aquastrom UP-MS	4223194 °

Handwheel set for Aquastrom UP-MS water meter installation sets



Suitable for flush-mounted valves without flush-mounted sleeve and water meter installation sets, consisting of chrome plated operating handle, chrome plated cover rosette and sleeve as well as three coloured marking plates.

Description	Item No.
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-35 mm	4223192
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-135 mm, lockshield configuration	4223193
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 35-90 mm	4223195
For Aquastrom UP, DN 15 / DN 20 and Aquastrom UP-MS, wall construction 0-40 mm, lockshield configuration	4223196

Replacement thermal insulation shell



Description	Item No.
For Aquastrom UP-MS, one pipe	4223190
For Aquastrom UP-MS, two pipe	4223290
For Aquastrom UP, DN 15 / DN 20 and Aquastrom K, DN 15	4229050
For Aquastrom UP, DN 25	4229051
For Aquastrom UP, DN 32	4229052

Aquastrom G Frost-proof outdoor tap



Frost-proof outdoor tap for potable water installations.

Wall plate design for passing through masonry, all parts coming into contact with the medium made of ceramic, lead-free brass or stainless steel.

Handwheel chrome-plated, in various designs. Simple shutoff through patented ceramic cartridge.

Automatic internal venting, draining to the outside.

Maintenance-free spindle seal, all functional parts can be replaced from the outside.

Aquastrom G with external thread

Bonnet handle and key handle included.

















Description

DN 15, R 1/2, for wall thickness 200 mm to 530 mm, PN 10

Item No.

4205204

Connection of pipes and Oventrop valves with different connections in potable water systems

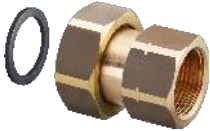
Pipes	Type of connection	Connection technique		Female threaded connection
		Connection element	Additional fitting	Oventrop products for water installations (examples)
Copper pipe EN 1057	Screw connection	 Item no. 10271.. DN 15-DN 20	—	
		 G 3/4 Eurocone metal to metal sealing Item no. 102747.	 Item no. 15031..	  
Copper pipe, stainless steel pipe, precision steel pipe 1)	Screw connection	 G 3/4 Eurocone soft sealing Item no. 102744.	—	—
Steel pipes and screw fittings	Direct sealing	—	—	—
Male threaded connection				
Copper pipe EN 1057	Screw connection	 G 3/4 Eurocone metal to metal sealing Item no. 102747.	 Item no. 15030..	 
Copper pipe, stainless steel pipe, precision steel pipe 1)	Screw connection	 G 3/4 Eurocone soft sealing Item no. 102744.	—	—
Copper pipe EN 1057	Solder connection	 Item no. 42020.. and 42002..	—	Aquastrum free-flow and KFR with conventional male thread
Other pipes e.g. stainless steel pipe, thick-walled plastic pipe	Other pipes can be connected with the fittings of the respective system suppliers			

1) Pipes with a wall thickness ≤ 1mm will need support sleeves, item no. 2083951/52 or 1029651-57, unless the soft sealing fitting item no. 102744.!

Ofix Connection fittings

Ofix Connection fitting, flat sealing tailpipe, internal thread

Consisting of tailpipe, union nut and EPDM sealing ring.



Description	PU	Item No.
Rp 3/4 x G 1 1/4 union nut, bronze	10	4200282 °
Rp 1/2 x G 3/4 union nut, Rotguss	10	4201372 °
Rp 3/4 x G 1 union nut, bronze	10	4201373 °
Rp 1 x G 1 1/4 union nut, bronze	10	4201374 °
Rp 1 1/4 x G 1 1/2 union nut, bronze	5	4201375 °
Rp 1 1/2 x G 1 3/4 union nut, bronze	5	4201376 °
Rp 2 x G 2 3/8 union nut, bronze	5	4201377 °
Rp 2 1/2 x G 3 union nut, bronze		4201378 °
Rp 3 x G 3 1/2 union nut, bronze		4201379 °

Ofix Connection fitting, flat sealing tailpipe, external thread

Consisting of tailpipe, union nut and EPDM sealing ring.



Description	PU	Item No.
R 3/4 x G 1 1/4 union nut, bronze	10	4201471 °
R 1/2 x G 3/4 union nut, bronze	10	4201472 °
R 3/4 x G 1 union nut, bronze	10	4201473 °
R 1 x G 1 1/4 union nut, bronze	10	4201474 °
R 1 1/4 x G 1 1/2 union nut, bronze	5	4201475 °
R 1 1/2 x G 1 3/4 union nut, bronze	5	4201476 °
R 2 x G 2 3/8 union nut, bronze	5	4201477 °

Ofix Connection fitting, flat sealing tailpipe, solder connection

Consisting of tailpipe, union nut and EPDM sealing ring.



Description	PU	Item No.
Solder tailpipe 15 mm x G 1 1/4 union nut, bronze	10	4200272 °
Solder tailpipe 18 mm x G 1 1/4 union nut, bronze	10	4200273 °
Solder tailpipe 15 mm x G 3/4 union nut, bronze	10	4202072 °
Solder tailpipe 18 mm x G 3/4 union nut, bronze	10	4202073 °
Solder tailpipe 22 mm x G 1 union nut, bronze	10	4202074 °
Solder tailpipe 28 mm x G 1 1/4 union nut, bronze	10	4202075 °
Solder tailpipe 35 mm x G 1 1/2 union nut, bronze	5	4202076 °
Solder tailpipe 42 mm x G 1 3/4 union nut, bronze	5	4202077 °
Solder tailpipe 54 mm x G 2 3/8 union nut, bronze	5	4202078 °



4.2 Shutoff valves and other products for potable water

Potable water distribution	581
Aquamodul Distributor system for potable water.....	582
Aquamodul Accessories and spare parts.....	584
Multidis R Sanitary distributors.....	586
Multidis R Accessories and spare parts.....	587



Aquamodul Distributor system for potable water



Potable water distribution system made of bronze. The system enables the quick creation of domestic water distributions with shutoff devices, water meters and water filters as well

as optional water treatment devices and distributions. The components are screwed together with flat seals. The connection dimension is 140 mm.



Aquamodul T-distributor

Inlet G 1¼ union nut, outlet G ¼ flat sealing external thread, 140 mm, bronze



Description	Item No.
DN 25, exit G ¾ union nut, flat sealing	4200252 °
DN 25, exit G 1 union nut, flat sealing	4200253 °
DN 25, exit G 1¼ union nut, flat sealing	4200254 °
DN 25, with 90° exit, can be used as end piece	4200256 °

Aquamodul Elbow

Inlet G 1¼ union nut, outlet G ¾ flat sealing external thread, 70 mm, bronze



Description	Item No.
For Aquamodul, flat sealing (70 mm), bronze	4200255 °

Aquamodul One pipe connection piece EAS

Inlet G 1¼ union nut, outlet G 1¼ flat sealing external thread, 140 mm, bronze



Description	Item No.
For the connection of water filters and backflush filters	4200208 °

Bypass device

For connection to the EAS one pipe connection piece, bronze.



Item No.

4200308 °

Pressure relief cap



Description

For closing the EAS one pipe connection piece, without connection thread

For closing the EAS one pipe connection piece, with connection thread Rp 3/4

Item No.

4200211 °

4200212 °

Aquanova Compact Water filter



Certification

DVGW, ACS

Item No.

4202508 °

Aquamodul Accessories and spare parts

Bracket



Description

Clamping range \varnothing 31-35 mm, with pipe clamps, hanger bolts and dowels

Item No.

4200295 °

Drain ball valve



Nominal size

DN 8

Connection size

G 1/4

Item No.

4200191

Double fitting



Description

Both sides G 1 1/4 union nut, 38 mm, bronze

Item No.

4200285

Nipple



Description

Both sides R 1, bronze

R 1 x G 1 1/4 external thread, flat sealing, bronze

Item No.

4200283 °

4200284 °



Cap

Description

For closing the T-distributor (if no elbow is used), G 1¼ flat sealing internal thread flat sealing with sealing washer

Item No.

4200291 °



Plug

Description

For closing the distributor connections, G 1, bronze

For closing the distributor connections, G ¾, bronze

For closing the distributor connections, G 1¼, bronze

Item No.

4200288 °

4200289 °

4200290 °



Drain valve

Description

DN 8, G ¼ external thread, self sealing, with rotatable outlet for ¾ hose

DN 10, G ⅜ external thread, self sealing, with rotatable outlet for ¾ hose

DN 15, G ½ external thread, self sealing, with rotatable outlet for ¾ hose

Item No.

4209602

4209603

4209604

Multidis R Sanitary distributors



Sanitary distributor made of bronze, without dead zone. Completely pre-assembled and leak tested unit. With rotatable identification plate for marking the outlet connections.



Multidis R with internal/external thread, self sealing



Description	Certification	PU	Item No.
2-fold, without shutoff, DN 20, G 3/4 internal thread x G 3/4 external thread, bronze	ACS	2	4200453
2-fold, with shutoff, DN 20, G 3/4 internal thread x G 3/4 external thread, bronze			4200552
3-fold, with shutoff, DN 20, G 3/4 internal thread x G 3/4 external thread, bronze			4200553
4-fold, with shutoff, DN 20, G 3/4 internal thread x G 3/4 external thread, bronze			4200554

Multidis R Accessories and spare parts

Bracket



Description

For Multidis R with shutoff, steel, galvanised
For Multidis R without shutoff, steel, galvanised

Item No.

4200571
4201071

Cap



Description

G 3/4 internal thread

Item No.

1400692

Cabinet



Flush-mounted model, steel, galvanised, frame and door white lacquered.

Description

Inner width 400 mm
Inner width 600 mm

PU

30
20

Item No.

4201081
4201082

Replacement insert



Description

For Multidis R with shutoff

Item No.

4200590



4.2 Shutoff valves and other products for potable water

Products for potable water treatment **588**

Aquanova Water filters.....	589
Aquanova Water filters Accessories and spare parts.....	591
Bypass mixing valves and bypass valves.....	593
Bypass mixing valves and bypass valves Accessories and spare parts.....	595



Aquanova Water filters



Potable water filters for horizontal installation in potable water systems. Without dead zone, in compact design for smaller flow rates as Aquanova Compact or

optimised in terms of pressure loss for larger flow rates as Aquanova Magnum. Filter mesh sizes from 95 µm to 140 µm.



Aquanova Magnum with internal thread

Head and union nut: Brass
Max. medium temperature (continuous operation): 30 °C
Filter insert: Plastic support body with tissue
Mesh size: 95 - 140 µm, one-piece

Description	Certification	Item No.
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6120008
DN 32, Rp 1 ¼, PN 16, with transparent plastic cup	DVGW, ACS	6120010
DN 40, Rp 1 ½, PN 16, with transparent plastic cup	DVGW, ACS	6120012
DN 50, Rp 2, PN 16, with transparent plastic cup	DVGW, ACS	6120016
DN 25, Rp 1, PN 16, with brass cup	DVGW, ACS	6120108 °



Aquanova Magnum with external thread and coupling

Head and union nut: Brass
Max. medium temperature (continuous operation): 30 °C
Filter insert: Plastic support body with tissue
Mesh size: 95 - 140 µm, one-piece

Description	Certification	Item No.
DN 20, R ¾, PN 16, with transparent plastic cup	DVGW, ACS	6122006
DN 25, R 1, PN 16, with transparent plastic cup	DVGW, ACS	6122008
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6122010



Aquanova Magnum with internal thread, for industrial applications

Head and union nut: Brass
 Max. medium temperature (continuous operation): 30 °C
 Filter insert: Plastic support body with tissue
 Mesh size: 250 - 280 µm, multi-piece

Description	Certification	Item No.
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6120058
DN 32, Rp 1 ¼, PN 16, with transparent plastic cup	DVGW, ACS	6120060
DN 40, Rp 1 ½, PN 16, with transparent plastic cup	DVGW, ACS	6120062
DN 50, Rp 2, PN 16, with transparent plastic cup	DVGW, ACS	6120066



Aquanova Compact with internal thread

Head: Brass
 Max. medium temperature (continuous operation): 30 °C
 Filter insert: Plastic support body with tissue
 Mesh size: 100 - 120 µm

Description	Certification	Item No.
DN 25, Rp 1, PN 16, with transparent plastic cup	DVGW, ACS	6120508



Aquanova Compact with external thread

Head: Bronze
 Max. medium temperature (continuous operation): 30 °C
 Filter insert: Plastic support body with tissue
 Mesh size: 100 - 120 µm, one-piece

Certification	Item No.
DVGW, ACS	4202508 °



Aquanova Compact with external thread and coupling

Head: Bronze
 Max. medium temperature (continuous operation): 30 °C
 Filter insert: Plastic support body with tissue
 Mesh size: 100 - 120 µm, one-piece

Description	Certification	Item No.
DN 20, R ¾, PN 16, with transparent plastic cup	DVGW, ACS	6122506
DN 25, R 1, PN 16, with transparent plastic cup	DVGW, ACS	6122508
DN 32, Rp 1 ¼, PN 16, with transparent plastic cup	DVGW, ACS	6122510



Aquanova Water filters Accessories and spare parts



Filter insert

Description	PU	Item No.
For Aquanova Compact, mesh size 100 - 120 µm, one-piece, DIN DVGW tested	10	6120591
For Aquanova Magnum, mesh size 80 - 120 µm, with support body, multi-piece, for industrial applications	10	6125100
For Aquanova Magnum, mesh size 95 - 140 µm, one-piece, DIN DVGW tested		6125101
For Aquanova Magnum, mesh size 250 - 280 µm, with support body, multi-piece, for industrial applications	10	6125161
For Aquanova Magnum, mesh size 800 - 1000 µm, with support body, multi-piece, for industrial applications	10	6125163



Filter stocking

Filter stockings can only be used with multi-piece filter inserts. If required, order support body and collar separately.

Description	PU	Item No.
For Aquanova Magnum, mesh size 80 - 120 µm	150	6125300
For Aquanova Magnum, mesh size 250 - 280 µm	50	6125361
For Aquanova Magnum, mesh size 800 - 1000 µm	50	6125363



Support body with collar

Description	Item No.
For Aquanova Magnum	6125200



Replacement filter cup

Description	Item No.
For Aquanova Compact, transparent plastic cup made of Trogamid T	6120581
For Aquanova Magnum, transparent plastic cup made of Trogamid T	6125400
For Aquanova Magnum, brass cup	6125500



Replacement pressure gauge

Description

For Aquanova water filters, DN 6, G 1/8 external thread, set = 2 pieces

Item No.

6127000



Replacement union nut

Description

For Aquanova Magnum, for mounting the filter cup

Item No.

6125000



Replacement O-ring for mounting the filter cup

Description

For Aquanova Compact
 For Aquanova Magnum

PU

10

Item No.

6120595
 6126000



Special key for loosening the filter cup

Description

For Aquanova Magnum
 For Aquanova Compact

PU

50

Item No.

6124000
 6124100

Bypass mixing valves and bypass valves



Bypass mixing valves and bypass valves for potable water softening installations in industry, trade and household. Inlet and outlet of the softener can be shut off for service work.



Bypass mixing valve with internal thread and shutoff valves

Body made of bronze.



Description

DN 25 , G 1, PN 10, connection to the water softener G 1 external thread
 DN 25 , G 1, PN 10, connection to the water softener G 1 ¼ external thread

Certification

ACS
 ACS

Item No.

6101008
 6101051

Bypass mixing valve with internal thread

Body made of bronze, bonnet made of brass, for large systems.



Description

DN 32 , G 1 ¼, PN 10

Certification

ACS

Item No.

6102010

Bypass mixing valve with internal thread

Body made of bronze, bonnet made of brass, for large systems.



Description

DN 50 , G 2, PN 10

Item No.

6102016





Bypass valve with internal thread, shutoff valves and draining facilities G ¼ and G ½

For systems with integrated mixing device.
Brass body.

Description

DN 25 , Rp 1, PN 10, bypass valve with bonnet key
DN 25 , Rp 1, PN 10, bypass valve with handwheel

Item No.

6105008
6105108

Bypass mixing valves and bypass valves Accessories and spare parts

Coupling



Description

DN 25, G 1 1/4 union nut x R 1 external thread, straight coupling
 DN 20, G 1 1/4 union nut x G 3/4 external thread, S-connection fitting
 DN 25, G 1 1/4 union nut x G 1 external thread, S-connection fitting

Item No.

6100508 °
 6100606 °
 6100608 °

Hose line



Description

DN 25, G 1 union nut x G 1 external thread, 600 mm long, WA-NIRO

Item No.

6105751 °

Replacement insert



Description

For Bypass mixing valve DN 25, for setting large flow rates
 For bypass mixing valve DN 25 / DN 32, for setting small flow rates
 For bypass mixing valve DN 32, for setting large flow rates
 For bypass valve and bypass mixing valve DN 25 with flat sealing bonnet, until 07.2004
 For bypass valve and bypass mixing valve DN 25, with bonnet with O-ring, from 07.2004

PU

50
 100
 10
 25
 25

Item No.

6101053
 6102051
 6102053
 6109551 °
 6109552

Replacement regulating insert



Description

For bypass mixing valve DN 50, with diaphragm and spring

Item No.

6109152





Replacement bonnet

Description

For bypass mixing valve DN 50, with adjustment spindel

Item No.

6109052



Replacement regulating screw

Description

For bypass mixing valve DN 50, for setting small flow rates

Item No.

6109851



**Oil
Solar**

5



5.1 Products for heating oil installations

Deaerators and filters for oil heating technology 601

Toc Heating oil filter / deaerator combinations and heating oil deaerators.....	604
Oilpur Heating oil filters.....	606
Heating oil filters/Heating oil deaerators Accessories and spare parts.....	609

Tank equipment for oil heating technology 612

Filling and venting, filling level.....	613
Tank filling limiters.....	616
Tank filling limiter Accessories and spare parts.....	617
Products for vacuum tank monitoring.....	618
Flexo-Bloc Tank extraction systems.....	620
Tank extraction.....	622

Pipeline valves and components for oil heating technology 625

Oilstop Anti-siphon valves.....	626
Pipeline valves.....	627
Ofix-Oil Compression fittings.....	629
Ofix-Oil Cutting ring compression fittings.....	630
Ofix-Oil Double nipples.....	633
Hose lines according to DIN EN ISO 6806.....	634

Sets 637

Heating oil kits for export.....	638
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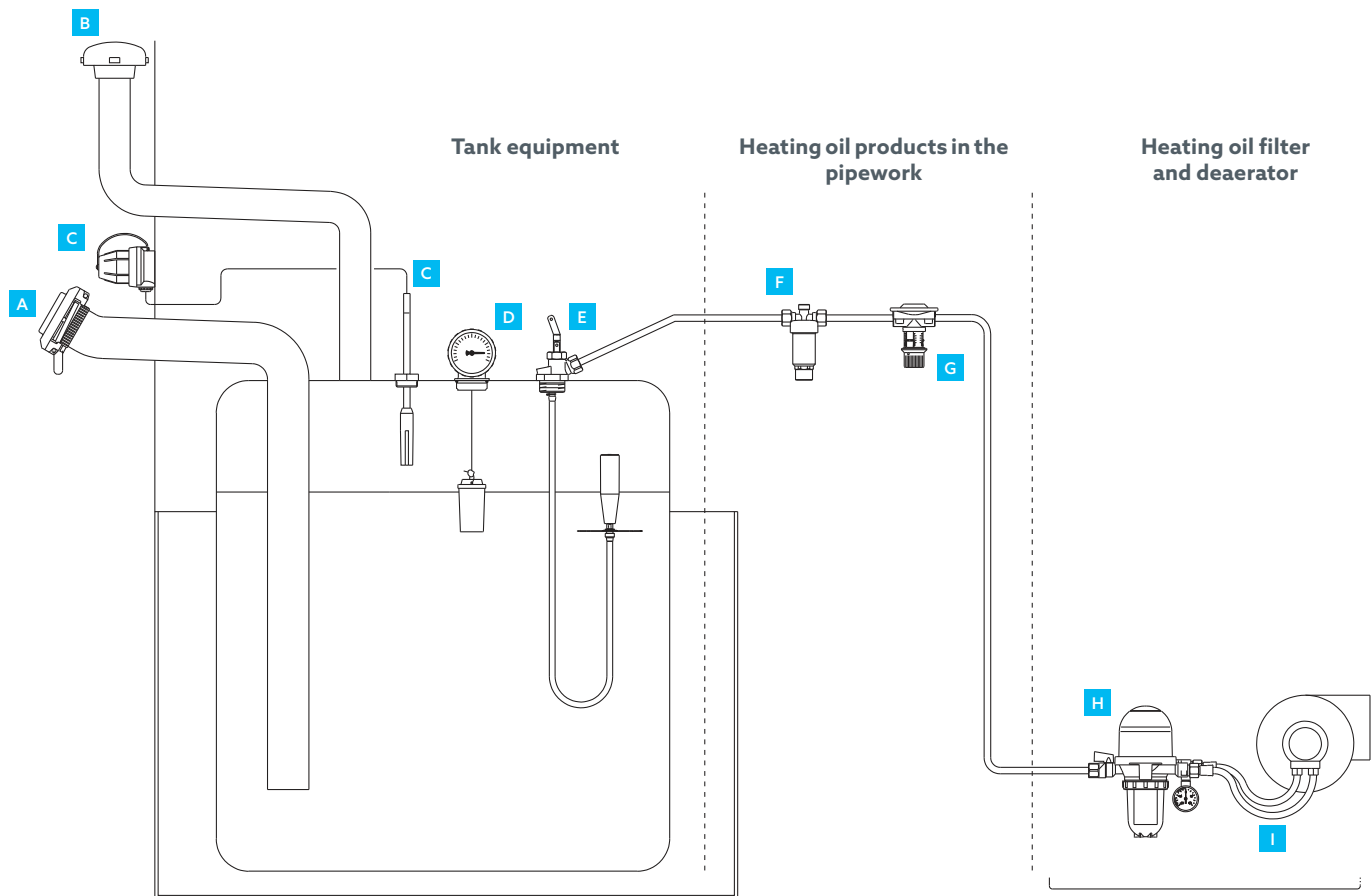


5.1 Products for heating oil installations

Deaerators and filters for oil heating technology **601**

Toc Heating oil filter / deaerator combinations and heating oil deaerators.....	604
Oilpur Heating oil filters.....	606
Heating oil filters/Heating oil deaerators Accessories and spare parts.....	609

Example: One pipe system



- A** Tank inlet cap
- B** Vent cap
- C** Tank filling limiter
- D** Tank level indicator
- E** Tank extraction
- F** Pressure compensation (if required)
- G** Anti-siphon valve
- H** Heating oil filter and heating oil deaerator combination with vacuum pressure gauge
- I** Burner hoses

Other components:

- Connection elements for connecting the components to the pipework
- Shut-off device (in the suction pipe, if the shut-off device on the tank is not directly accessible or can be operated with a ripcord)
- Change-over valve (if there is more than one tank)
- Insulating piece (for underground tanks with corrosion protection via sacrificial anode)

The one pipe system:

There is only one oil pipe from the tank to the filter. The oil flow rate corresponds to the nozzle capacity, i.e. only approx. 1 litre of heating oil per hour is consumed for every 10 kW of heat output. The oil pipe to the tank should be designed accordingly small. One pipe systems with return flow feed: There are usually two lines from the heating oil filter or heating oil deaerator to the burner pump. The burner pump delivers more oil than is burned. The excess is fed back to the pump via the heating oil filter or heating oil deaerator.

One pipe system (without return flow feed): There is only one pipe from the heating oil filter to the burner pump. Since the burner pump delivers more oil than is burnt, the pump must have an internal overflow or return flow feed. This installation is rare.

The two pipe system:

There are two oil pipes from the tank to the burner pump. The oil flow rate corresponds to that of the burner pump. This system is no longer recommended for new installations.

Recommendations regarding the conversion of an existing two pipe system to a one pipe system:

- The suction pipe should be re-routed in the appropriate, smaller dimension, as the oil flow rate is usually considerably lower. Disturbances as a result of occasional air accumulations are thus avoided. According to DIN 4755, the flow velocity should be approx. 0.2 to 0.5 m/s. Observe the notes on this in the installation instructions and data sheets.
- The installation of a heating oil deaerator, e.g. a Toc-Duo-3 heating oil filter and heating oil deaerator combination.
Note: A two pipe filter cannot be used as one pipe filter with return flow feed!
- Old oil pipes should be removed

Note regarding liquid fuels:

Heating oil is a liquid fuel that is produced from fossil mineral oil. In order to conserve fossil deposits, liquid fuels, e.g. from renewable raw materials, can be added to the heating oil. This admixture - "alternative proportions" or "bio oils" - is, for example: Bio diesel (= FAME = fatty acid methyl ester).

The fatty acids contained in bio oils can damage the seals and hoses that were common in the past.

New oil fittings are generally designed for a bio proportion of 20 % and more. Observe the notes.

Recommendation when switching to "bio heating oil" (low-sulphur heating oil with organic content):

- The one pipe system is highly recommended for oil installations.
- Check remaining old construction components to see if they are suitable for the planned bio proportion and replace if necessary.
- Before filling, the heating oil in the tank should be used up.
- Tank cleaning with disposal of the residual oil is recommended.
- Filter inserts with a large filter surface area should be used, e.g.: "opticlean". This applies especially if no tank cleaning has been carried out.

Reasons:

- Bio proportions (FAME) can dissolve existing deposits, these can block filter inserts.
- Back flowing oil in two pipe systems can adversely affect the shelf life of the stored product.
- The mixture of used and fresh low-sulphur heating oil may cause corrosion of the burner's flame tubes ("metal dusting").

Toc Heating oil filter / deaerator combinations and heating oil deaerators



Toc heating oil deaerators are used in oil firing systems (suction operation), which are operated as one pipe system with return flow feed. A return pipe to the tank is not necessary. The **Toc** supports a trouble-free oil supply to the burner by a high venting capacity. Pure heating oil deaerators (**Toc-Uno**) as well as heating oil filter/heating oil deaerator combinations (**Toc-Duo-3**) are available.

The installation is permitted below and above the oil level.

All **Toc-Uno** and **Toc-Duo** are supplied with wall bracket and are suitable for fuels and combustibles with "alternative additives" or a bio proportion of up to 20 % according to DIN SPEC 51603-6. The models with deaerator cap and filter cup made of metal are also suitable for heating oil EL A Bio according to DIN SPEC 51603-6 with up to 100 % FAME as well as for various low-viscosity vegetable oils.

The tank side connection G 3/8 internal thread is suitable for OV compression fittings 6, 8, 10 and 12 mm.

Nominal size	DN 10	Max. flow of returned oil (heating oil)	120 l/h
System*	One pipe with return flow feed	Min. venting capacity (air)	6 l/h
Body	Metal	Certification	DIN, Ü sign
Max. nozzle capacity (heating oil)	110 l/h		



Toc-Duo-3 Heating oil filter and heating oil deaerator combination

Connection tank side	G 3/8 internal	Filter element	Yes
Shutoff	Yes	Certification	DIN, Ü sign

Connection burner side	Cap*	Cup*	Filter*	Mesh size* (µm)	Pressure gauge*	PU	Item No.
G 1/4 internal	Plastic transparent	Plastic transparent	Sintered plastic	50-75	No		2142700
G 3/8 external	Plastic transparent	Plastic transparent	Sintered plastic	25-40	No	130	2142732
G 3/8 external	Plastic transparent	Plastic transparent	Paper	5-20	No		2142735
G 3/8 external	Plastic transparent	Plastic transparent	Paper	~2	No		2142737 °
G 3/8 external	Plastic transparent	Plastic transparent	Paper	5-20	Yes		2142754 °
G 3/8 external	Plastic transparent	Plastic transparent	Sintered plastic	25-40	Yes		2142762
G 3/8 external	Metal	Metal	Paper	5-20	Yes		2152754



Toc-Uno Heating oil deaerator

With hose G 3/8 union nut x G 1/4 external thread (does not apply to item no. 2142901).

Connection tank side	G 1/4 internal	Filter element	No
Shutoff	No	Certification	DIN, Ü sign
Pressure gauge*	No		

Connection burner side	Cap*	Hose length (mm)	PU	Item No.
G 3/8 external (brass)	Plastic transparent	300		2142900
G 1/4 internal	Plastic transparent	-		2142901
G 3/8 external	Plastic transparent	300	600	2142951
G 3/8 external	Metal	300		2152951 °

Oilpur Heating oil filters



Oilpur heating oil filters are used in oil firing systems, which are operated as one pipe system with or without return flow feed or as two pipe system. Filters with plastic cups are generally only approved for suction operation, metal filter cups and filter cartridges are also approved for pressurised systems and are available optionally or as accessories.

All **Oilpur** heating oil filters are suitable for fuels and combustibles with "alternative addi-

tives" or a bio proportion of up to 20 % according to DIN SPEC 51603-6. The models with metal filter cup are also suitable for heating oil with up to 100 % FAME as well as for various low-viscosity vegetable oils. All Oilpur heating oil filters with shutoff are supplied with a bracket.

The tank side connection G 3/8 internal thread is suitable for OV compression fittings 6, 8, 10 and 12 mm.

Body	Brass	Pressure gauge*	No
Filter element	Yes		



Oilpur E A with shutoff for one pipe systems

The heating oil filters with G 3/8 internal thread on the tank side can be connected with Oventrop compression fittings 6, 8, 10 or 12 mm. The compression fittings must be ordered separately.
Item no. **2123871**: long model **Magnum**

PU	10	Certification	DIN, Ü sign
----	----	---------------	-------------

Nominal size	Connection tank side	Connection burner side	Cup*	Filter*	Mesh size* (µm)	Item No.
DN 10	G 3/8 internal	G 3/8 internal	Plastic transparent	Stainless steel	100-150	2123103
DN 15	G 1/2 internal	G 1/2 internal	Plastic transparent	Stainless steel	100-150	2123104
DN 10	G 3/8 internal	G 3/8 internal	Plastic transparent	Sintered plastic	50-75	2123261
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Felt	50-75	2123503 °
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Sintered plastic	50-75	2123561
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Sintered plastic	25-40	2123871 °
DN 10	G 3/8 internal	G 3/8 external	Metal PN 16	Paper	5-20	2153554 °



Oilpur E A R with shutoff for one pipe systems with return flow feed

The heating oil filters with G 3/8 internal thread on the tank side can be connected with Oventrop compression fittings 6, 8, 10 or 12 mm. The compression fittings must be ordered separately.

Item no. **2121871**: long model **Magnum**

Venting	Yes	Certification	DIN, Ü sign
PU	10		

Nominal size	Connection tank side	Connection burner side	Cup*	Filter*	Mesh size* (µm)	Item No.
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Sintered plastic	25-40	2121871 °
DN 10	G 3/8 internal	G 3/8 internal	Plastic transparent	Stainless steel	100-150	2122103
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Sintered plastic	50-75	2122261
DN 15	G 1/2 internal	G 1/2 internal	Plastic transparent	Sintered plastic	50-75	2122262
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Stainless steel	100-150	2122403
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Felt	50-75	2122503 °
DN 10	G 3/8 internal	G 3/8 external	Plastic transparent	Sintered plastic	50-75	2122561
DN 10	G 3/8 internal	G 3/8 external	Metal	Paper	5-20	2152554 °



Oilpur E without shutoff for one pipe systems

The heating oil filters with G 3/8 internal thread on the tank side can be connected with Oventrop compression fittings 6, 8, 10 or 12 mm. The compression fittings must be ordered separately.

Cup*	Plastic transparent	Certification	DIN, Ü sign
PU	10		

Nominal size	Connection tank side	Connection burner side	Filter*	Mesh size* (µm)	Item No.
DN 10	G 3/8 internal	G 3/8 internal	Stainless steel	100-150	2124203
DN 15	G 1/2 internal	G 1/2 internal	Stainless steel	100-150	2124204
DN 8	G 1/4 internal	G 1/4 internal	Sintered plastic	50-75	2124360
DN 10	G 3/8 internal	G 3/8 internal	Sintered plastic	50-75	2124361 °
DN 15	G 1/2 internal	G 1/2 internal	Sintered plastic	50-75	2124362 °



Oilpur ZA with shutoff for two pipe systems

The heating oil filters with G 3/8 internal thread on the tank side can be connected with Oventrop compression fittings 6, 8, 10 or 12 mm. The compression fittings must be ordered separately.
 Item no. **2120803**: long model **Magnum**

Cup*	Plastic transparent	Certification	DIN, Ü sign
PU	10		

Nominal size	Connection tank side	Connection burner side	Filter*	Mesh size* (µm)	Item No.
DN 10	G 3/8 internal	G 3/8 internal	Sintered bronze	50-100	2120003 °
DN 10	G 3/8 internal	G 3/8 internal	Stainless steel	100-150	2120103
DN 15	G 1/2 internal	G 1/2 internal	Stainless steel	100-150	2120104
DN 10	G 3/8 internal	G 3/8 internal	Sintered plastic	50-75	2120261
DN 10	G 3/8 internal	G 3/8 external	Stainless steel	100-150	2120403
DN 10	G 3/8 internal	G 3/8 external	Felt	50-75	2120503 °
DN 10	G 3/8 internal	G 3/8 external	Sintered plastic	50-75	2120561
DN 10	G 3/8 internal	G 3/8 external	Sintered plastic	50-75	2120803 °



Oilpur Small heating oil filter with shutoff for one pipe systems

Cup*	Plastic transparent	Mesh size*	80 µm
Filter*	Plastic		

Nominal size	Connection tank side	Connection burner side	Item No.
DN 10	G 3/8 internal	G 3/8 internal	2125003 °

Heating oil filters/Heating oil deaerators Accessories and spare parts



Filter insert

The filter inserts have a bayonet catch and are interchangeable, taking into account the size of the filter cups (except for filter cartridge PN 10).

The finer Siku filter inserts (25-40 µm) can be recognized by the red bayonet.

Description	PU	Item No.
Sika 0, sintered bronze, 50 – 100 µm	25	2126051
Stainless steel 100 – 150 µm	25	2126100
Felt, 50 – 75 µm	25	2126200 °
Siku, sintered plastic, 50 – 75 µm	25	2126300
Siku, sintered plastic, 25 – 40 µm	25	2126354
Siku, sintered plastic, 50 – 75 µm, for Magnum	10	2126355
Siku, sintered plastic, 25 – 40 µm, for Magnum	10	2126371
Filter cartridge PN 10, paper in metal cartridge, 25 µm		2126400
opticlean MC-7, paper, 5 – 20 µm	25	2126454
opticlean MC-18, paper, 5 – 20 µm, lang	10	2126474
opticlean MX-11, paper, ~2 µm, long	10	2126484



Filter cup

Transparent cups made of plastic are only to be used for suction operation.

Description	PU	Item No.
Transparent cup made of plastic	25	2126751
Metal cup PN 16		2126754
Transparent cup made of plastic, for Magnum	25	2126755
Transparent cup made of plastic, for Opticlean long	25	2126774
Transparent cup made of plastic for Oilpur small heating oil filter and condensate collectors	10	2129102
Brass cup for pressurised systems PN 6, for Oilpur small heating oil filter and condensate collectors	10	2129152

Sealing ring and O-ring



Description	PU	Item No.
O-ring for Oilpur heating oil filters and Toc-Duo-3 heating oil filter and heating oil deaerator combinations, suitable for bio heating oils		2129200
O-ring for small heating oil filter and condensate collectors	10	2166500





Magnum Conversion set

Description

Filter cup Magnum with filter insert made of sintered plastic 50-75 µm and O-ring

Item No.

2120891



Plastic screen mesh insert

Description

For Oilpur small heating oil filter (80 µm)

Item No.

2129000 °



Vacuum pressure gauge

Vacuum pressure gauges are used to check the filter contamination. They are installed directly behind the filter in the suction line to the burner. The indicator can be positioned as required.

Description

With connection fitting, filter side R 3/8, burner side Rp 3/8

Item No.

2120285

With connection fitting, filter side G 3/8 union nut, burner side G 3/8 with internal cone

2120585



Adapter

Description

For retrofitting filter cartridges (item no. 2126400)

Item No.

2120691



Union nut

Description

For Oilpur heating oil filters and Toc-Duo-3 heating oil filter and heating oil deaerator combinations

Item No.

2126600

Tool



Description	Item No.
Multi-purpose spanner for loosening the union nut of Oilpur heating oil filters and Toc-Duo heating oil filter and heating oil deaerator combinations	2126691
Filter cartridge tool, for loosening the filter cartridge from the adapter	2126695

Vent hose, 10 m



Description	Item No.
With hose nozzle for Toc-Duo-3 and Toc-Uno for the removal of outgassings	2142990

Replacement bracket



Description	Item No.
Bracket for Oilpur heating oil filters DN 10	2126803
Bracket for Oilpur heating oil filters DN 15	2126804
Bracket with screws for Toc-Duo-3 and Toc-Uno	2142992

Replacement handwheel



Description	Item No.
For Oilpur heating oil filters DN 8 and DN 10	2126951
For Oilpur heating oil filters DN 15	2126952



5.1 Products for heating oil installations

Tank equipment for oil heating technology 612

Filling and venting, filling level.....	613
Tank filling limiters.....	616
Tank filling limiter Accessories and spare parts.....	617
Products for vacuum tank monitoring.....	618
Flexo-Bloc Tank extraction systems.....	620
Tank extraction.....	622



Filling and venting, filling level



Fittings for safe filling and venting, as well as for level detection.

Tank caps ensure a secure closure and connection of the filling hose to the filling pipe of the tank. Tank caps with bayonet according to EN 14420 part 6 (or part 8 for France) are recommended for a direct connection of the filling hose from the tank vehicle. Tank caps

with screw connection provide a secure hold for adapter pieces.

Metal vent caps are particularly durable.

Fuel gauge locks as well as mechanical and pneumatic tank level indicators are available for determining the fill level.

Screwed tank cap



Nominal size	Connection tank side	Connection filling spout	Material	PU	Item No.
DN 50 - 2	G 2 internal	G 2	Brass	25	2010152
DN 50 - 2	Rp 2	G 2 1/2	Brass	25	2010153
DN 50 - 2	G 2 internal	G 2 3/4	Brass	5	2010154
DN 80 - 3	G 3 internal	G 3	Brass	2	2010155 °

Tank cap with bayonet catch

Item no. 2010882 with green cap for "low-sulphur heating oil".



Nominal size	Connection tank side	Connection filling spout	Material	Types (according to EN 14420-6)	PU	Item No.
DN 50 - 2	G 2 internal	DN 50	Brass	VK 50 + MB 50	10	2010816
DN 80 - 3	G 3 internal	DN 80	Brass	VK 80 + MB 80	5	2010824 °
DN 100 - 4	G 4 internal	DN 100	Filling spout brass / Cap aluminium	VK 100 + MB 100	5	2010832 °
DN 50 - 2	Rp 2	DN 50	Brass	VK 50 + MB 50	10	2010851
DN 50 - 2	G 2 internal	DN 50	Brass	VK 50 + MB 50	10	2010882 °

Tank inlet cap

Item no. 2018182 green lacquered for "low-sulphur heating oil".



Connection filling spout	Material	Types (according to EN 14420-6)	PU	Item No.
G 1 ¼	Brass	-		2018090
G 1 ½	Brass	-	100	2018091
G 2	Brass	-		2018092
G 2 ½	Brass	-		2018093
G 2 ¾	Brass	-		2018094
G 3	Brass	-		2018095 °
DN 50	Brass	MB 50	10	2018182 °
DN 50	Brass	MB 50	10	2018192
DN 80	Brass	MB 80	5	2018195 °
DN 100	Aluminium	MB 100	5	2018197 °

Coupling for export

In accordance with French standard, NF E-29-572 (Guillemin system, see also EN 14420-8).



Nominal size	Connection tank side	Connection filling spout	Material	Item No.
DN 50	G 2 external	DN 50	Brass	2010516 °
DN 50	G 2 internal	DN 50	Brass	2010616 °

Cap for export

In accordance with French standard, NF E-29-572 (Guillemin system, see also EN 14420-8).



Nominal size	Material	Item No.
DN 50	Brass	2010716 °

Vent cap



Variants with dirt strainer for export only (according to DIN 4755, cross-section reductions such as strainers in vent pipes are not permitted).

The dirt strainers of the variants DN 20 - DN 50 are made of plastic, those of the variants DN 65 and DN 80 are made of brass.

Nominal size	Connection tank side	Material	Dirt strainer	PU	Item No.
DN 20	G ¾ internal	Brass	No	50	2020006
DN 25	G 1 internal	Brass	No	50	2020008
DN 32	G 1 ¼ internal	Brass	No	50	2020010
DN 40	G 1 ½ internal	Brass	No	50	2020012
DN 50	G 2 internal	Brass	No	20	2020016
DN 65	G 2 ½ internal	Brass	No	10	2020020
DN 80	G 3 internal	Brass	No	5	2020024
DN 20	G ¾ internal	Brass	Yes	50	2020106 °
DN 25	G 1 internal	Brass	Yes	50	2020108 °
DN 32	G 1 ¼ internal	Brass	Yes	50	2020110 °
DN 40	G 1 ½ internal	Brass	Yes	50	2020112 °
DN 50	G 2 internal	Brass	Yes	20	2020116 °
DN 65	G 2 ½ internal	Brass	Yes	10	2020120 °
DN 80	G 3 internal	Brass	Yes	5	2020124 °

Fuel gauge lock



Description	PU	Item No.
G 1 internal thread x G 1 ¼, with sealing washer and chain	25	2013051 °
Universal version G 1 internal thread, with quick-acting lock, lockable	20	2014151

Tank level indicator



Description	PU	Item No.
Mechanical, as retrofit set for plastic tanks without free screw-in opening, G 1 ½, infinitely adjustable, for tank heights up to 200 cm		2060200 °
Mechanical, G 1 ½, infinitely adjustable, for tank heights 0 - 200 cm, odour-proof	300	2060312
Pneumatic, infinitely adjustable, for tank heights 100 - 300 cm, max. measuring line length 50 m, connection pipe diameter 6 mm, scale graduated in %		2060400

Condensate collector



Description	Item No.
Pipe connection 6 x 6 mm	2061051 °

Tank filling limiters



The switching amplifier of the tank truck in conjunction with the tank filling limiter prevents overfilling of the tank. The tank filling limiter is a "sensor for tanks with current interface as part of an overfill protection system of type B and design B1 according to EN 13616". All tank filling limiters are TÜV tested and are marked with CE sign.

The 2 types differ in the connection fitting:

Type 21300 with fitting for pipe mounting (904), preferred for underground tanks according to e.g. DIN 6608, DIN 6616, DIN 6617,

EN 12285-1, EN 12285-2, DIN 6624, DIN 6619, DIN 6623, and DIN 4119.

Type 21301 with fitting for wall mounting (905), cable length approx. 5 m, preferred for above ground tanks according to e.g. DIN 6620, DIN 6625, EN 12573 parts 1-3, EN 13341 parts 1-3, EN 13121 parts 1-3 and battery tanks with general type approval up to 25 single tanks.

A tank filling limiter of type 21301 is also included in the Flexo-Bloc item no. 2052351.



Tank filling limiters

Connection tank side	Type	Probe length (mm)	PU	Item No.
G 1 external	21300	400		2130051 °
G 1 external	21300	700		2130052 °
G 1 external	21300	1,000		2130053 °
G 1 external	21300	1,500		2130054 °
G 1 external	21301	385	10	2130108 °



Tank filling limiter with tank level indicator

Connection tank side	Tank height up to (mm)	Type	Probe length (mm)	Item No.
G 1 ½ external	2,500	21301	385	2130512 °

Tank filling limiter Accessories and spare parts

Accessories - Tank filling limiters



Description

Coupling plug (90) for extension cables
Coupling socket (903) for extension cables

Item No.

2133200 °
2133300 °



Tank filling limiter test instrument

Description

Pluggable, for checking the connections of tank filling limiters (short circuit, interruption) in heating oil tanks and diesel tanks

Item No.

2134100 °



Spare parts - Tank filling limiters

Description

Tank filling limiter probe (type 21301), probe length 385 mm, cable length approx. 5 m
Fitting for pipe mounting (904)
Fitting for wall mounting (905)

Item No.

2130150 °
2133000 °
2133100 °

Products for vacuum tank monitoring



Liquid safety device

For the suction and measuring line, lower connection G $\frac{3}{8}$ internal thread and G $\frac{1}{2}$ external thread, upper connection M 18 x 1.5 mm with ball cone for hose connection.

Description	Item No.
Lower connection G $\frac{3}{8}$ internal thread and G $\frac{1}{2}$ external thread, upper connection M 18 x 1.5 mm	2073051
With condensate collector and bracket for mounting on the dome cover, hose connections 4 and 6 mm	2073161



Bracket

Description	Item No.
Made of steel, for mounting the liquid safety device on the dome cover	2076100 °



Elbow with locknut and two seals

For passing through the suction and measuring line.

Description	Item No.
With outer hose connections 4 and 6 mm, hose connection in the tank 6 mm	2074061
As above, but extended with copper pipe, outer hose connections 4 and 6 mm, hose connection in the tank 6 mm	2074261



Spacer plate

Is required if the hose line is not routed to the bottom of the tank.

Description	Item No.
With inner fixing possibility of the elbows item no. 2074061 und 2074261	2076200



Condensate collector

For systems with PVC inner jackets in which petrol containing ethanol is stored, the brass cup (item no. 2129152) on the condensate collector is recommended. Ethanol can diffuse through the inner jacket and damage the material of the transparent cup in the long term.

Description	PU	Item No.
Tailpipes for hose with clear width 4 and 6 mm		2072061 °

Hose nozzle



Description	PU	Item No.
M 18 x 1.5 internal thread, with internal cone x tailpipe for hose with clear width 10 mm	50	2075053 °
M 18 x 1.5 internal thread with internal cone x tailpipe for hose with clear width 4 and 6 mm	100	2075061 °
G 3/8 external thread x tailpipe for hose with clear width 10 mm	50	2075153 °
G 3/8 external thread x tailpipe for hose with clear width 4 and 6 mm	50	2075161 °
G 1/8 external thread x tailpipe for hose with clear width 4 and 6 mm	100	2075261 °

Locknut



Description	PU	Item No.
G 1/2 internal thread, for liquid safety device		2076004 °

Flexo-Bloc Tank extraction systems



The **Flexo-Bloc** tank extraction devices combine suction opening with spacer foot, suction hose, tank and pipe connections, backflow preventer and quick shutoff in one device. The **Flexo-Bloc** is also available with a level indicator pipe (for pneumatic tank level indicators), floating suction or tank filling limiter. Pipe connection for supply pipe and partly for return

pipe available. The suction hose is suitable for tank heights up to 2 m and up to 3 m.

The G 3/8 internal thread on the burner side is suitable for OV compression fittings 6, 8, 10 and 12 mm.

Nominal size	DN 10	Shutoff	Yes
Pipe connection	G 3/8 internal	Non-return check valve	Yes
Material	Brass		



Flexo-Bloc

Export models 2053051-2053354:

The export versions comply with German regulations when brass compression fittings are used.

Floating suction	No	PU	10
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Connection tank side	Tank height up to (mm)	Plastic compression fitt.*	Return connection	Compression fitting	Certification	Item No.
G 1 external	2,000	-	Yes	10 and 12 mm (brass)	Ü sign	2052151
G 1 external	3,000	-	Yes	10 and 12 mm (brass)	Ü sign	2052152
G 1 1/2 external	2,000	-	Yes	10 and 12 mm (brass)	Ü sign	2052153
G 1 1/2 external	3,000	-	Yes	10 and 12 mm (brass)	Ü sign	2052154
G 2 external	2,000	8, 10 and 12 mm	Yes	-		2053051
G 2 external	3,000	8, 10 and 12 mm	Yes	-		2053052
G 2 external	2,000	6 and 8 mm	No	-		2053351
G 2 external	3,000	6 and 8 mm	No	-		2053352 °
G 1 external	2,000	6 and 8 mm	No	-		2053353
G 1 external	3,000	6 and 8 mm	No	-		2053354

Flexo-Bloc with tank filling limiter

Tank filling limiter with fitting for wall mounting, cable length approx. 5 m.

Tank height up to	2,000 mm	Compression fitting	10 and 12 mm (brass)
Type	21301	Floating suction	Yes
Probe length	385 mm	PU	5
Return connection	Yes	Certification	Ü sign

Connection tank side	Item No.
G 1 1/2 external	2052351



Flexo-Bloc with floating suction

With floating suction, the permanent heating oil extraction takes place approx. 4 - 6 cm below the oil level. This means that only the cleanest heating oil is extracted.

PU 10

Connection tank side	Tank height up to (mm)	Plastic compression fitt.*	Return connection	Floating suction	Certification	Item No.
G 1 ½ external	2,000	-	No	Yes	Ü sign	2052051
G 1 external	2,000	-	No	Yes	Ü sign	2052053
G 2 external	3,000	8, 10 and 12 mm	Yes	No		2053063 °

Tank extraction



Double ball foot valve

With distance spring (DN 10, DN 15) or distance foot (DN 20, DN 25) and stainless steel balls.

Nominal size	Pipe connection	Material	Non-return check valve	Certification	PU	Item No.
DN 10	Rp 3/8	Brass	Yes	Ü sign	25	2030003 °
DN 15	Rp 1/2	Brass	Yes	Ü sign	25	2030004 °
DN 20	Rp 3/4	Brass	Yes	Ü sign	10	2030006 °
DN 25	Rp 1	Brass	Yes	Ü sign	10	2030008 °



Double ball non-return check valve

With stainless steel balls, for vertical installation.

Nominal size	Pipe connection	Material	Non-return check valve	Certification	Item No.
DN 10	Rp 3/8	Brass	Yes	Ü sign	2031103 °
DN 15	Rp 3/8	Brass	Yes	Ü sign	2031104 °



Non-return ball check valve with manual shutoff

G 3/8 internal thread for Oventrop compression fittings 6, 8, 10 and 12 mm.

Nominal size	DN 10	Non-return check valve	Yes
Connection tank side	G 3/8 internal	PU	10
Material	Brass	Certification	Ü sign
Shutoff	Yes		

Pipe connection	Item No.
G 3/8 internal	2033053 °



Non-return ball check valve with quick shutoff

Including brass compression fittings 10 and 12 mm.

G 3/8 internal thread for Oventrop compression fittings 6, 8, 10 and 12 mm.

Nominal size	DN 10	Compression fitting	10 and 12 mm (brass)
Connection tank side	G 3/8 internal	Non-return check valve	Yes
Material	Brass	PU	10
Shutoff	Yes	Certification	Ü sign

Pipe connection	Item No.
G 3/8 internal	2033151 °

Screw gland, single

For passing copper and steel pipes through the tank.



Pipe connection	Connection tank side	Material	PU	Item No.
6, 8, 10 and 12 mm	R 1	Brass	25	2040050 °
14, 15 mm, steel pipe 1/4	R 1	Brass	50	2040053 °
18 mm, steel pipe 3/8	R 1	Brass	50	2040055 °
22 mm, steel pipe 1/2	R 1	Brass	25	2040056 °
6 mm	R 3/8	Brass	50	2041051 °

Screw gland, double

For supply and return pipe.
The return pipe connection is supplied with brass compression fittings.



Pipe connection	Connection tank side	Material	Return connection	Item No.
8, 10, 12 mm	R 1	Brass	Yes	2040152 °
15 mm	R 1	Brass	Yes	2040154 °

Reducer

Made of anthracite plastic.



Description	Item No.
Consisting of G 2 x G 1 1/2 and G 1 1/2 x G 1	2040090 °

Flexible suction line

With weight, upper connection for cutting ring, lower connection G 3/8 for foot valve.



Pipe connection	Tank height up to (mm)	Item No.
10 mm	1,250	2050051 °
10 mm	1,500	2050052 °
10 mm	1,600	2050053 °
10 mm	1,750	2050054 °
10 mm	2,000	2050055 °
10 mm	2,500	2050056 °

Ripcord



Description	Item No.
For remote operation of quick-acting shutoff valves, with screws, dowels and seal	2052080 °

Conversion set



Description	Certification	Item No.
For converting Flexo-Bloc tank extraction devices to floating suction up to 3 m tank height	Ü sign	2052091



5.1 Products for heating oil installations

Pipeline valves and components for oil heating technology **625**

Oilstop Anti-siphon valves.....	626
Pipeline valves.....	627
Ofix-Oil Compression fittings.....	629
Ofix-Oil Cutting ring compression fittings.....	630
Ofix-Oil Double nipples.....	633
Hose lines according to DIN EN ISO 6806.....	634

Oilstop Anti-siphon valves



Oilstop siphon protection valves or anti-siphon valves are used as safety devices in oil pipes according to DIN 4755 to prevent the contents of the tank from leaking.

Siphon protection valves must be installed in

the suction line above the maximum permissible tank level before it reaches a lower level. Both valves have a general type approval (AbZ) and are pressure balanced in the direction of the tank.



Oilstop Diaphragm anti-siphon valve

AbZ (general type approval) no.: Z-65.50-305,
G $\frac{3}{8}$ internal thread for Oventrop compression fittings 6, 8, 10 and 12 mm, protection heights infinitely adjustable from 1 m to 4 m, lead sealable, venting function for initial operation, with shutoff facility, permissible ambient temperature -25 °C to +60 °C, max. oil flow rate 200 l/h.

Description

Oilstop V Diaphragm anti-siphon valve

Item No.

2104203



Oilstop MV Solenoid valve

AbZ (general type approval) no.: Z-65.50-456,
G $\frac{3}{8}$ internal thread, safety height up to 3 m, "normally closed" (NC), ~230 V, 50 Hz, protection category IP 65, max. oil flow rate 100 l/h.

Description

Oilstop MV Solenoid valve

Item No.

2104553

Pipeline valves



Olex Pressure compensation device

Used in oil pipes in which there may be a heat-induced oil volume increase and thus a pressure increase in the pipe.

Description	Certification	Item No.
Both sides G 3/8 internal thread for Oventrop compression fittings 6, 8, 10 and 12 mm	Ü sign	2107003 °



Insulating fitting

For protection against harmful effects of galvanic currents, cutting ring compression fitting on both sides (steel, galvanised). Cutting rings made of brass. For suction operation. TÜV-tested, according to TRbF 521/6.51-2.

Description	Item No.
6 x 6 mm	2080851 °
8 x 8 mm	2080852 °
10 x 10 mm	2080853 °
12 x 12 mm	2080854 °
15 x 15 mm	2080855 °
18 x 18 mm	2080856 °



Shutoff valve

Straight needle valve made of brass, for pipework PN 16. For use with mineral, heating and hydraulic oils as well as air PN 6.

Nominal size	Item No.
G 1/4	2091002

Quick-acting shutoff valve

For quick shutoff (quarter turn operation).

Made of brass, according to DIN EN 12514-2 and DIN 4817-1, PN 16, with cutting ring compression fitting according to DIN 2353, union nut made of galvanised steel, cutting ring made of brass.



Description	Item No.
6 x 6 mm	2100051 °
8 x 8 mm	2100052 °
10 x 10 mm	2100053 °
12 x 12 mm	2100054 °
15 x 15 mm	2100055 °

Change-over valve



Made of brass (quick acting version), according to DIN EN 12514-2, PN 6, with cutting ring compressing fitting according to DIN 2353 made of galvanised steel, cutting ring made of brass.

Description	Item No.
6 x 6 x 6 mm	2102051 °
8 x 8 x 8 mm	2102052 °
10 x 10 x 10 mm	2102053 °
12 x 12 x 12 mm	2102054 °

Double change-over valve



Double change-over valve (with forced change-over) for the connection of two storage tanks in two pipe operation to one point of consumption. By flipping the lever, the supply and return pipe of one tank is shut off and the supply and return pipe of the other tank is released. Also resistant to fuels and combustibles with "alternative additives" or a bio proportion of up to 20 %, e.g. heating oils according to DIN SPEC 51603-6.

Temperature range: 0 °C up to 60 °C
Pressure range: -0.6 bar up to 10 bar

Description	Item No.
Ball valve design, brass, connections G 3/8 internal thread (6 x)	2103260

Ofix-Oil Compression fittings

Ofix-Oil Connection set 2-fold

Made of brass, for Oilpur two pipe heating oil filters, Flexo-Bloc (two pipe), diaphragm anti-siphon valves and pressure compensation devices of size DN 10. Support sleeves must be used for copper pipes.



Set consisting of two compression fittings.

		Item No.
G 3/8	Clamping connection 6 mm	2127050
G 3/8	Clamping connection 8 mm	2127051
G 3/8	Clamping connection 10 mm	2127052
G 3/8	Clamping connection 12 mm	2127053

Ofix-Oil Connection set 1-fold

Made of brass, for Oilpur one pipe heating oil filters, Oilpur one pipe heating oil filters with return flow feed, Toc-Duo and Flexo-Bloc (one pipe) of size DN 10. Support sleeves must be used for copper pipes.



Set consisting of one compression fitting.

		Item No.
G 3/8	Clamping connection 6 mm	2127650 °
G 3/8	Clamping connection 8 mm	2127651 °
G 3/8	Clamping connection 10 mm	2127652 °
G 3/8	Clamping connection 12 mm	2127653 °

Ofix-Oil Clamping ring

Item no. 2127151 and 2127152 with intermediate ring.



		Item No.
Clamping ring 6 mm		2127150 °
Clamping ring 8 mm		2127151 °
Clamping ring 10 mm		2127152 °
Clamping ring 12 mm		2127153 °

Ofix-Oil Pressure screw



		PU	Item No.
Clamping ring 6 mm		50	2127250 °
Clamping ring 8 mm		50	2127251 °
Clamping ring 10/12 mm		10	2127253 °

Ofix-Oil Cutting ring compression fittings

Ofix-Oil Straight screw-in fitting

Made of steel, galvanised with brass cutting ring. DIN 2353 series L.
 Support sleeves must be used for copper pipes.



		PU	Item No.
R 1/8	Cutting ring connection 6 mm	25	2083051 °
R 1/4	Cutting ring connection 6 mm	25	2083052 °
R 3/8	Cutting ring connection 8 mm	25	2083053
R 3/8	Cutting ring connection 10 mm	25	2083054
R 3/8	Cutting ring connection 12 mm	25	2083055
R 1/2	Cutting ring connection 10 mm	25	2083056 °
R 1/2	Cutting ring connection 12 mm	25	2083057 °
R 1/2	Cutting ring connection 15 mm	10	2083058 °
R 3/8	Cutting ring connection 6 mm	25	2083060
R 1/4	Cutting ring connection 6 mm	25	2083061 °
R 1/4	Cutting ring connection 10 mm	25	2083063 °

Ofix-Oil Straight screw-in fitting, flat sealing

Screw-in fitting and cutting ring made of brass, union nut made of steel, galvanised. DIN 2353 series L. Support sleeves must be used for copper pipe.



		PU	Item No.
G 3/8	Cutting ring connection 6 mm		2083074 °
G 3/8	Cutting ring connection 8 mm		2083075 °
G 3/8	Cutting ring connection 10 mm		2083076 °

Ofix-Oil Straight fitting

Made of steel, galvanised with brass cutting ring. DIN 2353 series L.
 Support sleeves must be used for copper pipes.



		PU	Item No.
Cutting ring connection 6 mm	Cutting ring connection 6 mm	25	2083251 °
Cutting ring connection 8 mm	Cutting ring connection 8 mm	25	2083252 °
Cutting ring connection 10 mm	Cutting ring connection 10 mm	25	2083253 °
Cutting ring connection 12 mm	Cutting ring connection 12 mm	25	2083254 °
Cutting ring connection 15 mm	Cutting ring connection 15 mm	10	2083255 °

Ofix-Oil Straight fitting, reduced

Made of steel, galvanised with brass cutting ring. DIN 2353 series L.
Support sleeves must be used for copper pipes.



		Item No.
Cutting ring connection 8 mm	Cutting ring connection 6 mm	2083350 °
Cutting ring connection 10 mm	Cutting ring connection 8 mm	2083351 °
Cutting ring connection 12 mm	Cutting ring connection 10 mm	2083353 °

Ofix-Oil Elbow fitting

Made of steel, galvanised with brass cutting ring. DIN 2353 series L.
Support sleeves must be used for copper pipes.



		PU	Item No.
Cutting ring connection 6 mm	Cutting ring connection 6 mm	25	2083451 °
Cutting ring connection 8 mm	Cutting ring connection 8 mm	25	2083452 °
Cutting ring connection 10 mm	Cutting ring connection 10 mm	25	2083453 °
Cutting ring connection 12 mm	Cutting ring connection 12 mm	25	2083454 °
Cutting ring connection 15 mm	Cutting ring connection 15 mm	10	2083455 °

Ofix-Oil T-fitting

Made of steel, galvanised with brass cutting ring. DIN 2353 series L.
Support sleeves must be used for copper pipes.



			Item No.
Cutting ring connection 6 mm	Cutting ring connection 6 mm	Cutting ring connection 6 mm	2083551 °
Cutting ring connection 8 mm	Cutting ring connection 8 mm	Cutting ring connection 8 mm	2083552 °
Cutting ring connection 10 mm	Cutting ring connection 10 mm	Cutting ring connection 10 mm	2083553 °
Cutting ring connection 12 mm	Cutting ring connection 12 mm	Cutting ring connection 12 mm	2083554 °

Ofix-Oil Union nut

Made of steel, galvanised.



		PU	Item No.
Cutting ring connection 6 mm		50	2083751 °
Cutting ring connection 8 mm		50	2083752 °
Cutting ring connection 10 mm		50	2083753 °
Cutting ring connection 12 mm		50	2083754 °
Cutting ring connection 15 mm		25	2083755 °
Cutting ring connection 18 mm		25	2083756 °



5.1



Ofix-Oil Cutting ring

Made of brass.

	PU	Item No.
Cutting ring connection 6 mm	50	2083851 °
Cutting ring connection 8 mm	50	2083852 °
Cutting ring connection 10 mm	50	2083853 °
Cutting ring connection 12 mm	50	2083854 °
Cutting ring connection 15 mm	25	2083855 °
Cutting ring connection 18 mm	25	2083856 °

Ofix-Oil Brass support sleeve

Are required for laying of soft pipes with 1 mm wall thickness. Dimensions refer to outer pipe diameter.



Description	PU	Item No.
10 mm	100	1029651
12 mm	100	1029652
15 mm	50	1029654
18 mm	50	1029656
6 mm	100	2083951
8 mm	100	2083952

Ofix-Oil Double nipples

Ofix-Oil Double nipple with internal cone on both sides

Made of brass, for connecting hose/hose



		Item No.
G 1/4	G 3/8	2080050
G 3/8	G 3/8	2080051
G 1/2	G 1/2	2080052 °
G 3/8	G 1/2	2080053 °

Ofix-Oil Double nipple with one internal cone

Made of brass for connecting hose/burner or fitting.



		Item No.
G 1/4	R 3/8	2080151 °
G 3/8	NPT 1/8	2080251 °
G 3/8	NPT 1/4	2080252 °
G 3/8	G 1/8	2080253 °
G 3/8	G 1/4	2080254
G 1/2	NPT 1/4	2080255 °
G 1/4	G 1/4	2080351
G 3/8	R 3/8	2080352
G 3/8	R 1/2	2080353 °
G 1/2	R 1/2	2080354

Ofix-Oil Double nipple as elbow

Made of brass, with an internal cone on the G 3/8 thread for connecting hose/burner or fitting.



		Item No.
G 3/8	NPT 1/4	2080451 °
G 3/8	R 3/8	2080452 °

Hose lines according to DIN EN ISO 6806



Up to a max. of 70 °C, the hose lines are also suitable for fuels and combustibles with "alternative additives" or a bio proportion of up to 20 % according to DIN SPEC 51603-6.

For higher bio proportions or temperatures up to 100 °C, burner hoses with a diffusion tight

inner layer should be used, for example.

Hose lines with galvanised wire braiding PN 10. Flexible hose lines as connection between a solid pipeline (e.g. from the filter) and the burner or feeder unit.

Hose line, both sides G 3/8 union nut

With sealing cone.



NI*	Hose length (mm)	Item No.
8	500	2110051 °
8	750	2110052 °
8	1,000	2110053
8	1,250	2110054 °
8	1,500	2110055

Hose line, both sides G 1/2 union nut

With sealing cone.



NI*	Hose length (mm)	Item No.
12.5	750	2110056 °
12.5	1,000	2110057 °
12.5	1,250	2110058 °
12.5	1,500	2110059 °

Hose line, both sides G 3/8 union nut and sealing cone, one side straight, other side with 90° elbow



NI*	Hose length (mm)	Item No.
8	500	2110071 °
8	750	2110072 °
8	1,000	2110073 °

Hose line, one side G 3/8 external thread, one side G 3/8 union nut

With sealing cone.



NI*	Hose length (mm)	Item No.
8	500	2110151 °
8	750	2110152 °
8	1,000	2110153 °
8	1,250	2110154 °
8	1,500	2110155 °

Hose line, one side 1/4 NPT external thread, one side G 3/8 union nut

With sealing cone.



NI*	Hose length (mm)	Item No.
8	500	2110251 °
8	750	2110252 °
8	1,000	2110253 °
8	1,250	2110254 °
8	1,500	2110255 °

Hose line, one side G 1/4 external thread, one side G 3/8 union nut

With sealing cone.



NI*	Hose length (mm)	Item No.
8	300	2110350 °
8	500	2110351 °
8	750	2110352 °
8	1,000	2110353 °
8	1,250	2110354 °
8	1,500	2110355 °

Hose line, both sides steel pipe socket for cutting ring connection



NI*	Steel pipe socket	Hose length (mm)	Item No.
8	8 x 8 mm	300	2110551 °
8	8 x 8 mm	500	2110552 °
8	8 x 8 mm	750	2110553 °
8	8 x 8 mm	1,000	2110554 °
10	10 x 10 mm	300	2110555 °
10	10 x 10 mm	500	2110556 °
10	10 x 10 mm	750	2110557 °
10	10 x 10 mm	1,000	2110558 °
10	12 x 12 mm	300	2110559 °
10	12 x 12 mm	500	2110560 °
10	12 x 12 mm	750	2110561 °
10	12 x 12 mm	1,000	2110562 °

Hose line, one side G ¼ external thread, one side G ¾ union nut

With sealing ring.

Hose line for connecting a heating oil deaerator to a pre-installed heating oil filter.



NI*	Hose length (mm)	Item No.
8	300	2162993 °

Hose line set

Set = 2 pieces

Both sides G ¾ union nut with sealing cone.

Hoses with an additional diffusion tight inner layer are resistant to EL heating oil and bio heating oils up to 100 °C.



NI*	Hose length (mm)	Item No.
6.3	500	2111051 °
6.3	750	2111052 °
6.3	1,000	2111053 °
6.3	1,500	2111055 °



5.1 Products for heating oil installations

Sets **637**

Heating oil kits for export..... 638



Heating oil kits for export



Oil tank installation kit for installation of a two pipe system

Consisting of:

Flexo-Bloc Tank extraction device G 2 x 2000 mm with compression fittings 8, 10 and 12 mm
Item no. 2053051

Oilpur Heating oil filter, both sides internal thread G 3/8, with stainless steel filter insert
Item no. 2120103

Ofix-Oil Compression fittings 8, 10 and 12 mm, for connection of the heating oil filter to the tank side
Item no. 2127500

Coupling DN 50 with internal thread G 2
(in accordance with French standard NF E 29-572, system Guillemin, see also EN 14420-8)
Item no. 2010616

Cap DN 50 (in accordance with French standard NF E 29-572, system Guillemin, see also EN 14420-8)
Item no. 2010716

Double nipple G 2
Item no. 2080360

Vent cap G 1 1/4
Item no. 2020110

Description

Completely packed in carton

Item No.

2064351 °



Oil tank installation kit for installation of a two pipe system with plastic tank

Consisting of:

Flexo-Bloc Tank extraction device G 2 x 2000 mm with compression fittings 8, 10 and 12 mm
Item no. 2053051

Oilpur Heating oil filter, both sides internal thread G 3/8, with stainless steel filter insert
Item no. 2120103

Ofix-Oil Compression fittings 8, 10 and 12 mm, for connection of the heating oil filter to the tank side
Art.-Nr. 2127500

Vent cap G 1 1/4
Item no. 2020110

Description

Completely packed in plastic case

Completely packed in carton

PU

56

72

Item No.

2064051 °

2065351 °



Heating oil filter kit for two pipe systems

Consisting of:

Oilpur Heating oil filter, both sides internal thread G 3/8, with stainless steel filter insert
Item no. 2120103

Ofix-Oil Compression fittings 8, 10 and 12 mm
Item no. 2127500

Description

Completely packed in carton

Item No.

2120153

Heating oil filter kit for one pipe systems with return flow feed



Consisting of:
Oilpur Heating oil filter, both sides internal thread G 3/8, with stainless steel filter insert
Item no. 2122103

Ofix-Oil Compression fittings 8, 10 and 12 mm
Item no. 2127700

Description	Item No.
Completely packed in carton	2122153

Heating oil filter kit for one pipe systems (without return flow feed)



Consisting of:
Oilpur Heating oil filter, both sides internal thread G 3/8, with stainless steel filter insert
Art.-Nr. 2123103

Ofix-Oil Compression fittings 8, 10 and 12 mm
Item no. 2127700

Description	Item No.
Completely packed in carton	2123153

Ofix-Oil Compression fittings for export

Plastic compression rings for metal pipes, brass pressure screw. For Oilpur heating oil filters G 3/8, Flexo Bloc and Toc-Duo-3. Not permitted in Germany.



Description	Item No.
2-fold, for pipes 8, 10 and 12 mm	2127500
1-fold, for pipes 8, 10 and 12 mm	2127700



5.2 Solar thermal energy

Regusol Stations **641**

Regusol PH Pump circuits.....	642
Regusol SH Stations.....	643
Regusol LH Stations with vent pot.....	645
Regusol ELH Stations with electronic controller and vent pot.....	647
Regusol X Stations with heat exchanger.....	649
Regusol Accessories and spare parts.....	651

Regtronic Electronic controllers **658**

Regtronic Electronic controllers.....	659
Regtronic Accessories and spare parts.....	661

Solar Diaphragm expansion tanks **663**

Solar Diaphragm expansion tanks.....	664
Solar In-line tanks.....	665
Solar Diaphragm expansion tanks Accessories and spare parts...	666

OV-Flex ST Pipes and connectors **667**

OV-Flex ST Pipes.....	668
OV-Flex ST Accessories and spare parts.....	669

OKP Tube collectors **670**

OKP Tube collectors.....	671
OKP Accessories and spare parts.....	672

OKF Flat-plate collectors **675**

OKF-CK22 Flat-plate collectors.....	676
OKF-CS22 Flat-plate collectors.....	677
OKF-MQ25 Flat-plate collectors.....	678
OKF Accessories and spare parts.....	679

Solcos Solar packages **683**

Solcos Solar packages with tube collectors.....	684
Solcos Solar packages with flat-plate collectors.....	685



5.2 Solar thermal energy

Regusol Stations	641
Regusol PH Pump circuits.....	642
Regusol SH Stations.....	643
Regusol LH Stations with vent pot.....	645
Regusol ELH Stations with electronic controller and vent pot.....	647
Regusol X Stations with heat exchanger.....	649
Regusol Accessories and spare parts.....	651

Regusol PH Pump circuits



For the connection of a solar circuit. The pump circuits enable the solar circuit to be shut off on the return side and prevent self-circulation via an integrated check valve when the pump is switched off.

The pump circuits consist of a high-efficiency pump, a ball valve with integrated check valve and thermometer in the return, a safety group with safety valve, pressure gauge, fill and drain ball valve and connection possibility of an ex-

pansion tank, a flow measuring and regulating device with shutoff and fill and drain ball valve, a wall mounting device and a thermal insulation.

The Regusol pump circuits are characterised by a time and space saving installation. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials.

Version	One pipe	Safety valve	Yes
Nominal size	DN 25	Pressure gauge	Yes
Connection solar circuit	G 1 external thread for Regusol compression fittings	Venting	No
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Volume flow sensor	No
Connection expansion tank	G 3/4 external thread flat sealing	Flow rate indicator	Yes
Width	150 mm	Measuring range*	2 up to 15 l/min
Height	188 mm	Fill and drain ball valve	Yes
Thermal insulation	Yes	Electronic controller	No
Wall bracket	Yes	Retrofitting controller location	No
Dial thermometer	Yes	Max. operating temperature	120 °C
Check valve	Yes	Short-term starting temperature	160 °C
		Max. operating pressure	6 bar

Regusol PH-130 DN 25



Pump length	130 mm	Length	375 mm
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Pump type

Wilo PARA ST 25-130/7-50/iPWM

Item No.

1362063

Regusol PH-180 DN 25



Pump length	180 mm	Length	425 mm
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Pump type

Grundfos UPM3 Solar 25-75 PWM

Item No.

1368163

Regusol SH Stations



For the connection of a solar circuit. The stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off.

The stations consist of a high-efficiency pump, ball valves with integrated check valves and thermometers in the supply and return, a safety group with safety valve, pressure gauge, fill and drain ball valve and connection possi-

bility of an expansion tank, a flow measuring and regulating device with shutoff and fill and drain ball valve, a wall mounting device and a thermal insulation.

The Regusol pump circuits are characterised by a time and space saving installation. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials.

Connection expansion tank	G ¾ external thread flat sealing	Venting	No
Thermal insulation	Yes	Volume flow sensor	No
Wall bracket	Yes	Flow rate indicator	Yes
Dial thermometer	Yes	Electronic controller	No
Check valve	Yes	Max. operating temperature	120 °C
Safety valve	Yes	Short-term starting temperature	160 °C
Pressure gauge	Yes	Max. operating pressure	6 bar

Regusol SH-130 DN 20



Version	One pipe	Width	200 mm
Nominal size	DN 20	Height	145 mm
Connection solar circuit	G ¾ external thread with Eurocone	Centre distance	100 mm
Connection storage cylinder	G ¾ external thread with Eurocone	Measuring range*	2 up to 14 l/min
Pump length	130 mm	Fill and drain ball valve	Yes
Length	365 mm	Retrofitting controller location	No

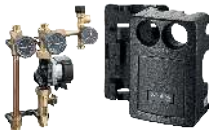
Pump type

Grundfos UPM3 Solar 15-75 PWM

Item No.

1360033

Regusol SH-130 DN 25



Version	Two pipe	Height	195 mm
Nominal size	DN 25	Centre distance	100 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Measuring range*	2 up to 15 l/min
Connection storage cylinder	G 1 external thread for Regusol compression fittings	Fill and drain ball valve	Yes
Pump length	130 mm	Retrofitting controller location	Yes
Length	375 mm	PU	30
Width	250 mm		

Pump type

Grundfos UPM3 Solar 25-75 PWM

Item No.

1360063

Regusol SH-180 DN 25



Version	Two pipe	Width	250 mm
Nominal size	DN 25	Height	195 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Centre distance	100 mm
Connection storage cylinder	G 1 external thread for Regusol compression fittings	Measuring range*	2 up to 15 l/min
Pump length	180 mm	Fill and drain ball valve	Yes
Length	425 mm	Retrofitting controller location	Yes

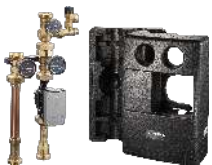
Pump type

Grundfos UPM3 Solar 25-75 PWM

Item No.

1368064

Regusol SH-180 DN 32



Version	Two pipe	Width	350 mm
Nominal size	DN 32	Height	221 mm
Connection solar circuit	G 2 external thread, flat sealing	Centre distance	125 mm
Connection storage cylinder	G 2 external thread, flat sealing	Measuring range*	10 up to 40 l/min
Pump length	180 mm	Fill and drain ball valve	No
Length	530 mm	Retrofitting controller location	No

Pump type

Wilo Stratos PARA 30/1-9

Item No.

1368251

Regusol LH Stations with vent pot



For the connection of a solar circuit. The stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. A vent pot enables the degassing of the heat transfer medium in the supply pipe.

The stations consist of a high-efficiency pump, ball valves with integrated check valves and thermometers in the supply and return, a safety group with safety valve, pressure gauge,

fill and drain ball valve and connection possibility of an expansion tank, a flow measuring and regulating device with shutoff and fill and drain ball valve, a vent pot, a wall mounting device and a thermal insulation.

The Regusol pump circuits are characterised by a time and space saving installation. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials.

Version	Two pipe	Pressure gauge	Yes
Connection expansion tank	G 3/4 external thread flat sealing	Venting	Yes
Centre distance	100 mm	Volume flow sensor	No
Thermal insulation	Yes	Flow rate indicator	Yes
Wall bracket	Yes	Fill and drain ball valve	Yes
Dial thermometer	Yes	Electronic controller	No
Check valve	Yes	Max. operating temperature	120 °C
Safety valve	Yes	Short-term starting temperature	160 °C

Regusol LH-130 DN 20



Nominal size	DN 20	Height	145 mm
Connection solar circuit	G 3/4 external thread with Eurocone	Measuring range*	2 up to 14 l/min
Connection storage cylinder	G 3/4 external thread with Eurocone	Retrofitting controller location	No
Pump length	130 mm	Max. operating pressure	6 bar
Length	365 mm	PU	30
Width	200 mm		

Pump type

Grundfos UPM3 Solar 15-75 PWM

Item No.

1360573

Regusol LH-130 DN 25



Nominal size	DN 25	Width	250 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Height	195 mm
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Retrofitting controller location	Yes
Pump length	130 mm	Max. operating pressure	6 bar
Length	375 mm		

Pump type	Measuring range* (l/min)	PU	Item No.
Grundfos UPM3 Solar 25-75 PWM	2 up to 15	30	1360556
Wilo PARA ST 25-130/7-50/iPWM	2 up to 15	30	1360557
Wilo PARA ST 25-130/8-75/iPWM	7 up to 30		1360558

Regusol LH-180 DN 25



Nominal size	DN 25	Width	250 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Height	195 mm
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Retrofitting controller location	Yes
Pump length	180 mm	PU	20
Length	425 mm		

Pump type	Measuring range* (l/min)	Max. operating pressure (bar)	Item No.
Wilo PARA ST 25-180/7-50/iPWM	2 up to 15	6	1360851
Wilo PARA ST 25-180/8-75/iPWM	7 up to 30	6	1360852
Grundfos UPM3 Solar 25-75 PWM	2 up to 15	6	1360853
Wilo PARA ST 25-180/7-50/iPWM	2 up to 15	10	1360854

Regusol ELH Stations with electronic controller and vent pot



For the connection of a solar circuit. The stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. A vent pot enables the degassing of the heat transfer medium in the supply pipe. The integrated electronic controller takes over the control and monitoring of the solar thermal system.

The stations consist of a high-efficiency pump, ball valves with integrated check valves and thermometers in the supply and return, a safe-

ty group with safety valve, pressure gauge, fill and drain ball valve and connection possibility of an expansion tank, a flow measuring and regulating device with shutoff and fill and drain ball valve, a vent pot, an electronic controller, a wall mounting device and a thermal insulation.

The Regusol pump circuits are characterised by a time and space saving installation. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials.

Version	Two pipe	Wall bracket	Yes
Nominal size	DN 25	Dial thermometer	Yes
Connection solar circuit	G 1 external thread for Regusol compression fittings	Check valve	Yes
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Safety valve	Yes
Connection expansion tank	G 3/4 external thread flat sealing	Pressure gauge	Yes
Width	250 mm	Venting	Yes
Height	195 mm	Fill and drain ball valve	Yes
Centre distance	100 mm	Electronic controller	Yes
Thermal insulation	Yes	Max. operating temperature	120 °C
		Short-term starting temperature	160 °C

Regusol ELH-130-RC DN 25

With Regtronic RC electronic controller.



Pump length	130 mm	Measuring range*	2 up to 15 l/min
Length	375 mm	Max. operating pressure	6 bar
Volume flow sensor	No	PU	30
Flow rate indicator	Yes		

Pump type

Wilo PARA ST 25-130/8-75/iPWM

Item No.

1366597

Regusol ELH-130-RC-P DN 25

With Regtronic RC-P electronic controller.



Pump length	130 mm	Flow rate indicator	No
Length	375 mm	Measuring range*	2 up to 40 l/min
Volume flow sensor	Vortex	Max. operating pressure	6 bar

Pump type

Wilo PARA ST 25-130/8-75/iPWM

Item No.

1360394

Regusol ELH-180-RC DN 25

With Regronic RC electronic controller.



Pump length	180 mm	Flow rate indicator	Yes
Length	425 mm	Measuring range*	2 up to 15 l/min
Volume flow sensor	No		

Pump type	Max. operating pressure (bar)	Item No.
Wilo PARA ST 25-180/7-50/iPWM	6	1360862
Wilo PARA ST 25-180/7-50/iPWM	10	1360864

Regusol X Stations with heat exchanger



The Regusol X stations with heat exchanger enable a controlled transfer of thermal energy from a solar circuit (primary circuit) to a storage cylinder circuit (secondary circuit). The stations enable the solar circuit to be shut off on the supply and return side and prevent self-circulation via integrated check valves when the pump is switched off. The integrated electronic controller takes over the control and monitoring of the solar thermal system.

The primary circuit consists of a high-efficiency pump, ball valves with integrated check valves and thermometers in the supply and return, a safety group with safety valve, pressure gauge, fill and drain ball valve and connection possibility of an expansion tank, connections for filling, flushing and draining and an elec-

tronic volume flow sensor. The secondary side consists of a high-efficiency pump, ball valves with integrated thermometers in the supply and return, a check valve, a safety valve, a vent valve and a connection for filling, flushing and draining. The circuits are separated by a plate heat exchanger. The station has an integrated electronic controller, a wall mounting device and a thermal insulation.

The Regusol X stations are ideal for buffer storage cylinders without direct solar connection. They are characterised by a time and space saving installation. A high degree of functional reliability is ensured by maintenance-free components and high-quality materials.

Heat exchanger	Copper brazed	Dial thermometer	Yes
Connection solar circuit	G 1 external thread for Regusol compression fittings	Check valve	Yes
		Safety valve	Yes
Connection storage cylinder circuit	G 1 external thread, flat sealing	Pressure gauge	Yes
		Venting	Yes
Connection expansion tank	G 3/4 external thread flat sealing	Volume flow sensor	Vortex
Pump length	130 mm	Flow rate indicator	No
Length	860 mm	Fill and drain ball valve	Yes
Width	500 mm	Electronic controller	Yes
Height	265 mm	Max. operating temperature	120 °C
Thermal insulation	Yes	Short-term starting temperature	160 °C
Wall bracket	Yes		

Regusol X-Uno 25 with one storage cylinder circuit connection



Pump type

Wilo PARA ST 15-130/7-50/iPWM2-6 (collector circuit)
Wilo PARA 15-130/7-50/iPWM2-9 (storage cylinder circuit)

Item No.

1361060

Regusol X-Duo with two storage cylinder circuit connections



PU _____ 3

Pump type

Wilo PARA ST 15-130/7-50/iPWM2-6 (collector circuit)
Wilo PARA 15-130/7-50/iPWM2-9 (storage cylinder circuit)

Item No.

1361050

Regusol Accessories and spare parts



Regusol X Supplementary set

For the extension of a Regusol X station to enable different collector fields (e.g. east-west) to be interconnected and controlled.

Description	Item No.
For Regusol X, with high-efficiency pump	1361092



Hydrocontrol STR Double regulating and commissioning valve

For hydronic balancing of collector fields.
No shutoff option and thus minimum flow rate guaranteed.

Description	Item No.
DN 20, LF, PN 25	1369050
DN 20, MF, PN 25	1369055



Regusol Compression fitting

For connecting the solar circuit to Regusol components and Regusol stations DN 20.

Description	Item No.
For copper and precision steel pipe, DN 20, G 3/4 union nut, 12 mm, 4-fold	1367393
For copper and precision steel pipe, DN 20, G 3/4 union nut, 15 mm, 4-fold	1367395
For copper and precision steel pipe, DN 20, G 3/4 union nut, 16 mm, 4-fold	1367396
For copper and precision steel pipe, DN 20, G 3/4 union nut, 18 mm, 4-fold	1367397



Regusol Compression fitting with support sleeve

For connecting the solar circuit to Regusol components and Regusol stations DN 25.

Description	Item No.
For copper and precision steel pipe, DN 25, G 1 union nut, 12 mm, 2-fold	1367583
For copper and precision steel pipe, DN 25, G 1 union nut, 15 mm, 2-fold	1367585
For copper and precision steel pipe, DN 25, G 1 union nut, 16 mm, 2-fold	1367586
For copper and precision steel pipe, DN 25, G 1 union nut, 18 mm, 2-fold	1367587
For copper and precision steel pipe, DN 25, G 1 union nut, 22 mm, 2-fold	1367589

Brass support sleeve

For laying of soft pipes with 1 mm wall thickness.
Dimensions refer to outer pipe diameter.



Description	PU	Item No.
12 mm	100	1029652
15 mm	50	1029654
16 mm	50	1029655
18 mm	50	1029656
22 mm	50	1029657

Tailpipe set DN 20

For connection to Regumaq X-30/XZ-30 and Regusol X.



Description	Item No.
Solder tailpipe 22 mm, 3-fold, DN 20	1367465 °
Externally threaded tailpipe R 3/4, 3-fold, DN 20	1367468 °

Tailpipe set DN 32

For connection to Regusol SH-180 DN 32.



Description	Item No.
Threaded tailpipe set Rp 1 1/4, G 2 union nut, 2-fold	1350476
Threaded tailpipe set Rp 1 1/4, G 2 union nut, 4-fold	1350477 °

Regusol Connection nipple

For the connection of collector pipes, 2 x G 1 with cone



Description	Item No.
For the connection of collector pipes, 2 x G 1 with cone	1369089

Locking shackle

For Regusol stations in connection with flexible pipe



Description	Item No.
For Regusol stations in connection with flexible pipe	1369090

Regusol Connection set



Description

For Regusol stations DN 15 in connection with flexible pipe, DN 25 G 1 union nut and tailpipe G 3/4 external thread

Item No.

1369085

Flat sealing insert

For changing a conical connection into a flat sealing connection.



Description

For Regusol stations DN 20
For Regusol stations DN 25

Item No.

1369086
1659990

Check valve

To prevent gravity circulation when the pump is switched off.
Opening pressure 20 mbar, continuous operating temperature 120 °C, short-term starting temperature 160 °C.



Description

G 1 x G 1 union nut

Item No.

1364199

Flow Stop Solar check valve

To prevent gravity circulation when the pump is switched off.
Opening pressure 20 mbar, continuous operating temperature 120 °C, short-term starting temperature 160 °C.



Description

G 1 x G 1, for Regusol compression fittings

Item No.

1364186

Regusol SB Safety block

T-piece with safety valve for additional protection of the solar circuit against overpressure.
For installation in the solar return between storage cylinder and solar station.



Description

With safety valve 6 bar

Item No.

1364140 °

Regusol Fill and flush device



Description

With lateral connection for filling and flushing pipes G 3/4, G 1 external thread x G 1 external thread

Item No.

1363051

Regusol Refill pump



Description

With hose connection and ball valves on the suction and pressure side

Item No.

1364250

Regusol Flush and fill station

For flushing and filling solar thermal systems and heating systems.



Description

With connection hose and fill and drain cock, pump capacity: 1000 W (230 V, 50 Hz), delivery head: 42 m, flow rate: 5-47 l/min, medium: water, water-glycol mixtures

Item No.

1364240 °

Heat transfer liquid

Ready-to-use, evaporation-proof special heat transfer liquid for solar systems based on 1.2 propylene glycol, specially designed for use as a heat transfer medium in solar systems with high thermal loads. The heat transfer liquid provides long-lasting and reliable protection against corrosion with frost resistance down to -28 °C.



Description

Canister content: 10 l

Canister content: 25 l

PU

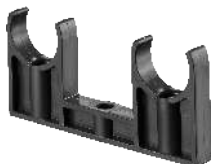
Item No.

1361690 °

24

1361691 °

Replacement wall bracket



Description

For Regusol-130/180

For Regusol PH

Item No.

1369080

1369081



Replacement Regusol SG Safety group

Description	Item No.
For Regusol stations (manufactured from 2015), with safety valve 6 bar	1364192
For Regusol stations (manufactured until 2015), with safety valve 10 bar	1364247



Replacement flow measuring and regulating device

Description	Item No.
For Regusol stations, 2-15 l/min, G 1 1/2 union nut x G 1 for Regusol compression fittings	1364161
For Regusol stations, 7-30 l/min, G 1 1/2 union nut x G 1 for Regusol compression fittings	1364162
For Regusol stations, 2-14 l/min, G 1 union nut x G 3/4 for Regusol compression fittings	1364163



Replacement volume flow sensor VFS

Description	Item No.
For Regusol ELH-RC-P, with connecting cable, 2-40 l/min	1364170



Replacement volume flow sensor VFD

Description	Item No.
For Regusol X with Regtronic RX, with connecting cable, 2-40 l/min	1369092



Replacement Regusol Venting circuit

With ball valve with integrated check valve, thermometer and vent pot.

Description	Item No.
For Regusol-130 DN 25 (manufactured until 2015)	1364190
For Regusol-130 DN 25 (manufactured from 2015)	1364193
For Regusol-180 DN 25 (manufactured from 2015)	1364194



Replacement Regusol Vent pot

For separate connection to the collector supply.

Description	Item No.
Both sides G 1 for Regusol compression fittings	1364260



Replacement Regusol Pump ball valve

With check valve 20 mbar opening pressure and connection option for Regusol safety group.

Description	Item No.
For Regusol stations DN 25 (manufactured from 2015)	1364187
For Regusol stations DN 25 (manufactured until 2015)	1364198



Replacement thermometer

Description	Item No.
For Regumat and Regusol stations DN 20, blue	1351701
For Regumat and Regusol stations DN 20, red	1351702
For Regusol stations (manufactured from 2015), red	1364188
For Regusol stations (manufactured from 2015), blue	1364189
For Regusol stations (manufactured until 2015)	1364195



Replacement pressure gauge

Description	Item No.
For Regusol stations, display range 0 - 10 bar	1364196



Replacement high-efficiency pump 130 mm with connection thread G 1

Description	Item No.
For Regusol X primary circuit, Wilo PARA ST 15-130/7-50/iPWM2-6	1369010
For Regumaq X-30/XZ-30 primary circuit and Regusol X secondary circuit, Wilo PARA 15-130/7-50/iPWM2-9	1389010

Replacement high-efficiency pump 130 mm with connection thread G 1 ½



Description	Item No.
For Regusol-130 DN 25, Grundfos UPM 3 Solar 25-75 PWM C 130	1360589
For Regusol-130 DN 25, Wilo PARA ST 25-130/7-50/iPWM2-9	1360590

Replacement high-efficiency pump with connection thread G 1 ½



Description	Item No.
For Regusol-180 DN 25, Grundfos UPM 3 Solar 25-75 PWM C 180	1367259
For Regusol-180 DN 25, Wilo PARA ST 25-180/7-50/iPWM2-9	1367260

Replacement power supply cable



Description	Item No.
For Grundfos UPM 3 high-efficiency pump, cable length 2 m	1358149
For Wilo-Yonos PARA high-efficiency pump, with right-angle plug	1358171

Replacement signal connecting cable



Description	Item No.
For Grundfos UPM 3 and Wilo-Yonos PARA	1358180



5.2 Solar thermal energy

Regtronic Electronic controllers 658

Regtronic Electronic controllers.....	659
Regtronic Accessories and spare parts.....	661

Regtronic Electronic controllers



Oventrop electronic controllers ensure an efficient use of energy in the heating and cooling supply. They enable the control, combination and monitoring of different functions from the areas of generation, distribution and transfer

to an intelligent system. The controllers can coordinate different heat generators (including gas boilers, solid fuel boilers or solar thermal systems) to ensure economical operation.



Regtronic RC Simple solar controller for controlling a solar thermal system with one collector

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Solar	Potential-free relays	1
Operating voltage	230 V	PWM*	2
Sensor inputs	4	Further inputs	Pulse inputs V40
Solid-state relays	2		

Scope of delivery

Item No.

1 x Collector sensor
3 x Storage cylinder sensor

1369549



Regtronic RC-P Flexible solar controller for more complex solar thermal systems, heating of potable water and additional functions

Compatible with Datalog CS-BS-1.

Application	Solar	Potential-free relays	1
	Storage cylinder management	PWM*	2
	Service water heating	Further inputs	Pulse inputs V40
Operating voltage	230 V		FlowRotor
Sensor inputs	4		Grundfos Direct Sensor
Solid-state relays	3	Heat meter	2

Scope of delivery

Item No.

1 x Collector sensor
3 x Storage cylinder sensor

1369551



Regtronic RM Multifunction controller for the control of weather-compensated variable/constant temperature heating circuits as well as solar thermal systems

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Heating circuit control	PWM*	4
	Heat generator activation	Further inputs	Pulse inputs V40
	Solid fuel boiler, solar		Grundfos Direct Sensor
	Service water heating		FlowRotor
	Storage cylinder management	PWM switchable 0 - 10 V*	Yes
Operating voltage	230 V	Heat meter	7
Sensor inputs	12	Product compatible to	Regtronic EM
Solid-state relays	13		
Potential-free relays	1		

Scope of delivery

Item No.

6 x Storage cylinder sensor
2 x Collector sensor

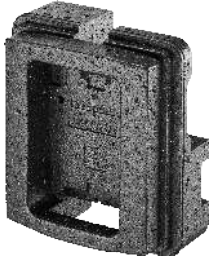
1369555

ErP classification Regtronic RM

Item no.	Controller	Required accessories	Boiler control		ErP %	Class
			Modulating (0-10 V)	On/Off		
		1 x Outside temperature sensor 1152099	●		2.0	II
		1 x Outside temperature sensor 1152099		●	1.5	III
1369555	Regtronic RM	1 x Room temperature sensor 1152095	●		4.0	VI
		1 x Outside temperature sensor 1152099				
		1 x Room temperature sensor 1152095	●	●	3.5	VII
		1 x Outside temperature sensor 1152099				
		3x Room temperature sensor 1152095	●		5.0	VIII

Regtronic Accessories and spare parts

Controller location



Description

For Regusol SH/LH DN 25 (manufactured from 2015), for retrofitting a Regtronic RC/RC-P controller

Item No.

1369553

Regtronic S-bus



Description

For speed control of high-efficiency pumps (PWM / 0 - 10 V) in combination with conventional solar controllers

Item No.

1369531

Regtronic PSW



Description

For the conversion of an asynchronous signal into a high-efficiency pump control signal (PWM / 0 - 10 V)

Item No.

1369532

Outside temperature sensor



Description

For outside temperature measurement, sensor element PT 1000, splash-proof housing, surface mounting

Item No.

1152099



Room temperature sensor

Description

For room temperature measurement, sensor element PT 1000, surface mounting

Item No.

1152095



Remote control with room temperature sensor

Description

For heating curve and function setting (Party, Heating circuit off), control from the living room, sensor element PT 1000, surface mounting

Item No.

1152096



Room controller

Description

For operating mode setting (Auto, Night, Summer, Off), for heating curve and function setting (Party, Heating off), control from the living room, sensor element PT 1000, surface mounting

Item No.

1152087



Temperature sensor

Suitable for all Oventrop controllers.

Description

For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m

1369094



Sensor connection box

Description

For protection of the collector sensor against externally induced overvoltage and local lightning strikes, splash-proof, IP 65

Item No.

1369591



5.2 Solar thermal energy

Solar Diaphragm expansion tanks 663

Solar Diaphragm expansion tanks.....	664
Solar In-line tanks.....	665
Solar Diaphragm expansion tanks Accessories and spare parts...	666



Solar Diaphragm expansion tanks



Solar diaphragm expansion tanks are pressure devices and are used for pressure maintenance and volume compensation in closed heating, solar and cooling water systems. A membrane divides the tank into a water section and a gas section with a pressure cushion.



Solar diaphragm expansion tank

For wall mounting.

Description

Nominal volume 18 l, G 3/4 external thread, inlet pressure 1.5 bar		
Nominal volume 25 l, G 3/4 external thread, inlet pressure 1.5 bar		
Nominal volume 33 l, G 3/4 external thread, inlet pressure 1.5 bar	12	

PU **Item No.**

1361421 °

1361422 °

1361423 °



Solar diaphragm expansion tank

Feet welded on.

Description

Nominal volume 50 l, R 3/4 external thread, inlet pressure 3 bar	
Nominal volume 80 l, R 1 external thread, inlet pressure 3 bar	

Item No.

1361424 °

1361425 °

Solar In-line tanks



Solar in-line tanks are pressure devices and are installed in closed heating, solar and cooling water systems in the expansion pipe in front of diaphragm expansion tanks to protect the diaphragm from inadmissible temperature loads. This is necessary for solar thermal systems,

e.g. for roof heating systems with short pipe runs.

They consist of a pressure chamber which is filled with 100 % heat transfer medium during operation.



Solar In-line tank

For wall mounting.

For the protection of the diaphragm expansion tank and the solar station from excessive temperatures.

Description

Nominal volume 6 l, R ¾ external thread

Nominal volume 12 l, R ¾ external thread

Nominal volume 20 l, R ¾ external thread

Item No.

1361011 °

1361012 °

1361013 °

Solar Diaphragm expansion tanks Accessories and spare parts

Connection set for diaphragm expansion tank



Description

For Solar diaphragm expansion tank, with wall bracket, quick coupling for diaphragm expansion tank and flexible hose

Item No.

1369051

Quick coupling for diaphragm expansion tank



Description

DN 20, G $\frac{3}{4}$ internal thread x G $\frac{3}{4}$ external thread

Item No.

1088806

Expa-Con Solar Cap valve



Description

DN 20, Rp $\frac{3}{4}$ internal thread x G $\frac{3}{4}$ external thread

Item No.

1364185



5.2 Solar thermal energy

OV-Flex ST Pipes and connectors **667**

OV-Flex ST Pipes.....	668
OV-Flex ST Accessories and spare parts.....	669

OV-Flex ST Pipes



OV-Flex ST pipes are quick installation pipes for flexible roof lead-through and connection of the collector field to the pipe system.

The pipes consist of a two-part high-temperature resistant insulating jacket with UV-resistant foil coating in the supply and return. Inside the insulating jacket is a two-core sensor ca-

ble for connecting a temperature sensor (e.g. PT 1000). Flat seals, union nuts and fixing rings are included in the scope of delivery. The stainless steel corrugated pipes can be cut to length individually.

The OV-Flex ST pipes are characterised by simple and time-saving installation.

OV-Flex ST Stainless steel corrugated pipe 2 in 2



Description	PU	Item No.
DN 16, 22 mm stainless steel nipples, G 3/4 union nut flat sealing, length per roll 15 m, can be cut to length	10	1361651 °
DN 16, 22 mm stainless steel nipples, G 3/4 union nut flat sealing, length per roll 25 m, can be cut to length	5	1361652 °
DN 20, 22 mm stainless steel nipples, G 1 union nut flat sealing, length per roll 15 m, can be cut to length	8	1361653 °
DN 20, 22 mm stainless steel nipples, G 1 union nut flat sealing, length per roll 25 m, can be cut to length	4	1361654 °

OV-Flex ST Accessories and spare parts

Oval clamp set



Description

For wall or ceiling mounting of the corrugated stainless steel pipe, with fixing material, 4-fold

Item No.

1361655 °

Connection piece



Description

For OKF, G 1/2 x G 1, 2-fold

PU

Item No.

10

1361279 °

For OKP, G 3/4 external thread x 22 mm, DN 20

25

1361680 °

For OKP, G 1 external thread x 22 mm, DN 20

25

1361681 °

For OKP and OKF, G 3/4 external thread x G 1 external thread, DN 16

10

1369076 °

For OKP and OKF, G 1 external thread x G 1 external thread, DN 20

10

1369078 °

Double nipple



Description

For lengthening of corrugated stainless steel pipe, G 3/4 x G 3/4

Item No.

1369096 °

For lengthening of corrugated stainless steel pipe, G 1 x G 1

1369098 °

Replacement connection and coupling set



Description

For lengthening or shortening of corrugated stainless steel pipe, G 3/4 union nut, DN 16

Item No.

1369083 °

For lengthening or shortening of corrugated stainless steel pipe, G 1 union nut, DN 20

1369084 °



5.2 Solar thermal energy

OKP Tube collectors **670**

OKP Tube collectors.....	671
OKP Accessories and spare parts.....	672

OKP Tube collectors



The OKP tube collectors can be used for hot potable water preparation, solar backup heating, swimming pool heating and also for the generation of process heat. They can be used in portrait format with an axis inclination of 15°- 75° for on-roof installation, free-standing installation (flat roof installation) or façade installation.

The tube collectors consist of the vacuum tubes, a header, a pre-assembled side rail set for quick and easy mounting and a tube holder (foot rail). The tube collector is a heat pipe tube collector. The heat is transferred from the absorber via an aluminium fin to the heat pipe. This causes the liquid inside the heat pipe

to evaporate and the vapour to rise into the condenser. The double pipe heat exchanger in the header, in which the condenser is located, transfers the heat to the heat transfer medium flowing past. As a result, the vapour condenses and runs back down the heat pipe and the process is repeated.

Due to the high-quality, corrosion-resistant materials used and the high-quality thermal insulation ("thermos flask" principle) the tube collectors achieve a particularly high degree of efficiency. In addition, they are characterised by a modular design that allows for easy one-man installation.

Collector principle	Vacuum tube	Height collector	150 mm
Connections	Squeeze connection	Glycol resistant	Yes
Length collector	1,995 mm	Max. operating pressure	10 bar



OKP-10 with 10 vacuum tubes

Width collector (mm)	Gross surface (m ²)	Collector aperture surface area (m ²)	Weight (kg)	Item No.
852	1.7	0.93	54	1361230 °



OKP-20 with 20 vacuum tubes

Width collector (mm)	Gross surface (m ²)	Collector aperture surface area (m ²)	Weight (kg)	Item No.
1,632	3.25	1.86	92	1361231 °

OKP Accessories and spare parts



OKP Freestanding installation in portrait format

Pre-assembled hinged mounting triangles for flexible inclination angle adjustment (30° to 60°) for flat roof installation of an OKP tube collector in portrait format.

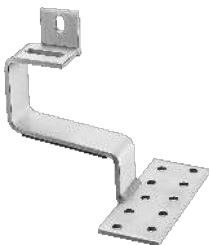
Description	PU	Item No.
For OKP-10, basic set		1361270 °
For OKP-10, extension set		1361271 °
For OKP-20, basic set	18	1361275 °
For OKP-20, extension set	18	1361276 °



OKP Freestanding/Façade installation in portrait format

For the installation of an OKP tube collector on a flat roof with an angle of 15° or for facade installation with an angle of 75°.

Description	Item No.
For OKP tube collectors, single set 15°	1361278 °



OKP Roof hook

For screwing to the side rails. Heavy-duty and torsion-resistant roof hook. The side rails of the vacuum tube collector can be easily screwed to the roof hooks from the side.

Description	Item No.
For pan tiled roofs, stainless steel, 4-fold	1361260 °
For pan tiled roofs, for high snow loads, stainless steel, 4-fold	1361262 °
For slate and plain tiled roofs, stainless steel, 4-fold	1361264 °
For pan tiled roofs, adjustable height, stainless steel, 4-fold	1361266 °



OKP Cover

For covering the junction between two tube collectors.

Description	Item No.
For OKP tube collectors	1361625 °

OKP Stainless steel corrugated pipe set

High-temperature resistant insulating jacket with UV-resistant foil coating. Flat seals are included in the scope of delivery.



Description	Item No.
For flexible roof lead-through, DN 16, 1 m, 2-fold	1361671 °
For flexible roof lead-through, DN 20, 1 m, 2-fold	1361672 °

OKP Connection set



Description	Item No.
For coupling OKP tube collectors, 100 mm, DN 20, 2-fold	1361622 °

OKP U-bend



Description	Item No.
For OKP tube collectors, for connecting the supply and return	1361295 °

Thermal insulation set

For thermal insulation of connection pieces and collector connection.



Description	Item No.
Solar EPDM insulation layer 2 x 0.5 m, with tear-resistant foil and adhesive roll	1361623 °

Braiding set

Tissue made of polyamide 6.6 as additional bird pecking protection in the open.



Description	Item No.
For roof lead-through, 2 x 1.2 m with adhesive roll	1361694 °

Replacement OKP Vacuum tube

Description

For OKP tube collectors

Item No.

1361290 °

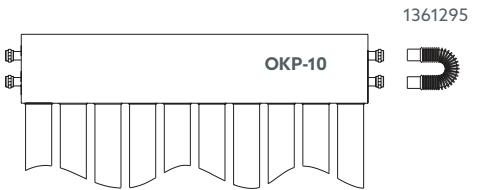
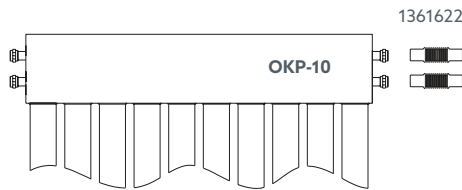


OKP Connection options

Stainless steel corrugated pipe
DN 20 1361653/54



Stainless steel corrugated pipe
DN 20 1361651/52



Connection of corrugated
pipe with G 1 union nut



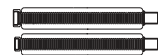
Connection of corrugated
pipe with G 3/4 union nut

Double nipple
1369098

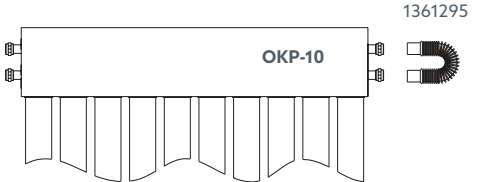
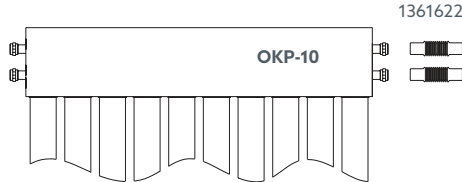


Double nipple
1369096

Roof lead-through
DN 20 1361672



Roof lead-through
DN 16 1361671



Smooth
pipe



Smooth
pipe

Compression
fitting



Compression
fitting

Compression
fitting 1369078



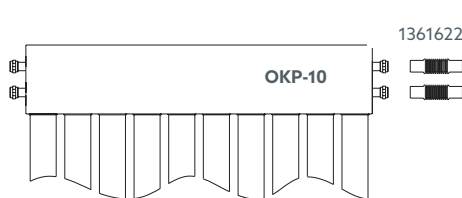
Compression
fitting 1369078



Roof lead-through
DN 20 1361672



Roof lead-through
DN 16 1361671



Connection of corrugated
pipe with G 1 union nut

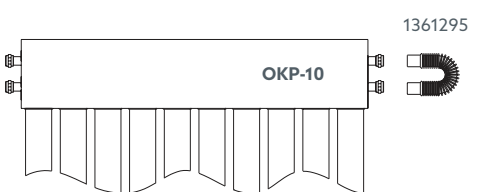
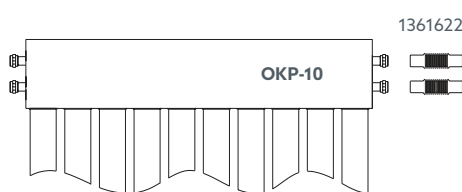


Connection of corrugated
pipe with G 3/4 union nut

Connection piece
DN 20 1361681



Connection piece
DN 16 1361680





5.2 Solar thermal energy

OKF Flat-plate collectors **675**

OKF-CK22 Flat-plate collectors.....	676
OKF-CS22 Flat-plate collectors.....	677
OKF-MQ25 Flat-plate collectors.....	678
OKF Accessories and spare parts.....	679

OKF-CK22 Flat-plate collectors



The OKF-CK22 flat-plate collectors can be used for hot potable water preparation, solar backup heating and swimming pool heating. They can be used in landscape or portrait format for on-roof installation or free-standing installation (flat roof installation). In-roof installation in portrait format is also possible.

The flat-plate collectors have a collector cover with matt anti-reflective glass for 96 % light transmission, a laser welded aluminium double harp absorber with copper pipe register for

optimal energy yield and low pressure loss, a rear wall insulation and a circumferential frame insulation made of mineral wool and a UV-resistant EPDM glass seal.

Due to the high-quality materials used, the flat-plate collectors achieve a high degree of efficiency. In addition, they feature plug-in connections and pre-assembled rail systems and are therefore characterised by simple "plug and play" installation.

Collector principle	Flat plate	Collector aperture surface area	2.01 m ²
Connections	Plug-in connector	Glycol resistant	Yes
Length collector	1,933 mm	Weight	37 kg
Width collector	1,163 mm	Max. operating pressure	10 bar
Height collector	110 mm	PU	8
Gross surface	2.25 m ²	Certification	Solar Keymark



OKF-CS22 with antireflective glass

Item No.

1361340 °

OKF-CS22 Flat-plate collectors



The OKF-CS22 flat-plate collectors can be used for hot potable water preparation, solar backup heating and swimming pool heating. They can be used in landscape or portrait format for on-roof installation or free-standing installation (flat roof installation).

The flat-plate collectors have transparent solar safety glass, a laser welded aluminium double harp absorber with copper pipe register for optimal energy yield and low pressure loss, a

rear wall insulation and a circumferential frame insulation made of mineral wool and a UV-resistant EPDM glass seal.

Due to the high-quality materials used, the flat-plate collectors achieve a high degree of efficiency. In addition, they feature plug-in connections and pre-assembled rail systems and are therefore characterised by simple "plug and play" installation.

Collector principle	Flat plate	Collector aperture surface area	2.01 m ²
Connections	Plug-in connector	Glycol resistant	Yes
Length collector	1,933 mm	Weight	33 kg
Width collector	1,163 mm	Max. operating pressure	10 bar
Height collector	80 mm	PU	11
Gross surface	2.25 m ²	Certification	Solar Keymark



OKF-CS22 with solar safety glass

Item No.

1361345 °

OKF-MQ25 Flat-plate collectors



The OKF-MQ25 flat-plate collectors can be used for hot potable water preparation, solar backup heating and swimming pool heating. They can be used in landscape format for on-roof installation or free-standing installation (flat roof installation).

The flat-plate collectors have a highly transparent solar safety glass, a laser welded aluminium serpentine absorber with copper pipe register for optimal energy yield and low pres-

sure loss, a rear wall insulation and a circumferential frame insulation made of mineral wool and a UV-resistant EPDM glass seal.

Due to the high-quality materials used, the flat-plate collectors achieve a high degree of efficiency. In addition, they feature plug-in connections and pre-assembled rail systems and are therefore characterised by simple "plug and play" installation.

Collector principle	Flat plate	Glycol resistant	Yes
Length collector	2,151 mm	Weight	47.1 kg
Width collector	1,215 mm	Max. operating pressure	10 bar
Height collector	80 mm	PU	11
Collector aperture surface area	2.37 m ²	Certification	Solar Keymark

OKF-MQ25 with solar safety glass for large solar plants



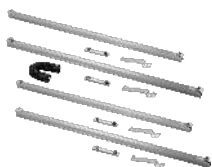
Item No.

1361440 °

OKF Accessories and spare parts

OKF-CK22/CS22 On-roof installation

Pre-assembled aluminium mounting rails for on-roof installation in portrait or landscape format at a minimum axis inclination of 10°- 85°.



Description	Item No.
For OKF-CK22/CS22, basic set (for two collectors)	1361380 °
For OKF-CK22/CS22, extension set	1361381 °
For OKF-CK22/CS22, single set (for one collector)	1361385 °

OKF-MQ25 On-roof installation

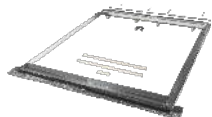
Pre-assembled aluminium mounting rails for on-roof installation in landscape format at a minimum axis inclination of 15°- 75°.



Description	Item No.
For OKF-MQ25, basic set (for one collector)	1361480 °
For OKF-MQ25, extension set	1361481 °

OKF-CK22 In-roof installation in portrait format

In-roof solution with circumferential roofing frame made of anthracite-coloured aluminium for installation in portrait format with a minimum axis inclination of 27°- 85°.



Description	Item No.
For OKF-CK22, for pan tiled roofs, basic set (for two collectors)	1361391 °
For OKF-CK22, for pan tiled roofs, extension set	1361392 °
For OKF-CK22, for plain tiled and slate roofs, basic set (for two collectors)	1361393 °
For OKF-CK22, for plain tiled and slate roofs, extension set	1361394 °

OKF-CK22/CS22 Freestanding installation

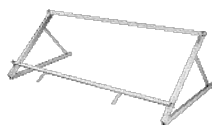
Pre-assembled hinged mounting triangles for flexible inclination angle adjustment (37° to 50°) for flat roof installation of an OKF flat-plate collector in portrait format.



Description	Item No.
For OKF-CK22/CS22, mounting set with 8 clamping brackets, screws and dowels	1361289 °
For OKF-CK22/CS22, basic set portrait format (for one collector)	1361387 °
For OKF-CK22/CS22, extension set portrait format	1361388 °
For OKF-CK22/CS22, single set, landscape format (for one collector)	1361389 °

OKF-MQ25 Freestanding installation

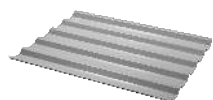
Pre-assembled aluminium mounting rails for freestanding installation of a collector in landscape format at an angle of inclination of 35°- 55°.



Description	Item No.
For OKF-MQ25, basic set (for one collector)	1361486 °
For OKF-MQ25, extension set	1361487 °

OKF Gravel plate set

For ground anchoring of OKF freestanding installations. The mounting triangles are fastened to the trapezoidal sheets with clamping brackets and rivets. Depending on the type of installation (portrait or landscape) and the size of the collector field, the trapezoidal metal sheets and mounting sets must be ordered separately.



Description	Item No.
Mounting set for portrait format, with 10 clamping brackets and 14 rivets	1361228 °
Mounting set for landscape format, with 16 clamping brackets and 24 rivets	1361229 °
Trapezoidal metal sheet for portrait format (1300 x 1035 x 0,75)	1361283 °
Trapezoidal metal sheet for landscape format (1035 x 1000 x 0,75)	1361284 °

OKF-CK22 / OKF-CS22

Number of collectors in portrait format

Item no.	Number of collectors in portrait format						
	1	2	3	4	5	6	
Trapezoidal metal sheet for portrait format (1300 x 1035 x 0,75)	1361283	2	4	6	8	10	12
Mounting set for portrait format (10 x clamping bracket, 14 x rivet)	1361228	2	3	4	5	6	7
Freestanding installation in portrait format (basic set)	1361387	1	1	1	1	1	1
Freestanding installation in portrait format (extension set)	1361388	-	1	2	3	4	5

OKF-CK22 / OKF-CS22

Number of collectors in landscape format

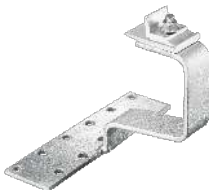
Item no.	Number of collectors in landscape format						
	1	2	3	4	5	6	
Trapezoidal metal sheet for landscape format (1035 x 1000 x 0,75)	1361284	4	8	12	16	20	24
Mounting set for landscape format (16 x clamping bracket, 24 x rivet)	1361229	1	2	3	4	5	6
Freestanding installation in landscape format (basic set)	1361389	1	2	3	4	5	6

OKF-MQ25

Number of collectors in landscape format

Item no.	Number of collectors in landscape format										
	1	2	3	4	5	6	7	8	9	10	
Trapezoidal metal sheet for landscape format (1035 x 1000 x 0,75)	1361284	2	3	4	5	6	7	8	9	10	11
Mounting set for landscape format (16 x clamping bracket, 24 x rivet)	1361229	1	2	3	4	5	6	7	8	9	10
Freestanding installation in landscape format (basic set)	1361486	1	1	1	1	1	1	1	1	1	1
Freestanding installation in landscape format (extension set)	1361487	-	1	2	3	4	5	6	7	8	9

OKF Roof hook



For mounting on the rafters. Pre-assembled retaining plate for quick mounting of the roof hooks to the mounting rails (on-roof installation set).

Description	Item No.
For pan tiled roofs, basic set = 6 roof hooks	1361250 °
For pan tiled roofs, extension set = 2 roof hooks	1361251 °
For pan tiled roofs, adjustable height, basic set = 6 roof hooks	1361252 °
For pan tiled roofs, adjustable height, extension set = 2 roof hooks	1361253 °
For plain tiled roofs, basic set = 6 roof hooks	1361254 °
For plain tiled roofs, extension set = 2 roof hooks	1361255 °
For slate roofs, basic set = 6 roof hooks	1361256 °
For slate roofs, extension set = 2 roof hooks	1361257 °
For corrugated Eternit and sheet metal roofs, basic set = 6 roof hooks	1361258 °
For corrugated Eternit and sheet metal roofs, extension set = 2 roof hooks	1361259 °

OKF-CK22 Carrying handle



Description	Item No.
For OKF-CK22, 2-fold	1361249 °

OKF-CS22/MQ25 Carrying handle



Description	Item No.
For OKF-CS22/MQ25, 2-fold	1361248 °

OKF-CK22/CS22 Collector connection pipe



Description	Item No.
For OKF-CK22/CS22	1361288 °

OKF-MQ25 Field compensator



Description

For OKF-MQ25, for collector fields with more than 6 collectors

Item No.

1361448 °

OKF-MQ25 Connection set



Description

For OKF-MQ25, for one collector field

Item No.

1361488 °

OKF-MQ25 Mounting aid



Description

For OKF-MQ25, for easy mounting of the field compensators

Item No.

1361489 °



5.2 Solar thermal energy

Solcos Solar packages **683**

Solcos Solar packages with tube collectors.....	684
Solcos Solar packages with flat-plate collectors.....	685

Solcos Solar packages with tube collectors

Solcos Solar package with OKP tube collectors

Description	Item No.
Package 2: living space up to approx. 130 m ²	1365040 °
Package 3: living space up to approx. 200 m ²	1365050 °
Package 4: living space up to approx. 240 m ²	1365060 °

Hot potable water preparation and heating		Package 2	Package 3	Package 4
	Item no.	1365040	1365050	1365060
OKP-20	1361231	4	4	5
Collector connection set				
Connection set 100 mm (set = 2 pieces)	1361622	3	3	4
U-bend for connecting the supply and return	1361295	1	1	1
DN 16 Roof lead-through, G ¾ union nut	1361671			
DN 20 Roof lead-through, G 1 union nut	1361672	1	1	1
Thermal insulation				
Thermal insulation set (set = 2 x 0.5 m)	1361623	2	2	2
Connection piece				
DN 16, G ¾ x G 1 (set = 2 pieces)	1369076			
DN 20, G 1 x G 1 (set = 2 pieces)	1369078	1	1	1
Diaphragm expansion tank				
18 l	1361421			
25 l	1361422		1	1
33 l	1361423	1		
50 l	1361424			
88 l	1361425			
Connection set for diaphragm expansion tank	1369051	1	1	1
Heat transfer liquid				
10 l	1361690	1		
25 l	1361691	1	1	1
Solar station				
Regusol ELH-130 RC with Regtronic RC controller	1366597			
Regusol ELH-130-RC-P with Regtronic RC-P controller	1360394	1		
Regusol X-Uno 25	1361060		1	
Regusol X-Duo 25	1361050			1
Fresh water station				
Regumaq X-30	1381030	1	1	1
Storage cylinder				
Buffer storage cylinder (type: 1000, 1500)	1385010/15		Type 1000	Type 1500
Solar buffer storage cylinder (type: 800)	1385107	Type 800		
Bivalent solar storage cylinder (type: 300)	1387303			
Energy efficiency class		C	C	C

Solcos Solar packages with flat-plate collectors

Solcos Solar package with OKF-CK22 flat-plate collectors

Description	Item No.
Package 6: living space up to approx. 130 m ²	1365540 °
Package 7: living space up to approx. 200 m ²	1365550 °
Package 8: living space up to approx. 240 m ²	1365560 °

Hot potable water preparation and heating	Package 6	Package 7	Package 8	
Item no.	1365540	1365550	1365560	
OKF-CK22	1361340	5	5	6
OKF On-roof installation including accessories				
Basic set for two collectors with pre-assembled mounting rails for on-roof installation, including a collector connector	1361380	1	1	2
Extension set for each additional collector with pre-assembled mounting rails for on-roof installation, including a collector connector	1361381	3	3	2
Collector connection pipe	1361288	1	1	1
Diaphragm expansion tank				
18 l	1361421			
25 l	1361422		1	1
33 l	1361423	1		
50 l	1361424			
88 l	1361425			
Connection set for diaphragm expansion tank	1369051	1	1	1
Heat transfer liquid				
10 l	1361690	1		
25 l	1361691	1	1	1
Solar station				
Regusol ELH-130 RC with Regtronic RC controller	1366597			
Regusol ELH-130-RC-P with Regtronic RC-P controller	1360394	1		
Regusol X-Uno 25	1361060		1	
Regusol X-Duo 25	1361050			1
Fresh water station				
Regumaq X-30	1381030	1	1	1
Storage cylinder				
Buffer storage cylinder (type: 1000, 1500)	1385010/15		Type 1000	Type 1500
Solar buffer storage cylinder (type: 800)	1385107	Type 800		
Bivalent solar storage cylinder (type: 300)	1387303			
Energy efficiency class		C	C	C

Solcos Solar package with OKF-CS22 flat-plate collectors

Description	Item No.
Package 10: living space up to approx. 130 m ²	1366040 °
Package 11: living space up to approx. 200 m ²	1366050 °
Package 12: living space up to approx. 240 m ²	1366060 °

Hot potable water preparation and heating	Item no.	Package 10	Package 11	Package 12
		1366040	1366050	1366060
OKF-CS22	1361345	5	5	6
OKF On-roof installation including accessories				
Basic set for two collectors with pre-assembled mounting rails for on-roof installation, including a collector connector	1361380	1	1	2
Extension set for each additional collector with pre-assembled mounting rails for on-roof installation, including a collector connector	1361381	3	3	2
Collector connection pipe	1361288	1	1	1
Diaphragm expansion tank				
18 l	1361421			
25 l	1361422		1	1
33 l	1361423	1		
50 l	1361424			
88 l	1361425			
Connection set for diaphragm expansion tank	1369051	1	1	1
Heat transfer liquid				
10 l	1361690	1		
25 l	1361691	1	1	1
Solar station				
Regusol ELH-130 RC with Regtronic RC controller	1366597			
Regusol ELH-130-RC-P with Regtronic RC-P controller	1360394	1		
Regusol X-Uno 25	1361060		1	
Regusol X-Duo 25	1361050			1
Fresh water station				
Regumaq X-30	1381030	1	1	1
Storage cylinder				
Buffer storage cylinder (type: 1000, 1500)	1385010/15		Type 1000	Type 1500
Solar buffer storage cylinder (type: 800)	1385107	Type 800		
Bivalent solar storage cylinder (type: 300)	1387303			
Energy efficiency class		C	C	C



**Smart Home
Smart Building**

6



6.1 System solutions for monitoring and automation

Smart Building system solutions **691**

DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems.....	693
DyanTemp CR-BSX for decentralised and central individual room temperature control.....	696
DynaTemp CS-BS for networking of stations for heat generator/heating circuit and solar thermal energy.....	702
Smart Building system solutions Accessories and spare parts.....	705

Smart Home system solutions **707**

wibutler Smart Home system.....	708
R-Tronic system for individual room temperature control.....	713
Smart Home system solutions Accessories.....	716



6.1 System solutions for monitoring and automation

Smart Building system solutions **691**

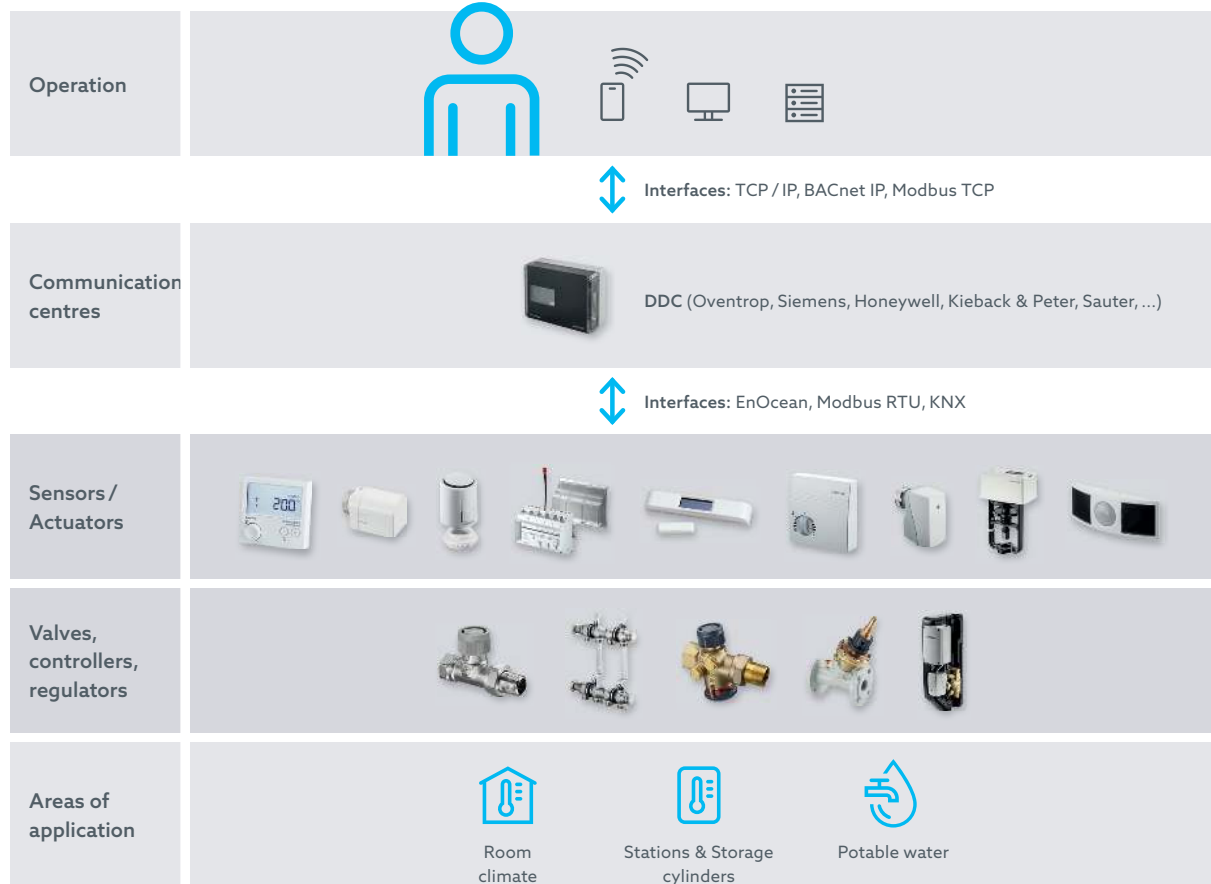
DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems.....	693
DyanTemp CR-BSX for decentralised and central individual room temperature control.....	696
DynaTemp CS-BS for networking of stations for heat generator/ heating circuit and solar thermal energy.....	702
Smart Building system solutions Accessories and spare parts.....	705

System solutions in Smart Building

The various **DynaTemp** systems enable the automation of control and regulation processes in the areas of heat generation, heat distribution and transfer as well as potable water hygiene and circulation of larger residential and non-

residential buildings. In addition to the Oventrop control units (DDC), components such as room thermostats, actuators, control valves and stations can be integrated.

SYSTEM SOLUTIONS FOR MONITORING AND AUTOMATION



DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems



The control unit (DDC) assumes optimisation tasks in the system hydraulics, which is determined here by maintaining a sufficiently high potable water circulation temperature (according to DVGW 57 °C). The temperature is detected by the Oventrop Aquastrom DT valve for potable water circulation systems. The temperature values of the sensor are transmitted by the bus-based field module to the DDC CW-BS control unit which transmits the control commands via the field module to the Aquastrom DT valve. A further task of the control unit is the control and regulation of thermal disinfection. Here, the control unit generates a start signal for the boiler control to increase the potable water temperature and then the risers of the circulation system are sequential-

ly thermally disinfected. The operator of the system also has the option of automatically receiving the disinfection log and any fault messages by e-mail. Settings and temperature curves of the system can be documented in the control unit.

The control unit can be connected via BACnet IP to the building management system (BMS) for monitoring and visualisation tasks and can send warning messages via LAN or Internet.

Note: The FM-CW Plus field module (item no. 1153321) is required at least once per system, the Sensor LW TQ (item no. 1150090) is required at least three times per system.

DDC CW-BS Control unit

For thermal balancing of potable water circulation systems. With BACnet IP interface and integrated user interface via web server.



Description

For the connection of 31 C-bus field modules, operating/bus voltage 24 V, 50 Hz, surface mounting
For the connection of 62 C-bus field modules, operating/bus voltage 24 V, 50 Hz, surface mounting

Item No.

1153350
1153351 °

Transformer

For power supply of the DDC, field modules, relay modules and circulation valves.



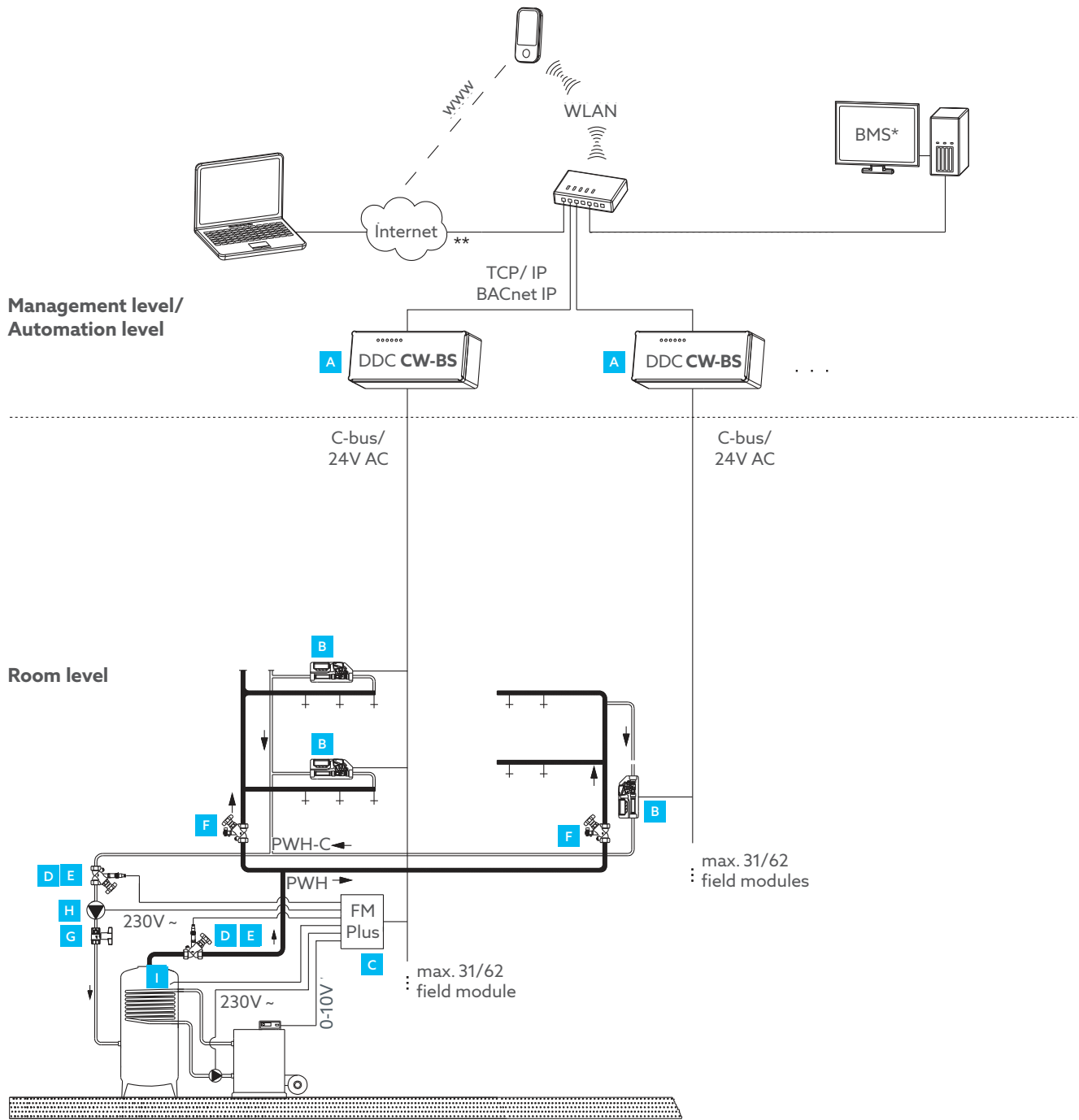
Description

TR-80 - 80 VA, primary 230 V, secondary 24 V, 50 Hz
TR-250 - 250 VA, primary 230 V, secondary 24 V, 50 Hz

Item No.

1153053
1153055

DDC **CW-BS** for automatic thermal balancing and thermal disinfection in potable water circulation systems



* Integration into a building management system from other suppliers (e.g. Honeywell, Kieback & Peter, Sauter, Siemens, etc.) is possible via the standardised BACnet IP interface
 ** Router configurations are required for access to the DDC, e.g. port forwarding

- | | |
|--|--|
| <ul style="list-style-type: none"> A DDC CW-BS Control unit B Aquastrom DT Regulating valve including field module with actuator 24 V, 0 - 10 V and temperature sensor C FM-CW Plus Field module for connecting sensors and pumps D Aquastrom F Free-flow valve E Temperature sensor G 1/4 | <ul style="list-style-type: none"> F Aquastrom KFR Free-flow valve with backflow preventer G Optibal TW Ball valve for potable water H Circulation pump I PT 1000 Storage cylinder temperature sensor |
|--|--|



Aquastrom DT Electronic circulation regulating valve with internal thread and FM-CW K field module

For potable water systems PN 10, max. water temperature 90 °C.

Description	Item No.
DN 15, Rp 1/2 x Rp 1/2	1150004
DN 20, Rp 3/4 x Rp 3/4	1150006
DN 25, Rp 1 x Rp 1	1150008



Aquastrom DT Electronic circulation regulating valve with flat sealing external thread and FM-CW K field module

For potable water systems PN 10, max. water temperature 90 °C.

Description	Item No.
DN 15, G 3/4 x G 3/4	1150104
DN 20, G 1 x G 1	1150106
DN 25, G 1 1/4 x G 1 1/4	1150108



FM-CW Plus Field module for temperature detection

With C-bus communication. Two potential-free relays can be used to switch e.g. a circulation pump, a storage cylinder loading pump, a hydraulic bypass of a service water mixing valve and for burner activation. The burner can also optionally be activated via a 0 - 10 V signal.

Description	Item No.
For the connection of C-bus sensors and pumps, 3 x PT 1000 temperature sensor / inputs, 24 V, 50 Hz, surface mounting	1153321



REM-CW Relay module for burner activation

Potential-free contact that is controlled via a 0 - 10 V analogue input (from the FM-CW Plus field module) and can be used for burner activation.

Description	Item No.
Relay contact: NO contact, (max.) 230 V, potential-free	1153331

DyanTemp CR-BSX for decentralised and central individual room temperature control



The control unit (DDC) enables room temperature control with the help of sensors and actuators as well as temperature setback of conventional thermostats via their electrical setback input, such as the Uni LHZ liquid sensor thermostats. The data is exchanged between the DDC and the individual rooms by means of so-called field modules via a bus system. The system allows for a demand-oriented and energy-saving operation in which time profiles and sensors are used to control the temperature. Presence in the room and opening of windows are taken into account. By combining

decentralised and central room temperature control, it is possible to react flexibly to different requirements in the building.

The integrated web server enables access to the system via a PC and a standard web browser. Via the user interface, parameter settings (e.g. time profiles with setback values, user profiles, etc.) can be carried out in the system and trend data and the current status can be queried.

The system can be integrated into the building management system (BMS) via BACnet IP.

DDC CR-BSX Control unit

For individual room temperature control. With BACnet IP interface and integrated user interface via web server.



Description

For the connection of 31 C-bus room modules, operating/bus voltage 24 V, 50 Hz, surface mounting

Item No.

1153100

Transformer

For power supply of the DDC, room modules, thermostats and actuators.



Description

TR-80 - 80 VA, primary 230 V, secondary 24 V, 50 Hz

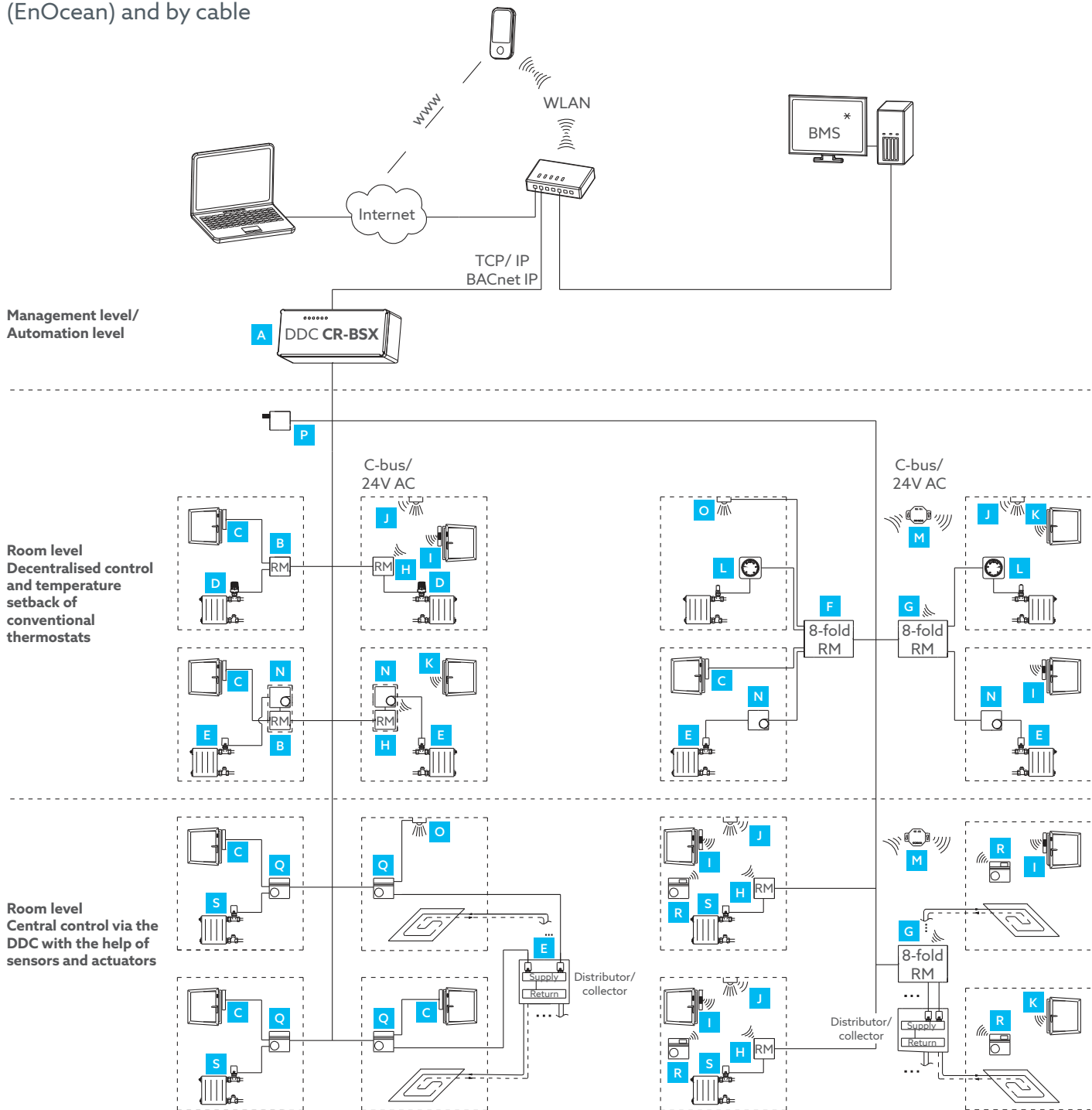
TR-250 - 250 VA, primary 230 V, secondary 24 V, 50 Hz

Item No.

1153053

1153055

DDC **CR-BSX** Control unit for temperature control with transmission of control signals by radio (EnOcean) and by cable



* Integration into a building management system from other suppliers (e.g. Honeywell, Kieback & Peter, Sauter, Siemens, etc.) is possible via the standardised BACnet IP interface

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> A DDC CR-BSX Control module B RM-C K Room module, flush mounting, wired, 1-fold C Wired window contact (on site) D Uni LHZ Thermostat E Aktor T 2P Electrothermal actuator, 24 V, two point F RM-C K8 Room module, surface mounting, wired, 8-fold G RM-C F 8 Wireless room module, flush mounting, 8-fold | <ul style="list-style-type: none"> H RM-C F Wireless room module, flush mounting, 1-fold I FK-C F Solar powered wireless window contact J BWM-C F Wireless motion detector K SecuSignal Window handle of the company Hoppe (on site) L Uni FHZ Thermostat with remote control M RP-C F Wireless repeater, flush mounting, 230 V N Room thermostat with setback input, 24 V | <ul style="list-style-type: none"> O Wired motion detector (on site) P FM-C WS Outside temperature sensor Q RBG-C K Room controller, surface mounting, wired R RBG-C F Solar powered wireless room controller S Electrothermal actuator, 0 - 10 V or two point |
|---|---|---|



RM-C K Room module, wired

With C-bus communication. For connecting actuators, thermostats or room thermostats.

Description

For one room, 24 V, 50 Hz, flush mounting, white (RAL 9010), cover frame must be ordered separately (accessory)

Item No.

1153121



RM-C K8 Room module, wired

With C-bus communication. For connecting thermostats or room thermostats and wired window contacts installed on site.

Description

For 8 rooms, 24 V, 50 Hz, surface mounting

Item No.

1153128



RM-C F Wireless room module (EnOcean)

With EnOcean radio technology and C-bus communication. For connecting actuators, thermostats or room thermostats as well as wireless window contacts and wireless motion detectors with EnOcean radio technology and wired window contacts and wired motion detectors installed on site.

Description

For one room, 24 V, 50 Hz, flush mounting, white (RAL 9010), cover frame must be ordered separately (accessory)

Item No.

1153101



RM-C F8 Wireless room module (EnOcean)

With EnOcean radio technology and C-bus communication. For connecting thermostats or room thermostats as well as wireless window contacts and wireless motion detectors with EnOcean radio technology and wired window contacts installed on site.

Description

For 8 rooms, 24 V, 50 Hz, surface mounting

Item No.

1153118



RBG-C K Room controller, wired

With C-bus communication. With nominal value setting device and presence key with LED.

Description

24 V, 50 Hz, surface mounting, white (RAL 9010)

Item No.

1153271



RBG-C F Wireless room controller (EnOcean)

With EnOcean radio technology. With nominal value setting device and presence key.

PU 75

Description

Solar powered, surface mounting, white (RAL 9010)

Item No.

1153050



Room thermostat

With nominal value setting device. For connecting electrothermal actuators (two point "normally closed").

PU 25

Description

24 V, surface mounting, sensor element PT 1000

Item No.

1152052 °

Uni LHZ Thermostat

For time-controlled temperature setback by means of a built-in heated liquid sensor. When an electrical voltage of 24 V is applied to the thermostat, it switches to setback mode. The temperature setback is approx. 7 K.



Description

Connection thread M 30 x 1.5, 24 V, nominal value range 7 °C - 28 °C, cable length 1 m, capillary 2 m

Item No.

1150300

Uni FHZ Thermostat with remote control

For time-controlled temperature setback by means of a built-in heated liquid sensor. When an electrical voltage of 24 V is applied to the thermostat, it switches to setback mode. The temperature setback is approx. 7 K.



Description

Connection thread M 30 x 1.5, 24 V, nominal value range 7 °C - 28 °C, cable length 1 m, capillary 2 m

Item No.

1152265



Aktor T 2P Electrothermal actuator, two point control

Installation position Any

Installation Plug-in connection with valve adapter

Tension	Version	Valve connection	Cable* (m)	Item No.
24 V	"Normally closed"	Connection thread M 30 x 1.5	1	1012416
24 V	"Normally closed"	Connection thread M 30 x 1.5	2	1012442



Aktor T ST Electrothermal actuator, 0 - 10 V

With automatic zero point and valve travel detection.

Installation position	Any	PU	500
Installation	Plug-in connection with valve adapter		

Tension	Version	Valve connection	Cable* (m)	Item No.
24 V AC	"Normally closed"	Connection thread M 30 x 1.5	1	1012953

BMW-C F Wireless motion detector (EnOcean)

With EnOcean radio technology. The ceiling sensor is used for movement detection in the range of 360 °.



Description	Item No.
Solar powered, surface mounting, white (RAL 9010)	1153280 °

FK-C F Wireless window contact (EnOcean)

With EnOcean radio technology. Transmits a radio signal when opening or closing a window. Compatible with R-Tronic wireless thermostats (mains operated), wireless room module (DynaTemp CR-BSX) and wibutler gateway.



Description	Item No.
Solar powered, white (similar to RAL 9003), EnOcean Equipment Profile D5-00-01	1153070



RS-C F Wireless temperature sensor (EnOcean)

With EnOcean radio technology. For room temperature measurement.



Description	Item No.
Solar powered, white (RAL 9010)	1153195 °



FM-C WS Outside temperature sensor, wired

With C-bus communication. For outside temperature measurement. For the DDC function "variable heat-up time".

Description

Power supply via the C-bus, surface mounting, IP 65

Item No.

1153130

DynaTemp CS-BS for networking of stations for heat generator/heating circuit and solar thermal energy



The Datalog CS-BS read out the controllers of stations for solar heat generation, for fresh water heating or for different heating circuits via a bus technology. Up to 6 bus-compatible controllers can be connected to the Datalog CS-BS-6. Data from the different controllers are read in by the Datalog CS-BS data logger in order to store and visualise operating states, temperatures and volume flows as well as energy data, even over a longer period of time. From this, new setting parameters for the controllers can be determined in order to improve

the operating behaviour of the entire system, which includes the storage cylinder and the boiler, or to carry out error diagnoses. The integrated web interface allows access to the system using a standard web browser.

The Datalog CS-BS-6 also has a BACnetIP interface to integrate the connected controllers into a building automation system. The Regtronic KM TCP communication module is available for customers who want to integrate controllers into their system via Modbus TCP.

Datalog CS-BS-1



For collecting and reading out of the data of a controller. System visualisation of various controllers and components possible via the Oventrop Portal (web browser).

Description

Use only within the EU, wall mounting

Item No.

1159097

Datalog CS-BS-6



For data collection and parameterisation of up to six controllers and for integration into a building automation system via BACnet IP.

Description

Wall mounting

Item No.

1159095

Regtronic KM TCP Communication module Modbus TCP






For integration of a controller into a building automation system via Modbus TCP.

Description

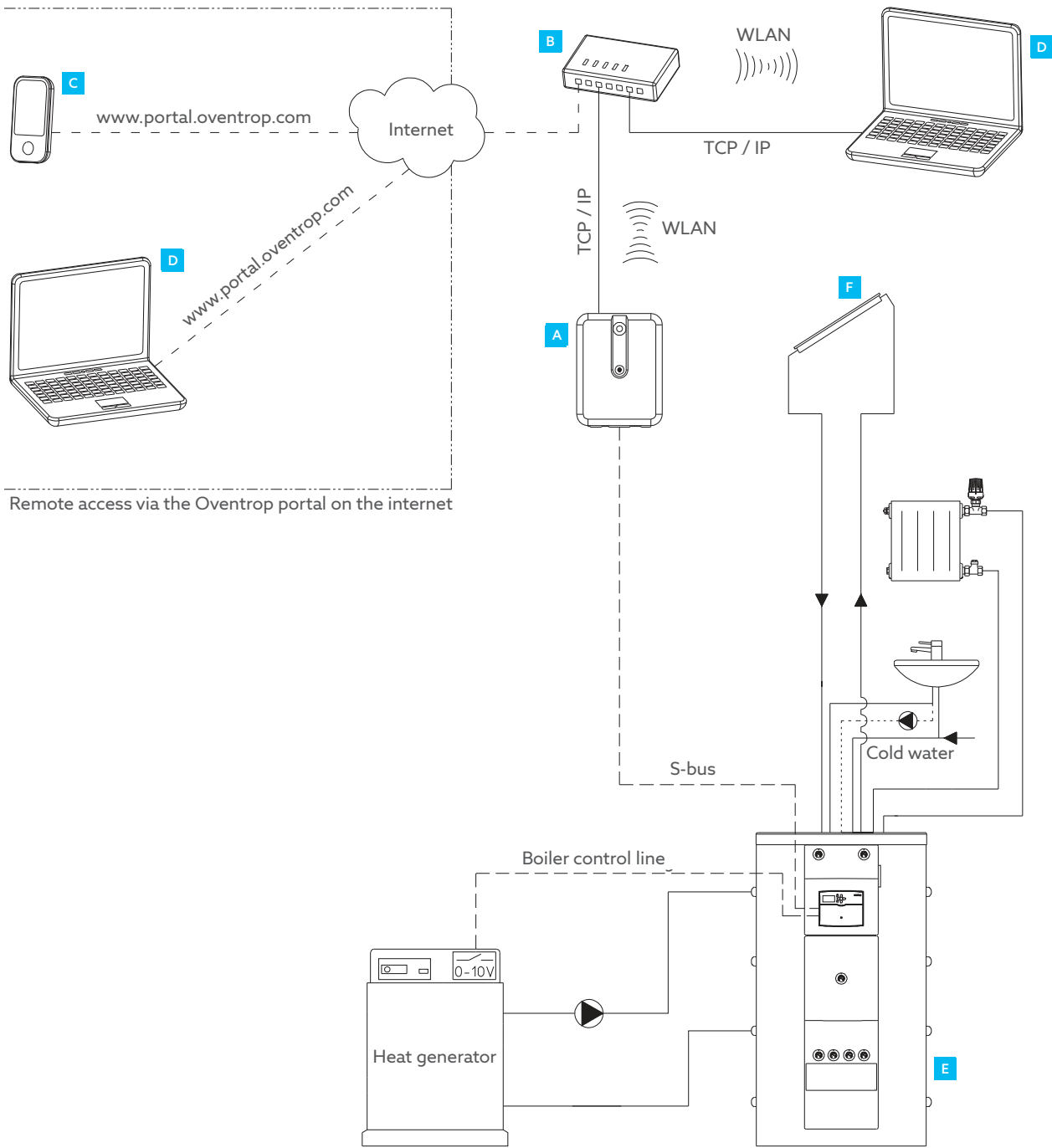
Wall mounting

Item No.

1159099 ::

Controller name	Item description	Data logger CS-BS-6	Data logger CS-BS-1 (WLAN)	Data logger Regtronic KM-TCP	Item no.
					
		Item no. 1159095 Interfaces: LAN, BACNetIP	Item no. 1159097 Interfaces: LAN, WLAN	Item no. 1159099 Interfaces: LAN, Modbus TCP	
Regtronic RH	Heating circuit control	●	●	●	1152080/83
Regtronic RH	Heating circuit control	●	●	—	1152090/93
Regtronic RH HT	Regudis H Transmission station	●	●	●	1391021–1393037
Regtronic RQ	Regumaq X-30 Fresh water station	●	●	—	1381025–1381037
Regtronic RQ	Regumaq X-80 Fresh water station	●	●	●	1381580/81/82
Regtronic RQ	Regumaq X-45 Fresh water station	●*	—	●	1381140/42
Regtronic RC	Regusol Solar station	●	●	—	1366597, 1360862/84, 1369549
Regtronic RC-P	Regusol Solar station	—	●	—	1360394, 1369551
Regtronic RX	Regusol Solar station	●	●	—	1361050/60
Regtronic RM	System control	●	●	—	1369555
Regtronic RS	System control for Regucor energy storage centres	●	●	—	1383485, 1383550, 1383555, 1383562, 1383645, 1383567
Regtronic RD-W	System control for Regudis dwelling stations	—	—	—	1342093

*reading only



- A** CS-BS-1 Datalog (WLAN)
- B** Commercially available router/switch (e.g. FritzBox)
- C** Mobile displays (e.g. iPhone, iPad, BlackBerry etc.)
- D** PC/Laptop

- E** Regucor WHS Energy storage centre with Regtronic RS Controller
- F** OKF Flat-plate collector or OKP Tube collector

Smart Building system solutions Accessories and spare parts

Sensor LW TQ

For DynaTemp CW-BS.



Description

For remote monitoring of the riser temperature and for integration into a building management system (BMS), sensor element PT 1000, G ¼

Item No.

1150090

Sensor LW TH

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m

1369094

Temperature sensor attached to the pipe

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection at the pipework, with fastening clip Ø 25 - 40 mm and heat conducting paste, sensor element PT 1000, continuous temperature range up to 180 °C, length 1.5 m

Item No.

1369095

ABR-55 Cover frame

For DynaTemp CR-BSX.



Description

For wireless room modules item no. 1153101 / 21, 55 x 55 mm, white (RAL 9010)

Item No.

1153170 °



Wireless repeater (EnOcean)

For DynaTemp CR-BSX.

PU 50

Description

For amplification of EnOcean radio telegrams to increase the radio range, 230 V, 50 Hz, flush mounting

Item No.

1153060



Wall mounting set

For DynaTemp CR-BSX.

Description

For additional protection of the wall installation (in flush-mounted box) of the connecting cable of the Uni LHZ thermostat

Item No.

1150390



Reinforcing cap

For DynaTemp CR-BSX. For the protection against vandalism.

Description

For Uni LH, LHZ and LA thermostats, not lockable, white (RAL 9010)

For Uni LH, LHZ and LA thermostats, lockable, white (RAL 9010)

For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation

PU

Item No.

10

1011865

10

1011866

1012450



Replacement FM-CW K Field module

For DynaTemp CW-BS. With C-bus communication.

Description

For the connection of the Aquastrom DT circulation regulating valve for one riser, 24 V, 50 Hz, surface mounting

Item No.

1153301



6.1 System solutions for monitoring and automation

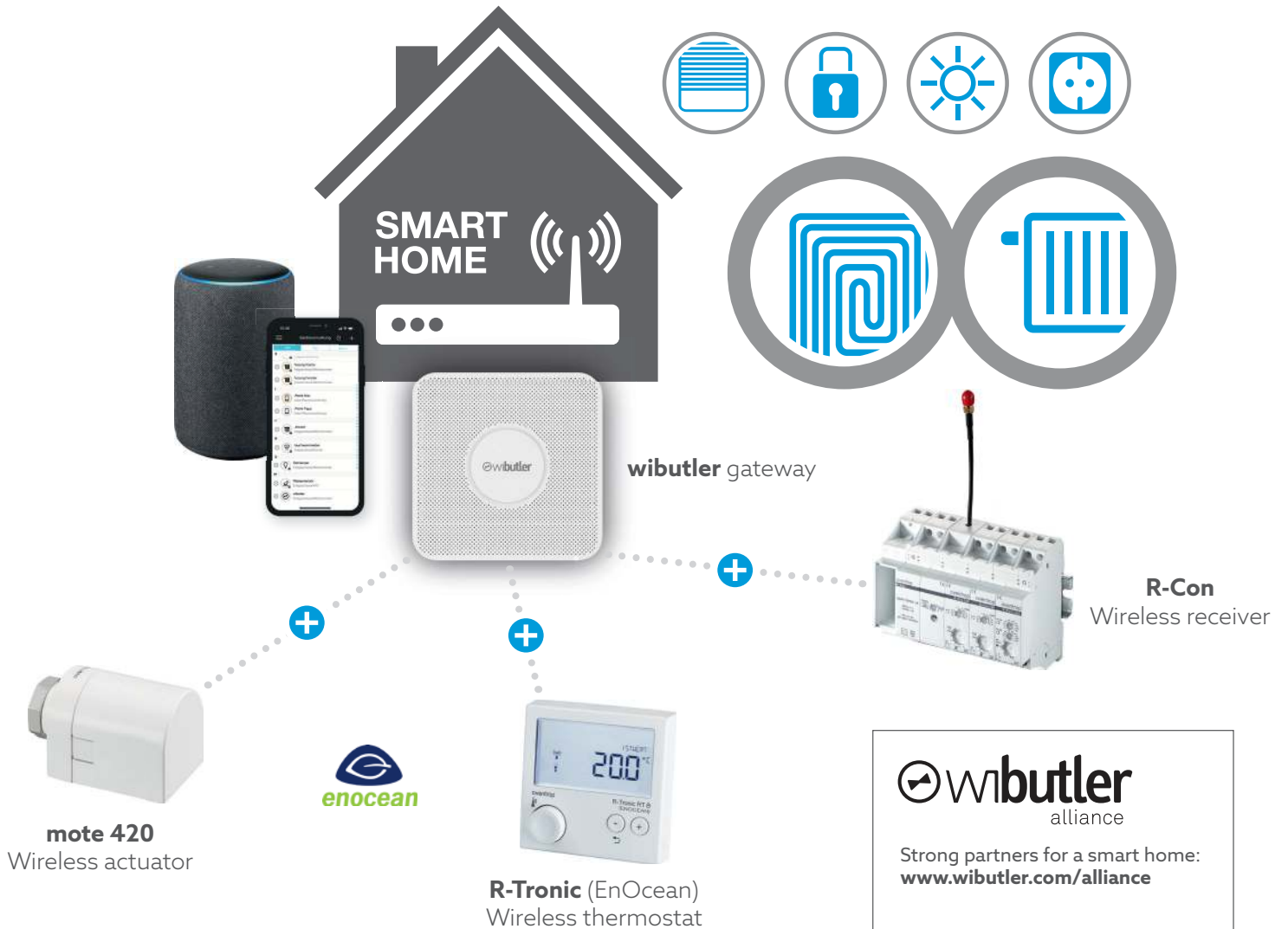
Smart Home system solutions	707
wibutler Smart Home system.....	708
R-Tronic system for individual room temperature control.....	713
Smart Home system solutions Accessories.....	716

wibutler Smart Home system



The Smart Home sector includes the networking of several systems within individual dwellings or detached houses. By means of a communication centre (gateway), various components can be integrated into the Smart Home system and controlled via smartphone, tablet or PC. By connecting the gateway to a commercially available router, remote access is easily possible while on the move.

The intelligent wibutler pro communication centre is the heart of the smart home. In addition to surface heating and radiators, other systems such as lighting and shading can also be integrated.



OVbalance Home Basic set - radiator



Consisting of:	Item No.
1 x wibutler gateway item no. 1150799	1150790
1 x R-Tronic RT B Wireless thermostat item no. 1150780	
1 x mote 420 Wireless actuator item no. 1150766	



Basic set - surface heating



Consisting of:	Item No.
1 x wibutler gateway item no. 1150799	1150795
1 x R-Tronic RT B Wireless thermostat item no. 1150780	
1 x R-Con Eight channel wireless receiver item no. 1150772	



wibutler gateway (EnOcean, Z-Wave, Zigbee, LAN, WLAN)



The lighting, shading, heating and sanitary, air conditioning, ventilation and security systems can be interconnected with the help of the wibutler gateway.

Operation	With smartphone app With tablet app Via computer Amazon Alexa	System requirements terminals	Apple: at least iOS 9 Android: at least Android 4.4
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Tension	Item No.
100 - 240 V AC	1150799

R-Tronic Wireless thermostat (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean		

Desig.*	EEP*	Description	Item No.
RT B (EnOcean)	A5-10-02	-	1150780
	A5-10-03		
	A5-10-04		
	A5-10-06		
	A5-10-06 + RPS		
RTF B (EnOcean)	A5-10-11	With integrated humidity sensor	1150781
	A5-10-11 + RPS		
	A5-10-22		
	A5-10-23		



mote 420 Wireless actuator (EnOcean)



Only functions in combination with communication centres / gateways (e.g. with the wibutler gateway) and room thermostats supporting this EnOcean Equipment Profile.

Communication	EnOcean	Battery lifespan	About 2 years
Power supply	Battery operated		



Valve connection	EEP*	Item No.
Connection thread M 30 x 1.5	A5-20-01	1150766

R-Con Multichannel wireless receiver for surface heating (proprietary radio communication)



Time programme adjustable with R-Tronic wireless thermostats. Item no. 1150770 / 72 additionally with pump and burner logic. To be installed in a cabinet, the protective housing item no. 1150776 (see "R-Con Accessories") can be used alternatively.

Tension	230 V	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)



Number of radio channels	Description	Item No.
4 (max. of 4 actuators per channel)	With logic module	1150770
4 (max. of 4 actuators per channel)	Without logic module	1150771
8 (max. of 4 actuators per channel)	With logic module	1150772
8 (max. of 4 actuators per channel)	Without logic module	1150773

R-Con T 2P Four channel extension module (proprietary radio communication)



For R-Con multichannel wireless receiver.

Tension	230 V	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)



Number of radio channels	Item No.
4 (max. of 4 actuators per channel)	1150775

R-Con HC Extension module heating / cooling (proprietary radio communication)



For R-Con multichannel radio receiver. For switching between heating and cooling mode via a change-over input. The change-over signal is provided e.g. by a reversible heat pump.

Tension	230 V	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		



Description	Item No.
With input for dew point monitoring, cooling mode is interrupted if the dew point is exceeded	1150774



Aktor T 2P Electrothermal actuator, two point control

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Valve connection	Cable* (m)	PU	Item No.
230 V	"Normally closed"	Connection thread M 30 x 1.5	1	100	1012415
24 V	"Normally closed"	Connection thread M 30 x 1.5	1		1012416

FK-C F Wireless window contact (EnOcean)

With EnOcean radio technology. Transmits a radio signal when opening or closing a window. Compatible with R-Tronic wireless thermostats (mains operated), wireless room module (DynaTemp CR-BSX) and wibutler gateway.



Description	Item No.
Solar powered, white (similar to RAL 9003), EnOcean Equipment Profile D5-00-01	1153070



Hydronic balancing with the wibutler gateway and Q-Tech in detached and semi-detached houses

AUTOMATIC PRESETTING WITH THE WIBUTLER GATEWAY

With the **wibutler** gateway and the **mote 420** wireless actuators, the automatic presetting of thermostatic valves at radiators, e.g. in detached or semi-detached houses, can be carried out from a smartphone, tablet or PC. Manual presetting at each radiator on site is therefore no longer necessary. The setup wizard enables the user to carry out the automatic presetting in a few steps via his smartphone, tablet or PC.

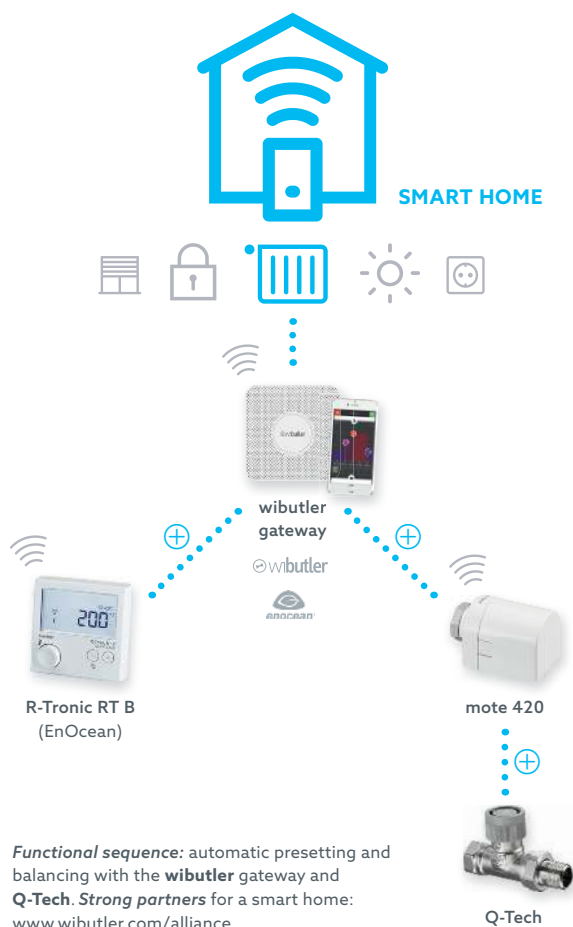
In addition to the room temperature control function, the calculation of the maximum required volume flow is provided in the **wibutler** gateway for each radiator. The calculation procedure is stored in the **wibutler** gateway. (Procedure according to "VdZ-Fachregel Heizungsoptimierung-Verfahren A"). The valve characteristic line of the Q-Tech thermostatic valves is integrated in the **wibutler** gateway. It is used to convert the determined volume flows for the stroke limitations of the **mote 420** actuators (only possible in conjunction with item. no. 1150766).

AUTOMATIC BALANCING WITH Q-TECH

The **Q-Tech** thermostatic valve keeps the volume flow required for room temperature control in the radiator constant, independent of differential pressure fluctuations in the heating system. Here, the volume flow is limited to a maximum stroke via the automatic presetting described above with the **wibutler** gateway and the **mote 420** actuator mounted on the **Q-Tech** valve.

ADVANTAGES

- + Automatic calculation of the required volume flows for each radiator and automatic presetting of the **Q-Tech** valves via the **mote 420**
- + Manual setting of the thermostatic valves at the radiator is no longer necessary
- + No need for pipe network calculation and balancing of the risers



QUICKLY INSTALLED

- 1 New installation of the **Q-Tech** valves at the radiator or replacement of the valve inserts with **QA** inserts
- 2 Installation of the **mote 420** wireless actuators
- 3 Installation of the **R-Tronic** wireless thermostats
- 4 Commissioning of the **wibutler** gateway
- 5 Entry of the building and room data in the app using the commissioning wizard

- + Presetting of the valves in the riser is no longer necessary
- + Hydraulically balanced heating system at full and partial load
- + Long battery life, as control commands from the **mote 420** are only carried out for the room temperature control



R-Tronic system for individual room temperature control



Oventrop offers wireless thermostats with two types of radio communication:

The R-Tronic wireless thermostats with open radio communication according to EnOcean standard can be integrated directly into Smart Home systems.

The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat or in the app of the Smart Home System. Depending on the model, an additional measurement of the relative humidity in % and the CO₂ concentration in ppm is

possible.

Power is supplied by batteries or a power pack (100 - 240 V). For the battery-operated models, power supply via the mains is possible as an alternative (see chapter "R-Tronic Accessories").

For the closed R-Tronic system, the following applies: In battery operation, up to 3 participants can be taught in, in mains operation, up to 8 participants can be taught in. In mains operation it is also possible to teach in wireless actuators, window contacts and a single-channel wireless receiver. The single-channel wireless receiver enables the control of a fan depending on the set CO₂ threshold value. For this application a thermostat must be used which can measure the CO₂ concentration.

R-Tronic Wireless thermostat (proprietary radio communication)



Installation Surface mounting Communication Proprietary radio

Desig.*	Description	Power supply	Item No.
RT B	-	Battery operated	1150680
RTF B	With integrated humidity sensor	Battery operated	1150681
RTFC K	With integrated humidity and CO ₂ sensor	Mains adaptor with table stand	1150682
RTFC K	With integrated humidity and CO ₂ sensor	Flush-mounted power pack with wall bracket	1150684

mote 320 Wireless actuator (proprietary radio communication)

Compatible with R-Tronic wireless thermostats (proprietary radio communication).



Power supply Battery operated Communication Proprietary radio
Battery lifespan About 2 years

Valve connection	Description	Item No.
Connection thread M 30 x 1.5	-	1150665
Squeeze connection	For integrated valve sets and thermostatic valves of the company Danfoss, series RA.	1150675

R-Con 2P Wireless receiver for fan control (proprietary radio communication)



For activation and deactivation of fans or ventilation systems. The switching signal is generated by the wireless thermostat. Compatible with R-Tronic RTFC K wireless thermostat item no. 1150682 / 84.

Tension	230 V	Communication	Proprietary radio
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Number of radio channels	Item No.
1 channel, potential-free, flush mounting	1150710

R-Con Multichannel wireless receiver for surface heating (proprietary radio communication)



Time programme adjustable with R-Tronic wireless thermostats. Item no. 1150770 / 72 additionally with pump and burner logic. To be installed in a cabinet, the protective housing item no. 1150776 (see "R-Con Accessories") can be used alternatively.

Tension	230 V	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)

Number of radio channels	Description	Item No.
4 (max. of 4 actuators per channel)	With logic module	1150770
4 (max. of 4 actuators per channel)	Without logic module	1150771
8 (max. of 4 actuators per channel)	With logic module	1150772
8 (max. of 4 actuators per channel)	Without logic module	1150773



R-Con T 2P Four channel extension module (proprietary radio communication)



For R-Con multichannel wireless receiver.

Tension	230 V	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)

Number of radio channels	Item No.
4 (max. of 4 actuators per channel)	1150775



R-Con HC Extension module heating / cooling (proprietary radio communication)



For R-Con multichannel radio receiver. For switching between heating and cooling mode via a change-over input. The change-over signal is provided e.g. by a reversible heat pump.

Tension	230 V	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		

Description	Item No.
Dew point monitoring, cooling mode is interrupted if the dew point is exceeded	1150774





Aktor T 2P Electrothermal actuator, two point control

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Valve connection	Cable* (m)	PU	Item No.
230 V	"Normally closed"	Connection thread M 30 x 1.5	1	100	1012415
24 V	"Normally closed"	Connection thread M 30 x 1.5	1		1012416

FK-C F Wireless window contact (EnOcean)

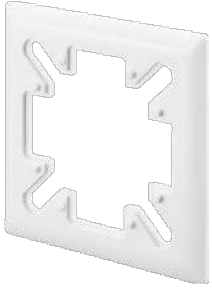
With EnOcean radio technology. Transmits a radio signal when opening or closing a window. Compatible with R-Tronic wireless thermostats (mains operated), wireless room module (DynaTemp CR-BSX) and wibutler gateway.



Description	Item No.
Solar powered, white (similar to RAL 9003), EnOcean Equipment Profile D5-00-01	1153070



Smart Home system solutions Accessories



Cover frame

For R-Tronic wireless thermostats.

PU _____ 50

Description

For covering flush-mounted box (milled hole up to Ø 83 mm, e.g. Switzerland), cover 88 x 88 mm, traffic white (RAL 9016)

Item No.

1150693



Wireless repeater (EnOcean)

PU _____ 50

Description

For amplification of EnOcean radio telegrams to increase the radio range, 230 V, 50 Hz, flush mounting

Item No.

1153060



Flush-mounted power pack with wall bracket

Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply 100 - 240 V AC, 50 - 60 Hz

Item No.

1150692



Mains adaptor with table stand

Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply 100 - 240 V AC, 50 - 60 Hz

Item No.

1150694



Antenna extension

For R-Con multichannel wireless receiver.

Description

With SMA screw terminal, antenna length 1 m, surface mounting, white glossy (RAL 9003)

Item No.

1150777



Protective housing with carrier rail

For R-Con multichannel wireless receiver.

Description

As alternative to installation in the cabinet, 230 V, surface mounting

Item No.

1150776



6.2 Components for control, regulation and the building management system (BMS)

Room thermostats **719**

ClimaCon F Room thermostats for surface heating.....	720
Room thermostats heating.....	722
Room thermostats heating/cooling.....	724
Room thermostats heating/cooling with fan control.....	725
Room thermostats Accessories.....	726
R-Tronic Wireless thermostats.....	728
R-Tronic Accessories.....	729

Actuators **730**

Aktor T Electrothermal actuators.....	731
Aktor T Accessories.....	733
Aktor M Electromotive actuators.....	734
Aktor M Accessories.....	737
Actuators with radio interface.....	738

Controllers **739**

Regtronic Electronic controllers.....	740
Regtronic Accessories.....	744



6.2 Components for control, regulation and the building management system (BMS)

Room thermostats	719
ClimaCon F Room thermostats for surface heating.....	720
Room thermostats heating.....	722
Room thermostats heating/cooling.....	724
Room thermostats heating/cooling with fan control.....	725
Room thermostats Accessories.....	726
R-Tronic Wireless thermostats.....	728
R-Tronic Accessories.....	729

ClimaCon F Room thermostats for surface heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings.

Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. Depending on the model, there are room thermostats with reduced display, with integrated time switch and setting options via app.

ClimaCon F 90 for two pipe applications, heating only/ cooling only, slave



Control	Two point / PWM	Setback*	Via master room thermostat
Installation	Surface mounting	Operation	At the room thermostat

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1155009 ::

ClimaCon F 100 for two pipe applications heating or cooling, slave



Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting	Switching h / c*	Via change-over
Setback*	Via master room thermostat		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155010 ::
24 V	Electrothermal actuators (two point) "normally closed"	1155510 ::

ClimaCon F 210 for two pipe applications, heating only / cooling only, master



Switching between time programme and manual mode possible.

Control	Two point / PWM	Operation	At the room thermostat
Installation	Surface mounting	Communication	With smartphone app Bluetooth
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators (two point) "normally closed"	1155021 ::



ClimaCon F 310 for two pipe applications, heating or cooling, master

Switching between time programme and manual mode possible.

Control	Two point / PWM	Switching h / c*	Via change-over
Installation	Surface mounting	Other outputs	1 x potential-free
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat	Communication	Bluetooth
Operation	At the room thermostat With smartphone app		

Tension	0 - 10 V*	Temperature sensor*	Suitable for	Item No.
230 V	No	No	Electrothermal actuators (two point) "normally closed"	1155031 ::
24 V	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531 ::

Room thermostats heating



Room thermostats are used in conjunction with actuators for individual room temperature control in heating systems. The temperature is set at the room thermostat. Depending on the room thermostat used, the temperature is reduced via an adjustable time programme or an external time switch. Room thermostats can also be used for cooling applications by using a different actuator (e.g. "normally closed" instead of "normally open"):

Oventrop offers room thermostats for surface- and flush-mounted installation, with or without display.

Room thermostat for two pipe applications, surface mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152051 °
24 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152052 °

Room thermostat for two pipe applications, with concealed temperature setting, surface mounting

Control	Two point	PU	25
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152055 °

Room thermostat for two pipe applications, with clock, surface mounting

Control	Two point / PWM	PU	78
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152552 °



Room thermostat for two pipe applications, flush mounting

Nominal value range can be limited by concealed locking clips.

Control	Two point	PU	128
Setback*	Via external time switch (slave function)		

Tension	Suitable for	Item No.
230 V	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

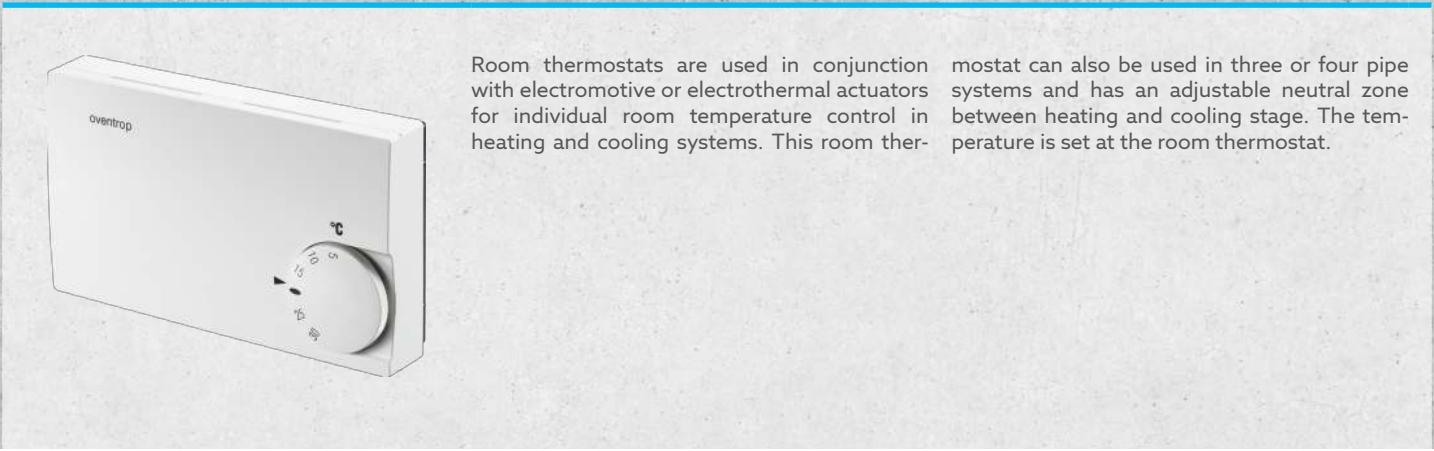


Room thermostat for two pipe applications, with display, flush mounting

Control	Two point	PU	40
Setback*	Via adjustable time programme		

Tension	Suitable for	Item No.
230 V	Heating: Actuators "normally closed" (terminal NC), actuators "normally open" (terminal NO) Cooling: Actuators "normally open" (terminal NO), actuators "normally closed" (terminal NC)	1152561 °

Room thermostats heating/cooling



Room thermostats are used in conjunction with electromotive or electrothermal actuators for individual room temperature control in heating and cooling systems. This room thermostat can also be used in three or four pipe systems and has an adjustable neutral zone between heating and cooling stage. The temperature is set at the room thermostat.

Room thermostat for four pipe applications, surface mounting



Neutral zone Adjustable between 0.5 K and 7.5 K PU 25

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152151

Room thermostats heating/cooling with fan control



Room thermostats for electrical control of fan coil units for demand-oriented heating and cooling. Depending on the room thermostat, fan coil units in two or four pipe systems can be controlled. The temperature as well as the fan speed can be set at the room thermostat. Furthermore, various operating modes can be set.

Room thermostat for two pipe applications, heating or cooling, 230 V



Setback*	Via adjustable time programme	PU	60
Installation	Flush mounting		

Tension	Control	Suitable for	Item No.
230 V	Two point	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152453

Room thermostat for two pipe applications, heating or cooling, 24 V



Installation	Surface mounting	Other outputs	Two point auxiliary heating
--------------	------------------	---------------	-----------------------------

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V	Electrothermal actuators (0 - 10 V) "normally closed"	1152064

Room thermostat for four pipe applications, heating and cooling, 24 V



Installation	Surface mounting	Other outputs	Two point auxiliary heating
--------------	------------------	---------------	-----------------------------

Tension	Control	Suitable for	Item No.
24 V	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152065

Room thermostats Accessories



Sensor GA FD Dew point monitor

Is required in conjunction with room thermostats to protect against condensation on cooling surfaces.

Description

For heating/cooling applications to prevent condensation, 24 V, with change-over contact

Item No.

1141951



Electrical connecting block for surface heating

When using item no. 1400980 / 82 with 24 V, an external power supply of 24 V must be available. Item no. 1153053 can be used as transformer.

PU

25

Description

6 control zones, heating, 24 V / 230 V

10 control zones, heating / cooling (change-over), pump control, 230 V

10 control zones, heating / cooling (change-over), pump control, 24 V

10 control zones, heating / cooling (change-over), pump and boiler control and integrated time switch, 230 V

Item No.

1400980

1400981

1400982

1400983



FloorCon Electrical connecting block with automatic hydronic balancing for surface heating

Description

FloorCon F 200, without room allocation, connection of 6 room thermostats / 8 actuators, 230 V

FloorCon F 300, with room allocation, connection of 10 room thermostats / 12 actuators, 230 V

Item No.

1400984 ::

1400985 ::



Temperature sensor for FloorCon

One flow temperature sensor is required per heating circuit distributor/collector and one return temperature sensor per heating circuit.

Description

Flow temperature sensor for FloorCon F

Return temperature sensor for FloorCon F

Item No.

1029093 ::

1029094 ::



Aktor T 2P Electrothermal actuator, two point control for FloorCon connecting block

With pre-mounted plug for direct connection to the FloorCon connecting block.

Installation position	Any
Installation	Plug-in connection with valve adapter

Valve connection	Cable* (m)	Item No.
Connection thread M 30 x 1.5	1	1012475 ::
Connection thread M 30 x 1.5	2	1012478 ::

Sensor LW TH Electric pipe contact safety switch with concealed temperature setting



Description	Item No.
For maximum limitation of the flow temperature in surface heating systems, control range 20 °C - 90 °C	1143000

R-Tronic Wireless thermostats



Oventrop offers wireless thermostats with two types of radio communication:

The R-Tronic wireless thermostats with open radio communication according to EnOcean standard can be integrated directly into Smart Home systems.

The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat or in the app of the Smart Home System. Depending on the model, an additional measurement of the relative humidity in % and the CO₂ concentration in ppm is

possible.

Power is supplied by batteries or a power pack (100 - 240 V). For the battery-operated models, power supply via the mains is possible as an alternative (see chapter "R-Tronic Accessories").

For the closed R-Tronic system, the following applies: In battery operation, up to 3 participants can be taught in, in mains operation, up to 8 participants can be taught in. In mains operation it is also possible to teach in wireless actuators, window contacts and a single-channel wireless receiver. The single-channel wireless receiver enables the control of a fan depending on the set CO₂ threshold value. For this application a thermostat must be used which can measure the CO₂ concentration.

R-Tronic (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean		

Desig.*	Description	EEP*	Item No.
RT B (EnOcean)	-	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
RTF B (EnOcean)	With integrated humidity sensor	A5-10-06 + RPS	1150781
		A5-10-11	
		A5-10-11 + RPS	
		A5-10-12	
		A5-10-22	
		A5-10-23	

R-Tronic (proprietary radio communication)



Installation	Surface mounting	Communication	Proprietary radio
--------------	------------------	---------------	-------------------

Desig.*	Description	Power supply	Item No.
RT B	-	Battery operated	1150680
RTF B	With integrated humidity sensor	Battery operated	1150681
RTFC K	With integrated humidity and CO ₂ sensor	Mains adaptor with table stand	1150682
RTFC K	With integrated humidity and CO ₂ sensor	Flush-mounted power pack with wall bracket	1150684

R-Tronic Accessories

Flush-mounted power pack with wall bracket



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150692

Mains adaptor with table stand



Description

For the conversion of battery operated R-Tronic wireless thermostats to an external power supply
100 - 240 V AC, 50 - 60 Hz

Item No.

1150694

Cover frame



PU

50

Description

For covering flush-mounted box (milled hole up to Ø 83 mm, e.g. Switzerland),
cover 88 x 88 mm, traffic white (RAL 9016)

Item No.

1150693



6.2 Components for control, regulation and the building management system (BMS)

Actuators	730
Aktor T Electrothermal actuators.....	731
Aktor T Accessories.....	733
Aktor M Electromotive actuators.....	734
Aktor M Accessories.....	737
Actuators with radio interface.....	738

Aktor T Electrothermal actuators



Electrothermal actuators are used for heating, ventilation and air conditioning. The actuators can be used for room temperature control or as zone valves.

They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distributors/collectors, radiant heating ceilings, cooling ceilings and induction units in conjunction with two point

room thermostats.

All electrothermal actuators are protected against overvoltage, a varistor is not required.

Oventrop offers actuators in the variants "normally closed" and "normally open". The model with auxiliary switch can switch e.g. a pump directly via the integrated, potential-free contact.



Aktor T 2P two point control, connection thread M 30 x 1.5

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Cable* (m)	PU	Item No.
230 V	"Normally closed"	1	100	1012415
24 V	"Normally closed"	1		1012416
230 V	"Normally open"	1		1012425
24 V	"Normally open"	1		1012426
230 V	"Normally closed" with integrated auxiliary switch	1		1012435
24 V	"Normally closed"	2		1012442
230 V	"Normally closed"	2		1012452
230 V	"Normally closed"	5		1012455
230 V	"Normally closed"	10		1012459



Aktor T 2P two point control, squeeze connection

Suitable for integrated valve sets and thermostatic valves with squeeze connection of the company Danfoss, series RA.

Installation position	Any
Installation	Plug-in connection with valve adapter

Tension	Version	Cable* (m)	Item No.
230 V	"Normally closed"	1	1012418 °
24 V	"Normally closed"	1	1012419 °

ACTUATORS



Aktor T ST 0 - 10 V control, connection thread M 30 x 1.5

With automatic zero point and valve travel detection.

Installation position Any PU 500

Installation Plug-in connection with valve adapter

Tension	Version	Cable* (m)	Item No.
24 V AC	"Normally closed"	1	1012953

Aktor T Accessories

Valve adapter

PU _____ 5



Description

Connection thread M 30 x 1.5

Connection thread M 30 x 1.5, high model (11 mm), necessary when using the actuators item no. 10124.. and 1012953 with Hycocan ETZ/HTZ or Multiblock T/TU/TFU/TQ and the design cover

For Oventrop valves with connection thread M 30 x 1.0 (manufactured until 1998)

Item No.

1012461

1012462

1012890

Reinforcing cap

Description

For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation

Item No.

1012450



Aktor M Electromotive actuators



Electromotive actuators are used for heating, ventilation and air conditioning. Amongst others, the actuators can be used for room temperature control. They can be used, for example, with conventional radiators, radiators with integrated valve sets, heating circuit distribu-

tors/collectors (except for item no. 1012710 / 11), radiant heating ceilings, cooling ceilings and induction units.

Oventrop offers electromotive actuators with and without communication interfaces.



Aktor M steady control 0 - 10 V, connection thread M 30 x 1.5

With the electrical emergency control function, the actuator moves to a predefined stroke position in the event of a supply voltage failure. Various characteristic lines can be set for Cocon QTZ (item no. 1012717, PN 25 only).

Cable*	1.5 m
Description	Modulating proportional actuator Automatic valve anti-blocking function Zero point detection Mode of operation adjustable

Tension	Electrical emergency control function	Additional two point / three point control	Position feedback	Item No.
24 V	Yes	No	Yes	1012717
24 V	No	Yes	No	1012725
24 V	No	No	Yes	1012726



Aktor M two point and three point control, connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation not adjustable Zero point detection

Tension	Item No.
230 V	1012729



Aktor M two point control, with short operating time (3 s), connection thread M 30 x 1.5

Cable*	1.5 m
Description	Without valve anti-blocking function Mode of operation adjustable

Tension	Item No.
230 V	1012710
24 V	1012711

Aktor M steady control with 0 - 10 V or two point control, squeeze connection

For Cocon QTR / QFC DN 40 / 50.

Cable* 1.5 m Description Automatic valve anti-blocking function



Tension	Description	Item No.
24 V	Additionally for three point control, 10 mm stroke	1158012
24 V	Additionally with emergency control function (failsafe), 10 mm stroke	1158013

Aktor M steady control with 0 - 10 V or two point / three point control, squeeze connection

For two-way valve item no. 11308.. and 16708.. DN 15 to DN 50.

Cable* 1.2 m

Description Automatic valve anti-blocking function
 With position feedback signal 0 - 10 V
 Characteristic line adjustable (linear, equal percentage)



Tension	Item No.
24 V	1158011

Aktor M steady control with 0(2) - 10 V or three point control, squeeze connection

For Cocon QTR / QFC DN 40 to DN 100.

Description Characteristic line linear
 20 mm stroke with adapter
 With position feedback signal 0 - 10 V



Tension	Item No.
24 V	1158020

Aktor M steady control with 0(2) - 10 V resp. 0(4) - 20 mA or two point / three point control, squeeze connection

For Cocon QTR / QFC DN 40 to DN 100.

Description 20 mm stroke, spring return and adapter
 With position feedback signal 0 - 10 V
 Characteristic line linear



Tension	Description	Item No.
24 V	Normally opening	1158021
24 V	Normally closing	1158022



Aktor M steady control with 0 - 10 V, 4 - 20 mA or two point / three point control, squeeze connection

For Cocon QFC DN 125 to DN 200 and for two-way valves DN 65 to DN 150.

Description Characteristic line adjustable (linear, square-law, equal percentage)
 With position feedback signal 0 - 10 V

Tension	Description	Item No.
24 V	40 mm stroke with adapter	1158030
24 V	Normally opening 40 mm stroke, spring return and adapter	1158031
24 V	Normally closing 40 mm stroke, spring return and adapter	1158032



Aktor M with KNX interface, connection thread M 30 x 1.5

Power consumption extremely low, no external power supply necessary. With integrated binary input (e.g. for window contact, dew point sensor, motion detector).

PU 120

Tension	Item No.
24 V (from KNX bus)	1012746



Aktor M with Modubs RTU interface, connection thread M 30 x 1.5

Various parameters can be configured and/or read out via Modbus RTU (e.g. volume flow, valve characteristic line, sensor type, operating hours, operating and fault messages). Two universal inputs/outputs enable the connection of temperature sensors, window contacts and humidity sensors, as well as the control of 0 - 10 V rotary actuators.

Cable* 1.5 m
 Description Zero point detection
 With control signal (0 - 100 %)
 Automatic valve anti-blocking function

Tension	Description	Item No.
24 V	For Cocon QTZ	1012745
24 V	For Cocon QTR / QFC DN 40 / 50	1158014

Aktor M Accessories



Connection module 230 V

For Aktor M 24 V (item no. 1158030 / 31 / 32).

Description

For connection to the supply voltage (230 V), pluggable module

Item No.

1158033



Resistor 0 / 4 mA

For Aktor M 0 - 10 V (item no. 1158020).

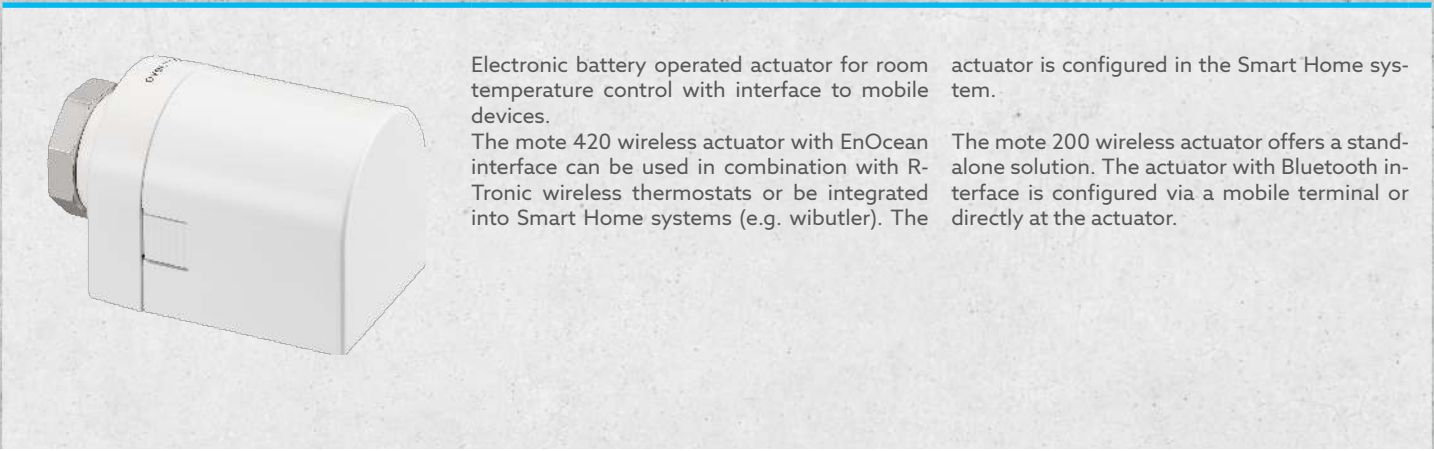
Description

For a conversion of the control to 0 / 4 mA instead of 0 - 10 V, mountable module

Item No.

1158025 °

Actuators with radio interface



Electronic battery operated actuator for room temperature control with interface to mobile devices.

The mote 420 wireless actuator with EnOcean interface can be used in combination with R-Tronic wireless thermostats or be integrated into Smart Home systems (e.g. wibutler). The

actuator is configured in the Smart Home system.

The mote 200 wireless actuator offers a stand-alone solution. The actuator with Bluetooth interface is configured via a mobile terminal or directly at the actuator.

mote 420 Wireless actuator (EnOcean)



Only functions in combination with communication centres / gateways (e.g. with the wibutler gateway) and room thermostats supporting this EnOcean Equipment Profile.

Communication	EnOcean	Battery lifespan	About 2 years
Power supply	Battery operated		

Valve connection

Connection thread M 30 x 1.5

EEP*

A5-20-01

Item No.

1150766



mote 200 Electronic wireless thermostat (Bluetooth)



Communication	Bluetooth	Battery lifespan	About 2 years
Power supply	Battery operated	PU	20

Valve connection

Connection thread M 30 x 1.5

Item No.

1150961



6.2 Components for control, regulation and the building management system (BMS)

Controllers	739
Regtronic Electronic controllers.....	740
Regtronic Accessories.....	744

Regtronic Electronic controllers



Electronic controllers from Oventrop ensure efficient use of energy for heating and cooling. They enable the control, combination and monitoring of various functions in the areas of generation, distribution and transfer to an in-

telligent system. The controllers can take over the coordination of different heat generators (amongst others gas boilers, solid fuel boilers or solar thermal systems) to ensure economical operation.



Regtronic RH weather-compensated heating circuit controller for variable/constant temperature heating circuit

Compatible with Datalog CS-BS-6, CS-BS-1 and Regtronic KM-TCP. Extendable by a maximum of 5 extension modules.

Application	Heating circuit control	Solid-state relays	3
	Heat generator activation	Electromechanical relays	2
	Solid fuel boiler	Potential-free relays	1
	Service water heating	PWM*	2
Operating voltage	230 V	PWM switchable 0 - 10 V*	Yes
Sensor inputs	8	Heat meter	5
Further inputs	Pulse inputs V40	Product compatible to	Regtronic EM
	Grundfos Direct Sensor		

Scope of delivery

	Item No.
1 x Remote control incl. room temperature sensor	
1 x Outdoor sensor	
1 x Sensor attached to the pipe	1152080
1 x Storage cylinder sensor	
1 x Outdoor sensor	
1 x Sensor attached to the pipe	1152083
2 x Storage cylinder sensor	

ErP classification Regtronic RH heating circuit controller

Item no.	Controller	Required accessories	Boiler control			ErP %	Class
			Modulating (0-10 V)	On/Off			
1152083	Regtronic RH	Adapter cable 1152086	●		2.0	II	
1152083		—		●	1.5	III	
1152080	Regtronic RH incl. remote control with room temperature sensor	Adapter cable 1152086	●		4.0	VI	
1152080		—		●	3.5	VII	
1152080		2x Room temperature sensor 1152095 Adapter cable 1152086	●		5.0	VIII	

Regtronic EM Extension module for the control of additional variable/constant temperature heating circuits

For extending the Regtronic controller by 6 sensor inputs and 5 relay outputs.



Operating voltage	230 V	Product compatible to	Regtronic RH Regtronic RM Regtronic RS
Sensor inputs	6		
Solid-state relays	4		
Potential-free relays	1		

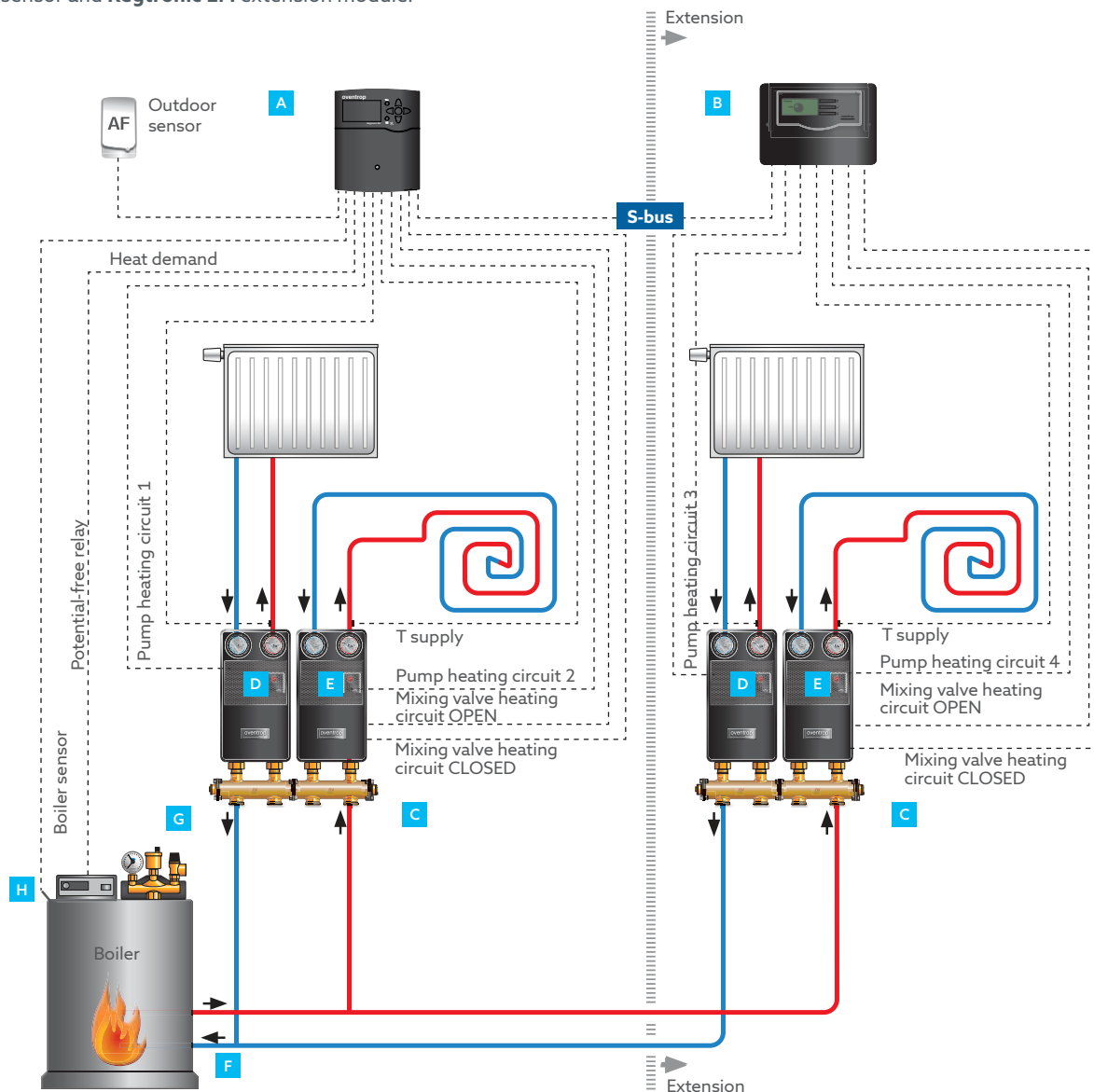
Scope of delivery

1 x Sensor attached to the pipe

Item No.

1152098

Weather-compensated control of 2 variable and 2 constant temperature heating circuits with heat demand (e.g. via a conventional boiler, solid fuel boiler or heat pump) consisting of the **Regtronic RH** heating circuit controller with outdoor sensor and **Regtronic EM** extension module.



- A** Regtronic RH Heating circuit controller with outdoor sensor
- B** Regtronic EM Extension module
- C** Regumat Distributor
- D** Regumat S

- E** Regumat M3
- F** Optiflex Ball valve
- G** MSM-Block Boiler safety device
- H** Expa-Con Valve with lead sealable cap



Regtronic RM Multifunction controller for the control of weather-compensated variable/constant temperature heating circuits as well as solar thermal systems

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Heating circuit control	Solid-state relays	13
	Heat generator activation	Potential-free relays	1
	Solid fuel boiler, solar	PWM*	4
	Service water heating	PWM switchable 0 - 10 V*	Yes
	Storage cylinder management	Heat meter	7
Operating voltage	230 V	Product compatible to	Regtronic EM
Sensor inputs	12		
Further inputs	Pulse inputs V40		
	Grundfos Direct Sensor		
	FlowRotor		

Scope of delivery

Item No.

6 x Storage cylinder sensor	1369555
2 x Collector sensor	



Regtronic RC-P Flexible solar controller for more complex solar thermal systems, heating of potable water and additional functions

Compatible with Datalog CS-BS-1.

Application	Solar	Solid-state relays	3
	Storage cylinder management	Potential-free relays	1
	Service water heating	PWM*	2
Operating voltage	230 V	Heat meter	2
Sensor inputs	4		
Further inputs	Pulse inputs V40		
	FlowRotor		
	Grundfos Direct Sensor		

Scope of delivery

Item No.

1 x Collector sensor	1369551
3 x Storage cylinder sensor	



Regtronic RC Simple solar controller for controlling a solar thermal system with one collector

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Solar	Solid-state relays	2
		Potential-free relays	1
Operating voltage	230 V	PWM*	2
Sensor inputs	4		
Further inputs	Pulse inputs V40		

Scope of delivery

Item No.

1 x Collector sensor	1369549
3 x Storage cylinder sensor	



Regtronic RS extension module for the control of the Regucor WH energy storage centre and other system components

Compatible with Datalog CS-BS-6 and CS-BS-1.

Application	Heating circuit control	Solid-state relays	13
	Heat generator activation	Potential-free relays	1
	Solid fuel boiler, solar	PWM*	4
	Service water heating	PWM switchable 0 - 10 V*	Yes
	Storage cylinder management	Heat meter	7
Operating voltage	230 V	Product compatible to	Regtronic EM
Sensor inputs	12		
Further inputs	Pulse inputs V40		
	FlowRotor		
	Grundfos Direct Sensor		

Scope of delivery

	Item No.
1 x Outdoor sensor	
1 x Collector sensor	
1 x Sensor attached to the pipe	1383485 °
3 x Storage cylinder sensor	

Regtronic RD-W System controller for the integration of the Regudis W dwelling stations into the heat supply



Application

	Item No.
Flow temperature and differential pressure control with demand recognition	1342093

Regtronic Accessories

Sensor LW TH

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, sensor element PT 1000, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, sensor element PT 1000, continuous temperature range up to 180 °C, length 2 m

1369094

Temperature sensor attached to the pipe

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection at the pipework, with fastening clip Ø 25 - 40 mm and heat conducting paste, sensor element PT 1000, continuous temperature range up to 180 °C, length 1.5 m

Item No.

1369095

Outside temperature sensor

Suitable for Regtronic RH, RH-HT, EM, RM, RS and RD-W.

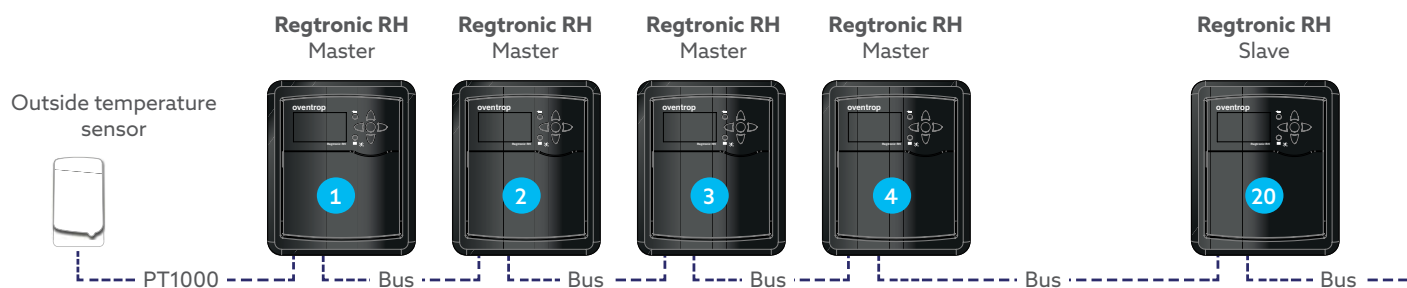


Description

For outside temperature measurement, sensor element PT 1000, splash-proof housing, surface mounting

Item No.

1152099



Example: Distribution of a temperature sensor (outside temperature sensor item no. 1152099) to up to 20 **Regtronic RH** heating circuit controllers (item no. 1152080/1152083)



Room controller

Suitable for Regtronic RH, RH-HT, EM, RM and RS. With operating mode switch, remote control and room temperature sensor.

Description	Item No.
For operating mode setting (Auto, Night, Summer, Off), for heating curve and function setting (Party, Heating off), control from the living room, sensor element PT 1000, surface mounting	1152087



Remote control with room temperature sensor

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

Description	Item No.
For heating curve and function setting (Party, Heating circuit off), control from the living room, sensor element PT 1000, surface mounting	1152096



Room temperature sensor

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

Description	Item No.
For room temperature measurement, sensor element PT 1000, surface mounting	1152095



Room thermostat for two pipe applications, surface mounting

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

PU 25

Description	Item No.
230 V, sensor element PT 1000	1152051 °
230 V, concealed temperature setting, sensor element PT 1000	1152055 °



Adapter cable PWM/ 0 - 10 V

Suitable for Regtronic RH, RH-HT, RM, RS and RQ.

Description	Item No.
For signal transmission from the heating circuit controller to a modulating heat generator with 0 - 10 V interface	1152086



Regtronic PSW Signal converter (PWM/ 0 - 10 V)

For all solar controllers.

Description

For the conversion of an asynchronous signal into a high-efficiency pump control signal (PWM / 0 - 10 V)

Item No.

1369532



Connection socket with surge protection

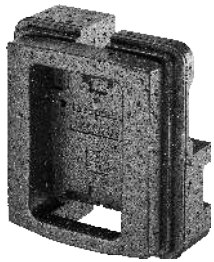
For all solar controllers.

Description

For protection of the collector sensor against externally induced overvoltage and local lightning strikes, splash-proof, IP 65

Item No.

1369591



Controller location

For solar controller Regtronic RC / RC-P.

Description

For Regusol SH/LH DN 25 (manufactured from 2015), for retrofitting a Regtronic RC/RC-P controller

Item No.

1369553



Regumat Sensor connection set

For Regtronic RD-W system controller.

Description

For connecting differential pressure and temperature sensors to the pipework

For connecting temperature sensors to the pipework

Item No.

1357291

1357292



Regumat Tailpipe set

For system controller Regtronic RD-W.

Description

Coupling G 2 union nut (2 x), for connection to Regumat DN 32

Coupling R 2 external thread x G 2 union nut (1 x), for connection to Regumat DN 40 / 50

Item No.

1352088

1352089



Service and data

7



7.1 Service

System design	751
Design of Cofloor surface heating.....	752
Design of solar thermal Solcos.....	754
Heating load calculation.....	755
Services	756
Rental devices.....	757
Service.....	758



7.1 Service

System design	751
Design of Cofloor surface heating.....	752
Design of solar thermal Solcos.....	754
Heating load calculation.....	755

Design of Cofloor surface heating

Prerequisite:

A design is commissioned with a service agreement.

The parameters, data and installations specified in the service agreement are the basis for the design to be carried out. The results are to be checked on site.

Basic

Consisting of

- Determination and tabular output of room heating and laying data (number of heating circuits, pipe lengths, laying grid, volume flow, pressure loss, preset values, surface temperatures)
- Material determination of the Oventrop components
- Optional: Compilation of tender texts (Word and GAEB format)

Item No.

9900015

Basic plus

Consisting of

- Determination and tabular output of room heating and laying data (number of heating circuits, pipe lengths, laying grid, volume flow, pressure loss, preset values, surface temperatures)
- Material determination of the Oventrop components
- Optional: Compilation of tender texts (Word and GAEB format)
- Insertion of the laying data (number of heating circuits, laying grid, circuit length) into the floor plan drawing in the form of heating circuit stamps

Item No.

9900016

Premium

Consisting of

- Determination and tabular output of room heating and laying data (number of heating circuits, pipe lengths, laying grid, volume flow, pressure loss, preset values, surface temperatures)
- Material determination of the Oventrop components
- Optional: Compilation of tender texts (Word and GAEB format)
- Insertion of the laying data (number of heating circuits, laying grid, circuit length) into the floor plan drawing in the form of heating circuit stamps
- Graphic design planning for the laying of the heating circuits / arrangement of the distributors/collectors, supply pipes and heating circuits
- Determination of the nominal pipe diameters from the heat generator to the respective heating circuit distributor/collector
- Determination of the pump capacity
- If necessary, design of buffer storage cylinder
- Output of the data in a riser scheme

Item No.

9900017

Design of industrial surface heating - premium

Consisting of	Item No.
<ul style="list-style-type: none"> - Determination and tabular output of room heating and laying data (number of heating circuits, pipe lengths, laying grid, volume flow, pressure loss, preset values, surface temperatures) - Material determination of the Oventrop components - Optional: Compilation of tender texts (Word and GAEB format) - Insertion of the laying data (number of heating circuits, laying grid, circuit length) into the floor plan drawing in the form of heating circuit stamps - Graphic design planning for the laying of the heating circuits / arrangement of the distributors/collectors, supply pipes and heating circuits - Determination of the nominal pipe diameters from the heat generator to the respective heating circuit distributor/collector - Determination of the pump capacity - If necessary, design of buffer storage cylinder - Output of the data in a riser scheme 	9900020

Design of Regudis dwelling stations

Consisting of	Item No.
<ul style="list-style-type: none"> - Determination and calculation of the number of Regudis dwelling stations - Dimensioning of the pipework (heating) from the heat generator to the dwelling stations - Determination of the nominal pipe diameters (potable water/PWC) from the house connection to the dwelling stations - Determination of the pump capacity - Design of heat generator and buffer storage cylinder - Output of the results in a riser scheme 	9900033

Design Regumaq fresh water stations

Consisting of	Item No.
<ul style="list-style-type: none"> - Determination and calculation of the number of Regumaq fresh water stations - Determination of the total number of cascades - Determination of the nominal pipe diameters between the buffer storage cylinder and the fresh water station - Determination of the nominal pipe diameters (potable water/PWC) from the house connection to the fresh water station - Design of heat generator and buffer storage cylinder - Tabular output of the results 	9900034

Design of solar thermal Solcos

Prerequisite:

A design is commissioned with a service agreement.

The parameters, data and installations specified in the service agreement are the basis for the design to be carried out. The results are to be checked on site.

Basic

Consisting of

- Determination and calculation of the number of solar collectors
- Design of the solar pipework with nominal pipe diameters, pump delivery head and valve settings
- Design of buffer storage cylinder
- Output of the required material in a material list
- If necessary, calculation of a compound plant

Item No.

9900039

Premium

Consisting of

- Determination and calculation of the number of solar collectors
- Design of the solar pipework with nominal pipe diameters, pump delivery head and valve settings
- Design of buffer storage cylinder
- Output of the required material in a material list
- If necessary, calculation of a compound plant
- Static calculation of wind and snow load

Item No.

9900041

Design building automation DynaTemp

Consisting of

- Determination and development of a concept
- Creation of parts lists
- Design of transformer
- Insertion of the components and pipes into the floor plan drawing

Item No.

9900040

Design thermostatic valves

Consisting of

- Design of thermostatic valves including preset values
- Determination of nominal pipe diameters (heating) according to specification
- Determination of the pump capacity
- Design of heat generator and buffer storage cylinder
- Output of the data in a riser scheme

Item No.

9900025

Heating load calculation

Prerequisite:

A design is commissioned with a service agreement.

The parameters, data and installations specified in the service agreement are the basis for the design to be carried out. The results are to be checked on site.

New construction

The heating load calculation is limited to residential buildings with a maximum of 10 dwelling units.

Consisting of

- Calculation of the building heating load based on DIN EN 12831 (new construction) according to specifications

Item No.

9900028

Refurbishment

The heating load calculation is limited to residential buildings with a maximum of 10 dwelling units.

Consisting of

- Calculation of the building heating load according to the building age class or according to the current EnEV (German Energy Saving Ordinance) certificate (to be provided by the client)

Item No.

9900029



7.1 Service

Services	756
Rental devices.....	757
Service.....	758

Rental devices



Rental of OV-DMC 3 measuring system

Price on request at rental

Support by Oventrop service technicians for introduction and training, assistance and/or supervision for use and handling of the measuring device.

Rental of a measuring device. A measuring device for the regulation of double regulating and commissioning valves can be rented from Oventrop GmbH & Co. KG.

Consisting of

With interfaces for communication with commercially available smartphones, tablets and PCs

Item No.

1069278

Service

Catalogue

Consisting of

Catalogue Products 2021

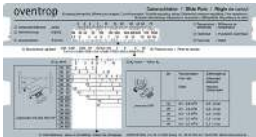
Item No.

9999979



Seminars

Oventrop offers technical seminars, e.g. Functioning hydronic systems and Calculation of heating, cooling and sanitary systems. You can find up-to-date information on the technical seminars at www.ventrop.com.



Slide rule

For the design of valves for hydronic balancing



OVplan

Software for system calculation for heating, cooling, potable water, surface heating and Regudis dwelling stations.

OVe.r.p.

Software for calculating the ErP energy efficiency class of compound systems.

OVsol

Software for the calculation of solar pipeworks.

OVselect

Software for valve design.



Oventrop App

Application for

- iOS
- Android

- Functions of the Oventrop app:
- ErP heating label calculation
 - Heat load calculation according to DIN EN 12831
 - Thermostatic valve design
 - Double regulating and commissioning valve design
 - Differential pressure regulator design
 - Technical data
 - Oventrop catalogue



BIM/CAD Data

-
- Revit
 - DWG
 - VDI 3805
-

ETIM Classifications

VDI 3805 Data sets

-
- Heating
 - Potable water
 - Surface heating
 - Solar thermal energy
 - Storage cylinders
-

Article master data (Excel, Datanorm, 2ba)

Formats:

-
- Excel
 - Datanorm
 - 2ba



7.2 General information

General information **763**

Imprint..... 764

Index **765**

Alphabetical index..... 766

Article number, EAN code..... 769



7.2 General information

General information **763**

Imprint..... 764

IMPRINT

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7.2 General information

Index	765
Alphabetical index.....	766
Article number, EAN code.....	769

	Page
A	
Accessories and spare parts.....	358
Accessories - OV Measuring system.....	322
Actuators.....	202
Actuators Accessories.....	204
Actuators with radio interface.....	56, 738
ADV 9 Thermostatic valves.....	83
AF Thermostatic valves.....	88
Air vents.....	374
Aktor M Accessories.....	297, 737
Aktor M Electromotive actuators.....	54, 294, 734
Aktor T Accessories.....	53, 733
Aktor T Accessories and spare parts.....	293
Aktor T Electrothermal actuators.....	51, 292, 731
AQH Thermostatic valves.....	68
AQ Thermostatic valves.....	66
Aquamodul Accessories and spare parts.....	584
Aquamodul Distributor system for potable water.....	582
Aquanova Water filters.....	589
Aquanova Water filters Accessories and spare parts.....	591
Aquastrom C Accessories and spare parts.....	541
Aquastrom C Static control valves.....	539
Aquastrom F Free-flow valves.....	554
Aquastrom FR Free-flow valves with backflow preventer.....	561
Aquastrom G Frost-proof outdoor tap.....	578
Aquastrom KFR Combined free-flow valves with backflow preventer.....	558
Aquastrom K Thermostatic cold water circulation valves.....	532
Aquastrom T plus Thermal circulation valves.....	529
Aquastrom UP Flush-mounted free-flow valves.....	562
Aquastrom UP-MS Water meter installation sets.....	577
Aquastrom UP-Therm Flush-mounted circulation valves.....	533
Aquastrom VT Thermal circulation valves.....	527
A Thermostatic valves.....	86
AV 9 Thermostatic valves.....	77
AZ V Thermostatic valves.....	90
B	
Ball valves DZR.....	339
Brawa-Mix Accessories and spare parts.....	574
Brawa Mix Thermostatic service water mixing valves.....	573
Butterfly valves.....	361
Bypass mixing valves and bypass valves.....	593
Bypass mixing valves and bypass valves Accessories and spare parts.....	595
C	
Check valves.....	442
ClimaCon F Room thermostats for surface heating.....	38, 194, 720
Cocon Accessories and spare parts.....	287
Cocon QDP Control valves with differential pressure regulator... ..	286
Cocon QTR Valves DN 40 and DN 50.....	283
Cocon QTZ Valves up to DN 32.....	280
Cocon Q Valves with flanges.....	284
Cofit S Compression fittings.....	132
Cofloor Accessories and spare parts.....	183
Cofloor Base mat system.....	176
Cofloor Drywall construction system.....	181
Cofloor Tacker system.....	174
Cofloor Velcro system.....	179
Combi 2 Radiator lockshield valves.....	98
Combi 3 Radiator lockshield valves.....	100
Combi 4 Radiator lockshield valves.....	101
Combi Accessories and spare parts.....	106
Combi C Radiator lockshield valves.....	104
Combi E Radiator lockshield valves.....	103
Combi LR Radiator lockshield valves.....	105
Compression fitting - for products with internal thread.....	376
Connecting blocks.....	200
Connection of the boiler and storage cylinder to the pipework....	437

	Page
Connection set for external thread - for products without union nut and sealing ring.....	377
Connection sets for Cocon QTZ PN 25.....	379
Connection technology Accessories and spare parts.....	136
Control sets for surface heating.....	192
Copert and Copex Plastic pipes.....	170
Copipe HSC Multi-layer composite pipes.....	172
CV 9 Thermostatic valves.....	81
D	
Design of Cofloor surface heating.....	752
Design of solar thermal Solcos.....	754
Differential pressure relief valves.....	277
Dirt separators.....	372
Distributors / Hydraulic separators Accessories and spare parts.....	422
Domestic water stations and heating system filling stations.....	575
Domestic water stations and heating system filling stations Spare parts.....	576
DyanTemp CR-BSX for decentralised and central individual room temperature control.....	696
DynaTemp CS-BS for networking of stations for heat generator/heating circuit and solar thermal energy.....	702
DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems.....	693
E	
EQ Thermostatic valves.....	69
E Thermostatic valves.....	84
Expa-Con Cap valves.....	441
F	
Fill and drain cocks Accessories and spare parts.....	349
Filling and venting, filling level.....	613
Flexo-Bloc Tank extraction systems.....	620
Flush-mounted free-flow valves Accessories and spare parts.....	566
Flypass 4TZ Basic fitting.....	305
Flypass Accessories.....	308
Flypass sets.....	306
Free-flow and KFR valves Accessories and spare parts.....	564
H	
H-blocks Accessories and spare parts.....	119
Heating load calculation.....	755
Heating oil filters/Heating oil deaerators Accessories and spare parts.....	609
Heating oil kits for export.....	638
Hose lines according to DIN EN ISO 6806.....	634
Hycococon Accessories and spare parts.....	272
Hycococon ATZ Shutoff valves.....	270
Hycococon DTZ Differential pressure regulators.....	268
Hycococon ETZ and HTZ Accessories.....	316
Hycococon ETZ Two-way valves.....	314
Hycococon HTZ Two-way valves with high flow rate.....	315
Hycococon Valve inserts.....	271
Hycococon VTZ Double regulating and commissioning valves.....	267
Hycococon VTZ Balancing valves.....	276
HydroCom A Shutoff valves.....	266
HydroCom V Double regulating and commissioning valves.....	265
HydroControl Accessories and spare parts.....	256
HydroControl A Shutoff valves.....	242
HydroControl D Differential pressure regulators.....	240
HydroControl Double regulating and commissioning valves with measuring orifice.....	251
HydroControl Double regulating and commissioning valves.....	243
HydroControl Double regulating and commissioning valves for shipbuilding.....	249
HydroControl Double regulating and commissioning valves for solar.....	253

Page	Page		
HydroControl M Double regulating and commissioning valves with measuring orifice.....	239	Optibal TW Accessories and spare parts.....	571
HydroControl Shutoff valves.....	254	Optibal TW Ball valves for potable water.....	569
HydroControl V Double regulating and commissioning valves.....	238	Optibal W6 Accessories and spare parts.....	302
Hydrocor HP/HS Accessories and spare parts.....	510	Optibal W6 Six-way ball valves.....	301
Hydrocor HP Buffer storage cylinders.....	508	Optiflex Fill and drain ball valves.....	345
Hydrocor HS Solar buffer storage cylinders.....	509	Other ball valves.....	340
Hydrocor WB Bivalent potable water storage cylinder.....	512	Other fill and drain cocks.....	348
Hydrocor WM Monovalent potable water storage cylinders.....	511	OV-Connect Differential pressure sensor.....	321
HydroFixx Hydraulic separator / distributor combination.....	419	OV-DMC 3 Measuring device.....	320
Hydromat Accessories and spare parts.....	262	OV-Flex ST Accessories and spare parts.....	669
Hydromat Differential pressure regulators.....	260	OV-Flex ST Pipes.....	668
Hygate Gate valves.....	352		
Hygate Gate valves with flanges.....	353		
		P	
I		pinox Thermostats.....	28
Individual parts.....	382	Pipeline valves.....	627
Inversion fittings.....	118	Piston type spring assisted check valves.....	364
i-Tronic Climate meter.....	49	Pressure gauge cocks.....	356
		Pressure gauge shutoff valves.....	357
		Products for vacuum tank monitoring.....	618
M			
Manual regulating heads.....	33	Q	
Manual regulating valves.....	91	Q-Tech Accessories and spare parts.....	73
Measuring orifices.....	325		
mote 200 Electronic wireless thermostat (Bluetooth).....	32		
Mounting and conversion aids.....	129	R	
MSM-Block Boiler safety devices.....	440	R-Con Accessories.....	210
Multiblock T Connection fittings with thermostatic valve.....	114	R-Con Wireless receivers.....	208
Multiblock TQ Connection fittings with thermostatic valve.....	70	Regtronic Accessories.....	744
Multiblock TQ-RTL Connection fitting with thermostatic valve and return temperature limiter.....	71	Regtronic Accessories and spare parts.....	661
Multiblock T-RTL Connection fittings with thermostatic valve and return temperature limiter.....	116	Regtronic Electronic controllers.....	431, 659, 740
Multidis Accessories and spare parts.....	161	Regucirc Accessories and spare parts.....	550
Multidis R Accessories and spare parts.....	587	Regucirc Circulation station.....	549
Multidis R Sanitary distributors.....	586	Regucor WH/WHS Accessories and spare parts.....	517
Multidis SF Heating circuit distributors/collectors for surface heating and surface cooling.....	156	Regucor WH Energy storage centres.....	516
Multidis SFI Distributors/collectors for industrial surface heating / cooling and concrete core activation.....	160	Regucor WHS Energy storage centres.....	515
Multidis SFQ Heating circuit distributors/collectors with Q-Tech.....	158	Regudis H Accessories and spare parts.....	450
Multidis SH Accessories.....	126	Regudis H Transmission stations.....	446
Multidis SH Heating circuit distributors/collectors.....	125	Regudis W-HTE Accessories and spare parts.....	475
Multiflex F H-blocks.....	117	Regudis W-HTE Electronic dwelling stations.....	473
Multiflex FQ Connection fittings without thermostatic valve.....	72	Regudis W-HTF Hydronic dwelling stations.....	492
		Regudis W-HTU/W-HTF Accessories and spare parts.....	497
		Regudis W-HTU Hydronic dwelling stations.....	485
O		Regudrain Accessories and spare parts.....	546
Ofix Compression fittings.....	133	Regudrain Flushing stations.....	545
Ofix Connection fittings.....	580	Regufloor Accessories and spare parts.....	189
Ofix-Oil Compression fittings.....	629	Regufloor Control stations for surface heating.....	187
Ofix-Oil Cutting ring compression fittings.....	630	Regumaq X-25/X-45 Accessories and spare parts.....	456
Ofix-Oil Double nipples.....	633	Regumaq X-25 Fresh water stations.....	454
Oilpur Heating oil filters.....	606	Regumaq X-30/XZ-30 Accessories and spare parts.....	465
Oilstop Anti-siphon valves.....	626	Regumaq X-45 Fresh water stations.....	455
OKF Accessories and spare parts.....	679	Regumaq X-80 Accessories and spare parts.....	461
OKF-CK22 Flat-plate collectors.....	676	Regumaq X-80 Fresh water stations.....	460
OKF-CS22 Flat-plate collectors.....	677	Regumaq XH Accessories and spare parts.....	469
OKF-MQ25 Flat-plate collectors.....	678	Regumat Distributors.....	415
OKP Accessories and spare parts.....	672	Regumat F Accessories and spare parts.....	407
OKP Tube collectors.....	671	Regumat F Stations for fixed value control.....	404
One pipe valves Accessories and spare parts.....	148	Regumat Heat exchanger.....	424
One pipe valves with shutoff.....	142	Regumat High-efficiency pumps.....	429
Optibal Accessories.....	341	Regumat M3 Stations for variable temperature heating circuits.....	393
Optibal Ball valves with lever.....	333	Regumat RTA Accessories and spare parts.....	413
Optibal Ball valves with plastic handle.....	330	Regumat RTA Stations for return temperature increase.....	410
Optibal Ball valves with T-handle.....	334	Regumat S/M3 Accessories and spare parts.....	398
Optibal High pressure ball valves PN 40.....	337	Regumat S Stations for constant temperature heating circuits.....	388
Optibal High temperature ball valves.....	336	Regumat Tailpipe sets.....	426
Optibal P Pump ball valves.....	335	Regumat Thermal insulations.....	428
		Regusol Accessories and spare parts.....	651
		Regusol ELH Stations with electronic controller and vent pot.....	647
		Regusol LH Stations with vent pot.....	645
		Regusol PH Pump circuits.....	642
		Regusol SH Stations.....	643

	Page
Regusol X Stations with heat exchanger.....	649
Rental devices.....	757
Replacement valve insert.....	96
Return temperature limiters Accessories.....	228
Return temperature limiter sets.....	227
RFV 9 Thermostatic valves.....	80
Room thermostats Accessories.....	44, 199, 726
Room thermostats heating.....	40, 196, 722
Room thermostats heating/cooling.....	42, 198, 724
Room thermostats heating/cooling with fan control.....	43, 725
R-Tronic Accessories.....	48, 207, 729
R-Tronic system for individual room temperature control.....	713
R-Tronic Wireless thermostats.....	46, 205, 728

S

Service.....	758
Sets with pinox thermostat.....	61
Sets with Uni LH thermostat.....	58
Sets with Uni SH thermostat.....	59
Sets with vindo TH thermostat.....	62
Shutoff valves.....	354
Smart Building system solutions Accessories and spare parts.....	705
Smart Home system solutions Accessories.....	716
Solar Diaphragm expansion tanks.....	664
Solar Diaphragm expansion tanks Accessories and spare parts.....	666
Solar In-line tanks.....	665
Solcos Solar packages with flat-plate collectors.....	685
Solcos Solar packages with tube collectors.....	684
Spare parts for butterfly valves.....	363
Spare parts for strainers.....	370
Strainer.....	367
Swing check valves.....	365

T

Tailpipe sets for external thread, for products with union nuts and sealing rings.....	380
Tank extraction.....	622
Tank filling limiter Accessories and spare parts.....	617
Tank filling limiters.....	616
Temperature controllers.....	311
Thermal circulation valves Accessories and spare parts.....	535
Thermostatic valves Accessories and spare parts.....	93
Thermostats Accessories and spare parts.....	34
Three-way conversion valves.....	145
Toc Heating oil filter / deaerator combinations and heating oil de-aerators.....	604
Tri-CTR Three-way diverting and mixing valves.....	310
Two-/three-way valves with flanges.....	312
Two pipe valves with shutoff.....	150

U

Unibox Accessories and spare parts.....	215
Unibox Return temperature control.....	212
Unibox Room temperature control and return temperature control.....	213
Uni CH Thermostats.....	30
Unidis Accessories and spare parts.....	223
Unidis Connection without distributor/collector for surface heating.....	220
Uni F Thermostats.....	31
Uni L Special thermostats.....	22
Uni L Thermostats.....	20
Uni SH Thermostats.....	27
Uni X Thermostats.....	25
Unifix Refurbishment of one pipe heating systems.....	139

V

Valve inserts Accessories and spare parts.....	112
Valve inserts for radiators with integrated valve set.....	110

	Page
Valves for return temperature limitation.....	226
vindo Thermostats.....	29

W

wibutler Smart Home system.....	708
---------------------------------	-----

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1010558	4026755285321	146		1012415	4026755415520	203, 292, 215, 223, 190, 141, 731, 711, 715, 168, 51	
1010559	4026755285338	146		1012416	4026755415537	203, 292, 190, 141, 731, 711, 715, 168, 699, 51	
1010568	4026755285345	146		1012418	4026755420715	731, 51	
1010569	4026755285352	146		1012419	4026755420722	731, 51	
1010599	4026755114348	146		1012425	4026755415544	292, 731, 51	
1010999	4026755114751	129		1012426	4026755415551	292, 731, 51	
1011265	4026755114850	30		1012435	4026755415568	292, 731, 51	
1011360	4026755276916	25		1012442	4026755415988	292, 731, 699, 51	
1011364	4026755219838	25		1012450	4026755422122	293, 706, 733, 53, 204	
1011365	4026755219845	25		1012452	4026755415995	292, 480, 731, 51	
1011374	4026755231830	26		1012455	4026755416008	292, 731, 51	
1011375	4026755225068	26		1012459	4026755416015	292, 731, 51	
1011380	4026755353433	35		1012461	4026755422139	293, 733, 53, 204	
1011381	4026755353440	35		1012462	4026755422146	293, 733, 53, 204	
1011382	4026755353457	35		1012475	4026755481969	201, 45, 727	
1011383	4026755353464	35		1012478	4026755481976	201, 45, 727	
1011393	4026755248494	35		1012565	4026755115567	33	
1011401	4026755114904	22		1012575	4026755182965	33	
1011410	4026755318043	21		1012595	4026755463224	216, 223	
1011440	4026755461565	21		1012596	4026755468564	216, 223	
1011445	4026755228717	34		1012597	4026755468571	216, 223	
1011450	4026755208160	34		1012710	4026755332285	294, 734, 54	
1011452	4026755232004	34		1012711	4026755372182	294, 734, 54	
1011464	4026755182972	20		1012717	4026755424744	294, 734, 54	
1011465	4026755114959	20		1012725	4026755441055	294, 189, 734, 54	
1011467	4026755114973	20		1012726	4026755441062	294, 189, 734, 54	
1011468	4026755175387	20		1012729	4026755441086	294, 480, 190, 734, 54	
1011469	4026755175349	20		1012745	4026755464672	736, 296, 55	
1011472	4026755208801	21		1012746	4026755468472	736, 296, 55	
1011475	4026755114980	21		1012890	4026755357851	293, 733, 53, 204	
1011478	4026755175363	21		1012953	4026755423365	292, 700, 732, 52	
1011479	4026755175332	21		1012954	4026755467598	451	
1011488	4026755227758	20		1013066	4026755327588	29	
1011489	4026755419467	94, 36		1013076	4026755327595	29	
1011497	4026755342741	35		1013161	4026755115611	142	
1011565	4026755229455	25		1013162	4026755115628	142	
1011566	4026755231847	25		1013164	4026755370867	142	
1011575	4026755229462	26		1013361	4026755115642	150	
1011665	4026755115123	20		1015500	4026755116694	24	
1011666	4026755187489	20		1015651	4026755162479	122	
1011682	4026755187502	20		1015711	4026755183931	117	
1011685	4026755115185	21		1015781	4026755183924	117	
1011688	4026755227765	20		1015803	4026755443080	72	
1011766	4026755232042	34		1015804	4026755443097	72	
1011775	4026755234237	34		1015805	4026755443103	72	
1011865	4026755115277	706, 35		1015813	4026755228878	117	
1011866	4026755187519	706, 35		1015814	4026755228885	117	
1012065	4026755295030	27		1015873	4026755443110	72	
1012066	4026755382181	27					
1012069	4026755355222	27					
1012080	4026755301236	35					
1012081	4026755301243	35					
1012082	4026755320039	35					
1012085	4026755316001	27					
1012165	4026755396461	28					
1012166	4026755414233	28					
1012175	4026755402018	28					
1012176	4026755440416	28					
1012275	4026755115437	31					
1012295	4026755115444	31, 167					
1012296	4026755187526	31, 167					
1012297	4026755187533	31, 167					
1012395	4026755187540	31, 167					
1012396	4026755187557	31, 167					

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1015874	4026755443127	72		1017501	4026755232059	95	
1015875	4026755443134	72		1018080	4026755118247	110	
1015883	4026755228892	117		1018082	4026755298949	110	
1015884	4026755228908	117		1018083	4026755118261	110	
1015896	4026755330649	120		1018084	4026755333510	111	
1015943	4026755228359	117		1018086	4026755171846	111	
1015944	4026755228366	117		1018090	4026755118278	110	
1015993	4026755228373	117		1018097	4026755236934	110	
1015994	4026755228380	117		1018098	4026755308037	110	
1016166	4026755302547	122		1018099	4026755333534	111	
1016168	4026755302554	122		1019003	4026755118469	129	
1016175	4026755302561	122		1019004	4026755118476	129	
1016177	4026755302578	122		1019006	4026755118483	129	
1016194	4026755116878	146		1019080	4026755424362	110	
1016196	4026755116885	146		1019082	4026755424379	110	
1016254	4026755116939	146		1019083	4026755424386	110	
1016256	4026755116946	146		1019084	4026755454246	111	
1016284	4026755116977	146		1019086	4026755454253	111	
1016286	4026755116984	146		1019099	4026755454277	111	
1016304	4026755117059	121		1019103	4026755118506	129	
1016362	4026755117141	118		1019104	4026755118513	129	
1016363	4026755229677	118		1019106	4026755118520	129	
1016372	4026755117158	118		1019204	4026755356595	129	
1016452	4026755117257	122		1019251	4026755118599	129	
1016462	4026755179569	118		1019252	4026755118605	129	
1016463	4026755229684	118		1019253	4026755118612	129	
1016567	4026755302585	122		1019254	4026755118629	129	
1016569	4026755302592	122		1019303	4026755118636	130	
1016575	4026755302608	122		1019304	4026755118643	161	
1016577	4026755302615	122		1019306	4026755118650	130	
1016673	4026755117400	121		1019351	4026755118674	130	
1016674	4026755117417	121		1019352	4026755118681	130	
1016684	4026755252804	144		1019362	4026755118704	130	
1016813	4026755250343	143		1019365	4026755118728	130	
1016823	4026755250350	144		1019372	4026755366624	130	
1016824	4026755250367	144		1019374	4026755118742	146	
1016840	4026755281866	134		1019376	4026755118759	146	
1016841	4026755281873	134		1019384	4026755118773	146	
1016842	4026755281880	134		1019386	4026755118780	146	
1016843	4026755281897	134		1019394	4026755118797	146	
1016844	4026755281903	134		1019396	4026755118803	146	
1016845	4026755281910	134		1019451	4026755118827	130	
1016853	4026755117653	134, 143, 152		1019497	4026755356601	147	
1016860	4026755117660	134		1019498	4026755356618	147	
1016861	4026755117677	134		1022650	4026755208047	216	
1016862	4026755117684	134		1022652	4026755330465	216	
1016863	4026755117691	134		1022653	4026755394139	216, 223	
1016864	4026755117707	134		1022654	4026755401202	223	
1016865	4026755117714	134		1022655	4026755313000	216	
1016870	4026755117721	135		1022668	4026755330618	220	
1016873	4026755117738	135		1022669	4026755330625	220	
1016874	4026755117745	135		1022691	4026755202021	218	
1016876	4026755117769	135		1022693	4026755208054	218	
1016877	4026755117776	135		1022694	4026755208061	218	
1016879	4026755117790	135		1022698	4026755221954	93, 34	
1016882	4026755117820	135		1022699	4026755221961	217, 228	
1016883	4026755117837	135		1022722	4026755471601	221	
1016885	4026755117844	135		1022723	4026755471618	221	
1016951	4026755117851	143, 151		1022724	4026755471625	220	
1016953	4026755117868	143, 151		1022725	4026755471632	221	
1017056	4026755117943	148		1022726	4026755471649	221	
1017057	4026755117950	96		1022729	4026755471656	222	
1017060	4026755117967	96		1022731	4026755462531	212	
1017351	4026755118162	96		1022733	4026755463231	213	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1022734	4026755463248	213		1028464	4026755187748	227	
1022735	4026755462555	212		1028750	4026755119893	151	
1022736	4026755462562	214		1029093	4026755481983	200, 44, 726	
1022737	4026755467833	213		1029094	4026755481990	200, 44, 726	
1022738	4026755467840	214		1029651	4026755119923	136, 632	
1022739	4026755463255	214		1029652	4026755119930	632, 652	
1022750	4026755462579	212		1029653	4026755119947	136	
1022751	4026755462586	212		1029654	4026755119954	136, 632, 652	
1022760	4026755462609	212		1029655	4026755119961	136, 652	
1022761	4026755462616	212		1029656	4026755119978	136, 632, 652	
1022764	4026755467857	217		1029657	4026755119985	136, 652	
1022765	4026755467864	217		1032003	4026755120141	348	
1022766	4026755467871	217		1032004	4026755120158	348	
1022770	4026755463279	213		1032006	4026755120165	348	
1022771	4026755463286	213		1032008	4026755120172	348	
1022772	4026755463293	213		1032403	4026755120226	347	
1022774	4026755467888	216		1032404	4026755120233	347	
1022775	4026755467895	216		1033091	4026755120318	350	
1022776	4026755467901	216		1033152	4026755400311	347	
1022777	4026755471663	224, 217		1033308	4026755120387	346	
1022778	4026755471670	224, 217		1033313	4026755199581	345	
1022779	4026755471687	224, 217		1033314	4026755199598	345, 165	
1022780	4026755463309	214		1033315	4026755199833	345	
1022781	4026755463316	214		1033316	4026755199840	346	
1022782	4026755463323	214		1033351	4026755205718	345	
1022787	4026755471694	217		1033352	4026755199864	345	
1022788	4026755471700	217		1033354	4026755199871	345	
1022789	4026755471717	217		1033372	4026755394764	347	
1022792	4026755471724	218		1033413	4026755208283	346	
1024363	4026755187649	226		1033414	4026755208290	346	
1024364	4026755187656	226		1033672	4026755394771	347	
1024463	4026755187663	226		1033814	4026755199888	346	
1024464	4026755187670	226		1033852	4026755199895	346	
1026970	4026755295054	217		1033914	4026755199901	346	
1026981	4026755187687	271, 316, 217, 228		1034003	4026755120547	349	
1026986	4026755232066	229		1034008	4026755120578	129	
1027100	4026755119350	228		1034052	4026755317459	349, 129	
1027151	4026755207217	133, 376		1034053	4026755317466	349, 129	
1027152	4026755207224	133, 376		1034054	4026755373479	349	
1027153	4026755207231	133, 376		1034315	4026755324785	346	
1027155	4026755207255	133, 376		1034504	4026755120639	349	
1027157	4026755207279	133, 376		1034506	4026755120646	349	
1027158	4026755207286	133, 376		1034551	4026755120660	349	
1027165	4026755187700	228		1034552	4026755120677	349	
1027172	4026755217209	228		1034553	4026755317473	349	
1027562	4026755245400	105		1034554	4026755317480	349, 349	
1027564	4026755245417	105		1034562	4026755317497	349	
1027566	4026755245424	105		1035004	4026755120707	349	
1027568	4026755245431	105		1035006	4026755120714	349	
1027662	4026755245448	105		1036154	4026755275261	340	
1027664	4026755192827	105		1036156	4026755275278	340	
1027666	4026755192834	105		1036158	4026755275285	340	
1027668	4026755192841	105		1038002	4026755120806	348	
1028152	4026755295979	133		1038003	4026755120813	348	
1028153	4026755295986	133		1040003	4026755120882	352	
1028154	4026755295993	133		1040004	4026755120899	352	
1028155	4026755296006	133		1040006	4026755120905	352	
1028156	4026755296013	133		1040008	4026755120912	352	
1028161	4026755119862	123		1040010	4026755120929	352	
1028252	4026755248876	75, 123		1040012	4026755120936	352	
1028253	4026755248883	123		1040016	4026755120943	352	
1028263	4026755119886	183, 120		1040020	4026755120950	352	
1028364	4026755187724	227		1040024	4026755120967	352	
				1040032	4026755120974	352	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1043003	4026755121209	352		1049853	4026755457384	363	
1043004	4026755121216	352		1050203	4026755335491	354	
1043006	4026755121223	352		1050204	4026755335507	354	
1043008	4026755121230	352		1050206	4026755335514	354	
1043010	4026755121247	352		1050208	4026755335521	354	
1043012	4026755121254	352		1050210	4026755335538	354	
1043016	4026755121261	352		1050212	4026755335545	354	
1043020	4026755121278	352		1050216	4026755335552	354	
1043024	4026755121285	352		1050303	4026755335569	354	
1045049	4026755250954	353		1050304	4026755335576	354	
1045050	4026755121377	353		1050306	4026755335583	354	
1045051	4026755121384	353		1050308	4026755335590	354	
1045052	4026755121391	353		1050310	4026755335606	354	
1045053	4026755121407	353		1050312	4026755335613	354	
1045054	4026755121414	353		1050316	4026755335620	354	
1045055	4026755121421	353		1052102	4026755335637	355	
1045056	4026755121438	353		1052103	4026755335644	355	
1045057	4026755121445	353		1052104	4026755335651	355	
1045058	4026755121452	353		1052106	4026755335668	355	
1045149	4026755250961	353		1052108	4026755335675	355	
1045150	4026755121469	353		1052110	4026755335682	355	
1045151	4026755121476	353		1052112	4026755335699	355	
1045152	4026755121483	353		1052116	4026755335705	355	
1045153	4026755121490	353		1055004	4026755372403	575	
1045154	4026755121506	353		1055095	4026755371741	576	
1045155	4026755121513	353		1055096	4026755371758	576	
1045156	4026755121520	353		1060081	4026755167870	262, 564, 256	
1045157	4026755121537	353		1060082	4026755167887	262, 564, 256	
1045158	4026755121544	353		1060083	4026755167894	262, 564, 256	
1046450	4026755440010	362		1060084	4026755167900	262, 564, 256	
1046451	4026755440027	362		1060085	4026755167917	262, 564, 256	
1046452	4026755440034	362		1060086	4026755167924	262, 564, 256	
1046453	4026755440041	362		1060103	4026755124934	244	
1046454	4026755440058	362		1060104	4026755124941	244	
1046455	4026755440065	362		1060106	4026755124958	244	
1046456	4026755440072	362		1060108	4026755124965	244	
1047253	4026755440089	362		1060110	4026755124972	244	
1047254	4026755440096	362		1060112	4026755124989	244	
1047255	4026755440102	362		1060116	4026755124996	244	
1047256	4026755440119	362		1060120	4026755125009	244	
1047257	4026755456356	362		1060180	4026755273809	542, 257	
1047258	4026755456363	362		1060191	4026755125023	322	
1048450	4026755302011	361		1060203	4026755125061	244	
1048451	4026755301922	361		1060204	4026755125078	244	
1048452	4026755301939	361		1060206	4026755125085	244	
1048453	4026755301946	361		1060208	4026755125092	244	
1048454	4026755301953	361		1060210	4026755125108	244	
1048455	4026755301960	361		1060212	4026755125115	244	
1048456	4026755301977	361		1060216	4026755125122	244	
1048491	4026755457346	363		1060281	4026755179149	322	
1048492	4026755457353	363		1060282	4026755335378	322	
1048493	4026755457360	363		1060295	4026755125160	322	
1049253	4026755440126	361		1060296	4026755231113	322	
1049254	4026755440133	361		1060297	4026755125177	323, 273	
1049255	4026755440140	361		1060298	4026755192230	322	
1049256	4026755440157	361		1060299	4026755324471	322	
1049257	4026755456370	361		1060303	4026755191622	243	
1049258	4026755456387	361		1060304	4026755191639	243	
1049259	4026755456394	361		1060306	4026755191646	243	
1049260	4026755456400	361		1060308	4026755191653	243	
1049261	4026755456417	361		1060310	4026755191660	243	
1049262	4026755456424	361		1060312	4026755191677	243	
1049263	4026755456431	361		1060316	4026755191684	243	
1049850	4026755457377	363		1060381	4026755179156	322	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1060391	4026755125184	323		1060855	4026755125436	326	
1060404	4026755348026	251		1060856	4026755275940	326	
1060406	4026755348033	251		1060857	4026755275957	326	
1060408	4026755348040	251		1060858	4026755125443	326	
1060410	4026755348057	251		1060859	4026755275964	326	
1060412	4026755348064	251		1060860	4026755275971	326	
1060416	4026755348071	251		1060861	4026755275988	326	
1060434	4026755372038	251		1060862	4026755275995	326	
1060464	4026755372045	251		1060863	4026755276008	326	
1060481	4026755356625	262, 256		1060906	4026755381672	276	
1060482	4026755356632	262, 256		1060908	4026755381689	276	
1060483	4026755356649	262, 256		1060910	4026755381696	276	
1060484	4026755356656	262, 256		1060925	4026755381412	276	
1060485	4026755356663	262, 256		1061091	4026755282108	380	
1060486	4026755356670	262, 256		1061092	4026755125474	380	
1060503	4026755125207	245		1061093	4026755125481	380	
1060504	4026755125214	245		1061094	4026755125498	380	
1060506	4026755125221	245		1061095	4026755125504	380	
1060508	4026755125238	245		1061096	4026755125511	380	
1060510	4026755125245	245		1061097	4026755125528	380	
1060512	4026755125252	245		1061098	4026755125535	380	
1060516	4026755125269	245		1061392	4026755400205	381, 147	
1060591	4026755125276	380		1061393	4026755400212	381, 147	
1060592	4026755125283	380, 147		1061394	4026755125627	381	
1060593	4026755125290	380, 147		1061395	4026755125634	381	
1060594	4026755125306	380		1061491	4026755125641	380	
1060595	4026755125313	380		1061492	4026755125658	380, 147	
1060596	4026755125320	380		1061493	4026755125665	380, 147	
1060597	4026755125337	380		1061494	4026755125672	380	
1060604	4026755216332	325		1061495	4026755125689	380	
1060606	4026755216349	325		1061496	4026755125696	380	
1060608	4026755216356	325		1061497	4026755169065	380	
1060610	4026755216363	325		1061704	4026755238235	267	
1060612	4026755216370	325		1061706	4026755238242	267	
1060616	4026755216387	325		1061708	4026755238259	267	
1060634	4026755272666	325		1061710	4026755250473	267	
1060644	4026755125344	325		1061712	4026755250480	267	
1060751	4026755125351	326		1061716	4026755364057	267	
1060752	4026755125368	326		1061771	4026755250497	272	
1060753	4026755125375	326		1061772	4026755250503	272	
1060754	4026755125382	326		1061773	4026755250510	272	
1060755	4026755125399	326		1061774	4026755250527	272	
1060756	4026755125405	326		1061775	4026755250534	272	
1060757	4026755125412	326		1061781	4026755250541	272	
1060758	4026755125429	326		1061782	4026755250558	272	
1060759	4026755260052	326		1061783	4026755250565	272	
1060760	4026755248043	326		1061784	4026755250572	272	
1060761	4026755260069	326		1061785	4026755250589	272	
1060762	4026755248050	326		1061790	4026755263619	274	
1060763	4026755270662	326		1061791	4026755250596	322, 273	
1060764	4026755260076	326		1061792	4026755250602	273, 535	
1060765	4026755274257	326		1061793	4026755250619	272	
1060766	4026755274264	326		1061794	4026755250626	272	
1060767	4026755298413	326		1061795	4026755250633	272	
1060771	4026755258516	327		1061796	4026755250640	272	
1060772	4026755258523	327		1061797	4026755262209	272	
1060773	4026755258530	327		1061798	4026755263626	274	
1060774	4026755258547	327		1061799	4026755250657	322, 273	
1060775	4026755258554	327		1061804	4026755238266	267	
1060776	4026755258561	327		1061806	4026755238273	267	
1060777	4026755258578	327		1061808	4026755238280	267	
1060778	4026755258585	327		1061810	4026755250664	267	
1060853	4026755275735	326		1061812	4026755250671	267	
1060854	4026755275742	326		1061816	4026755364064	267	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1061856	4026755306392	168		1062581	4026755125993	256	
1061904	4026755395778	251		1062582	4026755126006	256	
1061906	4026755395785	251		1062583	4026755126013	256	
1061934	4026755395792	251		1062584	4026755126020	256	
1061964	4026755395808	251		1062585	4026755126037	256	
1062004	4026755250688	268		1062586	4026755126044	256	
1062006	4026755250695	268		1062587	4026755126051	256	
1062008	4026755250701	268		1062588	4026755126068	256	
1062010	4026755250718	268		1062589	4026755126075	256	
1062012	4026755250725	268		1062590	4026755126082	256	
1062016	4026755364071	268		1062604	4026755479409	238	
1062051	4026755370591	255		1062606	4026755479416	238	
1062052	4026755370607	255		1062608	4026755479423	238	
1062053	4026755370614	255		1062610	4026755479430	238	
1062054	4026755370621	255		1062612	4026755479447	238	
1062055	4026755370638	255		1062616	4026755479454	238	
1062082	4026755250732	273		1062646	4026755173154	245	
1062085	4026755250749	273		1062647	4026755173178	245	
1062090	4026755281231	322, 273		1062648	4026755173215	245	
1062092	4026755272000	273		1062649	4026755126105	245	
1062095	4026755283907	263, 274		1062650	4026755126112	245	
1062097	4026755423723	263, 274		1062651	4026755126129	245	
1062104	4026755250756	269		1062652	4026755126136	245	
1062106	4026755250763	269		1062653	4026755126143	245	
1062108	4026755250770	269		1062654	4026755126150	245	
1062110	4026755250787	269		1062655	4026755126167	245	
1062112	4026755250794	269		1062656	4026755126174	245	
1062116	4026755364088	269		1062657	4026755180190	245	
1062166	4026755451337	168		1062658	4026755180206	245	
1062204	4026755263664	268		1062659	4026755324570	245	
1062206	4026755263671	268		1062660	4026755324587	245	
1062208	4026755263688	268		1062676	4026755329261	246	
1062210	4026755263695	268		1062677	4026755329278	246	
1062212	4026755263701	268		1062678	4026755329285	246	
1062216	4026755364095	268		1062679	4026755329292	246	
1062282	4026755262216	273		1062680	4026755329308	246	
1062285	4026755262223	273		1062681	4026755329315	246	
1062304	4026755263718	269		1062682	4026755329322	246	
1062306	4026755263725	269		1062683	4026755329339	246	
1062308	4026755263732	269		1062684	4026755329346	246	
1062310	4026755263749	269		1062685	4026755329353	246	
1062312	4026755263756	269		1062686	4026755329360	246	
1062316	4026755364101	269		1062704	4026755471359	265	
1062350	4026755253832	248		1062706	4026755471366	265	
1062351	4026755251623	248		1062708	4026755471373	265	
1062352	4026755251630	248		1062710	4026755471380	265	
1062353	4026755251647	248		1062724	4026755480344	266	
1062354	4026755251654	248		1062726	4026755480351	266	
1062355	4026755251661	248		1062728	4026755480368	266	
1062356	4026755252422	248		1062730	4026755480375	266	
1062404	4026755479348	238		1062946	4026755277531	247	
1062406	4026755479355	238		1062947	4026755275759	247	
1062408	4026755479362	238		1062948	4026755275766	247	
1062410	4026755479379	238		1062949	4026755275773	247	
1062412	4026755479386	238		1062950	4026755275780	247	
1062416	4026755479393	238		1062951	4026755179415	247	
1062451	4026755241112	246		1062952	4026755179422	247	
1062452	4026755241129	246		1062953	4026755179439	247	
1062453	4026755241136	246		1062954	4026755179446	247	
1062454	4026755241143	246		1062955	4026755179453	247	
1062455	4026755241150	246		1062956	4026755179460	247	
1062456	4026755241167	246		1062957	4026755179477	247	
1062457	4026755241174	246		1062958	4026755179484	247	
1062458	4026755241181	246		1062959	4026755333138	247	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1062960	4026755430363	247		1064751	4026755246018	261	
1063051	4026755225099	247		1064752	4026755246025	261	
1063052	4026755225105	247		1064753	4026755301076	261	
1063053	4026755225112	247		1064754	4026755333145	261	
1063054	4026755225129	247		1064755	4026755333152	261	
1063055	4026755225136	247		1064756	4026755377453	261	
1063056	4026755225143	247		1064792	4026755340105	262	
1063057	4026755225150	247		1064793	4026755340112	262	
1063058	4026755225167	247		1064794	4026755340129	262	
1063964	4026755395815	314		1064795	4026755340136	262	
1063966	4026755395822	314		1064796	4026755340143	262	
1064051	4026755231861	247		1064797	4026755340488	262	
1064054	4026755231878	247		1064804	4026755333046	261	
1064055	4026755231885	247		1064806	4026755333053	261	
1064264	4026755395839	315		1064808	4026755333060	261	
1064266	4026755395846	315		1064810	4026755333077	261	
1064267	4026755395853	315		1064812	4026755333084	261	
1064504	4026755127133	260		1064816	4026755305593	261	
1064506	4026755127140	260		1064951	4026755407952	261	
1064508	4026755127157	260		1064952	4026755407969	261	
1064510	4026755127164	260		1064953	4026755407976	261	
1064512	4026755127171	260		1064954	4026755407983	261	
1064516	4026755216912	260		1064955	4026755407990	261	
1064524	4026755479768	240		1065004	4026755127287	355	
1064526	4026755479775	240		1065006	4026755127294	355	
1064528	4026755479782	240		1065008	4026755127300	355	
1064530	4026755479799	240		1065010	4026755127317	355	
1064532	4026755479805	240		1065504	4026755127409	338	
1064536	4026755479812	240		1065506	4026755127416	338	
1064592	4026755127188	262		1065508	4026755127423	338	
1064593	4026755127195	262		1065510	4026755127430	338	
1064594	4026755127201	262		1065604	4026755127447	337	
1064595	4026755127218	262		1065606	4026755127454	337	
1064596	4026755127225	262		1065608	4026755127461	337	
1064597	4026755304251	262		1065610	4026755127478	337	
1064604	4026755127232	261		1065804	4026755479522	239	
1064606	4026755127249	261		1065806	4026755479539	239	
1064608	4026755127256	261		1065808	4026755479546	239	
1064610	4026755127263	261		1065810	4026755479553	239	
1064612	4026755127270	261		1065812	4026755479560	239	
1064616	4026755292176	261		1065816	4026755479577	239	
1064624	4026755479829	241		1065824	4026755479584	239	
1064626	4026755479836	241		1065834	4026755479591	239	
1064628	4026755479843	241		1065844	4026755479607	239	
1064630	4026755479850	241		1065851	4026755390520	252	
1064632	4026755479867	241		1065852	4026755390537	252	
1064636	4026755479874	241		1065853	4026755390544	252	
1064651	4026755305432	261		1065854	4026755390551	252	
1064652	4026755305449	261		1065855	4026755390568	252	
1064653	4026755305456	261		1065856	4026755390575	252	
1064654	4026755332124	261		1065857	4026755390582	252	
1064655	4026755332131	261		1065858	4026755390599	252	
1064704	4026755324594	260		1065904	4026755127485	359	
1064706	4026755324600	260		1065906	4026755127492	359	
1064708	4026755324617	260		1065908	4026755127508	359	
1064710	4026755324624	260		1065910	4026755127515	359	
1064712	4026755324631	260		1066004	4026755127522	355	
1064716	4026755305586	260		1066006	4026755127539	355	
1064724	4026755479881	240		1066008	4026755127546	355	
1064726	4026755479898	240		1066010	4026755127553	355	
1064728	4026755479904	240		1066151	4026755127607	358	
1064730	4026755479911	240		1066504	4026755127614	337	
1064732	4026755479928	240		1066506	4026755127621	337	
1064736	4026755479935	240		1066508	4026755127638	337	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1066510	4026755127645	337		1068468	4026755260991	314	
1066604	4026755127652	337		1068564	4026755264920	315	
1066606	4026755127669	337		1068566	4026755264937	315	
1066608	4026755127676	337		1068568	4026755264944	315	
1066610	4026755127683	337		1068570	4026755264951	315	
1066904	4026755127690	359, 343		1068572	4026755264968	315	
1066906	4026755127706	359, 343		1068585	4026755270457	316	
1066908	4026755127713	359, 343		1068664	4026755264975	315	
1066910	4026755127720	359, 343		1068666	4026755264982	315	
1067004	4026755127775	358		1068667	4026755264999	315	
1067065	4026755264869	271		1068668	4026755265002	315	
1067066	4026755264876	271, 316		1068670	4026755265019	315	
1067067	4026755264883	271, 316		1068672	4026755265026	315	
1067068	4026755264890	271		1068804	4026755128147	370	
1067069	4026755264906	271		1068806	4026755128154	370	
1067085	4026755264913	271, 316		1068808	4026755128161	370	
1067304	4026755250800	270		1068810	4026755128178	370	
1067306	4026755250817	270		1069003	4026755163872	258	
1067308	4026755250824	270		1069004	4026755163889	258	
1067310	4026755250831	270		1069006	4026755163896	258	
1067312	4026755250848	270		1069008	4026755163902	258	
1067316	4026755364118	270		1069010	4026755163919	258	
1067404	4026755250879	270		1069012	4026755163926	258	
1067406	4026755250886	270		1069016	4026755163933	258	
1067408	4026755250893	270		1069178	4026755280340	322	
1067410	4026755250909	270		1069179	4026755248920	322	
1067412	4026755250916	270		1069180	4026755325409	321	
1067416	4026755364125	270		1069186	4026755273984	322	
1067503	4026755127942	254		1069197	4026755329919	322	
1067504	4026755127959	254		1069199	4026755202779	322	
1067506	4026755127966	254		1069278	4026755419603	320, 757	
1067508	4026755127973	254		1069292	4026755402551	359	
1067510	4026755127980	254		1069293	4026755402568	359	
1067512	4026755127997	254		1069294	4026755402575	359	
1067516	4026755128000	254		1069295	4026755402582	359	
1067520	4026755330755	254		1069299	4026755419610	322	
1067524	4026755480382	242		1069650	4026755355505	542, 257	
1067526	4026755480399	242		1069651	4026755355512	542, 257	
1067528	4026755480405	242		1069652	4026755355529	542, 257	
1067530	4026755480412	242		1069653	4026755355536	542, 257	
1067532	4026755480429	242		1070006	4026755128321	442	
1067536	4026755480436	242		1070008	4026755128338	442	
1067603	4026755128017	255		1070010	4026755128345	442	
1067604	4026755128024	255		1070108	4026755128352	442	
1067606	4026755128031	255		1070110	4026755128369	442	
1067608	4026755128048	255		1070208	4026755128376	442	
1067610	4026755128055	255		1070210	4026755128383	442	
1067612	4026755128062	255		1070308	4026755128390	442	
1067616	4026755128079	255		1070310	4026755128406	442	
1067624	4026755480443	242		1071008	4026755128451	443	
1067626	4026755480450	242		1071010	4026755128468	443	
1067628	4026755480467	242		1071012	4026755128475	443	
1067630	4026755480474	242		1071016	4026755128482	443	
1067632	4026755480481	242		1072003	4026755128499	364	
1067636	4026755480498	242		1072004	4026755128505	364	
1068004	4026755128086	368		1072006	4026755128512	364	
1068006	4026755128093	368		1072008	4026755128529	364	
1068008	4026755128109	368		1072010	4026755128536	364	
1068010	4026755128116	368		1072012	4026755128543	364	
1068364	4026755260939	314		1072016	4026755128550	364	
1068366	4026755260946	314		1072103	4026755335729	364	
1068368	4026755260953	314		1072104	4026755335736	364	
1068464	4026755260960	314		1072106	4026755335743	364	
1068466	4026755260977	314		1072108	4026755335750	364	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1072110	4026755335767	364		1076024	4026755128932	333	
1072112	4026755335774	364		1076032	4026755128949	333	
1072116	4026755335781	364		1076071	4026755283365	341	
1072549	4026755335132	366		1076072	4026755283372	341	
1072550	4026755128574	366		1076073	4026755283389	341	
1072551	4026755128581	366		1076081	4026755317503	342	
1072552	4026755128598	366		1076082	4026755317510	342	
1072553	4026755128604	366		1076083	4026755317527	342	
1072554	4026755128611	366		1076084	4026755370874	342	
1072555	4026755128628	366		1076103	4026755128956	334	
1072556	4026755128635	366		1076104	4026755128963	334	
1072557	4026755128642	366		1076106	4026755128970	334	
1072558	4026755128659	366		1076108	4026755128987	334	
1072559	4026755310368	366		1076110	4026755128994	334	
1072560	4026755310375	366		1076203	4026755129021	333	
1072561	4026755310382	366		1076204	4026755129038	333	
1072650	4026755357585	366		1076206	4026755129045	333	
1072651	4026755357592	366		1076208	4026755129052	333	
1072652	4026755357608	366		1076210	4026755129069	333	
1072653	4026755357615	366		1076303	4026755129076	334	
1072654	4026755357622	366		1076304	4026755129083	334	
1072655	4026755357639	366		1076306	4026755129090	334	
1072656	4026755357646	366		1076308	4026755129106	334	
1072657	4026755357653	366		1076310	4026755129113	334	
1072658	4026755357660	366		1077103	4026755129274	330	
1072659	4026755357677	366		1077104	4026755129281	330	
1072660	4026755357684	366		1077106	4026755129298	330	
1072661	4026755357691	366		1077108	4026755129304	330	
1072662	4026755357707	366		1077110	4026755129311	330	
1072663	4026755357714	366		1077112	4026755129328	330	
1073049	4026755251357	365		1077116	4026755129335	330	
1073050	4026755128666	365		1077152	4026755370645	331	
1073051	4026755128673	365		1077153	4026755370652	331	
1073052	4026755128680	365		1077154	4026755370669	331	
1073053	4026755128697	365		1077155	4026755370676	331	
1073054	4026755128703	365		1077156	4026755370683	331	
1073055	4026755128710	365		1077162	4026755344400	331	
1073056	4026755128727	365		1077163	4026755344417	331	
1073057	4026755128734	365		1077164	4026755344424	331	
1073058	4026755128741	365		1077165	4026755344431	331	
1075004	4026755128758	365		1077166	4026755344448	331	
1075006	4026755128765	365		1077171	4026755358377	342	
1075008	4026755128772	365		1077172	4026755358384	342	
1075010	4026755128789	365		1077173	4026755358391	342	
1075012	4026755128796	365		1077181	4026755283396	342	
1075016	4026755128802	365		1077182	4026755283402	342	
1075020	4026755128819	365		1077183	4026755283419	342	
1075704	4026755277548	332		1077303	4026755129502	330	
1075706	4026755277555	332		1077304	4026755129519	330	
1075708	4026755277562	332		1077306	4026755129526	330	
1075710	4026755277579	332		1077308	4026755129533	330	
1075804	4026755327755	334		1077310	4026755129540	330	
1075806	4026755327762	334		1077312	4026755367706	330	
1075808	4026755128833	334		1077316	4026755367713	330	
1075810	4026755335057	334		1077804	4026755262650	331	
1076002	4026755128840	333		1077806	4026755262667	331	
1076003	4026755128857	333		1077808	4026755262674	331	
1076004	4026755128864	333		1077810	4026755357721	331	
1076006	4026755128871	333		1078003	4026755305678	330	
1076008	4026755128888	333		1078004	4026755305685	330	
1076010	4026755128895	333		1078006	4026755305692	330	
1076012	4026755128901	333		1078008	4026755305708	330	
1076016	4026755128918	333		1078010	4026755305715	330	
1076020	4026755128925	333		1078012	4026755305722	330	

GENERAL INFORMATION
INDEX

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1078016	4026755305739	330		1090662	4026755130300	101	
1078092	4026755382624	341		1090663	4026755130317	101	
1078093	4026755382631	341		1090672	4026755130324	101	
1078094	4026755382648	341		1090761	4026755130348	101	
1078095	4026755382655	341		1090762	4026755130355	101	
1078096	4026755382662	341		1090763	4026755130362	101	
1078097	4026755382679	341		1090772	4026755130379	102	
1078171	4026755360431	335		1091052	4026755461466	98	
1078172	4026755360448	335		1091061	4026755130461	98	
1078173	4026755360455	335		1091062	4026755130478	98	
1078182	4026755328530	342		1091063	4026755130485	98	
1078194	4026755382686	341		1091152	4026755461473	99	
1078195	4026755382693	341		1091161	4026755130522	98	
1078371	4026755360462	335		1091162	4026755130539	98	
1078372	4026755360479	335		1091163	4026755130546	98	
1078373	4026755360486	335		1101603	4026755131253	131	
1078382	4026755283426	571, 342		1101604	4026755131260	131	
1078706	4026755317534	336		1101703	4026755131277	131	
1078708	4026755317541	336		1101704	4026755131284	131	
1078710	4026755317558	336		1101706	4026755131291	131	
1078760	4026755345094	336		1102002	4026755299519	131	
1078761	4026755344493	336		1102003	4026755299526	131	
1078762	4026755344509	336		1102004	4026755328882	131	
1079004	4026755232073	339		1103051	4026755131345	131	
1079006	4026755232080	339		1103151	4026755131352	131	
1079008	4026755232097	339		1110104	4026755131390	356	
1079010	4026755232103	339		1110174	4026755131420	356	
1079012	4026755232110	339		1110204	4026755131437	356	
1079016	4026755232127	339		1110504	4026755131444	356	
1079104	4026755232134	339		1111904	4026755131451	358	
1079106	4026755232141	339		1115004	4026755131468	357	
1079108	4026755232158	339		1115104	4026755131475	357	
1079110	4026755232165	339		1115204	4026755131482	357	
1079112	4026755232172	339		1116004	4026755131499	357	
1079116	4026755232189	339		1116204	4026755131512	357	
1079254	4026755353006	343		1117204	4026755131543	358	
1079255	4026755353013	343		1120002	4026755131550	367	
1079256	4026755353020	343		1120003	4026755131567	367	
1079404	4026755232196	339		1120004	4026755131574	367	
1079406	4026755232202	339		1120006	4026755131581	574, 367, 550	
1085206	4026755129885	277		1120008	4026755131598	574, 367	
1085208	4026755129892	277		1120010	4026755131604	574, 367	
1085210	4026755129908	277		1120012	4026755131611	367	
1088203	4026755130102	374		1120016	4026755131628	367	
1088303	4026755130119	374		1120020	4026755131635	367	
1088304	4026755130126	374		1120024	4026755131642	367	
1088306	4026755130133	374		1121002	4026755131659	368	
1088404	4026755130157	374		1121003	4026755131666	368	
1088806	4026755238792	666, 441		1121004	4026755131673	368	
1089006	4026755130164	441		1121006	4026755131680	368	
1089008	4026755130171	441		1121008	4026755131697	368	
1089010	4026755130188	441		1121010	4026755131703	368	
1089012	4026755130195	441		1121012	4026755131710	368	
1089052	4026755130201	441		1121016	4026755131727	368	
1089091	4026755130218	542, 535, 257, 441		1121020	4026755131734	368	
1090361	4026755130225	100		1121024	4026755131741	368	
1090362	4026755130232	100		1122045	4026755251364	369	
1090363	4026755130249	100		1122046	4026755251371	369	
1090461	4026755130256	100		1122047	4026755251388	369	
1090462	4026755130263	100		1122048	4026755251395	369	
1090462	4026755130263	100		1122049	4026755251401	369	
1090463	4026755130270	100		1122050	4026755202076	369	
1090551	4026755130287	106, 121		1122051	4026755131819	369	
1090661	4026755130294	101		1122052	4026755131826	369	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1122053	4026755131833	369		1124652	4026755465419	373	
1122054	4026755131840	369		1124653	4026755465426	373	
1122055	4026755131857	369		1124654	4026755465433	373	
1122056	4026755131864	369		1124655	4026755465440	373	
1122057	4026755131871	369		1124656	4026755465457	373	
1122058	4026755131888	369		1124657	4026755465464	373	
1122059	4026755171624	369		1124658	4026755465471	373	
1122060	4026755340082	369		1130291	4026755401943	310	
1122061	4026755340150	369		1130292	4026755132199	310	
1122062	4026755340167	369		1130293	4026755132205	310	
1122063	4026755340174	369		1130294	4026755132212	310	
1122085	4026755279221	371		1130295	4026755132229	310	
1122087	4026755279245	371		1130296	4026755132236	310	
1122088	4026755279252	371		1130298	4026755401950	310	
1122089	4026755279269	371		1130299	4026755401967	310	
1122090	4026755279276	371		1130845	4026755367065	312	
1122091	4026755279283	371		1130846	4026755367072	312	
1122092	4026755279290	371		1130847	4026755367089	312	
1122093	4026755279306	371		1130848	4026755367096	312	
1122094	4026755279313	371		1130849	4026755367102	312	
1122095	4026755279320	371		1130850	4026755367218	312	
1122096	4026755279337	371		1130851	4026755366242	312	
1122097	4026755279344	371		1130852	4026755366259	312	
1122098	4026755279351	371		1130853	4026755366266	312	
1122159	4026755408027	371		1130854	4026755366273	312	
1122160	4026755408034	371		1130855	4026755366280	312	
1122161	4026755408041	371		1130865	4026755406900	312	
1122162	4026755408058	371		1130866	4026755406917	312	
1122163	4026755408065	371		1130875	4026755406924	312	
1123003	4026755131895	370		1131204	4026755397390	310	
1123004	4026755131901	370		1131206	4026755397406	310	
1123006	4026755131918	370		1131208	4026755397413	310	
1123008	4026755131925	370		1131210	4026755397420	310	
1123010	4026755131932	370		1131212	4026755397437	310	
1123012	4026755131949	370		1131216	4026755397444	310	
1123016	4026755131956	370		1132004	4026755440782	301	
1123020	4026755131963	370		1132006	4026755443608	301	
1123024	4026755131970	370		1132020	4026755446616	302	
1123103	4026755131987	370		1132030	4026755446623	302	
1123104	4026755131994	370		1140181	4026755263763	379	
1123106	4026755132007	370		1140182	4026755263770	379	
1123108	4026755132014	370		1140183	4026755263787	379	
1123110	4026755132021	370		1140184	4026755263794	379	
1123112	4026755132038	370		1140281	4026755447293	379	
1123116	4026755132045	370		1140282	4026755263800	379	
1123120	4026755132052	370		1140284	4026755263817	379	
1123124	4026755132069	370		1140285	4026755447309	379	
1124006	4026755465228	372		1140286	4026755447316	379	
1124008	4026755465235	372		1140352	4026755382204	287	
1124010	4026755465242	372		1140380	4026755263824	379	
1124012	4026755465259	372		1140381	4026755263831	379	
1124106	4026755465273	372		1140382	4026755263848	379	
1124108	4026755465280	372		1140383	4026755263855	379	
1124550	4026755465303	373		1140384	4026755263862	379	
1124551	4026755465310	373		1140451	4026755437591	287	
1124552	4026755465327	373		1140452	4026755437607	287	
1124553	4026755465334	373		1140552	4026755387612	287	
1124554	4026755465341	373		1140561	4026755187847	311	
1124555	4026755465358	373		1140562	4026755187854	311	
1124556	4026755465365	373		1140563	4026755187861	311	
1124557	4026755465372	373		1140564	4026755187878	311	
1124558	4026755465389	373		1140571	4026755187885	311	
1124650	4026755465396	373		1140572	4026755187892	311	
1124651	4026755465402	373		1140574	4026755187908	311	

GENERAL INFORMATION
INDEX

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1140591	4026755370942	377		1144608	4026755458152	286	
1140592	4026755370959	377		1144764	4026755411713	282	
1140593	4026755370966	377		1144966	4026755421910	282	
1140594	4026755370973	377		1145064	4026755421927	282	
1140595	4026755370980	377		1145504	4026755347500	280, 139	
1140596	4026755370997	377		1145506	4026755347517	280, 139	
1140597	4026755371000	377		1145563	4026755363975	281, 140	
1140691	4026755371017	377		1145564	4026755347524	281, 140	
1140692	4026755371024	377		1145566	4026755347531	281, 140	
1140693	4026755371031	377		1145604	4026755347548	139	
1140694	4026755371048	377		1145606	4026755347555	139	
1140695	4026755371055	377		1145663	4026755363982	281, 140	
1140696	4026755371062	377		1145664	4026755347586	140	
1140697	4026755371079	377		1145666	4026755347593	140	
1140698	4026755371086	377		1145704	4026755347623	280, 139	
1140791	4026755371093	377		1145764	4026755347630	281, 140	
1140792	4026755371109	377		1146004	4026755244960	280	
1140793	4026755371116	377		1146006	4026755306699	280	
1140794	4026755371123	377		1146063	4026755363999	281	
1140795	4026755371130	377		1146064	4026755347647	281	
1140796	4026755371147	377		1146066	4026755347654	281	
1140797	4026755371154	377		1146091	4026755357875	140	
1140892	4026755371161	378		1146112	4026755353051	283	
1140893	4026755371178	378		1146149	4026755372465	284	
1140894	4026755371185	378		1146150	4026755355246	284	
1140895	4026755371192	378		1146151	4026755355253	284	
1141004	4026755395860	368		1146152	4026755355260	284	
1141006	4026755395877	457, 368		1146153	4026755355277	284	
1141091	4026755191691	311		1146154	4026755355284	284	
1141292	4026755447323	379		1146155	4026755355291	284	
1141293	4026755447330	379		1146156	4026755391176	284	
1141294	4026755447347	379		1146163	4026755364002	281	
1141295	4026755447354	379		1146172	4026755353068	283	
1141951	4026755248449	726, 44, 199		1146174	4026755372472	283	
1142861	4026755187991	311, 408		1146204	4026755244984	280	
1142862	4026755188004	311, 408		1146264	4026755347715	281	
1142863	4026755188011	311, 408		1146649	4026755411720	284	
1142864	4026755188028	311, 408		1146650	4026755411737	284	
1143000	4026755132656	519, 201, 727		1146651	4026755411744	284	
1143116	4026755428889	283		1146652	4026755411751	284	
1143206	4026755421620	280		1146653	4026755411768	284	
1143208	4026755421637	280		1146654	4026755411775	284	
1143210	4026755421644	280		1146655	4026755411782	284	
1143263	4026755421651	281		1146656	4026755411799	284	
1143266	4026755421675	281		1147169	4026755191257	271, 316	
1143268	4026755421682	281		1147306	4026755421958	281	
1143270	4026755421699	281		1147308	4026755421965	281	
1143304	4026755421705	280		1147310	4026755421972	281	
1143364	4026755421712	281		1147404	4026755421989	281	
1143606	4026755421781	280		1147504	4026755394849	281	
1143608	4026755421798	280		1147506	4026755394856	281	
1143610	4026755421804	280		1147704	4026755394900	281	
1143663	4026755421811	281		1148504	4026755414448	282	
1143666	4026755421835	281		1148506	4026755414455	282	
1143668	4026755421842	281		1148704	4026755414509	282	
1143670	4026755421859	281		1149004	4026755342765	288	
1143704	4026755421866	280		1149011	4026755411034	287	
1143764	4026755421873	281		1149021	4026755411041	287	
1144251	4026755188035	192		1149031	4026755411058	287	
1144252	4026755188042	192		1149041	4026755411065	287	
1144253	4026755306415	192		1149068	4026755400380	228, 140	
1144564	4026755411676	282		1149070	4026755395884	382	
1144566	4026755411683	282		1149071	4026755395891	382	
1144606	4026755458145	286		1149075	4026755395907	382	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1149076	4026755395914	382		1150776	4026755451597	210, 717	
1149090	4026755367232	140		1150777	4026755460643	717, 210	
1149091	4026755394146	140		1150780	4026755449693	205, 215, 709, 728, 46	
1149095	4026755407075	287		1150781	4026755449709	205, 215, 709, 728, 46	
1149104	4026755393965	287		1150790	4026755459623	709	
1149106	4026755393972	287		1150795	4026755468687	709	
1149108	4026755393989	287		1150799	4026755471991	709	
1149190	4026755394009	287		1150961	4026755463743	32, 738, 56	
1149306	4026755422023	282		1151065	4026755404937	188	
1149308	4026755422030	282		1151080	4026755306422	189	
1149310	4026755422047	282		1151081	4026755306439	189	
1149404	4026755422054	282		1151082	4026755306446	190	
1149450	4026755430097	306		1151085	4026755306477	189	
1149504	4026755395921	305		1151087	4026755390612	190	
1149506	4026755395938	305		1151088	4026755407488	190	
1149550	4026755408683	306		1151089	4026755435368	191	
1149551	4026755408690	306		1151600	4026755401523	187	
1149552	4026755430035	306		1151800	4026755404944	187	
1149553	4026755436686	306		1152051	4026755132748	196, 480, 215, 223, 722, 745, 40	
1149554	4026755437010	306		1152052	4026755227017	196, 435, 722, 699, 40	
1149560	4026755408614	307		1152055	4026755434088	435, 722, 745, 40, 196	
1149561	4026755408621	307		1152064	4026755425550	725, 43	
1149562	4026755436693	307		1152065	4026755425567	725, 43	
1149563	4026755436709	307		1152070	4026755464443	450	
1149564	4026755436716	307		1152071	4026755308082	723, 41, 197	
1149580	4026755448658	308		1152080	4026755459340	431, 740	
1149581	4026755414387	308		1152083	4026755459357	431, 479, 740	
1149582	4026755448665	308		1152086	4026755436723	431, 745	
1149650	4026755430103	306		1152087	4026755436389	435, 662, 745	
1149651	4026755430110	306		1152089	4026755429756	399, 456, 430, 462	
1150004	4026755428988	695		1152095	4026755393163	435, 662, 745	
1150006	4026755372052	695		1152096	4026755375923	435, 480, 662, 745	
1150008	4026755428995	695		1152098	4026755375947	450, 432, 741	
1150090	4026755388688	546, 705		1152099	4026755413229	435, 481, 661, 744	
1150104	4026755429008	695		1152100	4026755405101	187	
1150106	4026755429015	695		1152151	4026755217216	198, 724, 42	
1150108	4026755429022	695		1152265	4026755364019	699	
1150300	4026755320282	699		1152453	4026755468038	725, 43	
1150390	4026755332292	706		1152552	4026755132779	722, 40, 196	
1150665	4026755400151	202, 713		1152561	4026755363395	479, 141, 723, 41, 197	
1150675	4026755420050	202, 713		1153050	4026755359039	699	
1150680	4026755400557	205, 713, 728, 46		1153053	4026755393514	693, 696	
1150681	4026755409130	205, 713, 728, 46		1153055	4026755392883	693, 696	
1150682	4026755410778	205, 713, 728, 46		1153060	4026755332308	706, 716	
1150684	4026755414790	205, 713, 728, 46		1153070	4026755336238	711, 715, 700, 207	
1150685	4026755406665	49		1153100	4026755453362	696	
1150692	4026755414073	716, 729, 48, 207		1153101	4026755384499	698	
1150693	4026755453409	716, 729, 48, 207		1153118	4026755384505	698	
1150694	4026755414080	716, 729, 48, 207		1153121	4026755382341	698	
1150710	4026755448245	714		1153128	4026755382358	698	
1150766	4026755461862	202, 215, 710, 738, 56		1153130	4026755394153	701	
1150770	4026755421095	208, 710, 714		1153170	4026755392906	705	
1150771	4026755421101	208, 710, 714		1153195	4026755393354	700	
1150772	4026755421118	208, 710, 714		1153271	4026755382471	698	
1150773	4026755421125	208, 710, 714					
1150774	4026755425543	710, 714, 209					
1150775	4026755451580	710, 714, 208					

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1153280	4026755431001	700		1166062	4026755133127	103	
1153301	4026755382488	706		1166072	4026755133141	103	
1153321	4026755382495	695		1166082	4026755330212	103	
1153331	4026755398960	695		1167032	4026755200201	103	
1153350	4026755382501	693		1167052	4026755133189	103	
1153351	4026755392920	693		1167062	4026755133202	103	
1155009	4026755484274	38, 194, 720		1167072	4026755133226	103	
1155010	4026755479164	194, 720, 38		1167082	4026755330229	103	
1155021	4026755479171	194, 720, 38		1169093	4026755133332	93	
1155031	4026755479188	721, 195, 39		1169193	4026755133370	93	
1155510	4026755479195	194, 720, 38		1169293	4026755133417	93	
1155531	4026755479201	721, 195, 39		1169493	4026755304121	93	
1158011	4026755409239	295, 735		1169553	4026755286557	94	
1158012	4026755468717	295, 735		1169563	4026755286564	94	
1158013	4026755468724	295, 735		1169593	4026755333558	93	
1158014	4026755464894	736, 296, 55		1180584	4026755186222	145	
1158020	4026755409147	735, 295		1180585	4026755186239	145	
1158021	4026755409154	735, 295		1180586	4026755186246	145	
1158022	4026755409161	735, 295		1180587	4026755186253	145	
1158025	4026755455601	297, 737		1180603	4026755186260	88	
1158030	4026755370805	736, 296		1180604	4026755186277	88	
1158031	4026755370812	736, 296		1180606	4026755186284	88	
1158032	4026755399202	736, 296		1180703	4026755186291	88	
1158033	4026755436792	297, 737		1180704	4026755186307	88	
1159095	4026755383973	702		1180706	4026755186314	88	
1159097	4026755448054	702		1180791	4026755186321	112, 94	
1159099	4026755476620	434, 461, 702		1180793	4026755205497	95	
1162054	4026755436341	81		1180903	4026755420739	89	
1162154	4026755436358	81		1180904	4026755420746	89	
1162472	4026755436730	81		1181003	4026755401219	86	
1162473	4026755436747	82		1181004	4026755401226	86	
1163032	4026755200157	84		1181006	4026755401233	86	
1163052	4026755172096	84		1181008	4026755401240	86	
1163062	4026755172102	84		1181010	4026755401257	86	
1163072	4026755191073	84		1181097	4026755401264	86	
1163082	4026755330175	84		1181103	4026755401271	86	
1163132	4026755200164	84		1181104	4026755401288	86	
1163152	4026755172119	84		1181106	4026755401295	86	
1163162	4026755172126	84		1181108	4026755401301	86	
1163172	4026755191097	84		1181110	4026755401318	86	
1163182	4026755330182	84		1181197	4026755401325	86	
1163232	4026755200171	85		1181304	4026755407730	143, 151	
1163252	4026755172133	85		1181390	4026755401561	86	
1163262	4026755172140	85		1181391	4026755401578	87	
1163432	4026755200188	84		1181392	4026755401585	86, 143, 151	
1163433	4026755204667	85		1181393	4026755401592	87, 143, 151	
1163452	4026755172157	84		1181396	4026755401349	86	
1163453	4026755172171	85		1181397	4026755401356	87	
1163462	4026755172164	84		1181403	4026755420753	87	
1163463	4026755172188	85		1181404	4026755420760	87, 143, 151	
1163482	4026755330199	84		1181406	4026755420777	87	
1163483	4026755330205	85		1181460	4026755224665	88	
1163552	4026755423419	69		1181461	4026755224672	89	
1163562	4026755423426	69		1181462	4026755224689	88	
1163652	4026755423433	69		1181463	4026755224696	89	
1163662	4026755423440	69		1181492	4026755420784	87	
1164052	4026755332629	60		1182151	4026755251470	142	
1164152	4026755332636	60		1182651	4026755251494	150	
1164352	4026755332643	60		1183063	4026755416107	66	
1164452	4026755332650	60		1183064	4026755416114	66	
1164554	4026755436365	104		1183066	4026755416121	66	
1165554	4026755436372	104		1183068	4026755440799	66	
1166032	4026755200195	103		1183084	4026755461480	66	
1166052	4026755133103	103		1183094	4026755468267	68	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1183163	4026755416138	66		1184090	4026755316018	73, 119	
1183164	4026755416145	66		1184091	4026755316025	73, 119	
1183166	4026755416152	66		1184092	4026755312102	119	
1183168	4026755440805	66		1184093	4026755312119	119	
1183184	4026755461497	67		1184094	4026755417623	74, 120	
1183194	4026755468274	68		1184095	4026755271607	73, 119	
1183263	4026755416169	67		1184096	4026755268942	73, 119	
1183264	4026755418972	67		1184097	4026755277302	73, 119	
1183266	4026755431544	67		1184098	4026755277319	73, 119	
1183294	4026755468281	68		1184135	4026755319583	59	
1183360	4026755431551	67		1184183	4026755314977	59	
1183361	4026755431568	67		1184184	4026755314984	59	
1183362	4026755424768	67		1184185	4026755422641	61	
1183363	4026755424775	67		1184186	4026755420586	61	
1183446	4026755422153	78		1184188	4026755422658	60	
1183447	4026755422160	78		1184189	4026755431186	61	
1183470	4026755407211	78		1184235	4026755319590	59	
1183471	4026755407228	78		1184283	4026755314991	59	
1183472	4026755407235	78		1184284	4026755315004	59	
1183473	4026755407242	78		1184285	4026755422665	61	
1183561	4026755186406	142		1184286	4026755420593	61	
1183571	4026755186413	142		1184288	4026755422672	60	
1183581	4026755186420	151		1184289	4026755431193	61	
1183703	4026755407259	77		1184383	4026755332490	59	
1183704	4026755407266	77		1184384	4026755332506	59	
1183706	4026755407273	77		1185003	4026755422719	80	
1183708	4026755407280	77		1185004	4026755422726	80	
1183747	4026755422177	77		1185006	4026755422733	80	
1183784	4026755358421	77		1185103	4026755422740	80	
1183793	4026755431629	78		1185104	4026755422757	80	
1183794	4026755431636	78		1185106	4026755422764	80	
1183803	4026755407303	77		1186002	4026755431674	96	
1183804	4026755407310	77		1186052	4026755251500	271, 316	
1183806	4026755407327	77		1186053	4026755251517	271, 316	
1183808	4026755407334	77		1186054	4026755297980	271, 316	
1183847	4026755422184	77		1186200	4026755191813	271, 316, 96	
1183884	4026755358438	78		1187047	4026755414424	217, 96	
1183893	4026755431643	79		1187049	4026755407747	96	
1183894	4026755431650	79		1187056	4026755191820	148	
1183903	4026755407358	78		1187059	4026755429817	96	
1183904	4026755407365	78		1187065	4026755417975	217, 75, 96	
1183906	4026755407372	78		1187070	4026755191844	271, 96	
1183942	4026755422191	78		1187071	4026755235104	271, 316	
1183961	4026755191790	94		1187078	4026755432862	217, 96, 122	
1183962	4026755414110	94		1187090	4026755436402	74, 95	
1184013	4026755241655	114		1187095	4026755476392	75	
1184014	4026755241662	115		1187352	4026755169430	271, 316, 96	
1184016	4026755384284	116		1187504	4026755393521	90	
1184023	4026755291087	114		1187506	4026755393538	90	
1184024	4026755291094	115		1187604	4026755391589	90	
1184025	4026755312089	115		1187606	4026755391596	90	
1184033	4026755291100	114		1187608	4026755391602	90	
1184034	4026755291117	115		1188051	4026755182279	73, 274, 93	
1184035	4026755312096	115		1188089	4026755454123	94	
1184073	4026755423457	70		1188093	4026755311150	74, 274, 94	
1184074	4026755423464	70		1188095	4026755379129	94	
1184076	4026755431476	71		1188363	4026755431681	83	
1184077	4026755384291	73, 119		1188364	4026755431698	83	
1184083	4026755241679	114		1188366	4026755431704	83	
1184084	4026755241686	115		1188400	4026755191868	274, 93	
1184086	4026755384307	116		1188463	4026755431711	83	
1184087	4026755384314	73, 119		1188464	4026755431728	83	
1184088	4026755348835	73, 119		1188466	4026755431735	83	
1184089	4026755348842	73, 119		1189087	4026755432909	74, 120	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1189094	4026755418927	74, 120		1341095	4026755358469	502	
1189361	4026755231625	144		1341097	4026755422337	502	
1190503	4026755232370	92		1341098	4026755424522	502	
1190504	4026755232387	92		1341099	4026755428117	503	
1190506	4026755232394	92		1341121	4026755398328	495	
1190603	4026755232400	92		1341130	4026755383140	492	
1190604	4026755232417	92		1341131	4026755383157	492	
1190606	4026755232424	92		1341132	4026755383164	492	
1191503	4026755251678	91		1341140	4026755383171	494	
1191504	4026755251685	91		1341141	4026755383188	494	
1191506	4026755296457	91		1341142	4026755383195	494	
1191603	4026755251692	91		1341150	4026755394245	492	
1191604	4026755251708	91		1341151	4026755394252	492	
1191606	4026755296464	91		1341152	4026755394269	492	
1194503	4026755257953	91		1341160	4026755394276	494	
1194504	4026755257960	91		1341161	4026755394283	494	
1194506	4026755304152	91		1341162	4026755394290	494	
1194603	4026755257977	91		1341170	4026755396607	502	
1194604	4026755257984	91		1341175	4026755396614	502	
1194606	4026755304169	91		1341177	4026755435412	502	
1300200	4026755133516	573		1341180	4026755394306	498	
1300251	4026755133523	573		1341182	4026755398342	498	
1300306	4026755372533	573		1341183	4026755412710	498	
1300308	4026755372540	573		1341184	4026755412734	498	
1300310	4026755372557	573		1341185	4026755435429	498	
1300351	4026755133530	573		1341187	4026755396621	497	
1300352	4026755133547	573		1341188	4026755446654	497	
1300385	4026755399080	574		1341189	4026755443561	498	
1300386	4026755399097	574		1341193	4026755457216	502	
1300952	4026755133684	574		1341195	4026755397819	502	
1300953	4026755389784	574		1341196	4026755401974	502	
1300954	4026755389791	574		1341197	4026755405040	502	
1302006	4026755133745	574		1341198	4026755411577	502	
1302008	4026755389807	574		1341199	4026755430462	503	
1302010	4026755389814	574		1341220	4026755421002	487	
1340920	4026755431209	491		1341231	4026755393552	487	
1340930	4026755423204	490		1341251	4026755431810	487	
1340931	4026755423211	490		1341252	4026755392098	488	
1340932	4026755423228	490		1341257	4026755400564	489	
1340950	4026755423235	490		1341262	4026755399943	488	
1340951	4026755423242	490		1341267	4026755431827	489	
1340952	4026755423259	490		1341271	4026755399981	488	
1341030	4026755358544	485		1341274	4026755405057	488	
1341031	4026755358551	485		1341280	4026755392104	503	
1341032	4026755358568	485		1341281	4026755392111	503	
1341050	4026755384857	485		1341282	4026755392128	503, 504	
1341051	4026755384864	485		1341283	4026755407808	504	
1341052	4026755384871	485		1341284	4026755407815	504	
1341070	4026755371772	502		1341290	4026755392135	503	
1341071	4026755413168	502		1341291	4026755392142	503	
1341072	4026755435658	502		1341292	4026755392159	503, 504	
1341074	4026755441109	502		1341295	4026755399998	502	
1341080	4026755358445	498		1341296	4026755424256	502	
1341081	4026755402506	499		1341298	4026755441116	479, 162	
1341082	4026755417043	498		1341299	4026755455397	162	On request
1341083	4026755422818	498		1341332	4026755411805	489	
1341084	4026755425437	498		1341340	4026755411812	494	
1341087	4026755473100	497		1341341	4026755411829	494	
1341088	4026755446630	497		1341342	4026755411836	494	
1341089	4026755446647	497		1341360	4026755411843	494	
1341091	4026755410693	497		1341361	4026755411850	494	
1341092	4026755410723	477		1341362	4026755411867	494	
1341093	4026755412574	499		1341372	4026755430974	490	
1341094	4026755419627	499		1341383	4026755407839	504	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1341384	4026755407846	504		1349054	4026755413748	498	
1341442	4026755412239	495		1349096	4026755450682	505	
1341462	4026755412260	495		1349097	4026755438642	505	
1341542	4026755412666	495		1349098	4026755431575	504	
1341562	4026755412697	495		1349099	4026755431483	505	
1341642	4026755435467	494		1349980	4026755434385	499	
1341662	4026755435474	494		1349981	4026755434392	499	
1341980	4026755430479	484, 505		1349982	4026755434408	499	
1341981	4026755430486	484, 505		1349983	4026755464450	499	
1342093	4026755422825	481, 743		1350106	4026755433036	437	
1343050	4026755336252	504		1350108	4026755433043	437	
1343092	4026755422832	504		1350260	4026755407501	413	
1344030	4026755446890	473		1350271	4026755363043	402	
1344031	4026755446906	473		1350281	4026755133776	402	
1344032	4026755446913	473		1350285	4026755336269	402	
1344050	4026755446920	473		1350289	4026755283136	402	
1344051	4026755446937	473		1350290	4026755425734	403	
1344052	4026755446944	473		1350292	4026755391442	402	
1344083	4026755462302	482		1350294	4026755336276	402	
1344084	4026755462319	482, 458		1350295	4026755336283	402	
1344085	4026755462326	482, 458		1350296	4026755336290	403	
1344093	4026755462333	482		1350297	4026755336306	403	
1344094	4026755462340	482, 458		1350299	4026755283150	402	
1344095	4026755462357	482, 458		1350443	4026755343823	398	
1344097	4026755459418	479	On request	1350444	4026755343830	398	
1344098	4026755459425	478		1350445	4026755395419	426	
1344470	4026755457223	476		1350446	4026755395426	426	
1344480	4026755447361	476		1350447	4026755395433	426	
1344481	4026755469547	477		1350448	4026755395440	426	
1344484	4026755456257	476		1350449	4026755395457	426	
1344485	4026755447378	476		1350450	4026755342369	426	
1344489	4026755462968	476		1350451	4026755342376	426	
1344490	4026755447385	476		1350455	4026755342383	426	
1344491	4026755461619	483		1350456	4026755342390	426	
1344492	4026755462364	483		1350457	4026755342406	426	
1344493	4026755462371	482		1350465	4026755342413	426	
1344494	4026755462388	482		1350466	4026755342420	426	
1344495	4026755462395	482		1350467	4026755342437	426	
1344496	4026755462401	483		1350470	4026755342444	426	
1344497	4026755462418	483, 459		1350471	4026755342451	426	
1344498	4026755466409	483, 459		1350476	4026755342482	426, 652	
1344499	4026755476484	482		1350477	4026755342499	426, 652	
1344550	4026755447392	475		1350490	4026755372137	398	
1344551	4026755459432	475		1350594	4026755133820	426	
1344555	4026755447408	475		1350951	4026755347210	403	
1344560	4026755477474	475		1350952	4026755336313	403	
1344561	4026755477481	476		1350953	4026755336320	403	
1344570	4026755480221	476		1350956	4026755394160	403	
1344575	4026755480238	476		1350958	4026755432992	403	
1344576	4026755480245	476		1351055	4026755454840	403	
1344580	4026755466416	484		1351062	4026755133868	440	
1344581	4026755466423	484		1351072	4026755251531	440	
1344582	4026755466430	483		1351095	4026755133882	426	
1344583	4026755466447	479		1351096	4026755133899	426	
1344595	4026755454338	478		1351394	4026755133981	426	
1344596	4026755467673	478		1351396	4026755133998	426	
1344598	4026755454437	478		1351470	4026755348422	417	
1344599	4026755454444	478		1351471	4026755348439	417	
1344697	4026755454451	478		1351472	4026755348446	417	
1344698	4026755454468	478		1351482	4026755395464	415	
1344699	4026755454475	478		1351483	4026755395471	415	
1349051	4026755384758	498		1351568	4026755395488	419	
1349052	4026755392180	498, 477		1351569	4026755395495	419	
1349053	4026755408744	498		1351571	4026755134018	415	

GENERAL INFORMATION
INDEX

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1351582	4026755400861	416		1352273	4026755318951	401, 408	
1351583	4026755249514	416		1352296	4026755280814	401	
1351584	4026755280777	416		1352297	4026755280821	401	
1351585	4026755280784	416		1353181	4026755273830	400, 407	
1351586	4026755355574	416		1353390	4026755249347	400	
1351587	4026755355581	416		1353583	4026755401424	335	
1351588	4026755355598	416		1353584	4026755401431	335	
1351589	4026755408010	419		1354070	4026755439267	405	
1351590	4026755280791	420		1354087	4026755385205	406	
1351591	4026755336429	421		1354097	4026755385212	406	
1351592	4026755306484	422		1354166	4026755454291	404	
1351593	4026755348453	422		1354171	4026755356878	404	
1351596	4026755318074	424		1354260	4026755461503	406	
1351597	4026755328547	424		1354270	4026755391459	405	
1351598	4026755330663	424		1354272	4026755422511	405	
1351651	4026755134025	423		1354274	4026755391466	405	
1351652	4026755343137	423		1354276	4026755386271	405	
1351654	4026755409246	423		1354571	4026755383355	412	
1351655	4026755305401	423		1354580	4026755396904	412	
1351657	4026755381580	423		1354586	4026755383393	412	
1351658	4026755381597	423		1354587	4026755406986	412	
1351662	4026755458046	417		1354691	4026755455014	411	
1351663	4026755458053	417		1354692	4026755401608	411	
1351664	4026755458060	417		1354699	4026755370348	413	
1351665	4026755458077	417		1354783	4026755407112	411	
1351672	4026755394986	417		1354795	4026755407136	410	
1351673	4026755394993	417		1354798	4026755407143	411	
1351674	4026755395006	417		1355051	4026755387629	388	
1351675	4026755396638	417		1355057	4026755387636	388	
1351678	4026755458084	420		1355059	4026755387643	388	
1351679	4026755458091	420		1355070	4026755456943	391	
1351692	4026755370027	418		1355071	4026755249170	389	
1351693	4026755373035	418		1355074	4026755343854	389	
1351694	4026755373042	418		1355075	4026755381320	391	
1351695	4026755407518	422		1355076	4026755383201	391	
1351696	4026755333169	424		1355079	4026755383218	391	
1351697	4026755371529	422		1355080	4026755451344	391	
1351698	4026755332704	419		1355081	4026755451351	391	
1351699	4026755332711	419		1355090	4026755263510	399, 428, 407	
1351701	4026755400755	401, 656		1355091	4026755280845	428	
1351702	4026755400762	401, 656		1355092	4026755280852	428	
1351703	4026755400779	400		1355093	4026755472035	401, 413	
1351704	4026755400786	402		1355094	4026755472042	401, 413	
1351705	4026755400793	340		1355159	4026755479232	429, 408	
1351758	4026755396157	420		1355251	4026755387650	393	
1351759	4026755396164	420		1355257	4026755387667	393	
1351770	4026755411584	422		1355259	4026755387674	393	
1351771	4026755411591	422		1355270	4026755290578	396	
1351778	4026755371550	421		1355271	4026755249217	394	
1351779	4026755371567	421		1355274	4026755343892	394	
1351783	4026755407082	416		1355275	4026755381337	396	
1351785	4026755407099	416		1355276	4026755383225	396	
1351790	4026755358575	424, 466		1355279	4026755383232	396	
1351791	4026755358582	424, 466		1355280	4026755451368	396	
1351792	4026755358599	424		1355281	4026755451375	396	
1351793	4026755369977	424		1355299	4026755446494	402	
1352088	4026755442250	481, 426, 746		1356050	4026755399608	390	
1352089	4026755442267	481, 427, 746		1356090	4026755352139	428	
1352096	4026755258677	398, 407, 413		1356091	4026755352146	428	
1352098	4026755382389	398		1356092	4026755352153	428	
1352250	4026755429039	398		1356093	4026755352160	428	
1352258	4026755435184	398		1356097	4026755381344	400, 428, 407	
1352259	4026755435191	398		1356098	4026755381351	400, 428, 407	
1352272	4026755318944	401, 408		1356250	4026755399615	395	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1356293	4026755472059	401, 413		1359062	4026755318159	437	
1356294	4026755472066	401, 413		1359063	4026755318166	437	
1357020	4026755438659	390		1359064	4026755318173	437	
1357027	4026755438666	390		1359065	4026755318180	437	
1357029	4026755438673	390		1359066	4026755318197	437	
1357070	4026755419009	389		1359067	4026755318203	437	
1357072	4026755423471	389		1359068	4026755318210	437	
1357073	4026755423488	389		1359069	4026755318227	437	
1357085	4026755471960	399		1359070	4026755318234	438	
1357086	4026755433050	399		1359071	4026755318241	438	
1357087	4026755433067	399		1359072	4026755318258	438	
1357088	4026755433074	403		1359073	4026755352801	437	
1357089	4026755430516	401		1359080	4026755318265	438	
1357090	4026755430523	400		1359081	4026755318272	438	
1357091	4026755430530	401		1359085	4026755318289	438	
1357092	4026755430547	402		1359086	4026755437614	438	
1357093	4026755430554	403		1359090	4026755318296	439	
1357094	4026755430561	402		1359091	4026755318302	463, 439	
1357095	4026755430578	402		1359094	4026755328554	439	
1357096	4026755430585	400		1359095	4026755318319	439	
1357097	4026755430592	398		1359096	4026755318326	439	
1357098	4026755430608	401		1359097	4026755318333	439	
1357099	4026755430615	401		1359098	4026755318340	439	
1357157	4026755344080	429		1359099	4026755318357	426	
1357159	4026755383249	429, 408		1359101	4026755318364	439	
1357160	4026755383256	429, 408		1359102	4026755318388	439	
1357161	4026755395150	429		1359103	4026755318395	439	
1357220	4026755438680	395		1359104	4026755318401	439	
1357227	4026755438697	395		1359105	4026755318418	439	
1357229	4026755438703	395		1359551	4026755318463	426	
1357270	4026755419016	394		1359552	4026755318470	426	
1357272	4026755423495	394		1359553	4026755359077	426	
1357273	4026755423501	394		1359554	4026755375688	426	
1357290	4026755423792	399, 432		1359591	4026755359114	425	
1357291	4026755440645	481, 746		1359592	4026755359121	425	
1357292	4026755446500	481, 746		1359995	4026755455762	456, 462, 430	
1358149	4026755434781	657		1359996	4026755455779	462, 430	
1358150	4026755381955	430		1360033	4026755422849	643	
1358155	4026755344103	429		1360063	4026755422856	644	
1358157	4026755370690	429		1360394	4026755420463	647	
1358161	4026755358605	429		1360556	4026755422863	646	
1358165	4026755431506	401, 429		1360557	4026755422870	646	
1358170	4026755434798	430		1360558	4026755422887	646	
1358171	4026755434804	430, 657		1360573	4026755422894	645	
1358180	4026755434811	657		1360589	4026755447835	657	
1358240	4026755379136	392		1360590	4026755479263	657	
1358251	4026755355710	392		1360851	4026755391497	646	
1358252	4026755414134	392		1360852	4026755422900	646	
1358340	4026755379143	397		1360853	4026755422917	646	
1358351	4026755355734	397		1360854	4026755427448	646	
1358352	4026755414141	397		1360862	4026755430905	648	
1358540	4026755379150	392		1360864	4026755427455	648	
1358551	4026755371970	392		1361011	4026755373486	665	
1358552	4026755414158	392		1361012	4026755373493	665	
1358640	4026755379167	397		1361013	4026755373509	665	
1358651	4026755371994	397		1361050	4026755401981	650	
1358652	4026755414165	397		1361060	4026755401998	649	
1359040	4026755337266	439		1361092	4026755413236	651	
1359041	4026755337273	438		1361098	4026755349153	403	
1359042	4026755337280	437		1361228	4026755406993	680	
1359043	4026755352795	437		1361229	4026755407006	680	
1359050	4026755317350	437		1361230	4026755346831	671	
1359060	4026755318135	437		1361231	4026755346848	671	
1359061	4026755318142	437		1361248	4026755389302	681	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1361249	4026755373523	681		1361690	4026755350883	654	
1361250	4026755366419	681		1361691	4026755350890	654	
1361251	4026755366426	681		1361694	4026755379822	673	
1361252	4026755405231	681		1362063	4026755417012	642	
1361253	4026755405248	681		1363051	4026755166286	654	
1361254	4026755366433	681		1364140	4026755369922	653	
1361255	4026755366440	681		1364161	4026755280876	655	
1361256	4026755366457	681		1364162	4026755281651	655	
1361257	4026755366464	681		1364163	4026755372571	655	
1361258	4026755366471	681		1364170	4026755365054	655	
1361259	4026755366488	681		1364185	4026755370034	519, 666	
1361260	4026755350739	672		1364186	4026755370041	653	
1361262	4026755350753	672		1364187	4026755430271	656	
1361264	4026755356007	672		1364188	4026755430288	656	
1361266	4026755405132	672		1364189	4026755430295	656	
1361270	4026755364439	672		1364190	4026755283570	655	
1361271	4026755364446	672		1364192	4026755430301	655	
1361275	4026755364453	672		1364193	4026755430318	655	
1361276	4026755364460	672		1364194	4026755430325	655	
1361278	4026755385533	672		1364195	4026755319897	656	
1361279	4026755379174	669		1364196	4026755319903	656	
1361283	4026755400328	680		1364198	4026755344141	656	
1361284	4026755400335	680		1364199	4026755343533	653	
1361288	4026755400342	681		1364240	4026755393743	654	
1361289	4026755366365	679		1364247	4026755347388	655	
1361290	4026755363623	674		1364248	4026755387469	520	
1361295	4026755364026	673		1364250	4026755305470	654	
1361340	4026755416923	676		1364260	4026755332179	656	
1361345	4026755416930	677		1365040	4026755358650	684	
1361380	4026755416947	679		1365050	4026755358667	684	
1361381	4026755416954	679		1365060	4026755358674	684	
1361385	4026755416961	679		1365540	4026755372229	685	
1361387	4026755385557	679		1365550	4026755372236	685	
1361388	4026755417050	679		1365560	4026755372243	685	
1361389	4026755417067	679		1366040	4026755386387	686	
1361391	4026755416978	679		1366050	4026755386394	686	
1361392	4026755416985	679		1366060	4026755386400	686	
1361393	4026755416992	679		1366597	4026755420470	647	
1361394	4026755417005	679		1367259	4026755447842	657	
1361421	4026755350777	518, 664		1367260	4026755479270	657	
1361422	4026755350784	518, 664		1367393	4026755371628	651	
1361423	4026755350791	518, 664		1367395	4026755371635	651	
1361424	4026755350807	664		1367396	4026755371642	651	
1361425	4026755350814	664		1367397	4026755371659	651	
1361440	4026755415148	678		1367465	4026755332735	466, 652	
1361448	4026755415247	682		1367468	4026755332742	466, 652	
1361480	4026755415155	679		1367583	4026755386509	651	
1361481	4026755415261	679		1367585	4026755386516	651	
1361486	4026755415278	680		1367586	4026755386523	651	
1361487	4026755415285	680		1367587	4026755386530	651	
1361488	4026755415292	682		1367589	4026755386547	651	
1361489	4026755415308	682		1368064	4026755422931	644	
1361622	4026755350838	673		1368163	4026755422948	642	
1361623	4026755362329	673		1368251	4026755394320	644	
1361625	4026755379181	672		1369010	4026755479287	656	
1361651	4026755350845	668		1369050	4026755363135	253, 651	
1361652	4026755350852	668		1369051	4026755225259	518, 666	
1361653	4026755350869	668		1369055	4026755371222	253, 651	
1361654	4026755350876	668		1369076	4026755364279	669	
1361655	4026755352399	669		1369078	4026755364286	669	
1361671	4026755359145	673		1369080	4026755330847	654	
1361672	4026755359152	673		1369081	4026755330854	654	
1361680	4026755359169	669		1369083	4026755367119	669	
1361681	4026755359176	669		1369084	4026755367126	669	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1369085	4026755330861	653		1381582	4026755434118	460	
1369086	4026755364293	653		1381584	4026755434132	464	
1369089	4026755350906	652		1381585	4026755439670	463	
1369090	4026755315936	652		1381587	4026755439694	463	
1369092	4026755415940	655		1381590	4026755422955	461	
1369093	4026755331004	436, 519, 481, 662, 705, 744, 550		1381591	4026755434439	461	
1369094	4026755331011	436, 519, 481, 662, 705, 744		1381592	4026755434446	461	
1369095	4026755418323	436, 481, 547, 705, 744		1381593	4026755438871	464	
1369096	4026755364316	669		1381594	4026755438888	462, 465	
1369098	4026755364323	669		1381595	4026755438895	464	
1369531	4026755400144	661		1381596	4026755438901	464	
1369532	4026755417647	661, 746		1381597	4026755438918	464	
1369549	4026755420487	659, 742		1381599	4026755443349	464	
1369551	4026755420494	659, 742		1383460	4026755400571	516	
1369553	4026755435054	661, 746		1383465	4026755400588	516	
1369555	4026755396379	434, 660, 742		1383480	4026755413199	517	
1369591	4026755344189	662, 746		1383485	4026755413205	517, 743	
1381043	4026755418330	469		1383550	4026755401813	515	
1381044	4026755417395	470		1383555	4026755401820	515	
1381045	4026755406931	469		1383562	4026755394917	515	
1381046	4026755406948	469		1383567	4026755394924	515	
1381047	4026755391268	518, 469		1383575	4026755402025	517	
1381048	4026755415315	469		1383580	4026755396317	518	
1381049	4026755391275	518, 469		1383581	4026755396324	518	
1381066	4026755396645	465		1383582	4026755418347	470	
1381068	4026755400403	466		1383583	4026755427097	518	
1381078	4026755429046	461		1383584	4026755455403	518	
1381079	4026755397680	466		1383592	4026755410518	510, 519	
1381080	4026755395310	466		1383593	4026755412826	519	
1381088	4026755381368	467		1383594	4026755429763	510, 519	
1381089	4026755380408	467		1383645	4026755422535	515	
1381091	4026755366945	467		1383646	4026755435481	517	
1381093	4026755366976	467		1385008	4026755373240	508	
1381094	4026755366983	467		1385010	4026755352498	508	
1381095	4026755366990	467		1385015	4026755352504	508	
1381096	4026755367003	467		1385105	4026755352528	509	
1381097	4026755367010	467		1385107	4026755352535	509	
1381125	4026755465075	454		1385110	4026755352542	509	
1381127	4026755465082	454		1386008	4026755417654	508	
1381140	4026755465099	455		1386010	4026755417661	508	
1381142	4026755465105	455		1386015	4026755417678	508	
1381150	4026755465112	456		1387006	4026755435498	510	
1381152	4026755465129	456		1387106	4026755435504	510	
1381160	4026755468076	459		1387303	4026755420876	512	
1381161	4026755468083	459		1387505	4026755420883	508	
1381162	4026755468090	459		1387506	4026755435511	510	
1381163	4026755468106	458		1387606	4026755435528	510	
1381164	4026755468113	458		1389001	4026755382211	510	
1381165	4026755468120	482, 458		1389010	4026755479294	467, 656	
1381166	4026755468137	459		1389050	4026755391282	467	
1381167	4026755468144	458		1389051	4026755391299	467	
1381168	4026755468151	459		1389052	4026755426861	467	
1381169	4026755468168	458		1389095	4026755419412	466	
1381190	4026755471977	456		1389099	4026755450088	468	
1381191	4026755430622	462, 465		1389901	4026755413267	467	
1381192	4026755430639	462, 465		1389902	4026755414608	467	
1381193	4026755430646	462, 465		1391021	4026755471731	449	
1381194	4026755430653	462, 465		1391026	4026755471748	446	
1381199	4026755431742	462, 465		1391027	4026755471755	447	
1381580	4026755419634	460		1391031	4026755471762	449	
				1391036	4026755471779	446	
				1391037	4026755471786	447	
				1392021	4026755471793	449	
				1392027	4026755471809	447	

GENERAL INFORMATION
INDEX

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1392031	4026755471816	449		1402098	4026755384734	184	
1392037	4026755471823	448		1402099	4026755384741	184	
1393027	4026755471830	448		1402130	4026755446661	176	
1393037	4026755471847	448		1402152	4026755371253	170	
1395010	4026755424218	450, 511		1402154	4026755371260	170	
1395011	4026755471854	450, 511		1402162	4026755460063	179	
1395012	4026755471861	450, 511		1402191	4026755422207	184	
1399091	4026755424249	450		1402252	4026755371277	170	
1399092	4026755438321	450		1402254	4026755371284	170	
1400051	4026755278361	171		1402330	4026755446685	176	
1400052	4026755278378	171		1402352	4026755380163	170	
1400054	4026755333596	171		1402390	4026755300031	177	
1400151	4026755278385	171		1402393	4026755446692	178	
1400152	4026755278392	171		1402394	4026755446708	178	
1400154	4026755296983	171		1402430	4026755446715	177	
1400251	4026755280609	171		1402490	4026755418187	177	
1400252	4026755280616	171		1402500	4026755306538	174	
1400254	4026755338591	171		1402505	4026755328813	174	
1400352	4026755303001	171		1402507	4026755336351	174	
1400354	4026755303018	171		1402510	4026755328820	174	
1400392	4026755134490	166		1402515	4026755336368	174	
1400554	4026755134513	165		1402520	4026755412192	174	
1400560	4026755359213	171		1402580	4026755306545	175	
1400562	4026755360493	171		1402581	4026755306552	175	
1400563	4026755366372	171		1402591	4026755306569	175	
1400652	4026755134520	166		1402592	4026755306576	175	
1400653	4026755134537	166		1402594	4026755446951	175	
1400654	4026755134544	166		1402596	4026755443288	175	
1400660	4026755359220	171		1402597	4026755306583	175	
1400691	4026755134551	166		1402598	4026755306590	185	
1400692	4026755134568	587, 167		1402599	4026755306606	185	
1400693	4026755134575	167		1402600	4026755306613	174	
1400980	4026755435016	477, 200, 726, 44		1402605	4026755424409	174	
1400981	4026755435023	200, 726, 44		1402607	4026755424416	174	
1400982	4026755435030	200, 726, 44		1402610	4026755424423	174	
1400983	4026755441123	200, 480, 726, 44		1402620	4026755424430	174	
1400984	4026755482003	200, 44, 726		1402800	4026755306620	181	
1400985	4026755482010	200, 44, 726		1402850	4026755306637	181	
1401061	4026755134681	166		1402855	4026755306644	181	
1401091	4026755134698	127, 167		1402857	4026755306651	182	
1401151	4026755369366	127, 162		1402891	4026755306668	182	
1401152	4026755369427	127, 162		1402895	4026755306675	182	
1401153	4026755369434	127, 162		1403507	4026755459951	179	
1401154	4026755369441	127, 162		1403510	4026755480009	179	
1401171	4026755369571	162, 127		1403520	4026755459968	179	
1401172	4026755369588	162, 127		1404091	4026755395327	168	
1401173	4026755369595	162, 127		1404095	4026755277104	167	
1401174	4026755369601	162, 127		1404578	4026755350371	477, 163	
1401190	4026755367737	162		1404579	4026755350401	163	
1401191	4026755395297	503, 478, 162		1404580	4026755288834	477, 163	
1401704	4026755134735	167		1404581	4026755288841	163	
1401952	4026755395532	170		1404682	4026755450699	477, 163	
1401990	4026755395549	184		1404683	4026755450705	163	
1402010	4026755342796	177		1404752	4026755423587	159	
1402052	4026755371239	170		1404753	4026755423594	159	
1402054	4026755371246	170		1404754	4026755423600	159	
1402070	4026755460049	180		1404755	4026755423617	159	
1402071	4026755460056	180		1404756	4026755423624	159	
1402090	4026755279078	184		1404757	4026755423631	159	
1402091	4026755279085	184		1404758	4026755423648	159	
1402092	4026755286953	185		1404759	4026755423655	159	
1402096	4026755307979	184		1404760	4026755423662	159	
				1404761	4026755423679	159	
				1404762	4026755423686	159	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1404780	4026755329926	163		1406556	4026755450354	156	
1404790	4026755342802	165		1406557	4026755450361	156	
1404884	4026755465501	163		1406558	4026755450378	156	
1404885	4026755465518	163		1406559	4026755450385	156	
1404886	4026755465525	163		1406560	4026755450392	156	
1404887	4026755465532	163		1406561	4026755450408	156	
1404952	4026755464245	158		1406562	4026755450415	156	
1404953	4026755464252	158		1406583	4026755360646	126, 164	
1404954	4026755464269	158		1406584	4026755360653	126, 164	
1404955	4026755464276	158		1406586	4026755379587	164	
1404956	4026755464283	158		1406708	4026755172409	126, 164	
1404957	4026755464290	158		1407152	4026755437980	125	
1404958	4026755464306	158		1407153	4026755437997	125	
1404959	4026755464313	158		1407154	4026755438000	125	
1404960	4026755464320	158		1407155	4026755438017	125	
1404961	4026755464337	158		1407156	4026755438024	125	
1404962	4026755464344	158		1407157	4026755438031	125	
1405352	4026755437652	157		1407158	4026755438048	125	
1405353	4026755437669	157		1407159	4026755438055	125	
1405354	4026755437676	157		1407160	4026755438062	125	
1405355	4026755437683	157		1407161	4026755438079	125	
1405356	4026755437690	157		1407162	4026755438086	125	
1405357	4026755437706	157		1407206	4026755278712	161	
1405358	4026755437713	157		1407252	4026755450538	125	
1405359	4026755437720	157		1407253	4026755450545	125	
1405360	4026755437737	157		1407254	4026755450552	125	
1405361	4026755437744	157		1407255	4026755450569	125	
1405362	4026755437751	157		1407256	4026755450576	125	
1405552	4026755437874	157		1407257	4026755450583	125	
1405553	4026755437881	157		1407258	4026755450590	125	
1405554	4026755437898	157		1407259	4026755450606	125	
1405555	4026755437904	157		1407260	4026755450613	125	
1405556	4026755437911	157		1407261	4026755450620	125	
1405557	4026755437928	157		1407262	4026755450637	125	
1405558	4026755437935	157		1408010	4026755275292	165	
1405559	4026755437942	157		1409082	4026755299182	178	
1405560	4026755437959	157		1409085	4026755279115	185	
1405561	4026755437966	157		1409086	4026755431759	185	
1405562	4026755437973	157		1409087	4026755431766	185	
1405578	4026755453416	477, 163		1409090	4026755279122	185	
1405579	4026755453492	163		1409095	4026755385847	184	
1405580	4026755453508	477, 163		1414452	4026755373141	160	
1405581	4026755453515	163		1414453	4026755373158	160	
1406352	4026755440430	157		1414454	4026755373165	160	
1406353	4026755440447	157		1414455	4026755373172	160	
1406354	4026755440454	157		1414456	4026755373257	160	
1406355	4026755440461	157		1414490	4026755371789	165	
1406356	4026755440478	157		1414493	4026755384024	166	
1406357	4026755440485	157		1501184	4026755135077	184	
1406358	4026755440492	157		1507934	4026755135725	161, 183, 132	
1406359	4026755440508	157		1507935	4026755192179	161, 183, 132	
1406360	4026755440515	157		1507937	4026755349214	161, 183, 132	
1406361	4026755440522	157		1507938	4026755254266	161, 183, 132	
1406362	4026755440539	157		1507939	4026755288773	161, 183, 132	
1406383	4026755249873	126, 163		1507940	4026755135749	161, 183, 132	
1406384	4026755249880	126, 163		1507954	4026755135787	183	
1406394	4026755134971	163		1507955	4026755172461	183	
1406483	4026755360615	126, 164		1511946	4026755353471	426	
1406484	4026755360622	126, 164		1511949	4026755353488	426	
1406504	4026755343144	127, 164		1512541	4026755434149	183	
1406552	4026755450316	156		1512542	4026755329933	183	
1406553	4026755450323	156		1512543	4026755181951	183	
1406554	4026755450330	156		1512544	4026755347418	183	
1406555	4026755450347	156		1512545	4026755181968	183	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
1519481	4026755434156	183		1676352	4026755449662	285	
1519488	4026755347425	183		1676353	4026755449679	285	
1519489	4026755329940	183		1681650	4026755219579	121	
1540154	4026755383492	173		1683703	4026755448702	58	
1540155	4026755383508	173		1683704	4026755448719	58	
1540160	4026755383522	173		1683803	4026755448726	58	
1540254	4026755383539	173		1683804	4026755448733	58	
1540255	4026755383546	173		1685121	4026755375138	497	
1540257	4026755424782	173		1688290	4026755384031	322	
1540260	4026755396669	173		1688291	4026755434187	322	
1540355	4026755460070	180		1688295	4026755256789	322	
1540555	4026755383553	173		1688296	4026755256796	257	
1540557	4026755424799	173		1688297	4026755256802	257	
1541054	4026755383560	173		1688350	4026755419733	250	
1541055	4026755383577	173		1688356	4026755419740	250	
1541060	4026755383584	173		1688703	4026755419757	249	
1541405	4026755477856	172		1688704	4026755419764	249	
1541410	4026755477863	172		1688706	4026755419771	249	
1541420	4026755477870	172		1688708	4026755419788	249	
1541605	4026755477429	172		1688710	4026755419795	249	
1541610	4026755477436	172		1688712	4026755419801	249	
1541620	4026755477443	172		1688716	4026755419818	249	
1541650	4026755477450	172		1688746	4026755419825	249	
1541720	4026755477887	172		1688747	4026755419832	249	
1541750	4026755477894	172		1688748	4026755419849	249	
1542005	4026755477900	172		1688749	4026755419856	249	
1542010	4026755477917	172		1688750	4026755419863	249	
1542020	4026755477924	172		1696081	4026755361995	342	
1542605	4026755477931	172		1696082	4026755362008	342	
1543205	4026755477948	172		1696083	4026755362015	342	
1551620	4026755477955	180		1697804	4026755313598	331	
1609302	4026755284539	273		1697806	4026755313604	331	
1613066	4026755369236	29		1697808	4026755330748	331	
1613401	4026755136876	22		1697810	4026755382709	331	
1613501	4026755171655	22		1699085	4026755385632	161	
1616001	4026755222531	24		1703063	4026755448740	58	
1616100	4026755192759	23		1703064	4026755448757	58	
1616200	4026755205404	23		1703163	4026755448764	58	
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Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
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Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
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Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
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Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
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4205504	4026755288964	529					

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
4207095	4026755421378	546		4208712	4026755340761	463, 564	
4207096	4026755421385	548		4208716	4026755340778	564	
4207097	4026755421521	548		4208804	4026755324860	569	
4207098	4026755422542	547		4208806	4026755324877	569	
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4207104	4026755289046	540		4208810	4026755324891	569	
4207106	4026755289053	539, 540		4208812	4026755324907	569	
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4208194	4026755314205	543		4209010	4026755157598	565	
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4208204	4026755157314	559		4209016	4026755157611	565	
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4208212	4026755157352	559		4209102	4026755309959	457, 541, 463	
4208216	4026755157369	559		4209103	4026755309966	457, 541, 463	
4208220	4026755332605	559		4209202	4026755412963	541	
4208224	4026755332612	559		4209204	4026755405064	541	
4208363	4026755157444	560		4209206	4026755405071	541	
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4208606	4026755340686	564		4209512	4026755157666	565	
4208608	4026755340693	457, 564		4209516	4026755157673	565	
4208610	4026755340709	457, 564		4209520	4026755334630	565	
4208612	4026755340716	463, 564		4209524	4026755334647	565	
4208616	4026755340723	564		4209602	4026755413779	585	
4208704	4026755340662	564		4209603	4026755413786	585	
4208706	4026755340730	564		4209604	4026755413793	585	
4208708	4026755340747	457, 564		4220004	4026755356977	562	
4208710	4026755340754	457, 564		4220006	4026755356984	562	

Item No.	GTIN	Page	PG	Item No.	GTIN	Page	PG
4220052	4026755356991	562		4229051	4026755396430	577	
4220053	4026755357004	562		4229052	4026755407181	577	
4220054	4026755357011	562		4723050	4026755398090	408	
4220104	4026755357028	562		6100508	4026755159158	595	
4220106	4026755357035	562		6100606	4026755159165	595	
4220108	4026755391374	562		6100608	4026755159172	595	
4220110	4026755391381	562		6101008	4026755159196	593	
4220152	4026755357042	562		6101051	4026755159202	593	
4220153	4026755357059	562		6101053	4026755159219	595	
4220154	4026755357066	562		6102010	4026755159233	593	
4220155	4026755391398	562		6102016	4026755159240	593	
4220190	4026755357455	567		6102051	4026755159257	595	
4220191	4026755396386	567		6102053	4026755285079	595	
4220204	4026755357073	563		6105008	4026755159271	594	
4220206	4026755357080	563		6105108	4026755248821	594	
4220208	4026755391404	563		6105751	4026755159288	595	
4220210	4026755391411	563		6109052	4026755159301	596	
4220252	4026755357097	563		6109152	4026755159325	595	
4220253	4026755357103	563		6109551	4026755159349	595	
4220254	4026755357110	563		6109552	4026755295764	595	
4220304	4026755357127	563		6109851	4026755159363	596	
4220306	4026755357134	563		6120008	4026755159370	457, 463, 589	
4220308	4026755391428	563		6120010	4026755159387	457, 463, 589	
4220310	4026755391435	563		6120012	4026755159394	457, 463, 589	
4220352	4026755357141	563		6120016	4026755159400	457, 463, 589	
4220353	4026755357158	563		6120058	4026755236170	590	
4220354	4026755357165	563		6120060	4026755236187	590	
4221090	4026755357462	567		6120062	4026755236194	590	
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4223191	4026755421392	567		6120508	4026755159455	590	
4223192	4026755421408	577, 536, 566		6120581	4026755159462	591	
4223193	4026755421415	577, 536, 566		6120591	4026755159479	591	
4223194	4026755421422	577		6120595	4026755159486	592	
4223195	4026755421439	577, 536, 566		6122006	4026755159578	457, 463, 589	
4223196	4026755425468	577, 536, 566		6122008	4026755159585	457, 463, 589	
4223197	4026755435603	567, 537		6122010	4026755159592	457, 463, 589	
4223216	4026755418101	577		6122506	4026755163490	590	
4223290	4026755418118	577		6122508	4026755163506	590	
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4225152	4026755357295	534		6125000	4026755159660	592	
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4225804	4026755357356	534		6125361	4026755159738	591	
4226004	4026755357363	533		6125363	4026755159745	591	
4226504	4026755357370	533		6125400	4026755159752	591	
4229001	4026755357493	536, 566		6125400	4026755159752	591	
4229002	4026755396393	566		6125500	4026755159769	591	
4229010	4026755357509	536, 566		6126000	4026755159806	592	
4229011	4026755396409	566		6127000	4026755159813	592	
4229015	4026755357516	567, 537		9900015	4026755466836	752	On request
4229016	4026755396416	567		9900016	4026755466843	752	On request
4229020	4026755357523	566, 536		9900017	4026755466850	752	On request
4229021	4026755396423	566		9900020	4026755466867	753	On request
4229035	4026755407785	567		9900025	4026755468052	754	On request
4229040	4026755396485	566, 536		9900028	4026755466973	755	On request
4229041	4026755396492	566		9900029	4026755466980	755	On request
4229050	4026755357530	577		9900033	4026755466874	753	On request
				9900034	4026755466997	753	On request

Item No.	GTIN	Page	PG
9900039	4026755467048	754	On request
9900040	4026755467055	754	On request
9900041	4026755467062	754	On request
9999979	4026755230482	758	Free of charge



Room climate



Hydronics



Stations,
Storage cylinders



Potable water



Oil, Solar



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Smart Building

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