



Catalogue 2022



oventrop

Wir regeln das. Seit 1851.

Catalogue

2022

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



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System competence

for efficient heating, cooling
and clean potable water



Potable water

Hydronics

Room climate

Stations,
Storage cylinders

Oil

Smart Home,
Smart Building



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



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



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

Stations for heating circuit and cooling circuit connection

Stations for solar thermal energy

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

Smart Home

Smart Building

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

Service

General information



Room climate



Hydronics



Stations, Storage cylinders



Potable water



Oil



Smart Home, Smart Building



Service and data



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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 two concealed internal **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 with room temperature sensor PT 1000	No		

Uni LH with M 30 x 1.5



Connection thread	M 30 x 1.5	Anti-theft ring	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	Yes	Yes	7 up to 28	10	1011465
White	9016	No	Yes	7 up to 28	10	1011464
Anthracite	7016	Yes	Yes	7 up to 28	10	1011467
Gold	-	Yes	Yes	7 up to 28	25	1011468 °
Chrome	-	Yes	Yes	7 up to 28	10	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 ring	Accessories
Frost protection	Yes	Blocking / Limiting	Yes
Setting aid for visually impaired persons	Yes		

Colour	RAL*	Zero position	Capillary tube length* (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 ring	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

Suitable for Danfoss thermostatic valves series RA.



Connection thread	Squeeze connection	Anti-theft ring	Accessories
Frost protection	Yes	Blocking / Limiting	Yes
Setting aid for visually impaired persons	Yes	PU	10

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

Uni LD with remote sensor, squeeze connection

Suitable for Danfoss thermostatic valves series RA.



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

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

Uni LDB (lockshield configuration) with squeeze connection

Suitable for Danfoss thermostatic valves series RA.



Connection thread	Squeeze connection	Anti-theft ring	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	Protection against vandalism	No
Zero position	Yes	Setting aid for visually impaired persons	Yes
Frost protection	Yes	Blocking / Limiting	Yes
Control range	7 up to 28 °C	Max. heating medium temperature	120 °C
Remote sensor	No	PU	10
Remote control with room temperature sensor PT 1000	No		

Uni L with M 30 x 1.0

Suitable for Oventrop thermostatic valves manufactured until 1998.



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

Uni LDVL with squeeze connection

Suitable for Danfoss thermostatic valves series RAVL.



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

Uni LDV with squeeze connection

Suitable for Danfoss thermostatic valves series RAV.



Colour	RAL*	Connection thread	Anti-theft ring	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 ring	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 ring	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 ring	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*	Connection thread	Zero position	Item No.
White	9016	M 30 x 1.5	Yes	1011365
White	9016	M 30 x 1.5	No	1011364

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



Colour	RAL*	Connection thread	Zero position	Capillary tube length* (mm)	PU	Item No.
White	9016	M 30 x 1.5	Yes	2,000		1011565
White	9016	M 30 x 1.5	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*	Connection thread	Zero position	Item No.
White	9016	M 30 x 1.5	Yes	1011360

Uni XD with squeeze connection



Colour	RAL*	Connection thread	Zero position	Item No.
White	9016	Squeeze connection	Yes	1011375
White	9016	Squeeze connection	No	1011374

Uni XD with remote sensor, squeeze connection



Colour	RAL*	Connection thread	Zero position	Capillary tube length* (mm)	Item No.
White	9016	Squeeze connection	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 extraordinary shape with outstanding 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 uncluttered, 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.

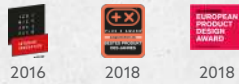
Control element	Liquid sensor	Blocking / Limiting	No
Zero position	Yes	Max. heating medium temperature	120 °C
Frost protection	Yes	PU	10
Control range	7 up to 28 °C		
Setting aid for visually impaired persons	Yes		

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

Design thermostats



The design thermostats set special accents.

pinox. The thermostat. 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 recom-

mended in combination with the Oventrop **E thermostatic valves** for modern living room design.

The **Uni CH thermostat** speaks for an **extravagante 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 ring	No
Zero position	No	Blocking / Limiting	No
Frost protection	Yes	Max. heating medium temperature	120 °C
Control range	7 up to 28 °C		

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

Uni CH with M 30 x 1.5



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

vindo Thermostats



The **vindo thermostat** is characterised by a **simple** and **slim** design. The reduced dimensions combine extraordinary shape with outstanding 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	RAL*	Connection thread	Anti-theft ring	Item No.
White	9016	M 30 x 1.5	Accessories	1013066

vindo TD with squeeze connection

Suitable for Danfoss thermostatic valves series RA.



Colour	RAL*	Connection thread	Anti-theft ring	Item No.
White	9016	Squeeze connection	Accessories	1013076

vindo RTD with squeeze connection

Suitable for Danfoss thermostatic valves series RTD.



Colour	RAL*	Connection thread	Anti-theft ring	Item No.
White	9016	Squeeze connection	No	1613066

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.

Control element	Liquid sensor	Setting aid for visually impaired persons	No
RAL*	9016	Blocking / Limiting	Yes
Frost protection	Yes	Max. heating medium temperature	120 °C
Control range	7 up to 28 °C		
Remote control with room temperature sensor PT 1000	Yes		

Uni FH with remote control, M 30 x 1.5



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

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.

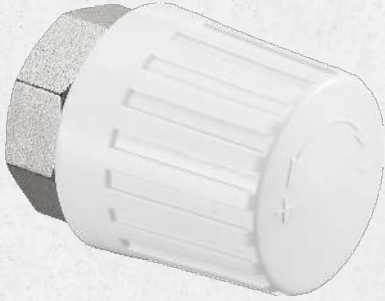
Communication	Bluetooth	Battery lifespan	About 2 years
Power supply	Battery operated	PU	20

mote 200



Colour	RAL*	Valve connection	Control range (°C)	Item No.
White	9003	Connection thread M 30 x 1.5	7 up to 28	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 (manufactured until 2019), 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

Anthracite, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces

Chrome plated, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces

Gold plated, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces

Stainless steel design, for Uni LH, SH, XH, LA, XHM, vindo TH and pinox thermostats, set = 5 pieces

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

Item No.

1011380

1011381

1011382

1011383

1011393

Reinforcing cap

For the protection against vandalism.



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

SH-Cap

For improved appearance of the Uni SH thermostat when used with Multiblock and design cover.



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



Tool for thermostats

Description

For Uni LH, LHZ, LD, LDV, LDVL and L thermostats as well as special thermostats, for loosening the handwheel and clips, set = 5 pieces

Item No.

1989100



1.1 Room temperature control

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ClimaCon F Room thermostats for surface heating



The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings in detached houses or dwellings. Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. The ClimaCon F room thermostats can be used in combination with electrothermal ac-

tuators (e.g. Aktor T 2P). Alternatively, connection to a connecting block (e.g. FloorCon) is possible. The simple surface-mounted installation and quick configuration make the product very installer-friendly. Depending on the model, there are room thermostats with reduced display, with integrated time switch and setting options via app.



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 AC	Electrothermal actuators (two point) "normally closed"	1155010
24 V AC	Electrothermal actuators (two point) "normally closed"	1155510

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 AC	No	No	Electrothermal actuators (two point) "normally closed"	1155031
24 V AC	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531

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



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

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

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



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 AC	Electrothermal actuators (two point) "normally closed"	1155021

	ClimaCon F 90	ClimaCon F 100		ClimaCon F 210	ClimaCon F 310	
						
	230 V	230 V	24 V	230 V	230 V	24 V
Item no.	1155009	1155010	1155510	1155021	1155031	1155531
Application						
Heating only / Cooling only	●	—	—	●	—	—
Heating or cooling (switchable)	—	●	●	—	●	●
Display						
Setpoint temperature	●	●	●	●	●	●
Actual temperature	—	—	—	●	●	●
Status (heating / cooling)	—	—	—	●	●	●
Mode (Auto / Eco)	—	—	—	●	●	●
Setting options						
Temperature setting at the room thermostat	●	●	●	●	●	●
Temperature setting via time profiles in the app	—	—	—	●	●	●
Setback activation at the room thermostat	—	—	—	●	●	●
Timed setback via app	●*	●*	●*	●	●	●
Setback temperature	4 K	4 K	4 K	Flexible via app	Flexible via app	Flexible via app
Temperature limitation via app	—	—	—	●	●	●
External limiter function – automatic switch-off when reaching the max. / min. temperature set via app	—	—	—	—	—	●

* Slave function - only possible if master room thermostats (ClimaCon F 210 / F 310) or a FloorCon connecting block are used.

Room thermostats heating, flush mounting



The flush-mounted electric room thermostat is required in conjunction with the Aktor T 2P electrothermal actuators (two point) for individual room temperature control.

Heating: Use electrothermal actuators (two

point) "normally closed". Temperature setback possible via external time switch.

Cooling: Use electrothermal actuators (two point) "normally open".



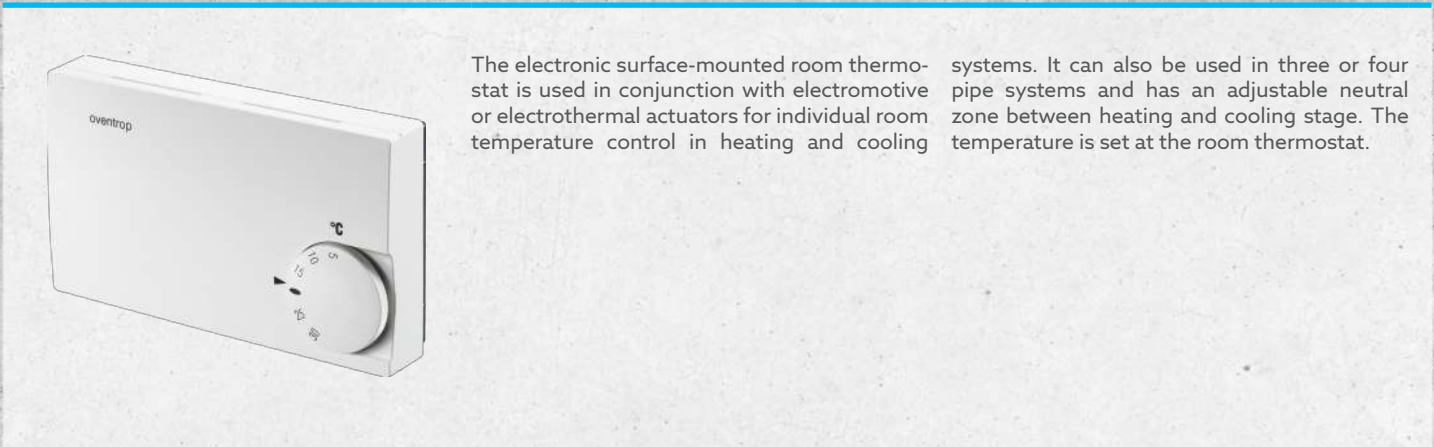
Room thermostat for two pipe applications, flush mounting

Setpoint 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 AC	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

Room thermostats heating/cooling



The electronic surface-mounted room thermostat is used in conjunction with electromotive or electrothermal actuators for individual room temperature control in heating and cooling systems. It 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 AC	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 AC	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 AC	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 AC	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152065

Room thermostats - Accessories

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 and cooling



Description	Item No.
FloorCon F 200, without channel allocation, connection of 8 room thermostats / 12 actuators, 230 V	1400984 ❏
FloorCon F 300, with channel allocation, connection of 8 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 two point electrothermal actuator for FloorCon connecting block



Description	Item No.
Two point control, "normally closed", 230 V, 2 m cable	1012452

**Dew point monitor****Description**

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

Item No.

1141951

wibutler Smart Home system



The Smart Home sector includes the networking of several trades within individual dwellings or detached houses. By means of a 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 rout-

er, remote access is easily possible while on the move.

The intelligent wibutler pro gateway 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



Scope of delivery

- 1 x wibutler gateway item no. 1150799
- 1 x R-Tronic RT B wireless thermostat item no. 1150780
- 1 x mote 420 wireless actuator item no. 1150766

Item No.

1150790



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

Tension

100 - 240 V AC

Item No.

1150799

R-Tronic Wireless thermostat (EnOcean)


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

Designation	Humidity sensor*	EEP*	Item No.
RT B (EnOcean)	No	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
		A5-10-06 + RPS	
RTF B (EnOcean)	Yes	A5-10-11	1150781
		A5-10-12	
		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-Tronic system for individual room temperature control



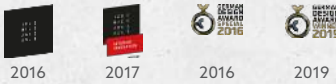
The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat. 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.

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

Designation	Humidity sensor*	CO ₂ sensor	Power supply	Item No.
RT B	No	No	Battery operated	1150680
RTF B	Yes	No	Battery operated	1150681
RTFC K	Yes	Yes	Mains adaptor with table stand	1150682 °
RTFC K	Yes	Yes	Flush-mounted power pack with wall bracket	1150684 °

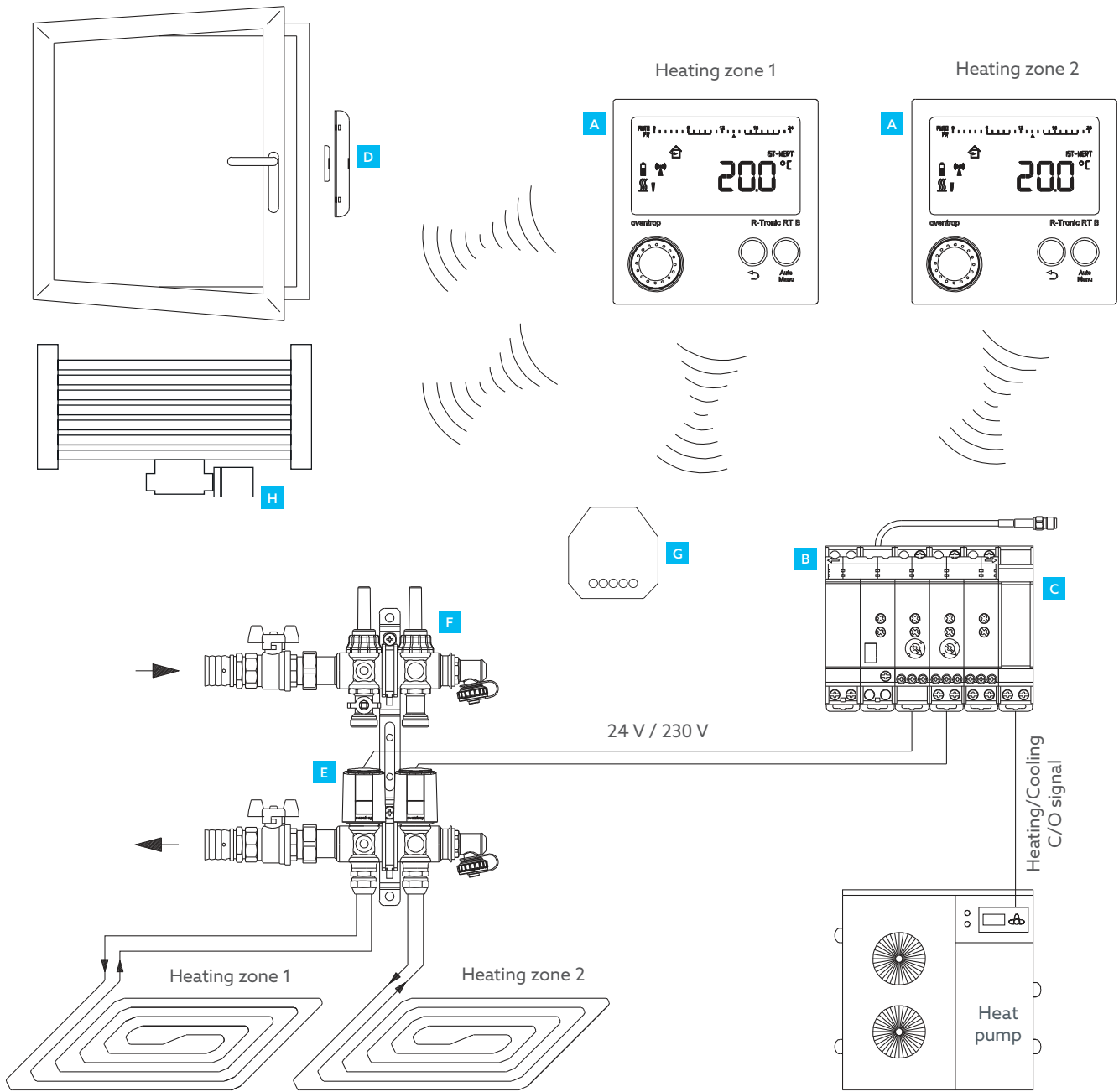
mote 320 Wireless actuator (proprietary radio communication)

Compatible with R-Tronic wireless thermostats (proprietary radio communication).



Power supply Battery operated Communication Proprietary radio
Battery lifespan About 2 years

Valve connection	Note	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



A	R-Tronic RT B / R-Tronic RTF B Wireless thermostat	1150680/81
B	R-Con Wireless receiver	1150770-73
C	R-Con HC Extension module heating / cooling	1150774
D	FK-C F Wireless window contact	1153070

E	Aktor T 2P Electrothermal actuator two point control	1012415/16
F	Multidis SF Heating circuit distributor/collector	1406552-62 1404952-62
G	Wireless repeater	1153060
H	mote 320 Wireless actuator	1150665/75



1.1 Room temperature control

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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

Valve connection	Connection thread M 30 x 1.5	Stroke	5 mm
Installation position	Any		
Installation	Plug-in connection with valve adapter		

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



Aktor T ST 0 - 10 V control

Valve connection	Connection thread M 30 x 1.5	Stroke	5 mm
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)

For valves with squeeze connection

Item No.

1012461

1012462

1012890

1012463

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 with 0 - 10 V

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).

Modulating proportional actuator	Yes	Stroke	4 mm
Automatic valve anti-blocking function	Yes	Cable*	1.5 m
Direction of action adjustable	Yes	Zero point detection	Yes

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



Aktor M two point and three point control

Automatic valve anti-blocking function	No	Cable*	1.5 m
Direction of action adjustable	No	Zero point detection	Yes
Stroke	4 mm		

Tension	Item No.
230 V AC	1012729



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

Automatic valve anti-blocking function	No	Contact open - drive tappet retracts	Yes
Stroke	6.5 mm	Cable*	1.5 m

Tension	Item No.
230 V AC	1012710
24 V AC / DC	1012711



Aktor M with KNX interface

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

Stroke	4 mm	PU	120
--------	------	----	-----

Tension	Item No.
21 - 32 V DC (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.

Automatic valve anti-blocking function	Yes	Cable*	1.5 m
Position feedback	0 - 100 %	Zero point detection	Yes

Tension	Suitable for	Stroke (mm)	Item No.
24 V AC / DC	Cocon QTZ	9	1012745
24 V AC / DC	Cocon QTR/QFC DN 40/50	14	1158014

Actuators with radio interface



Electronic battery operated actuators for room temperature control at the radiator with communication interface:

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

The mote 320 wireless actuator can be used in combination with R-Tronic wireless thermostats (proprietary radio communication). The actuator is configured at the R-Tronic wireless thermostat.

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.



2016



2017



2016

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 320 Wireless actuator (proprietary radio communication)

Compatible with R-Tronic wireless thermostats (proprietary radio communication).



Communication	Proprietary radio	Battery lifespan	About 2 years
Power supply	Battery operated		

Valve connection

Connection thread M 30 x 1.5

Item No.

1150665

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



1.2 Hydronic balancing at the radiator

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1.2 Hydronic balancing at the radiator

Q-Tech Automatic hydronic balancing **63**

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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	Two pipe*	Yes
Presetting	Yes	One pipe*	No
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)



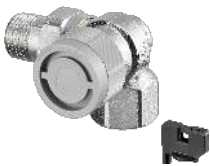
Nominal size	Radiator connection	Pipe connection	Item No.
DN 15	R 1/2	Rp 1/2	1183184

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



Sets with AQ thermostatic valve

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

AQH Thermostatic valves



For automatic hydronic balancing in heating and cooling systems with closed circuits. 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 AQH 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 extraordinary shape 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	Operating temperature	2 up to 110 °C
Surface	Nickel plated	One pipe*	No
Q-Tech	Yes	Two pipe*	Yes
Presetting	Yes	Radiator connection	G 1/2 external
Flow range	10 up to 170 l/h	Pipe connection	G 3/4 Eurocone
Distance between pipe centres	50 mm	Medium	Water Water-glycol mixture
Shutoff	Yes	PU	5
Filling and draining	Yes		
Max. operating pressure	10 bar		

Multiblock TQ Angle



Thermostat connection

Left hand side

Connection thread

M 30 x 1.5

Item No.

1184074

Multiblock TQ Straight



Thermostat connection

Left or right hand side

Connection thread

M 30 x 1.5

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

Covering rosette



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

Demo-Bloc Special tool



Description

Connection thread M 30 x 1.5, including coupling set for AQ/AQH thermostatic valves

Item No.

1188051

Coupling set



Description

For Demo-Bloc, for valves with connection thread M 30 x 1.0
 For Demo-Bloc, for replacing the HRV and Combi LR inserts

Item No.

1188089

1188095

Differential pressure measuring spindle



Description

Spindle for differential pressure measurement at the thermostatic valve

Item No.

1188093

Screen insert



Description

For AQ and AQH thermostatic valves, set = 10 pieces

Item No.

1187090

Block for commissioning



Description

For Multiblock T-RTL and TQ-RTL

Item No.

1184094

Mounting aid



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



Replacement valve insert AQ/AQH

Description	Item No.
For AQ, RFQ and EQ thermostatic valves, Multiblock TQ and TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 170 l/h, M 30 x 1.5	1187065
For AQH thermostatic valves, 35 - 420 l/h, M 30 x 1.5	1187095



Replacement nipple

Description	Item No.
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



1.2 Hydronic balancing at the radiator

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A Thermostatic valves.....	85
AF Thermostatic valves.....	87
AZ V Thermostatic valves.....	89
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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
Presetting	Yes	Colour protection cap	White
Connection thread	M 30 x 1.5	One pipe*	No
Medium	Water-glycol mixture Water	Two pipe*	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 15	1.20	G 3/4 external	R 1/2		25	1183747
DN 20	1.30	Rp 3/4	R 3/4	Keymark	25	1183706
DN 25	1.30	Rp 1	R 1		10	1183708

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

Sets with AV 9 thermostatic valve



PU 10

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

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
Presetting	Yes	One pipe*	No
Connection thread	M 30 x 1.5	Two pipe*	Yes
Medium	Water-glycol mixture Water	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
Presetting	Yes	One pipe*	No
Connection thread	M 30 x 1.5	Two pipe*	Yes
Medium	Water-glycol mixture Water	PU	25
Max. operating pressure	10 bar		

CV 9 Angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.20	Rp 1/2	R 1/2	1162054

CV 9 Straight



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	Rp 1/2	R 1/2	1162154

CV 9 Double angle left



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 15	1.00	Rp 1/2	R 1/2	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
Presetting	Yes	One pipe*	No
Connection thread	M 30 x 1.5	Two pipe*	Yes
Medium	Water-glycol mixture Water	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	Pipe connection	Rp 1/2
Connection thread	M 30 x 1.5	Radiator connection	R 1/2
Presetting	Yes	Colour protection cap	White
Medium	Water-glycol mixture Water	One pipe*	No
Max. operating pressure	10 bar	Two pipe*	Yes

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



Nominal size	Surface	kvs	Operating temperature	Item No.
DN 15	Anthracite	1.00	2 up to 120 °C	1163433
DN 15	Chrome plated	1.00	2 up to 120 °C	1163453
DN 15	White powder coated	1.00	2 up to 90 °C	1163463
DN 15	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

Sets with E thermostatic valve



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

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
Presetting	No	Colour protection cap	Black
Connection thread	M 30 x 1.5	One pipe*	Yes
Medium	Water-glycol mixture Water	Two pipe*	Yes

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 15	1.20	Rp 1/2	R 1/2	1181404
DN 10	1.20	Rp 3/8	R 3/8	1181403
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



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

AF Straight



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

AF Double angle left



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



AF Double angle right

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

AF Reversed angle



Nominal size	kvs	Pipe connection	Radiator connection	Item No.
DN 10	0.37	Rp 3/8	R 3/8	1180903
DN 15	0.37	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
Presetting	Yes	Colour protection cap	Green
Connection thread	M 30 x 1.5	One pipe*	Yes
Medium	Water-glycol mixture Water	Two pipe*	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	Operating element colour	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	Item No.
For thermostatic valves and Uniboxes (manufactured until 2019), 20 mm	1022698



Compression fitting set (1-fold)

Description	Item No.
for E thermostatic valves, G 1/2 external thread x 15 mm, chrome plated	1169093
For E thermostatic valves, G 1/2 external thread x 15 mm, white powder coated	1169193
For E thermostatic valves, G 1/2 external thread x 15 mm, gold plated	1169293
For E thermostatic valves, G 1/2 external thread x 15 mm, anthracite	1169493
For E thermostatic valves, G 1/2 external thread x 15 mm, stainless steel design	1169593



Demo-Bloc Special tool

Description	Item No.
Connection thread M 30 x 1.5, including coupling set for AQ/AQH thermostatic valves	1188051

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

Differential pressure measuring spindle



Description	Item No.
Spindle for differential pressure measurement at the thermostatic valve	1188093



Cleaning head

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

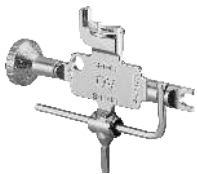
Description	Item No.
Cleaning head for all valves	1188400

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 AQ and AQH thermostatic valves



Description	Item No.
For AQ and AQH thermostatic valves, set = 10 pieces	1187090

Measuring device



Description	Item No.
For AF thermostatic valves, for checking preset values	1180793

Replacement screw gland



Description	Item No.
For all thermostatic valves (exception: AV 9, CV 9, RFV 9, ADV 9, E, AQ, RFQ, EQ, A (manufactured from 2013) and RF (manufactured from 2014), spanner size 14 mm, set = 5 pieces	1017501

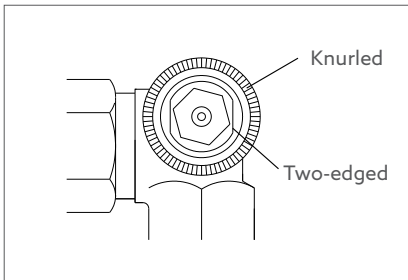
Replacement valve inserts



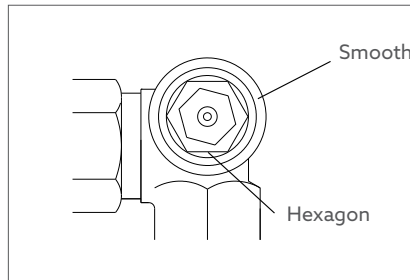
The valve inserts are suitable for replacement in thermostatic valves. The valve inserts can be preset for adaptation to the system requirements and for manual or automatic hydronic balancing. The valve inserts are suitable for all thermostatic valves, so you can benefit from the advantages of the different 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, Uni SH and pinox or the Uni L with connection thread M 30 x 1.0, fit the valve inserts.

Connection thread M 30 x 1.0
until 1998



Connection thread M 30 x 1.5
from 1998



The new **valve version** has a hexagon (old: two-edged) on the upper part and is smooth on the housing collar (old: knurled).



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 and TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 170 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 AF 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	95
Combi 2 Radiator lockshield valves.....	96
Combi 3 Radiator lockshield valves.....	98
Combi E Radiator lockshield valves.....	99
Combi C Radiator lockshield valves.....	100
Combi LR Radiator lockshield valves.....	101

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 ½ external	Rp ½	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 Water-glycol mixture	One pipe*	Yes
Pre-setting	Yes	Two pipe*	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 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.

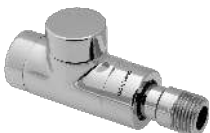
Body material	Brass	Reproducible presetting	Yes
Max. operating pressure	10 bar	kvs	1.05
Operating temperature	2 up to 120 °C	One pipe*	Yes
Medium	Water Water-glycol mixture	Two pipe*	Yes
Shutoff	Yes	PU	10
Filling and draining	Yes		

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	Surface	Item No.
DN 15	Chrome plated	1164554

Combi C Straight



Nominal size	Surface	Item No.
DN 15	Chrome plated	1165554

Combi LR Radiator lockshield valves



The Combi LR 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 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



1.2 Hydronic balancing at the radiator

Valve inserts for compact radiators 102










Valve inserts for radiators with integrated valve set.. 106



	GH	GH	GH	GD	GD	GHF	GHF
Item no.	1018080	1018082	1018083	1018084	1018086	1018090	1018097

Suitable for radiators of the following manufacturers

Manufacturer	Period	1018080	1018082	1018083	1018084	1018086	1018090	1018097
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				•	•			
Ferrolti/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, Uni XH, Uni SH or pinox, fit the valve inserts.



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, kvs = 1.05	1018080
GH valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, for seat diameter 16 H 11, kvs = 1.05	1018082
GH valve insert, with 6 presetting positions, G ½ external thread, M 30 x 1.5, with internal O-ring, kvs = 1.05	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, kvs = 1.00	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, kvs = 0.37	1018090
GHF valve insert, with fine presetting, G ½ external thread, M 30 x 1.5, for seat diameter 16 H 11, kvs = 0.37	1018097
GHF valve insert, with fine presetting, G ½ external thread, M 30 x 1.5, with internal O-ring, kvs = 0.37	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, kvs = 1.05	1018084
GD valve insert, with 8 presetting positions, G ½ external thread, squeeze connection, for seat diameter 16 H 11, kvs = 1.05	1018086
GD valve insert, with 8 presetting positions, G ½ external thread, squeeze connection, with frontal seat sealing, kvs = 1.05	1018099



Presetting key

Description	Item No.
For AF thermostatic valves and GHF valve inserts	1180791



1.2 Hydronic balancing at the radiator

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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	Distance between pipe centres	50 mm
Surface	Nickel plated	Max. operating pressure	10 bar
Connection thread	M 30 x 1.5		
Q-Tech	No		
Shutoff	Yes		
Medium	Water Water-glycol mixture		

Multiblock T Straight



Presetting	Yes	Pipe connection	G 3/4 Eurocone
Thermostat connection	Left or right hand side	Operating temperature	2 up to 120 °C
Filling and draining	Yes	PU	5

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



Presetting	Yes	Pipe connection	G 3/4 Eurocone
Thermostat connection	Left or right hand side	Operating temperature	2 up to 120 °C
Filling and draining	No	PU	5

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

Presetting	Yes	Pipe connection	G ¾ Eurocone
Thermostat connection	Left hand side	Operating temperature	2 up to 120 °C
Filling and draining	Yes	PU	5

One pipe*	Two pipe*	Radiator connection	Item No.
No	Yes	G ¾ union nut	1184014
No	Yes	G ½ external	1184084



Multiblock TU Angle

Presetting	Yes	Pipe connection	G ¾ Eurocone
Thermostat connection	Left hand side	Operating temperature	2 up to 120 °C
Filling and draining	No	PU	5

One pipe*	Two pipe*	Radiator connection	Item No.
Yes	Yes	G ¾ union nut	1184024
Yes	Yes	G ½ external	1184034



Multiblock TFU pivoting

Thermostat connection	Left or right hand side	Kv 2 K P-deviation*	0.47
Filling and draining	Yes	Operating temperature	2 up to 120 °C
Presetting	Yes	Pipe connection	G ¾ Eurocone
Kv 1 K P-deviation*	0.31	PU	5

One pipe*	Two pipe*	Radiator connection	Item No.
Yes	Yes	G ¾ external	1184025
Yes	Yes	G ½ external	1184035



Sets with Multiblock T, angle and Uni SH

For the connection to radiators with G ½ internal thread.

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



Sets with Multiblock T, straight and Uni SH

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

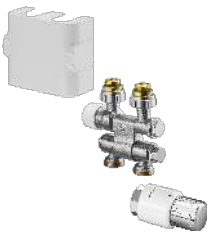
Consisting of	Type	Colour	Item No.
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	White / Chrome	1184183
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	Chrome	1184283
- Multiblock T - Design cover - Uni SH thermostat - SH-Cap	Straight	Stainless steel	1184383



Sets with Multiblock T and pinox

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	Straight	Chrome	1184285 °
- Multiblock T - Design cover - pinox thermostat	Angle	White	1184186 °
- Multiblock T - Design cover - pinox thermostat	Angle	Chrome	1184286 °



Sets with Multiblock TFU and Uni SH

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 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").



2017

Body material	Brass	Medium	Water
Surface	Nickel plated		Water-glycol mixture
Connection thread	M 30 x 1.5		50 mm
Q-Tech	No	Distance between pipe centres	
Shutoff	Yes	Max. operating pressure	10 bar
One pipe*	No		
Two pipe*	Yes		

Multiblock T-RTL Angle



Surface heating*	Yes	Filling and draining	No
Return temperature*	Yes	Thermostat connection	Left hand side
Presetting	Yes	Operating temperature	2 up to 70 °C

Radiator connection

G 3/4 union nut
G 1/2 external

Pipe connection

G 3/4 Eurocone
G 3/4 Eurocone

Item No.

1184016
1184086

Sets with Multiblock T-RTL and Uni SH

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



Sets with Multiblock T-RTL and pinox

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 °

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

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

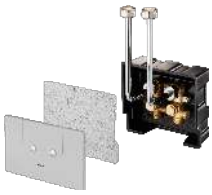
Sets with Multiflex



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

Multimodul Radiator connection

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

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



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

Inversion fitting angle



Radiator connection	Pipe connection	Distance between pipe centres (mm)	Item No.
G 3/4 union nut	G 3/4 Eurocone	50	1016462
G 1/2 external	G 3/4 Eurocone	50	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	Item No.
For item no. 1015813/14/8 ³ / ₈ 4, white	1015896

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

Double nipple



Description	PU	Item No.
G 3/4 external thread x G 3/4 external thread, conically sealing, brass, nickel plated	10	1028263
G 3/4 external thread x G 3/4 external thread, conically sealing, bronze	25	1504054



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

Item No.

1016673

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

DN 20, G 3/4 external thread, distance between pipe centres 50 mm

Item No.

1016452



Combi 3 Shutoff fitting

For presetting, shutting off, draining and filling.

<u>Radiator connection</u>	<u>Pipe connection</u>	<u>Item No.</u>
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.

<u>Radiator connection</u>	<u>Pipe connection</u>	<u>Item No.</u>
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

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

Item No.

1187078



Replacement nipple

Description

G 1/2 self-sealing external thread x G 3/4 conically sealing external thread (Eurocone), brass, nickel plated

Item No.

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 **121**

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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 cock	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

Multidis SH - Accessories

Ball valve, flat sealing

For Multidis SH/SF/SFQ.



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

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

For Multidis SH/SF/SFQ.



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

For Multidis SH/SF/SFQ.



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

For Multidis SH/SF/SFQ.



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

Item No.

14 1401171
9 1401172
8 1401173
7 1401174



Flush-mounted cabinet

Description

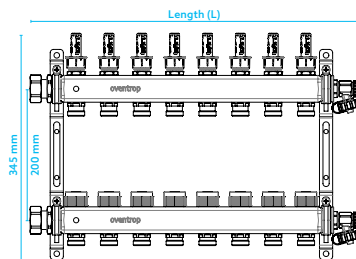
No. 1, W 560 x H 760-885 x D 115-180 mm
No. 2, W 700 x H 760-885 x D 115-180 mm
No. 3, W 900 x H 760-885 x D 115-180 mm
No. 4, W 1200 x H 760-885 x D 115-180 mm

PU

Item No.

17 1401151
12 1401152
10 1401153
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.1406383	Cabinet no.
2	205 mm	1	255 mm	1
3	255 mm	1	305 mm	1
4	305 mm	1	355 mm	1
5	355 mm	1	405 mm	1
6	405 mm	1	455 mm	1
7	455 mm	1	505 mm	2
8	505 mm	2	555 mm	2
9	555 mm	2	605 mm	2
10	605 mm	2	655 mm	3
11	655 mm	3	705 mm	3
12	705 mm	3	755 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

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Mounting and conversion aids



Cap with sealing washer and fastening loop

Description	PU	Item No.
For Optiflex ball valves, DN 10, G 5/8 internal thread, without fastening loop	10	1010999
For Optiflex ball valves, DN 10/15, G 3/4 internal thread	50	1034052
For Optiflex ball valves, DN 20, G 1 internal thread	25	1034053
For fill and drain cocks DN 25, G 1 1/4	25	1034008



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 10, length: 75 mm, brass, nickel plated	20	1019103
DN 15, length: 23 mm, brass, nickel plated	25	1019004
DN 15, length: 75 mm, brass, nickel plated	20	1019104
DN 20, length: 25 mm, brass, nickel plated	25	1019006
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 3/8 union nut x R 3/8 external thread, brass, nickel plated	50	1019303
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
DN 20, G 1 union nut x R 3/4 external thread, brass, nickel plated	50	1019306



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, centre distance compensation: 11.5 mm, length: 43 mm	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 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 (AQ, AQH, 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 (AQ, AQH, 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 (AQ, AQH, 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 1.1 mm	2-fold	1016883
12 x 2 mm	2-fold	1016870
14 x 2 mm	2-fold	1016873
15 x 2.5 mm	2-fold	1016885
16 x 1.5 mm	2-fold	1016882
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

Connection technology - Accessories and spare parts








Brass support sleeve

For soft pipes with 1 mm wall thickness.



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

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 **134**

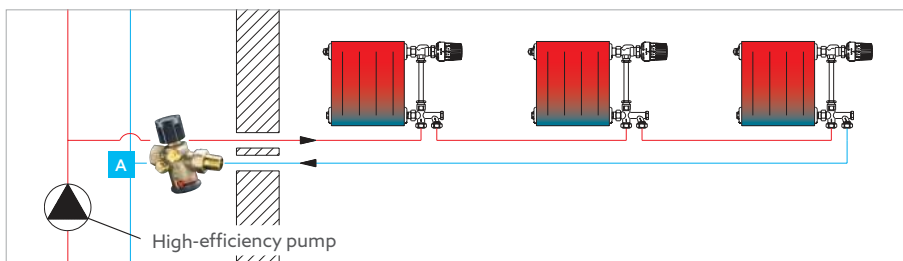
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Unofix Refurbishment of one pipe heating systems



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

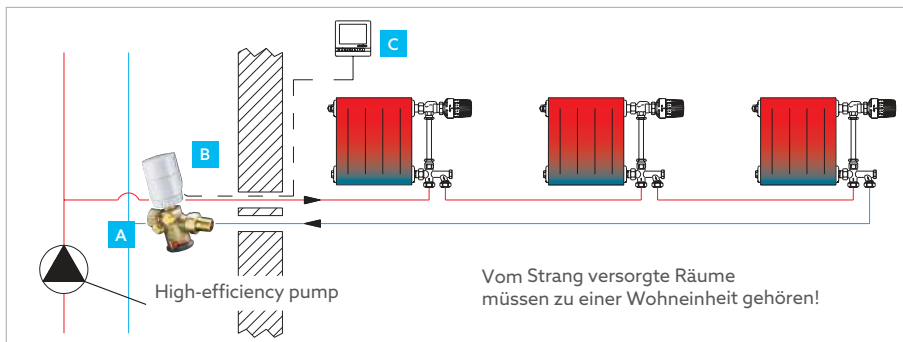
interval for e.g. night setback. The third variant Unofix QR has a return temperature limitation to maintain the temperature spread in partial load operation of the one pipe heating circuit. Two different spacers with fixed or adjustable minimum stroke are available for Unofix QR to ensure the residual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



Horizontal heating circuits with **Unofix QB**

Unofix QB

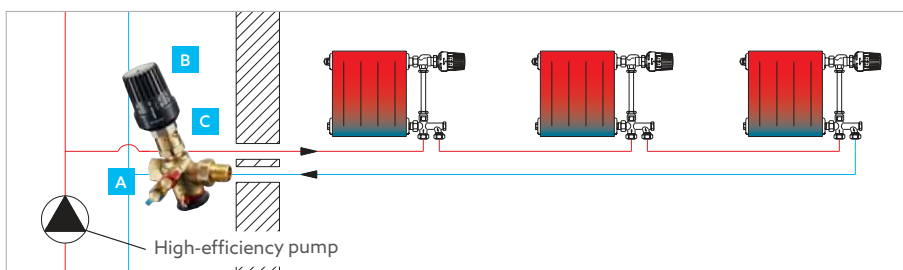
A	Cocon QTZ	11455..
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Horizontal heating circuits with **Unofix QT**

Unofix QT

A	Cocon QTZ	11455..
B	Aktor T 2P Two point control	1012415/16
C	Room thermostat for two pipe applications	1155021



Horizontal heating circuits with **Unofix QR**

Unofix QR

A	Cocon QTZ	11455..
B	Uni RTLH Thermostat	1149068
C	Spacer	1149090/91



Cocon QTZ with coupling and internal thread PN 16

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

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



Cocon QTZ with external thread PN 16

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

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



Spacer

Description	Item No.
For Cocon QTZ PN 16, with fixed minimum stroke	1149090
For Cocon QTZ PN 16, 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



ClimaCon F 90 Room thermostat (heating only/cooling only)

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



ClimaCon F 210 Room thermostat (heating only/cooling only)

Tension	Control	Suitable for	Item No.
230 V AC	Two point / PWM	Electrothermal actuators (two point) "normally closed"	1155021



Aktor T 2P Electrothermal actuator

Tension	Version	Cable* (m)	Valve connection	PU	Item No.
230 V AC	"Normally closed"	1	Connection thread M 30 x 1.5	100	1012415
24 V AC / DC	"Normally closed"	1	Connection thread M 30 x 1.5		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		

Pipe connection	Distance between pipe centres (mm)	Suitable for reversed supply and return	Description	Item No.
G 3/4 external	50	No	With radiator insulating fitting	1013161
G 3/4 external	50	No	With brass fitting	1013162
G 3/4 external	50	Yes	With radiator insulating fitting	1013164
M 24 x 1.5 external	35	No	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	Distance between pipe centres (mm)	Item No.
Lateral connection	50	1183561
Vertical connection	50	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		

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

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

For connecting pipe, flat, distance between pipe centres 35 mm, 14-16 mm perforation

Item No.

1016684



Elbow

Description

G 3/4 union nut x G 3/4 external thread

Item No.

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

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 ½ 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 x 32 mm = 64 mm

Description	Item No.
DN 15, G ¾ external thread x G ¾ union nut, flat sealing	1019497
DN 20, G ¾ 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
Externally threaded tailpipe, R 1/2 for valve DN 15, brass, 2-fold	1061492
Externally threaded tailpipe, R 3/4 for valve DN 20, brass, 2-fold	1061493



Replacement valve insert

Description	PU	Item No.
For three-way conversion valves, M 30 x 1.0, with presetting	25	1017056
For three-way conversion valves, M 30 x 1.5, with presetting	100	1187056



1.2 Hydronic balancing at the radiator

Valve sets **144**

Two pipe valves with shutoff..... 145

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 infinitely adjustable presetting and shutoff



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

Nominal size	Pipe connection	Distance between pipe centres (mm)	Item No.
DN 15	M 24 x 1.5 external	35	1182651

Duo Two pipe connection piece with shutoff



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

Nominal size	Pipe connection	Distance between pipe centres (mm)	Item No.
DN 15	G 3/4 Eurocone	50	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	Distance between pipe centres (mm)	Item No.
DN 15	Vertical connection	50	1183581
DN 15	Lateral connection	50	1643561

Two pipe connection piece



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

Nominal size	Distance between pipe centres (mm)	Item No.
DN 15	50	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	Reversed angle	Rp ½	1181404
DN 15	Straight with elbow	Rp ½	1181304
DN 15	Double angle left	Rp ¾	1181392
DN 15	Double angle right	Rp ½	1181393

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

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1.3 Surface heating and cooling

Heating circuit distributors/ collectors for surface heating and surface cooling **149**

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

Multidis SFQ with integrated flow indicators in the flow distributor



Heating circuits	Flow indicator	Operating temperature (°C)	Item No.
2	Yes	2 up to 60	1404952
3	Yes	2 up to 60	1404953
4	Yes	2 up to 60	1404954
5	Yes	2 up to 60	1404955
6	Yes	2 up to 60	1404956
7	Yes	2 up to 60	1404957
8	Yes	2 up to 60	1404958
9	Yes	2 up to 60	1404959
10	Yes	2 up to 60	1404960
11	Yes	2 up to 60	1404961
12	Yes	2 up to 60	1404962



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

distributor/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.

Multidis SFI



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
Q-Tech*	No	Extendable	Yes
Fill and drain cock	No	Wall bracket	No

Heating circuits	Operating temperature (°C)	Max. operating pressure (bar)	Item No.
2	2 up to 90	6	1414452
3	2 up to 90	6	1414453
4	2 up to 90	6	1414454
5	2 up to 90	6	1414455
6	2 up to 90	6	1414456

PE-Xc Copex Plastic pipe

With oxygen barrier.



Description	PU	Item No.
20 x 2.0 mm, length per roll: 240 m	240	1400352
20 x 2.0 mm, length per roll: 600 m	600	1400354
26 x 3.0 mm, length per roll: 50 m	50	1400560
26 x 3.0 mm, length per roll: 200 m	200	1400562
26 x 3.0 mm, length per roll: 300 m	300	1400563
32 x 3.0 mm, length per roll: 50 m	50	1400660

Cofit S Compression fitting



Description	Item No.
20 x 2.0 mm x G 1 union nut	1507969
26 x 3.0 mm x G 1 union nut	1507979

Wall bracket



Description	Item No.
For Multidis SFI for industrial surface heating/cooling and concrete core activation steel, galvanised, height and depth adjustable, 2-fold with two pipe clamps including sound insulation inserts and quick fastener	1414490

Cap



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

Ball valve



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

Optiflex Ball valve



Description	Item No.
For Multidis SH/SF/SFQ/SFI, for filling and venting, DN 15, G 1/2	1033314

Heat meter connection sets



Heat meter connection sets are matched for use with Multidis heating circuit distributors/collectors for surface heating and cooling.

Commercially available heat meters with flat

sealing housings with the following dimensions can be retrofitted in the return pipe:
- Length 110 mm and G 3/4 external thread
- Length 130 mm and G 1 external thread



Heat meter connection set for Multidis SF with Hycocon VTZ

Description

- With Hycocon VTZ DN 20 , angle, ball valves DN 20
- With Hycocon VTZ DN 20 , angle, ball valves DN 25
- With Hycocon VTZ DN 20 , straight, ball valves DN 20
- With Hycocon VTZ DN 20 , straight, ball valves DN 25

Item No.

- 1404578
- 1404580
- 1404579
- 1404581



Heat meter connection set for Multidis SF with Hycocon DTZ

Description

- with Hycocon DTZ DN 20, angle, ball valves DN 25
- with Hycocon DTZ DN 20, straight, ball valves DN 25

Item No.

- 1404682
- 1404683



Heat meter connection set for Multidis SF with Cocon QDP

Description

- With Cocon QDP DN 20 (up to 1.350 l/h), angle, ball valves DN 20
- With Cocon QDP DN 20 (up to 1.350 l/h), angle, ball valves DN 25
- With Cocon QDP DN 20 (up to 1.350 l/h), straight, ball valves DN 20
- With Cocon QDP DN 20 (up to 1.350 l/h), straight, ball valves DN 25

Item No.

- 1404884
- 1404886
- 1404885
- 1404887



Heat meter connection set for Multidis SFQ with ball valves

Description

- With ball valves DN 20, angle
- With ball valves DN 25, angle
- With ball valves DN 20, straight
- With ball valves DN 25, straight

Item No.

- 1405578
- 1405580
- 1405579
- 1405581



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.

Description	Item No.
14 x 2.0 mm x G 3/4 union nut, 1-fold	1507954 °
14 x 2,0 mm x G 3/4 union nut, 2-fold	1507934
16 x 2.0 mm x G 3/4 union nut, 1-fold	1507955 °
16 x 2.0 mm x G 3/4 union nut, 2-fold	1507935
17 x 2.0 mm x G 3/4 union nut, 2-fold	1507937
18 x 2.0 mm x G 3/4 union nut, 2-fold	1507938
20 x 2.0 mm x G 3/4 union nut, 2-fold	1507939
20 x 2.5 mm x G 3/4 union nut, 2-fold	1507940



Ofix K for G 3/4 external thread

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.

Description	Item No.
12 x 1.1 mm, 2-fold	1016883
12 x 2.0 mm, 2-fold	1016870
14 x 2.0 mm, 2-fold	1016873
15 x 2.5 mm, 2-fold	1016885
16 x 1.5 mm, 2-fold	1016882
16 x 2.0 mm, 2-fold	1016874
17 x 2.0 mm, 2-fold	1016876
18 x 2.0 mm, 2-fold	1016877
20 x 2.0 mm, 2-fold	1016879



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

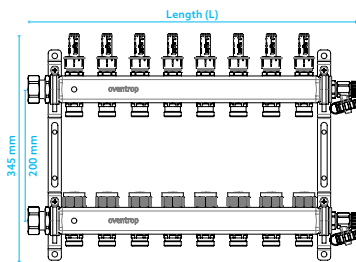


Flush-mounted cabinet

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

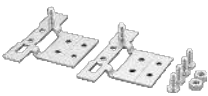
Description	PU	Item No.
No. 1, W 560 x H 760-885 x D 115-180 mm	17	1401151
No. 2, W 700 x H 760-885 x D 115-180 mm	12	1401152
No. 3, W 900 x H 760-885 x D 115-180 mm	10	1401153
No. 4, W 1200 x H 760-885 x D 115-180 mm	9	1401154

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.1406383	Cabinet no.
2	205 mm	1	255 mm	1
3	255 mm	1	305 mm	1
4	305 mm	1	355 mm	1
5	355 mm	1	405 mm	1
6	405 mm	1	455 mm	1
7	455 mm	1	505 mm	2
8	505 mm	2	555 mm	2
9	555 mm	2	605 mm	2
10	605 mm	2	655 mm	3
11	655 mm	3	705 mm	3
12	705 mm	3	755 mm	3

Mounting compensation



Description	Item No.
For mounting the Multidis heating circuit distributors/collectors in the cabinet if the piping does not allow it to be mounted at the intended location	1408015 ::

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

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

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 with Eurocone

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



Description

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

Item No.

1406504

Optiflex Fill and drain ball valve

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



Description

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

Item No.

1033314

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

Vent plug



Description

G 3/8, self-sealing, set = 10 pieces, for heating circuit distributors/collectors (manufactured until 2021)

Item No.

1400392

Cap



Description

G 3/4 internal thread
G 1 internal

Item No.

1400692
1400693



Thermometer

Description

For brass heating circuit distributors/collectors

Item No.

1404095

Ring spanner



Description

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

Item No.

1401091

Replacement valve insert



Description

For Multidis SF heating circuit distributors/collectors

For Multidis SFQ heating circuit distributors/collectors

Item No.

1404091

1408023

Replacement flow measuring and regulating device



Description

For Multidis SF heating circuit distributors/collectors (manufactured from 2021)

For Multidis SF heating circuit distributors/collectors (manufactured until 2021)

Item No.

1408038 

1408050

Replacement flow indicator



Description

For Multidis SFQ heating circuit distributors/collectors (manufactured from 2021)

Item No.

1408040 

Replacement fill and drain cock



Description

For Multidis SF/SFQ heating circuit distributors/collectors (manufactured from 2021)

Item No.

1408006

Replacement wall bracket



Description

For Multidis SF/SFQ heating circuit distributors/collectors, with two pipe clamps, including sound insulation, 1-fold

Item No.

1408010

Replacement differential pressure regulator



Description

For heat meter connection sets with Hycocn DTZ, DN 20, G 1 external thread, with measuring and drain valve

Item No.

1062166

Replacement electrothermal actuator, connection thread M 30 x 1.5



Description

Two point control, "normally closed", 24 V

Item No.

1012416



1.3 Surface heating and cooling

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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
-------------	-------	---------------	----------

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 aluminum pipe, adhesive layer and inner medium pipe made of PE-RT). The following dimensions are available: 14 x 2 mm and 16 x 2 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 (manufactured from 2021)



Dimension (mm)	Length of roll (m)	PU	Item No.
14 x 2.0	200	200	1541420
16 x 2.0	200	200	1541620
16 x 2.0	500	500	1541650

Cofloor Tacker system



The **Cofloor tacker system** 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 tacker 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 tacker system** 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.
20	26	5	30	0.50	040	10	1402515
35	29	4	15	0.78	045	6	1402500
30	29	4	15	0.67	045	7	1402505
25	28	4	20	0.56	045	8	1402510
30	28	5	20	0.75	040	7	1402507
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 14 mm pipe, length 1 m	1402580
For 16 mm pipe, length 1 m	1402581



Tacker hook

Made of plastic, for 14 - 20 mm pipes

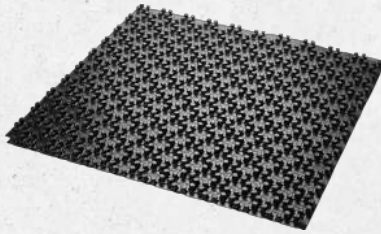
Description	Item No.
Thermowelded, 10 magazines (1 magazine = 30 pieces)	1402594



Tacker machine

Description	Item No.
For all Oventrop tacker hooks	1402596

Cofloor Base mat system



The **Cofloor base mat system** 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

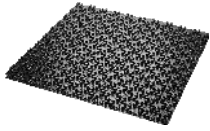


Max. load	45 kN/m ²	Impact sound insulation	Yes
Rd*	0.31 (m ² K)/W	Fire behaviour	RTF-E (according to DIN EN 13501-1)
Grid*	60 mm		
TCG*	035	PU	8

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

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

PS

Pipe diameter* (mm)

14 up to 17

Item No.

1402393



Fixing hook

Made of plastic

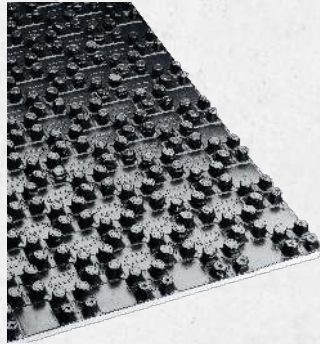
Description

For base mats, for 14 and 16 mm pipes, bag = 200 pieces

Item No.

1409082

Cofloor Thin-layer system



The **Cofloor thin-layer system** consists of a base mat and pipe. This system can be used for new construction and renovation. The base mats have no thermal insulation in order to achieve the lowest possible installation height. The special geometry of the nubs makes it easy to lay 12 mm **Copert PE-RT** plastic pipes.

The handy base mats have practically no waste. They can be laid economically and user-friendly in small, angled rooms as well as in large areas. With the PE foil of the optional edge insulation strips and the overlapping of the base mats at the edge of the mats, a dense surface is obtained so that cement screed or liquid screed can be applied without further

sealing. This reliably prevents a sound bridge to the raw concrete. The coordinated components allow for a quick installation even with a one-man installation. The suitable levelling compounds should be taken from the data sheet.

Tested minimum construction heights:

- Knauf N 430 min. 17 mm
- PCI periplan extra min. 18 mm
- Weber-Maxit weber.loor min. 18 mm
- Knauf N 440 min. 21 mm
- Mapei Novoplan-Maxi min. 18 mm
- Sopro filler FS 15 plus (FS 15 550) min. 18 mm

More on request.

Base mat NP-R

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

Edge insulating strip



Description	Item No.
With self-adhesive base, height: 50 mm, thickness: 5 mm, roll length: 20 m, only suitable for base mat NP-R	1401990

PE-RT Copert Plastic pipe



Oxygen tight	Yes	Number of layers	5
Material inner layer	Plastic	Pipe colour	White
Material intermediate layer	Plastic	Quality class	PE-RT II
Material outer layer	Plastic	PU	200
Max. operating pressure (pipe)	6 bar at 70°C		

Dimension (mm)	Length of roll (m)	Item No.
12 x 2.0	200	1401952



Ofix K Compression fitting

Description

12 x 2.0 mm, 2-fold

Item No.

1016870

Cofloor Velcro system



The **Cofloor Velcro system** 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

10.0 x 1.0 m = 10.0 m²



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.
25	0.55	4	045		1403510
30	0.75	5	040	7	1403507
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



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

For coil undwinder

Item No.

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.



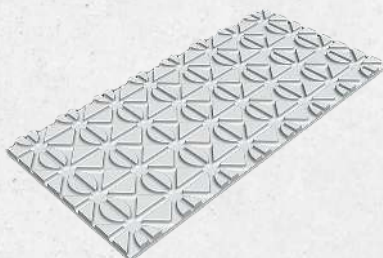
Description

For Velcro pipe

Item No.

1402071

Cofloor Drywall construction system



The **Cofloor drywall construction system** 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 con-

ducting 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 drywall construction system** 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 for **Copert** and **Copex** plastic pipes.
Casing made of stainless steel.



Description	Item No.
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
20 x 2.0 mm x 20 x 2.0 mm, dezincification resistant brass	1512541

Cofit P Press connection coupling

For the transition from copper and stainless steel press systems to **Copipe HSC** multi-layer composite pipes and for **Copert** and **Copex** plastic pipes.
Not suitable as solder connection.



Description	Item No.
16 x 2.0 mm x 15 mm, bronze	1514043

Replacement Cofit P Press connection with external thread

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



Description	PU	Item No.
16 x 2.0 mm x R 1/2, bronze	10	1512043
20 x 2.5 mm x R 1/2, bronze	10	1512045
26 x 3.0 mm x R 3/4, dezincification resistant brass	5	1512048
32 x 3.0 mm x R 1, dezincification resistant brass	5	1512051
40 x 3.5 mm x R 1 1/4, dezincification resistant brass	5	1512054
50 x 4.5 mm x R 1 1/2, dezincification resistant brass	80	1512056
63 x 6.0 mm x R 2, dezincification resistant brass		1512057

Double nipple

G 3/4 conically sealing according to DIN EN 16313 (Eurocone).



Description	PU	Item No.
G 3/4 external thread x G 3/4 external thread, conically sealing, brass, nickel plated	10	1028263
G 3/4 external thread x G 3/4 external thread, conically sealing, bronze	25	1504054



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

Bending spring



Description	Item No.
Bending spring for Copipe, length 600 mm, for 16 x 2.25 mm pipe	1509562
Bending spring for Copipe, length 600 mm, for 20 x 2.5 mm pipe	1509563

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 14, 16 and 17 mm pipes	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 14, 16 und 17 mm pipes, set = 10 pieces	50	1409085
For 20 mm pipe, set = 10 pieces	10	1409086
For 26 mm pipe, 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.

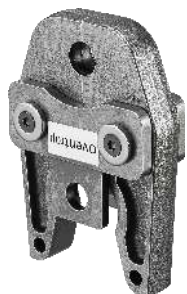
Description	Item No.
50 mm x 66 m	1402599



Replacement press jaw type H

Suitable for use with Oventrop press machines and with press machines of the following manufacturers: Geberit type PWH75, Klauke types UAP2/UAP/3L/UP2EL, Mannesmann/Novopress types EFP2/ECO1/AFP2/ACO1, Polytherm, Rems, Roller, Rothenberger, Uponor, Velta and Viega type 2

Description	Item No.
Type H 16 A, for 16 mm pipe	1519491
Type H 20 A, for 20 mm pipe	1519492
Type H 26 A, for 26 mm pipe	1519493
Type H 32 A, for 32 mm pipe	1519494
Type H 40 A, for 40 mm pipe	1519495



Replacement press jaw type RN

Suitable for use with Oventrop press machines and with press machines of the following manufacturers: Geberit type PWH75, Klauke types UAP2/UAP/3L/UP2EL, Mannesmann/Novopress types EFP2/ECO1/AFP2/ACO1, Polytherm, Rems, Roller, Rothenberger, Uponor, Velta and Viega type 2

Description	Item No.
Type RN 14, for 14 mm pipe	1519489
Type RN 17, for 17 mm pipe	1519488
Type RN 20, for 20 mm pipe	1519481



Replacement Cofit P Press jaw

Suitable for use with Oventrop press machines and with press machines of the following manufacturers: Klauke types UAP2/UAP/3L and Uponor type UP75

Description	PU	Item No.
For 50 mm pipe	2	1519445
For 63 mm pipe		1519446



1.3 Surface heating and cooling

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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



Aktor M Electromotive actuator 24 V, connection thread M 30 x 1.5

Description	Item No.
0 - 10 V, two point and three point control, 1.5 m cable	1012725
0 - 10 V control, with position feedback, 1.5 m cable	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

Description	Item No.
Two point control, "normally closed", 24 V	1012416

Replacement safety temperature monitor

Description	Item No.
For Wilo pump E15/1-5, with cabling	1151087



Replacement temperature controller



Description

With contact sensor, control range 20 °C - 50 °C

Item No.

1151082

Replacement high-efficiency pump



Description

For Regufloor HW/HC/H, Wilo-Yonos PARA RS 15/6, without pump cable

Item No.

1151088

Replacement high-efficiency pump Axial



Description

For Regufloor HN, Wilo-Yonos PARA RSB 15/6 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 safety temperature monitor 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 a safety temperature monitor.

Set 1 for surfaces up to 85 m²



Consisting of

- 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 tube length 2 m, control range 20 °C - 50 °C
- Item no. 1143000
Safety temperature monitor with concealed temperature setting, control range 20 °C - 90 °C

Item No.

1144251

Set 2 for surfaces up to 120 m²



Consisting of

- 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
- Item no. 1143000
Safety temperature monitor with concealed temperature setting, control range 20 °C - 90 °C

Item No.

1144252

Set 3 for surfaces up to 200 m²



Consisting of

- 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
- Item no. 1072006
Check valve DN 20, bronze, brass
- Item no. 1143000
Safety temperature monitor with concealed temperature setting, control range 20 °C - 90 °C

Item No.

1144253



1.3 Surface heating and cooling

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ClimaCon F Room thermostats for surface heating



The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings in detached houses or dwellings. Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. The ClimaCon F room thermostats can be used in combination with electrothermal ac-

tuators (e.g. Aktor T 2P). Alternatively, connection to a connecting block (e.g. FloorCon) is possible. The simple surface-mounted installation and quick configuration make the product very installer-friendly. Depending on the model, there are room thermostats with reduced display, with integrated time switch and setting options via app.



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 AC	Electrothermal actuators (two point) "normally closed"	1155010
24 V AC	Electrothermal actuators (two point) "normally closed"	1155510

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 AC	No	No	Electrothermal actuators (two point) "normally closed"	1155031
24 V AC	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531



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

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

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



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
Setback*	Via time programme (adjustable in the app) Via Eco button at the room thermostat	Bluetooth	

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

ClimaCon F 90

ClimaCon F 100

ClimaCon F 210

ClimaCon F 310



	230 V	230 V	24 V	230 V	230 V	24 V
Item no.	1155009	1155010	1155510	1155021	1155031	1155531
Application						
Heating only / Cooling only	●	—	—	●	—	—
Heating or cooling (switchable)	—	●	●	—	●	●
Display						
Setpoint temperature	●	●	●	●	●	●
Actual temperature	—	—	—	●	●	●
Status (heating / cooling)	—	—	—	●	●	●
Mode (Auto / Eco)	—	—	—	●	●	●
Setting options						
Temperature setting at the room thermostat	●	●	●	●	●	●
Temperature setting via time profiles in the app	—	—	—	●	●	●
Setback activation at the room thermostat	—	—	—	●	●	●
Timed setback via app	●*	●*	●*	●	●	●
Setback temperature	4 K	4 K	4 K	Flexible via app	Flexible via app	Flexible via app
Temperature limitation via app	—	—	—	●	●	●
External limiter function – automatic switch-off when reaching the max. / min. temperature set via app	—	—	—	—	—	●

* Slave function - only possible if master room thermostats (ClimaCon F 210 / F 310) or a FloorCon connecting block are used.

Room thermostats heating, flush mounting



The flush-mounted electric room thermostat is required in conjunction with the Aktor T 2P electrothermal actuators (two point) for individual room temperature control.

Heating: Use electrothermal actuators (two

point) "normally closed". Temperature setback possible via external time switch.

Cooling: Use electrothermal actuators (two point) "normally open".



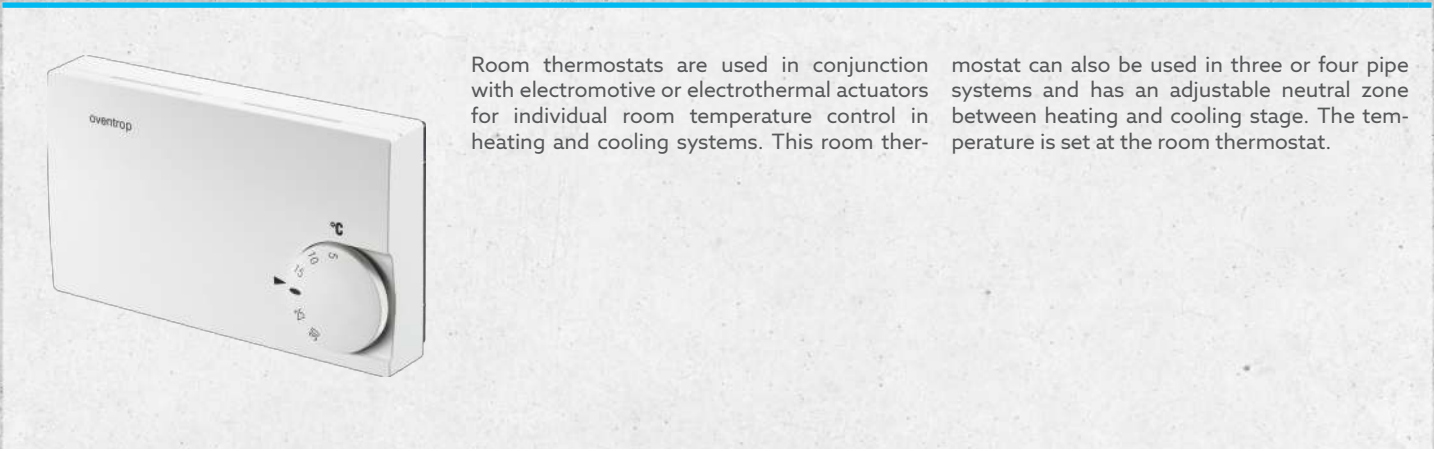
Room thermostat for two pipe applications, flush mounting

Setpoint 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 AC	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

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 AC	0 - 10 V (2x)	Electrothermal actuators (0 - 10 V) "normally closed"	1152151 °

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 and cooling



Description	Item No.
FloorCon F 200, without channel allocation, connection of 8 room thermostats / 12 actuators, 230 V	1400984 ::
FloorCon F 300, with channel allocation, connection of 8 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 ::



Dew point monitor

Description

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

Item No.

1141951

Actuators



Electrothermal and electromotive actuators are used for heating, ventilation and air conditioning. The actuators can be used for room temperature control or as zone valves. Oventrop offers actuators in the variants "normally closed" and "normally open".

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

Oventrop offers electromotive actuators with and without communication interfaces.



Aktor T 2P two point control

Valve connection	Connection thread M 30 x 1.5	Stroke	5 mm
Installation position	Any		
Installation	Plug-in connection with valve adapter		

Tension	Version	Cable* (m)	PU	Item No.
230 V AC	"Normally closed"	1	100	1012415
24 V AC / DC	"Normally closed"	1		1012416
230 V AC	"Normally open"	1		1012425
24 V AC / DC	"Normally open"	1		1012426
230 V AC	"Normally closed" with integrated auxiliary switch	1		1012435
24 V AC / DC	"Normally closed"	2		1012442
230 V AC	"Normally closed"	2		1012452
230 V AC	"Normally closed"	5		1012455
230 V AC	"Normally closed"	10		1012459
24 V AC	"Normally closed"	1	500	1012953



Aktor T ST 0 - 10 V control

Valve connection	Connection thread M 30 x 1.5	Installation position	Any
Cable*	1.5 m	Stroke	4 mm

Tension	Version	Item No.
24 V AC / DC	Electromotive	1012717
24 V AC / DC	Electromotive	1012725
24 V AC / DC	Electromotive	1012726

wibutler Smart Home system



The Smart Home sector includes the networking of several trades within individual dwellings or detached houses. By means of a 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 rout-

er, remote access is easily possible while on the move.

The intelligent wibutler pro gateway 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.

Basic set - surface heating



Scope of delivery

- 1 x wibutler gateway item no. 1150799
- 1 x R-Tronic RT B wireless thermostat item no. 1150780
- 1 x R-Con eight-channel wireless receiver item no. 1150772

Item No.

1150795



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



Tension

100 - 240 V AC

Item No.

1150799

R-Tronic Wireless thermostat (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean		

Designation	Humidity sensor*	EEP*	Item No.
RT B (EnOcean)	No	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
		A5-10-06 + RPS	
RTF B (EnOcean)	Yes	A5-10-11	1150781
		A5-10-12	
		A5-10-22	
		A5-10-23	

R-Con Multi-channel 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 AC	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)

Number of radio channels	Logic module	Item No.
4 (max. of 4 actuators per channel)	Yes	1150770
4 (max. of 4 actuators per channel)	No	1150771
8 (max. of 4 actuators per channel)	Yes	1150772
8 (max. of 4 actuators per channel)	No	1150773

R-Con T 2P Four-channel extension module (proprietary radio communication)



For R-Con multi-channel wireless receiver.

Tension	230 V AC	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 multi-channel 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 AC	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		

Inputs	Item No.
Dew point monitoring, cooling mode is interrupted if the dew point is exceeded	1150774



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



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.



Power supply	EEP*	Colour	Item No.
Solar powered	D5-00-01	White	1153070



R-Tronic system for individual room temperature control



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. 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.

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

Designation	Humidity sensor*	CO ₂ sensor	Power supply	Item No.
RT B	No	No	Battery operated	1150680
RTF B	Yes	No	Battery operated	1150681
RTFC K	Yes	Yes	Mains adaptor with table stand	1150682 °
RTFC K	Yes	Yes	Flush-mounted power pack with wall bracket	1150684 °

mote 320 Wireless actuator (proprietary radio communication)



Power supply Battery operated Communication Proprietary radio
Battery lifespan About 2 years

Valve connection	Note	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 Multi-channel 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 AC	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)

Number of radio channels	Logic module	Item No.
4 (max. of 4 actuators per channel)	Yes	1150770
4 (max. of 4 actuators per channel)	No	1150771
8 (max. of 4 actuators per channel)	Yes	1150772
8 (max. of 4 actuators per channel)	No	1150773



R-Con T 2P Four-channel extension module (proprietary radio communication)

For R-Con multi-channel wireless receiver.

Tension	230 V AC	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 multi-channel 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 AC	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		

Inputs	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 AC	"Normally closed"	Connection thread M 30 x 1.5	1	100	1012415
24 V AC / DC	"Normally closed"	Connection thread M 30 x 1.5	1		1012416

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.



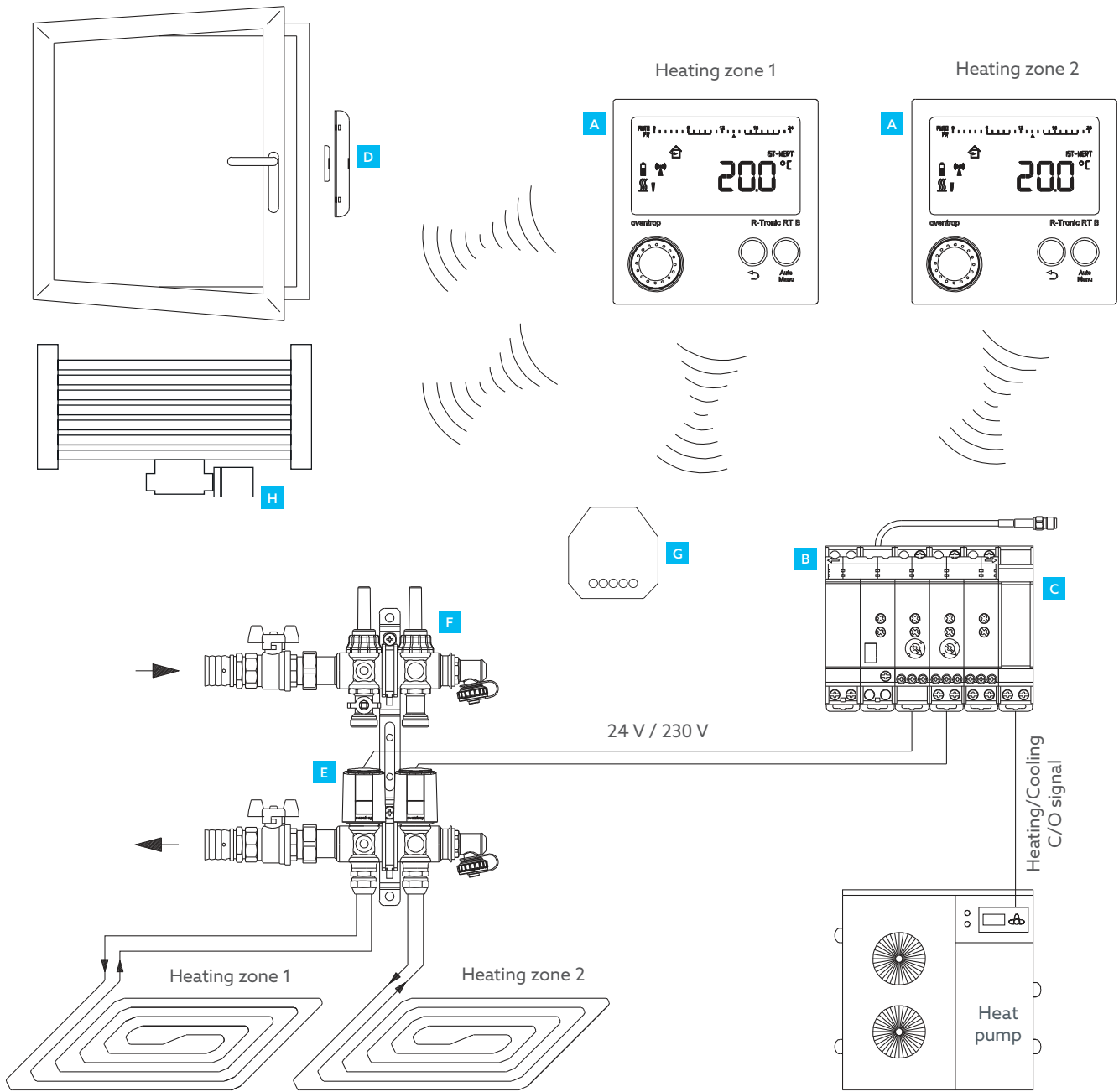
Tension	230 V AC	Communication	Proprietary radio
Installation	Flush mounting		

Number of radio channels

Item No.

1 x potential-free

1150710 °



A	R-Tronic RT B / R-Tronic RTF B Wireless thermostat	1150680/81
B	R-Con Wireless receiver	1150770-73
C	R-Con HC Extension module heating / cooling	1150774
D	FK-C F Wireless window contact	1153070

E	Aktor T 2P Electrothermal actuator two point control	1012415/16
F	Multidis SF Heating circuit distributor/collector	1406552-62 1404952-62
G	Wireless repeater	1153060
H	mote 320 Wireless actuator	1150665/75

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

Wireless repeater (EnOcean)



PU 50

Description

For amplification of EnOcean radio telegrams to increase the radio range, 230 V AC, 50 Hz,
flush mounting

Item No.

1153060



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 205 return temperature limitation

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High-quality
design
in genuine glass



Feel-good guarantee in the bathroom? **Stylish room temperature control.**

You will love this comfort: a room temperature regulated according to your wishes. *Your highlight:* Our new Unibox with a genuine glass cover, crafted in a high-quality design and available in different colours and styles.
Wir regeln das. Seit 1851.

Find out more about the Unibox and our modular solutions for room temperature control now at:

unibox.iventrop.com



oventrop

Wir regeln das. Seit 1851.

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 setpoint 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 plastic white



Operation	Cover*	Cover colour	Operating element colour	Item No.
Handwheel	Plastic	White	White	1022735

Unibox RTL genuine glass white



Operation	Cover*	Cover colour	Operating element colour	Item No.
Handwheel	Genuine glass	White	Chrome	1022750

Unibox RTL genuine glass black



Operation	Cover*	Cover colour	Operating element colour	Item No.
Handwheel	Genuine glass	Black	Dark chrome	1022751



Unibox E RTL



Operation	Cover*	Cover colour	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 setpoint 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 plastic white



Cover	Operation	Cover*	Cover colour	Operating element colour	Q-Tech	Item No.
Yes	Thermostat	Plastic	White	White	No	1022733

Unibox T-RTL genuine glass white



Cover	Operation	Cover*	Cover colour	Operating element colour	Q-Tech	Item No.
Yes	Thermostat	Genuine glass	White	Chrome	No	1022770

Unibox T-RTL genuine glass black



Cover	Operation	Cover*	Cover colour	Operating element colour	Q-Tech	Item No.
Yes	Thermostat	Genuine glass	Black	Dark chrome	No	1022771

Unibox T-RTL R-Tronic

Suitable for radio control with an R-Tronic wireless thermostat (not compatible with wibutler).



Cover	Operation	Cover*	Cover colour	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*	Cover colour	Operating element colour	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*	Cover colour	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

In conjunction with the Unibox not compatible with wibutler.

Description	Item No.
For the connection to Smart Home gateways (e.g. wibutler), with EnOcean radio technology, surface mounting, battery operated	1150780
For the connection to Smart Home gateways (e.g. wibutler), with EnOcean radio technology, surface mounting, battery operated, with humidity sensor	1150781



ClimaCon F 90 Room thermostat (heating only/cooling only)

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

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



ClimaCon F 210 Room thermostat (heating only/cooling only)

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Tension	Control	Suitable for	Item No.
230 V AC	Two point / PWM	Electrothermal actuators (two point) "normally closed"	1155021



Aktor T 2P Electrothermal actuator

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description	PU	Item No.
Two point control, "normally closed", 230 V	100	1012415
Two point control, "normally closed", 230 V, 2 m cable		1012452

Uni FHU Thermostat with remote control



Description	Item No.
White, 2 m capillary tube	1012595
White, 5 m capillary tube	1012596
White, 10 m capillary tube	1012597

Cover



Description	Item No.
White, for Unibox T-RTL vario, TQ-RTL vario, T vario, TQ vario and E BV vario, closed	1022776
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

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	Item No.
For thermostatic valves and Uniboxes (manufactured until 2019), 20 mm	1022698

Extension



Description	Item No.
For Unibox RTL, for RTLH valves, 20 mm	1022699

Valve insert



Description	PU	Item No.
For reversed supply and return pipe, for Unibox and RTL valves	100	1026970
For Unibox and RTLH valves, M 30 x 1.5	100	1026981
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 and TQ-RTL, Multiflex FQ, Unibox TQ and TQ vario, 10 - 170 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

Press connection coupling

For the transition from copper and stainless steel press systems to Copipe multi-layer composite pipes.
Not suitable as solder connection.



Description	Item No.
16 x 2.0 mm x 15 mm, bronze	1514043

Replacement thermostat for Unibox RTL



Description	Item No.
For Unibox RTL	1027635

Replacement cover for Unibox E RTL and Unibox RLA vario



Description	Item No.
Plastic white	1022766
Genuine glass white	1022764
Genuine glass black	1022765

Replacement cover for Unibox RTL

With integrated handwheel.



Description	Item No.
Plastic white	1022789
Genuine glass white	1022787
Genuine glass black	1022788

Replacement cover for Unibox T, T-RTL, TQ-RTL and E BV

With integrated thermostat.



Description	Item No.
Plastic white	1022779
Genuine glass white	1022777
Genuine glass black	1022778



Replacement cover for Unibox (manufactured 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 (manufactured 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 T, T-RTL, E BV and T-RTL vario
For Unibox TQ, TQ-RTL and TQ-RTL vario

Item No.

1022792
1022794



1.3 Surface heating and cooling

Surface heating with decentralised distribution 215

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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	Return temperature control	No
Cover	Yes	Venting	Yes
Room temperature control	Yes		

Operation	Cover*	Cover colour	Operating element colour	Item No.
Thermostat	Plastic	White	White	1022724



Unibox E BV vario (basic model) Room temperature control with bypass

Presetting	Yes	Return temperature control	No
Cover	No	Venting	Yes
Room temperature control	Yes		

Operation

Without

Item No.

1022725



Unibox RLA vario (basic model) Flush-mounted box for return shutoff

Presetting	Yes	Venting	Yes
Cover	No		

Operation

Without

Item No.

1022726



Unibox T Room temperature control

Pipe connection	G 3/4	Return temperature control	No
Presetting	Yes	Venting	Yes
Cover	Yes	PU	112
Room temperature control	Yes		

Operation

Thermostat

Cover*

Plastic

Cover colour

White

Operating element colour

White

Item No.

1022722



Unibox T vario (basic model) Room temperature control

Pipe connection	G 3/4	Room temperature control	Yes
Presetting	Yes	Return temperature control	No
Cover	No	Venting	Yes

Operation

Without

Item No.

1022723



Unibox TQ vario (basic model) Room temperature control with Q-Tech

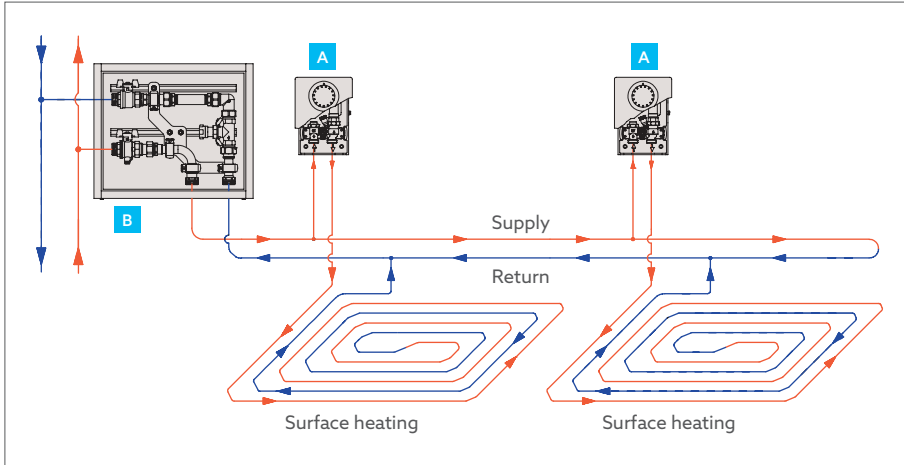
Pipe connection	G 3/4	Room temperature control	Yes
Presetting	Yes	Return temperature control	No
Cover	No	Venting	Yes
Q-Tech	Yes		

Operation

Without

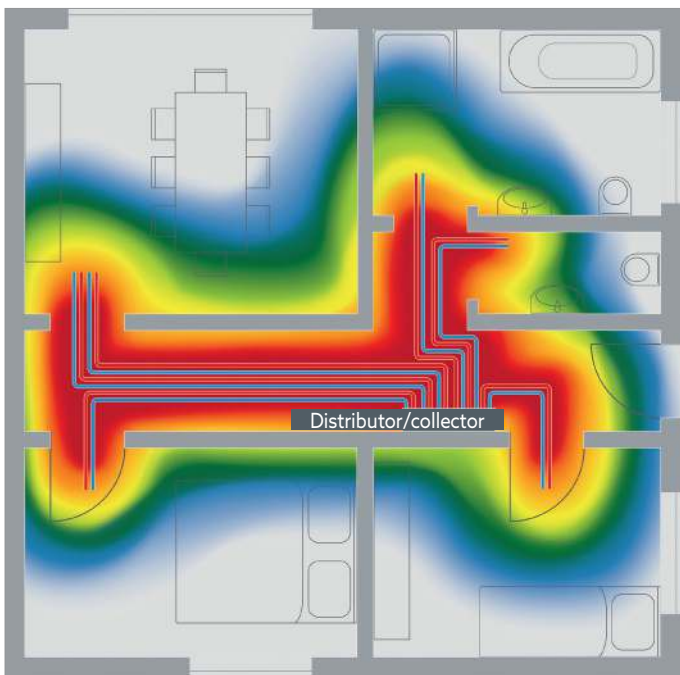
Item No.

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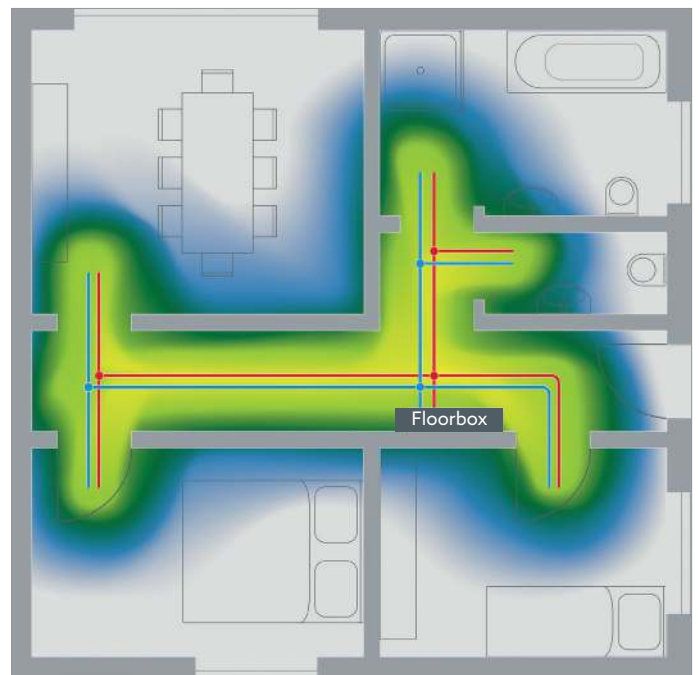


Installation example
Unidis Surface heating system

A	Unibox E BV Room temperature control	1022724/25
B	Floorbox UV / UH for the connection of surface heating systems without distributor/collector	1022668/69



Conventional installation with heating circuit distributor/collector



Unidis surface heating system with decentralised distribution

Unidis - Accessories and spare parts



Mounting channel

Description

For Unibox, made of galvanised sheet steel, with cover made of gypsum board, H: 275-350 mm, W: 130 mm

Item No.

1022652

For Unibox, with return shutoff, with cover and thermostat with remote control

1022654

For Unibox, made of galvanised sheet steel, H: 440-490 mm, W: 160 mm

1022653

Extended cover, closed, genuine glass, white

Description

For Unibox in combination with the mounting channel

Item No.

1022755

Cofit S Compression fitting 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.

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



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	- Copper pipes	PU	50
	- Precision steel pipes		
	- Stainless steel pipe		
	- Galvanised steel pipes		

Suitable for pipe dimension (mm)	Connection size	Seal	Quantity	Item No.
14 x 2.0	G 3/4 union nut x 10 mm	Soft sealing	2-fold	1016840
16 x 2.0	G 3/4 union nut x 12 mm	Soft sealing	2-fold	1016841
18 x 2.0	G 3/4 union nut x 14 mm	Soft sealing	2-fold	1016842
20 x 2.5	G 3/4 union nut x 15 mm	Soft sealing	2-fold	1016843
20 x 2.0	G 3/4 union nut x 16 mm	Soft sealing	2-fold	1016844
22 x 2.0	G 3/4 union nut x 18 mm	Soft sealing	2-fold	1016845



Pipe connection press elbow

Description	Item No.
For Unibox, for pipe connection through the mounting channel, 16 x 2.0 mm	1515353
For Unibox, for pipe connection through the mounting channel, 20 x 2.5 mm	1515356

ClimaCon F 90 Room thermostat (heating only/cooling only)

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.



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

ClimaCon F 210 Room thermostat (heating only/cooling only)

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.



Tension	Control	Suitable for	Item No.
230 V AC	Two point / PWM	Electrothermal actuators (two point) "normally closed"	1155021



Aktor T 2P Electrothermal actuator

For Unibox T vario, TQ vario, T-RTL vario, TQ-RTL vario and E BV vario.

Description	Item No.
Two point control, "normally closed", 230 V	1012415

Uni FHU Thermostat with remote control



Description	Item No.
White, 2 m capillary tube	1012595
White, 5 m capillary tube	1012596
White, 10 m capillary tube	1012597



Replacement cover for Unibox T, T-RTL, TQ-RTL and E BV

Description	Item No.
Plastic white	1022779
Genuine glass white	1022777
Genuine glass black	1022778



1.3 Surface heating and cooling

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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 reversed angle for return and straight 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

Uni RTLH Thermostat with M 30 x 1.5



Description	PU	Item No.
White, 10 °C - 40 °C	25	1027165
Chrome plated, 10 °C - 40 °C	25	1027172
Anthracite, with zero position, limitable and blockable, 10 °C - 70 °C	10	1149068

Uni RTL Thermostat with M 30 x 1.5



Description	Item No.
White, 10 °C - 50 °C, M 30 x 1.0	1027100

Extension



Description	Item No.
For Unibox RTL, for RTLH valves, 20 mm	1022699

Replacement valve insert



Description	Item No.
For Unibox and RTLH valves, M 30 x 1.5	1026981

Replacement screw gland



Description	Item No.
For all RTLH valves, set = 5 pieces	1026986



Hydronics

2



2 Hydronics

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2.1 Hydronic balancing of risers in heating and cooling systems

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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	Characteristics
PN25/PN16	PN16	PN16	PN16 Class 150	PN16	PN16	PN16	PN16	PN16	PN10	Nominal pressure
-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	Medium temperature
Bronze	Cast iron	Bronze	Cast iron	DZR brass	DZR brass	DZR brass	DZR brass	DZR brass	Brass	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



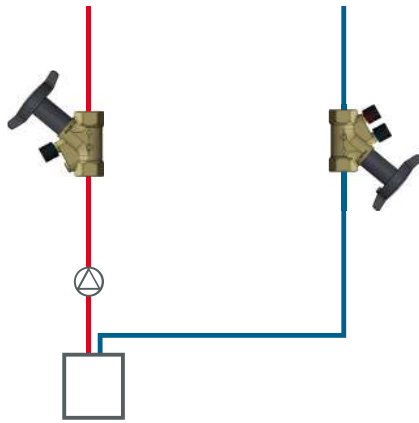
Hydronic balancing with control valves



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	
	QTZ	QTR	QFC	QGC	QDP			Tri-CTR	2+3WV	ETZ	HTZ
Characteristics											
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	l/h	m³/h	m³/h	m³/h	m³/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											

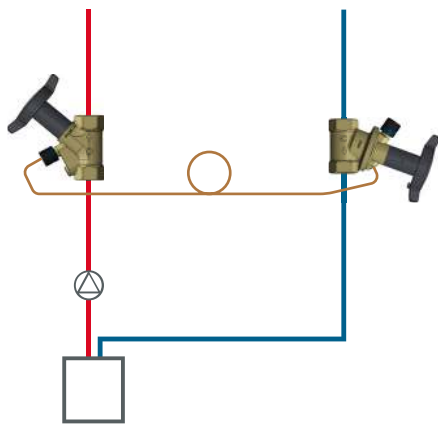
■ kvs value ■ Control range volume flow ■ Control range differential pressure

Typical applications in a riser



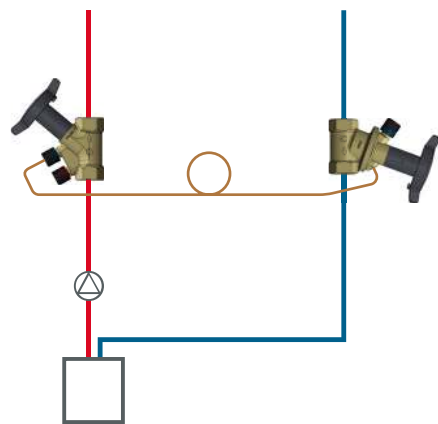
Standard installation

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.



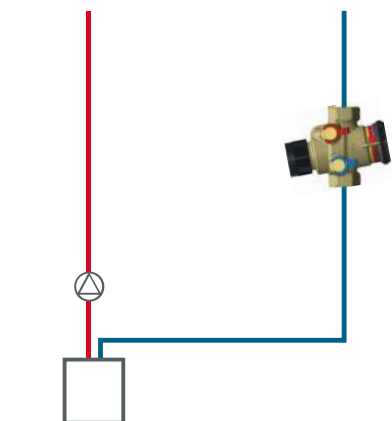
Differential pressure control

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.

Remains balanced under pressure. Automatic hydronic balancing.



OUR COCON QTZ: THE PRESSURE-INDEPENDENT CONTROL VALVE

Our Cocon QTZ is a pressure-independent control valve – the solution for automatic hydronic balancing of heat exchangers such as fan coil units or cooling ceilings. You can set and read it easily, even with mounted

actuator. The Cocon QTZ provides precise control of the flow, no matter what. As part of our pioneering modular system for hydronic balancing.



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.

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.

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.

Body material	DZR brass	Thermal insulation shell	Available as accessory
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	Yes		
Impulse tube connection	Yes, via HydroPort		

HydroControl V with internal thread PN 25



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

Flat sealing, without union nuts and sealing rings.



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 fixed 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.

Y-pattern valve with fixed measuring orifice and secured, at any time controllable, infinitely adjustable fine presetting. All functions acces-

sible from the top. Supplied with two HydroPort auxiliary valves.

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.

Body material	DZR brass	Thermal insulation shell	Available as accessory
Presetting	Yes	Operating temperature	-20 up to 150 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Yes	Installation location	Supply or return
Measuring connection	Yes		
Impulse tube connection	Yes, via HydroPort		

HydroControl M with internal thread PN 25



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15 ULF	0.19	12	1065844
Rp 1/2	DN 15 LF	0.40	12	1065834
Rp 1/2	DN 15 MF	0.90	12	1065824
Rp 1/2	DN 15	2.20	12	1065804
Rp 3/4	DN 20	4.30	12	1065806
Rp 1	DN 25	8.60	6	1065808
Rp 1 1/4	DN 32	15.90	6	1065810
Rp 1 1/2	DN 40	23.40	6	1065812
Rp 2	DN 50	35.00	6	1065816

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.

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.

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.

Body material	DZR brass	Thermal insulation shell	Available as accessory
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		
Impulse tube connection	Yes		

HydroControl D with internal thread PN 25



Connection size	Nominal size	Nominal value differential pressure (mbar)	Item No.
Rp 1/2	DN 15	50 up to 300	1064524
Rp 3/4	DN 20	50 up to 300	1064526
Rp 1	DN 25	50 up to 300	1064528
Rp 1 1/4	DN 32	50 up to 300	1064530
Rp 1 1/2	DN 40	50 up to 300	1064532
Rp 2	DN 50	50 up to 300	1064536
Rp 1/2	DN 15	250 up to 700	1064724
Rp 3/4	DN 20	250 up to 700	1064726
Rp 1	DN 25	250 up to 700	1064728
Rp 1 1/4	DN 32	250 up to 700	1064730
Rp 1 1/2	DN 40	250 up to 700	1064732
Rp 2	DN 50	250 up to 700	1064736

HydroControl D with external thread PN 16



Connection size	Nominal size	Nominal value differential pressure (mbar)	Item No.
G 3/4	DN 15	50 up to 300	1064624
G 1	DN 20	50 up to 300	1064626
G 1 1/4	DN 25	50 up to 300	1064628
G 1 1/2	DN 32	50 up to 300	1064630
G 1 3/4	DN 40	50 up to 300	1064632
G 2 3/8	DN 50	50 up to 300	1064636

HydroControl A Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits.

Y-pattern valve without presetting. Supplied with one HydroPort auxiliary valve 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.

Body material	DZR brass	Thermal insulation shell	Available as accessory
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		
Impulse tube connection	Yes		

HydroControl A with internal thread PN 25



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15	4.10	12	1067524
Rp 3/4	DN 20	7.80	12	1067526
Rp 1	DN 25	14.10	6	1067528
Rp 1 1/4	DN 32	24.80	6	1067530
Rp 1 1/2	DN 40	32.40	6	1067532
Rp 2	DN 50	49.80	6	1067536

HydroControl A with external thread PN 16

Flat sealing, without union nuts and sealing rings.



Connection size	Nominal size	kvs	PU	Item No.
G 3/4	DN 15	4.10	12	1067624
G 1	DN 20	7.80	12	1067626
G 1 1/4	DN 25	14.10	6	1067628
G 1 1/2	DN 32	24.80	6	1067630
G 1 3/4	DN 40	32.40	6	1067632
G 2 3/8	DN 50	49.80	6	1067636

New Hydrocontrol - Accessories and spare parts

Connection set with externally threaded tailpipes

Consisting of two tailpipes, union nuts and sealing rings.

Suitable for the new HydroControl V, D and A with external threads.



Connection size	Nominal size	PU	Item No.
R 3/8	DN 10	10	1140791
R 1/2	DN 15	10	1140792
R 3/4	DN 20	10	1140793
R 1	DN 25	10	1140794
R 1 1/4	DN 32	5	1140795
R 2	DN 50	5	1140797

Connection set with internally threaded tailpipes

Consisting of two tailpipes, union nuts and sealing rings.

Suitable for the new HydroControl V, D and A with external threads.



Connection size	Nominal size	PU	Item No.
Rp 1/2	DN 15	10	1140892 °
Rp 3/4	DN 20	10	1140893 °
Rp 1	DN 25	10	1140894 °
Rp 1 1/4	DN 32	5	1140895 °

HydroPort Adapter

For filling, venting and draining via HydroPort auxiliary valves.

Item No.

1069601

Thermal insulation shell

Only for heating systems. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Building material class B1 according to DIN 4102.

Suitable for the new HydroControl V, M and A.

Operating temperature -10 up to 120 °C



Nominal size	Item No.
DN 15	1069610
DN 20	1069611
DN 25	1069612
DN 32	1069613
DN 40	1069614
DN 50	1069615



Thermal insulation shell

Only for heating systems. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Building material class B1 according to DIN 4102.

Suitable for the new HydroControl D.

Operating temperature -10 up to 120 °C

Nominal size	Item No.
DN 15	1069620
DN 20	1069621
DN 25	1069622
DN 32	1069623
DN 40	1069624
DN 50	1069625

Wire seal kit

Suitable for the new HydroControl V, M, D and A.

PU 10



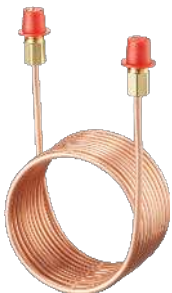
Description	Item No.
10-fold, consisting of seal and sealing wire	1089091



Replacement insert

Suitable for the new HydroControl V, M and A.

Nominal size	Item No.
DN 15	1069020
DN 20	1069021
DN 25	1069022
DN 32	1069023
DN 40	1069024
DN 50	1069025



Replacement impulse tube

Suitable for the new HydroControl D.

PU 10

Description	Item No.
Replacement impulse tube for HydroControl D	1069090

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.

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.

Presetting	Yes	Installation location	Supply or return
Shutoff	Yes		



HydroControl VTR with internal thread PN 25, 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	Thermal insulation shell	Available as accessory
Draining	Yes	Operating temperature	-20 up to 150 °C
Measuring connection	Yes	Medium	Water
Impulse tube connection	Yes		Water-glycol mixture

Connection size	Nominal size	kvs	PU	Item No.
Rp 3/8	DN 10	2.88	10	1060303
Rp 1/2	DN 15	3.88	10	1060304
Rp 3/4	DN 20	5.71	10	1060306
Rp 1	DN 25	8.89	10	1060308
Rp 1 1/4	DN 32	19.45	5	1060310
Rp 1 1/2	DN 40	27.51	5	1060312
Rp 2	DN 50	38.78	5	1060316

HydroControl VTR with internal thread PN 25, with two mounted Classic measuring valves

Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..



Body material	Bronze	Thermal insulation shell	Available as accessory
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C
Measuring connection	Yes	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Connection size	Nominal size	kvs	Certification	PU	Item No.
Rp 3/8	DN 10	2.88		10	1060203
Rp 1/2	DN 15	3.88	WaterMark	10	1060204
Rp 3/4	DN 20	5.71	WaterMark	10	1060206
Rp 1	DN 25	8.89	WaterMark	10	1060208
Rp 1 1/4	DN 32	19.45	WaterMark	5	1060210
Rp 1 1/2	DN 40	27.51	WaterMark	5	1060212
Rp 2	DN 50	38.78	WaterMark	5	1060216

HydroControl VTR with internal thread PN 25

Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..



Body material	Bronze	Thermal insulation shell	Available as accessory
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C
Measuring connection	Closed with blind plug	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Connection size	Nominal size	kvs	Certification	PU	Item No.
Rp 3/8	DN 10	2.88	WRAS	10	1060103
Rp 1/2	DN 15	3.88	WRAS, WaterMark	10	1060104
Rp 3/4	DN 20	5.71	WRAS, WaterMark	10	1060106
Rp 1	DN 25	8.89	WRAS, WaterMark	10	1060108
Rp 1 1/4	DN 32	19.45	WRAS, WaterMark	5	1060110
Rp 1 1/2	DN 40	27.51	WRAS, WaterMark, ACS	5	1060112
Rp 2	DN 50	38.78	WRAS, WaterMark, ACS	5	1060116

HydroControl VTR with internal thread PN 16



Body material	Bronze	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Closed with blind plug		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)	Certification	WaterMark
Thermal insulation shell	No		

Nominal size	Connection size	kvs	Item No.
DN 65	G 2 1/2	50.00	1060120

HydroControl VTR with external thread PN 16

Flat sealing, with union nuts and sealing rings.



Body material	Bronze	Thermal insulation shell	Available as accessory
Draining	Extendable (only depressurised)	Operating temperature	-20 up to 150 °C
Measuring connection	Closed with blind plug	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Connection size	Nominal size	kvs	PU	Item No.
G 5/8	DN 10	2.88	10	1060503
G 3/4	DN 15	3.88	10	1060504
G 1	DN 20	5.71	10	1060506
G 1 1/4	DN 25	8.89	10	1060508
G 1 1/2	DN 32	19.45	5	1060510
G 1 3/4	DN 40	27.51	5	1060512
G 2 3/8	DN 50	38.78	5	1060516

HydroControl VFC with flanges according to EN 1092-2 PN 16



Draining	Extendable (only depressurised)	Operating temperature	-10 up to 150 °C
Measuring connection	Yes	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Nominal size	Body material	Thermal insulation shell	kvs	PU	Item No.
DN 20	Cast iron	Available as accessory	4.80		1062646
DN 25	Cast iron	Available as accessory	8.40		1062647
DN 32	Cast iron	Available as accessory	17.10		1062648
DN 40	Cast iron	Available as accessory	26.90	60	1062649
DN 50	Cast iron	Available as accessory	36.00	60	1062650
DN 65	Cast iron	Available as accessory	98.00	36	1062651
DN 80	Cast iron	Available as accessory	122.00	36	1062652
DN 100	Cast iron	Available as accessory	201.00	18	1062653
DN 125	Cast iron	Available as accessory	293.00	16	1062654
DN 150	Cast iron	Available as accessory	404.00	10	1062655
DN 200	Cast iron	No	815.00	2	1062656
DN 250	Cast iron	No	1,200.00	2	1062657
DN 300	Cast iron	No	1,600.00	2	1062658
DN 350	Nodular cast iron	No	2,250.00		1062659
DN 400	Nodular cast iron	No	3,750.00		1062660

HydroControl VFN with flanges according to EN 1092-2 PN 25



Body material	Nodular cast iron	Operating temperature	-20 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Yes		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Thermal insulation shell	kvs	PU	Item No.
DN 65	Available as accessory	98.00		1062451
DN 80	Available as accessory	122.00		1062452
DN 100	Available as accessory	201.00		1062453
DN 125	Available as accessory	293.00		1062454
DN 150	Available as accessory	404.00		1062455
DN 200	No	815.00	2	1062456
DN 250	No	1,200.00		1062457
DN 300	No	1,600.00		1062458

HydroControl VFC with flanges according to EN 1092-2 PN 6



Body material	Cast iron	Operating temperature	-10 up to 150 °C
Draining	Extendable (only depressurised)	Medium	Water
Measuring connection	Yes		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Nominal size	Thermal insulation shell	kvs	Item No.
DN 20	Available as accessory	4.80	1062676
DN 25	Available as accessory	8.40	1062677
DN 32	Available as accessory	17.10	1062678
DN 40	Available as accessory	26.90	1062679
DN 50	Available as accessory	36.00	1062680
DN 65	Available as accessory	98.00	1062681
DN 80	Available as accessory	122.00	1062682
DN 100	Available as accessory	201.00	1062683
DN 125	Available as accessory	293.00	1062684
DN 150	Available as accessory	404.00	1062685
DN 200	No	815.00	1062686

HydroControl VFC with flanges PN 16 with hole circles according to ANSI class 150



Draining	Extendable (only depressurised)	Operating temperature	-10 up to 150 °C
Measuring connection	Yes	Medium	Water
Impulse tube connection	Extendable (only depressurised)		Water-glycol mixture

Nominal size	Body material	Thermal insulation shell	kvs	PU	Item No.
DN 20 - 3/4	Cast iron	Available as accessory	4.80		1062946
DN 25 - 1	Cast iron	Available as accessory	8.40		1062947
DN 32 - 1 1/4	Cast iron	Available as accessory	17.10		1062948
DN 40 - 1 1/2	Cast iron	Available as accessory	26.90		1062949
DN 50 - 2	Cast iron	Available as accessory	36.00		1062950
DN 65 - 2 1/2	Cast iron	Available as accessory	98.00	36	1062951
DN 80 - 3	Cast iron	Available as accessory	122.00	36	1062952
DN 100 - 4	Cast iron	Available as accessory	201.00	18	1062953
DN 125 - 5	Cast iron	Available as accessory	293.00	12	1062954
DN 150 - 6	Cast iron	Available as accessory	404.00	10	1062955
DN 200 - 8	Cast iron	No	815.00	2	1062956
DN 250 - 10	Cast iron	No	1,200.00	2	1062957
DN 300 - 12	Cast iron	No	1,600.00		1062958
DN 350 - 14	Nodular cast iron	No	2,250.00		1062959
DN 400 - 16	Nodular cast iron	No	3,750.00		1062960

HydroControl VGC with roll grooves PN 25

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	Yes		Water-glycol mixture
Impulse tube connection	Extendable (only depressurised)		

Connection size	Nominal size	Thermal insulation shell	kvs	PU	Item No.
73.0	DN 65	Available as accessory	98.00	36	1063051
76.1	DN 65	Available as accessory	98.00	36	1064051
88.9	DN 80	Available as accessory	122.00	36	1063052
114.3	DN 100	Available as accessory	201.00	18	1063053
141.3	DN 125	Available as accessory	293.00		1063054
139.7	DN 125	Available as accessory	293.00		1064054
168.3	DN 150	Available as accessory	404.00	10	1063055
165.1	DN 150	Available as accessory	404.00	10	1064055
219.1	DN 200	No	815.00	2	1063056
273.0	DN 250	No	1,200.00	2	1063057
323.9	DN 300	No	1,600.00		1063058



HydroControl VFR with flanges according to EN 1092-2 PN 16, body made of bronze



Body material	Bronze	Medium	Water
Draining	Extendable (only depressurised)		Water-glycol mixture
Measuring connection	Yes		Service water
Impulse tube connection	Extendable (only depressurised)		Salt water (max. 38 °C)
Operating temperature	-20 up to 150 °C		

Nominal size	Thermal insulation shell	kvs	PU	Item No.
DN 50	Available as accessory	36.00		1062350
DN 65	Available as accessory	98.00		1062351
DN 80	Available as accessory	122.00		1062352
DN 100	Available as accessory	201.00		1062353
DN 125	Available as accessory	293.00		1062354
DN 150	Available as accessory	404.00	10	1062355
DN 200	No	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. 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	Thermal insulation shell	Available as accessory
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable (only depressurised)	Installation location	Supply or return
Measuring connection	Yes		
Impulse tube connection	Extendable (only depressurised)		

HydroControl VTR with internal thread PN 25

Nominal sizes DN 10 to DN 20 suitable for compression fittings item no. 10271..

Body material	Bronze	Operating temperature	-20 up to 150 °C
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Connection size	Nominal size	kvs	PU	Item No.
Rp 3/8	DN 10	2.88	10	1688703
Rp 1/2	DN 15	3.88	10	1688704
Rp 3/4	DN 20	5.71	10	1688706
Rp 1	DN 25	8.89	10	1688708
Rp 1 1/4	DN 32	19.45	5	1688710
Rp 1 1/2	DN 40	27.51	5	1688712
Rp 2	DN 50	38.78	5	1688716

HydroControl VFC with flanges according to EN 1092-2 PN 16

Body material	Cast iron	Operating temperature	-10 up to 150 °C
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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 Double regulating and commissioning valves with fixed measuring orifice



For hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. The integrated measuring orifice enables easy balancing. 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.

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	Yes		

HydroControl MTR with internal thread PN 25



Body material	Bronze	Operating temperature	-20 up to 150 °C
Thermal insulation shell	Available as accessory		

Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15 LF	0.55	10	1060464
Rp 1/2	DN 15 MF	1.15	10	1060434
Rp 1/2	DN 15 HF	2.10	10	1060404
Rp 3/4	DN 20	3.70	10	1060406
Rp 1	DN 25	6.10	10	1060408
Rp 1 1/4	DN 32	12.50	5	1060410
Rp 1 1/2	DN 40	18.10	5	1060412
Rp 2	DN 50	30.50	5	1060416

HydroControl MFC with flanges according to EN 1092-2 PN 16



Body material	Cast iron	Operating temperature	-10 up to 150 °C
Thermal insulation shell	No		

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.

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.

Body material	Bronze	Thermal insulation shell	No
Presetting	Yes	Operating temperature	-20 up to 200 °C
Shutoff	No	Medium	Water Water-glycol mixture
Draining	No	Installation location	Supply or return
Measuring connection	Yes	PU	10
Impulse tube connection	No		

HydroControl STR with clamping ring connection PN 25



Connection size	Nominal size	kvs	Item No.
G 3/4	DN 20 LF	1.04	1369050
G 3/4	DN 20 MF	2.60	1369055

HydroControl Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits.

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.

Presetting	No	Impulse tube connection	Extendable (only depressurised)
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Extendable (only depressurised)	Installation location	Supply or return
Measuring connection	No		

HydroControl ATR with internal thread PN 25



Body material	Bronze	Operating temperature	-20 up to 150 °C
Thermal insulation shell	Available as accessory		

Connection size	Nominal size	kvs	PU	Item No.
Rp 3/8	DN 10	2.88	10	1067503
Rp 1/2	DN 15	3.88	10	1067504
Rp 3/4	DN 20	5.71	10	1067506
Rp 1	DN 25	8.89	10	1067508
Rp 1 1/4	DN 32	19.45	5	1067510
Rp 1 1/2	DN 40	27.51	5	1067512
Rp 2	DN 50	38.78	5	1067516

HydroControl ATR with internal thread PN 16



Body material	Bronze	Operating temperature	-20 up to 150 °C
Thermal insulation shell	No		

Connection size	Nominal size	kvs	Item No.
G 2 1/2	DN 65	50.00	1067520



HydroControl ATR with external thread PN 16

Flat sealing, with union nuts and sealing rings.

Body material	Bronze	Operating temperature	-20 up to 150 °C
Thermal insulation shell	Available as accessory		

Connection size	Nominal size	kvs	PU	Item No.
G 5/8	DN 10	2.88	10	1067603
G 3/4	DN 15	3.88	10	1067604
G 1	DN 20	5.71	10	1067606
G 1 1/4	DN 25	8.89	10	1067608
G 1 1/2	DN 32	19.45	5	1067610
G 1 3/4	DN 40	27.51	5	1067612
G 2 3/8	DN 50	38.78	5	1067616



HydroControl AFC with flanges according to EN 1092-2 PN 16

Body material	Cast iron	Operating temperature	-10 up to 150 °C
Thermal insulation shell	Available as accessory		

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



Ofix Compression fitting

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

Suitable for HydroControl VTR, MTR and ATR with internal thread.



PU 10

Connection size	Nominal size	Item No.
G 3/8 x 10 mm	DN 10	1027151
G 3/8 x 12 mm	DN 10	1027152
G 1/2 x 12 mm	DN 15	1027153
G 1/2 x 15 mm	DN 15	1027155
G 3/4 x 18 mm	DN 20	1027157
G 3/4 x 22 mm	DN 20	1027158

Flat sealing externally threaded tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



Connection size	Nominal size	PU	Item No.
R 3/8	DN 10	10	1061491
R 1/2	DN 15	10	1061492
R 3/4	DN 20	10	1061493
R 1	DN 25	10	1061494
R 1 1/4	DN 32	5	1061495
R 1 1/2	DN 40	5	1061496
R 2	DN 50	5	1061497

Flat sealing weldable tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



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



Thermal insulation shell

Made of polyethylene flexible foam. Only for heating systems. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Building material class B1 according to DIN 4102.

Suitable for HydroControl VTR and ATR.

Max. operating temperature 100 °C

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 for higher temperatures

Made of polyurethane rigid foam with multiple clip connection. Operating temperature: for short periods up to 150 °C. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Building material class B2 according to DIN 4102.

Suitable for HydroControl VTR und ATR.

Max. operating temperature 130 °C



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



Identification ring

Can be clipped onto the handwheel for riser identification.

Suitable for HydroControl VTR, VFC, VFR and MTR 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

Suitable for HydroControl VTR, VFC, VFN, VFR, VGC, MTR and ATR 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 **260**

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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.

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.

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

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..

Body material Bronze Thermal insulation shell Available as accessory



Connection size	Nominal size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
Rp 1/2	DN 15	2.50	50 up to 300		1064504
Rp 3/4	DN 20	5.00	50 up to 300		1064506
Rp 1	DN 25	7.50	50 up to 300		1064508
Rp 1 1/4	DN 32	10.00	50 up to 300	130	1064510
Rp 1 1/2	DN 40	15.00	50 up to 300	72	1064512
Rp 2	DN 50	34.00	50 up to 300	60	1064516
Rp 1/2	DN 15	2.50	250 up to 700		1064704
Rp 3/4	DN 20	5.00	250 up to 700		1064706
Rp 1	DN 25	7.50	250 up to 700		1064708
Rp 1 1/4	DN 32	10.00	250 up to 700		1064710
Rp 1 1/2	DN 40	15.00	250 up to 700		1064712
Rp 2	DN 50	34.00	250 up to 700	60	1064716



Hydromat DTR with external thread PN 16

Flat sealing, with union nuts and sealing rings.

Body material Bronze Thermal insulation shell Available as accessory

Connection size	Nominal size	kvs	Nominal value differential pressure (mbar)	Item No.
G 3/4	DN 15	2.50	50 up to 300	1064604
G 1	DN 20	5.00	50 up to 300	1064606
G 1 1/4	DN 25	7.50	50 up to 300	1064608
G 1 1/2	DN 32	10.00	50 up to 300	1064610
G 1 3/4	DN 40	15.00	50 up to 300	1064612
G 2 3/8	DN 50	34.00	50 up to 300	1064616
G 3/4	DN 15	2.50	250 up to 700	1064804
G 1	DN 20	5.00	250 up to 700	1064806
G 1 1/4	DN 25	7.50	250 up to 700	1064808
G 1 1/2	DN 32	10.00	250 up to 700	1064810
G 1 3/4	DN 40	15.00	250 up to 700	1064812
G 2 3/8	DN 50	34.00	250 up to 700	1064816

Hydromat DFC with flanges according to EN 1092-2 PN 16

Body material Cast iron Thermal insulation shell No



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 - Accessories and spare parts

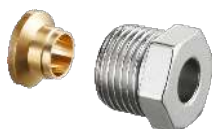


Ofix Compression fitting

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

Suitable for Hydromat DTR with internal threads.

PU 10



Connection size	Nominal size	Item No.
G 1/2 x 12 mm	DN 15	1027153
G 1/2 x 15 mm	DN 15	1027155
G 3/4 x 18 mm	DN 20	1027157
G 3/4 x 22 mm	DN 20	1027158

Flat sealing externally threaded tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



Connection size	Nominal size	PU	Item No.
R 1/2	DN 15	10	1061492
R 3/4	DN 20	10	1061493
R 1	DN 25	10	1061494
R 1 1/4	DN 32	5	1061495
R 1 1/2	DN 40	5	1061496
R 2	DN 50	5	1061497

Flat sealing weldable tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



Nominal size	PU	Item No.
DN 15	10	1060592
DN 20	10	1060593
DN 25	10	1060594
DN 32	5	1060595
DN 40	5	1060596
DN 50	5	1060597



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.

Max. operating temperature 100 °C

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.

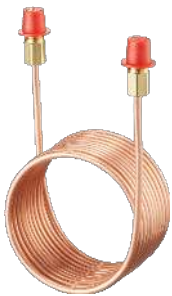
Max. operating temperature 130 °C

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



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

Item No.
1062095





2.1 Hydronic balancing of risers in heating and cooling systems

HydroCom and Hycococon Balancing and pipeline valves 266

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HydroCom V Double regulating and commissioning valves



For automatic hydronic balancing of distribution pipes in central heating and cooling systems with closed circuits. Y-pattern valve with infinitely adjustable pre-setting. All functions accessible from the top. Supplied with two HydroPort auxiliary valves.

Maintenance-free spindle sealing. The new HydroCom V double regulating and commissioning valves are characterised by robust design, fast presetting and excellent control quality.

Body material	DZR brass	Thermal insulation shell	Available as accessory
Presetting	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	Yes		
Impulse tube connection	Yes, via HydroPort		

HydroCom V with internal thread PN 16



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15	2.00	12	1062704
Rp 3/4	DN 20	3.70	12	1062706
Rp 1	DN 25	5.90	6	1062708
Rp 1 1/4	DN 32	13.00	6	1062710

HydroCom A Shutoff valves



For shutting off distribution pipes in central heating and cooling systems with closed circuits.

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. Maintenance-free spindle sealing.

The new HydroCom A shutoff valves are characterised by compact dimensions and permanently high operational safety.

Body material	DZR brass	Thermal insulation shell	Available as accessory
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		
Impulse tube connection	Yes, via HydroPort		

HydroCom A with internal thread PN 16



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15	2.00	12	1062724
Rp 3/4	DN 20	3.70	12	1062726
Rp 1	DN 25	5.90	6	1062728
Rp 1 1/4	DN 32	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. Straight seat valve with secured, at any time controllable, infinitely adjustable fine presetting. All functions accessible from the top.

Thermal insulation shells for temperatures up to 110 °C (not diffusion tight) included in the scope of delivery. Diffusion tight thermal insulation shells for temperatures 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.

Body material	DZR brass	Thermal insulation shell	Included in the scope of delivery
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	Yes		
Impulse tube connection	Yes		

Hycococon VTZ with internal thread PN 16

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15	1.70	10	1061704
Rp 3/4	DN 20	2.70	10	1061706
Rp 1	DN 25	3.60	10	1061708
Rp 1 1/4	DN 32	6.80	5	1061710
Rp 1 1/2	DN 40	10.00	5	1061712
Rp 2	DN 50	18.00	5	1061716

Hycococon VTZ with external thread PN 16

Flat sealing, with union nuts and sealing rings.



Connection size	Nominal size	kvs	PU	Item No.
G 3/4	DN 15	1.70	10	1061804
G 1	DN 20	2.70	10	1061806
G 1 1/4	DN 25	3.60	10	1061808
G 1 1/2	DN 32	6.80	5	1061810
G 1 3/4	DN 40	10.00	5	1061812
G 2 3/8	DN 50	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.

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 (not diffusion tight) are included in the scope of delivery. Diffusion tight thermal insulation shells for temperatures 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 drain valves with Eco measuring technique.

Body material	DZR brass	Actuator	No
Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	Extendable		Water-glycol mixture
Measuring connection	Yes	Installation location	Return
Impulse tube connection	Yes		
Thermal insulation shell	Included in the scope of delivery		

Hycococon DTZ with internal thread PN 16

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Connection size	Nominal size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
Rp 1/2	DN 15	1.70	50 up to 300	10	1062004
Rp 3/4	DN 20	2.70	50 up to 300	10	1062006
Rp 1	DN 25	3.60	50 up to 300	10	1062008
Rp 1 1/4	DN 32	6.80	50 up to 300	5	1062010
Rp 1 1/2	DN 40	10.00	50 up to 300	5	1062012
Rp 2	DN 50	18.00	50 up to 300		1062016
Rp 1/2	DN 15	1.70	250 up to 600	10	1062204
Rp 3/4	DN 20	2.70	250 up to 600	10	1062206
Rp 1	DN 25	3.60	250 up to 600	10	1062208
Rp 1 1/4	DN 32	6.80	250 up to 600	5	1062210
Rp 1 1/2	DN 40	10.00	250 up to 600	5	1062212
Rp 2	DN 50	23.00	250 up to 600		1062216

Hycoccon DTZ with external thread PN 16

Flat sealing, with union nuts and sealing rings.



Connection size	Nominal size	kvs	Nominal value differential pressure (mbar)	PU	Item No.
G 3/4	DN 15	1.70	50 up to 300	10	1062104
G 1	DN 20	2.70	50 up to 300	10	1062106
G 1 1/4	DN 25	3.60	50 up to 300	10	1062108
G 1 1/2	DN 32	6.80	50 up to 300	5	1062110
G 1 3/4	DN 40	10.00	50 up to 300	5	1062112
G 2 3/8	DN 50	23.00	50 up to 300		1062116
G 3/4	DN 15	1.70	250 up to 600	10	1062304
G 1	DN 20	2.70	250 up to 600	10	1062306
G 1 1/4	DN 25	3.60	250 up to 600	10	1062308
G 1 1/2	DN 32	6.80	250 up to 600	5	1062310
G 1 3/4	DN 40	10.00	250 up to 600	5	1062312
G 2 3/8	DN 50	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. Straight seat valve without presetting. With measuring and drain valve for the connection of the impulse tube of a differential pressure regulator. Thermal insulation shells for temperatures up to 110 °C (not diffusion

tight) are included in the scope of delivery. Diffusion tight thermal insulation shells for temperatures 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.

Body material	DZR brass	Actuator	No
Presetting	No	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water Water-glycol mixture
Draining	Yes	Installation location	Supply or return
Measuring connection	Yes		
Impulse tube connection	Yes		
Thermal insulation shell	Included in the scope of delivery		

Hycococon ATZ with internal thread PN 16

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Connection size	Nominal size	kvs	PU	Item No.
Rp 1/2	DN 15	1.70	10	1067304
Rp 3/4	DN 20	2.70	10	1067306
Rp 1	DN 25	3.60	10	1067308
Rp 1 1/4	DN 32	6.80	5	1067310
Rp 1 1/2	DN 40	10.00	5	1067312
Rp 2	DN 50	18.00	5	1067316

Hycococon ATZ with external thread PN 16

Flat sealing, with union nuts and sealing rings.



Connection size	Nominal size	kvs	PU	Item No.
G 3/4	DN 15	1.70	10	1067404
G 1	DN 20	2.70	10	1067406
G 1 1/4	DN 25	3.60	10	1067408
G 1 1/2	DN 32	6.80	5	1067410
G 1 3/4	DN 40	10.00	5	1067412
G 2 3/8	DN 50	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 AF 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 to DN 25	1067065
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 to DN 25	1067085

Hycococon - Accessories and spare parts

Ofix Compression fittings

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

Suitable for Hycococon VTZ, DTZ and ATZ with internal thread.

PU 10



Connection size	Nominal size	Item No.
G 1/2 x 12 mm	DN 15	1027153
G 1/2 x 15 mm	DN 15	1027155
G 3/4 x 18 mm	DN 20	1027157
G 3/4 x 22 mm	DN 20	1027158

Flat sealing externally threaded tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



Connection size	Nominal size	PU	Item No.
R 1/2	DN 15	10	1061492
R 3/4	DN 20	10	1061493
R 1	DN 25	10	1061494
R 1 1/4	DN 32	5	1061495
R 1 1/2	DN 40	5	1061496
R 2	DN 50	5	1061497

Flat sealing weldable tailpipe, 2-fold

Consisting of two tailpipes. Without union nuts and sealing rings.

Suitable for valves with flat sealing external thread which are supplied with union nuts and sealings rings.

Operating temperature -20 up to 150 °C



Nominal size	PU	Item No.
DN 15	10	1060592
DN 20	10	1060593
DN 25	10	1060594
DN 32	5	1060595
DN 40	5	1060596
DN 50	5	1060597



Thermal insulation shell for higher temperatures

Thermal insulation consisting of two shells. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Not suitable for Hycocon 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 in combination with the thermal insulation shells item no. 106177. Cold insulation: Min. medium temperature 6 °C, thermal insulation 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 Hycocon ATZ shutoff valves to Hycocon 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



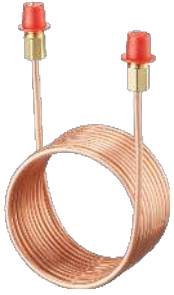
Description	PU	Item No.
Measuring adapter with HydroPort plug-in coupling and G 3/4 internal thread, for the connection to drain and fill tools and fill and drain cocks	50	1060297
Drain and fill tool for Hycocon double regulating and commissioning valves		1061791
2 measuring needles for Hycocon double regulating and commissioning valves, for the connection of the measuring devices OV-DMC 3, OV-DMC 2 and OV-DMPC	25	1061799

Demo-Bloc

Special tool for the replacement of Hycocon valve inserts DN 15 to DN 25 under system pressure - except for Hycocon DTZ differential pressure regulators.



Description	PU	Item No.
Connection thread M 30 x 1.5, including coupling set for AQ/AQH thermostatic valves		1188051
Spindle for differential pressure measurement at the thermostatic valve		1188093
Cleaning head for all valves	100	1188400



Replacement impulse tube

PU _____ 10

Item No.
1062095

Replacement measuring and draining unit

PU _____ 10



Description

Measuring and draining unit for valves with Eco measuring technique
 Plug for valves with Eco measuring technique

Item No.
1061790
1061798



2.1 Hydronic balancing of risers in heating and cooling systems

Other balancing and pipeline valves 279

Hycoflow VTB Balancing valves.....	280
Differential pressure relief valves.....	281

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.

Body material	Brass	Operating temperature	up to 100 °C
Presetting	Yes	Medium	Water
Shutoff	Yes		Water-glycol mixture
Measuring connection	No	Installation location	Supply or return
Thermal insulation shell	No		



Hycoflow VTB with external thread PN 10

Connection size	Nominal size	kvs	Control range (l/h)	PU	Item No.
G 3/4	DN 20	3.00	240 - 1.020	10	1060906
G 1	DN 25	8.30	600 - 2.400	10	1060908
G 1 1/4	DN 32	13.70	1.200 - 4.200	5	1060910



Hycoflow VTB with union nut / external thread PN 10

PU _____ 655

Connection size	Nominal size	kvs	Control range (l/h)	Item No.
G 1	DN 25	5.50	300 - 2.400	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		
Thermal insulation shell	No		



Differential pressure relief valve with internal thread PN 10

Connection size	Nominal size	Item No.
Rp 3/4	DN 20	1085206
Rp 1	DN 25	1085208
Rp 1 1/4	DN 32	1085210



2.2 Hydronic balancing with pressure independent control valves



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2.2 Hydronic balancing with pressure independent control valves

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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.

Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct setting in litres per hour. Readability of the set value possible from the outside, independent of the handwheel position, even with the ac-

tuator mounted. Valves with blind plugs can be retrofitted with Classic measuring valves. All DN 15 and DN 20 valves with internal thread are suitable for copper pipe with compression fittings.

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.

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		
Thermal insulation shell	Available as accessory		

Cocon QTZ with coupling and internal thread



Nominal size	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 15	30 - 210	R 1/2 x Rp 1/2	PN 16	10	1145504
DN 15	150 - 1,050	R 1/2 x Rp 1/2	PN 16	10	1145704
DN 15	200 - 1,300	R 1/2 x Rp 1/2	PN 25	10	1143704
DN 20	150 - 1,050	R 3/4 x Rp 3/4	PN 16	10	1145506
DN 20	250 - 1,800	R 3/4 x Rp 3/4	PN 25	10	1143606
DN 25	400 - 2,500	R 1 x Rp 1	PN 25	10	1143608
DN 32	600 - 4,800	R 1 1/4 x Rp 1 1/4	PN 25	5	1143610

Cocon QTZ with coupling and internal thread, with two mounted Classic measuring valves



Nominal size	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 15	30 - 210	R 1/2 x Rp 1/2	PN 16	10	1146004
DN 15	150 - 1,050	R 1/2 x Rp 1/2	PN 16	10	1146204
DN 15	200 - 1,300	R 1/2 x Rp 1/2	PN 25	10	1143304
DN 20	150 - 1,050	R 3/4 x Rp 3/4	PN 16	10	1146006
DN 20	250 - 1,800	R 3/4 x Rp 3/4	PN 25	10	1143206
DN 25	400 - 2,500	R 1 x Rp 1	PN 25	10	1143208
DN 32	600 - 4,800	R 1 1/4 x Rp 1 1/4	PN 25	5	1143210



Cocon QTZ with external thread

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	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 10	30 - 210	G ½	PN 16	10	1145563
DN 10	90 - 450	G ½	PN 16	10	1145663
DN 10	150 - 700	G ½	PN 25	10	1143663
DN 15	30 - 210	G ¾	PN 16	10	1145564
DN 15	150 - 1,050	G ¾	PN 16	10	1145764
DN 15	200 - 1,300	G ¾	PN 25	10	1143764
DN 20	150 - 1,050	G 1	PN 16	10	1145566
DN 20	250 - 1,800	G 1	PN 25	10	1143666
DN 25	400 - 2,500	G 1 ¼	PN 25	10	1143668
DN 32	600 - 4,800	G 1 ¾	PN 25	5	1143670



Cocon QTZ with external thread, 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	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 10	30 - 210	G ½	PN 16	10	1146063
DN 10	90 - 450	G ½	PN 16	10	1146163
DN 10	150 - 700	G ½	PN 25	10	1143263
DN 15	30 - 210	G ¾	PN 16	10	1146064
DN 15	150 - 1,050	G ¾	PN 16	10	1146264
DN 15	200 - 1,300	G ¾	PN 25	10	1143364
DN 20	150 - 1,050	G 1	PN 16	10	1146066
DN 20	250 - 1,800	G 1	PN 25	10	1143266
DN 25	400 - 2,500	G 1 ¼	PN 25	10	1143268
DN 32	600 - 4,800	G 1 ¾	PN 25	5	1143270



Cocon QTZ with internal thread

Nominal size	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 15	30 - 210	Rp ½	PN 16	10	1147504
DN 15	150 - 1,050	Rp ½	PN 16	10	1147704
DN 15	200 - 1,300	Rp ½	PN 25	10	1147404
DN 20	150 - 1,050	Rp ¾	PN 16	10	1147506
DN 20	250 - 1,800	Rp ¾	PN 25	10	1147306
DN 25	400 - 2,500	Rp 1	PN 25	10	1147308
DN 32	600 - 4,800	Rp 1 ¼	PN 25	5	1147310

Cocon QTZ with internal thread, DN 15...32, with two mounted Classic measuring valves



Nominal size	Control range (l/h)	Connection size	Pressure rating	PU	Item No.
DN 15	30 - 210	Rp 1/2	PN 16	10	1148504
DN 15	150 - 1,050	Rp 1/2	PN 16	10	1148704
DN 15	200 - 1,300	Rp 1/2	PN 25	10	1149404
DN 20	150 - 1,050	Rp 3/4	PN 16	10	1148506
DN 20	250 - 1,800	Rp 3/4	PN 25	10	1149306
DN 25	400 - 2,500	Rp 1	PN 25	10	1149308
DN 32	600 - 4,800	Rp 1 1/4	PN 25	5	1149310

Cocon QTZ with external thread, with two mounted Classic measuring valves and mounted measuring orifice



PU 10

Nominal size	Control range (l/h)	Connection size	Pressure rating	Item No.
DN 15	30 - 210	G 3/4	PN 16	1144564
DN 15	150 - 1,050	G 3/4	PN 16	1144764
DN 15	200 - 1,300	G 3/4	PN 25	1145064
DN 20	150 - 1,050	G 1	PN 16	1144566
DN 20	250 - 1,800	G 1	PN 25	1144966

Cocon QTR Valves DN 40 and DN 50



Pressure independent control valve for dynamic hydraulic 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.

Two-way valve, with secured, lead sealable, infinitely adjustable flow limitation. Direct set-

ting 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	Yes
Connection actuator	Yes	Measuring valve	Classic
Thermal insulation shell	No	Installation location	Supply or return
Operating temperature	-10 up to 120 °C		



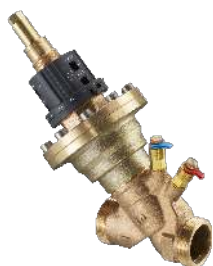
Cocon QTR with internal thread PN 25



Connection size	Nominal size	Control range (m ³ /h)	PU	Item No.
Rp 1 ½	DN 40	1.5 up to 7.5	50	1146112
Rp 2	DN 50	3.5 up to 14		1143116

Cocon QTR with external thread PN 16

Flat sealing, without union nuts and sealing rings.



Connection size	Nominal size	Control range (m ³ /h)	Item No.
G 1 ¾	DN 40	1.5 up to 7.5	1146172
G 2 ¾	DN 50	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.

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	Medium	Water
Shutoff	Yes		Water-glycol mixture
Connection actuator	Yes	Measuring connection	Yes
Thermal insulation shell	No	Measuring valve	Classic
Operating temperature	-10 up to 120 °C	Installation location	Supply or return

Cocon QFC with flanges according to EN 1092-2 PN 16



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



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 QGC with roll grooves PN 25

Body material Cast iron

Nominal size	Control range (m³/h)	Connection size	Item No.
DN 65	5 up to 20	73.0	1676351
DN 80	7.5 up to 30	88.9	1676352
DN 100	12.5 up to 50	114.3	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 an actuator or a manual regulating head. In addition, the maximum differential pressure is limited via the control zone.

Two-way valve, with secured, lead sealable,

infinitely adjustable flow limitation. Direct setting of the flow rate in litres per hour. Readability of the set value independent of the handwheel position. 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.

Body material	DZR brass	Medium	Water
Presetting	Yes		Water-glycol mixture
Shutoff	Yes	Installation location	Return
Connection actuator	M 30 x 1.5	PU	10
Operating temperature	-10 up to 120 °C		

Cocon QDP with external thread PN 25



Connection size	Nominal size	Flow range (l/h)	Item No.
G 1	DN 20	up to 1,350	1144606
G 1 ¼	DN 25	up to 1,540	1144608

Cocon - Accessories



Connection set with externally threaded tailpipes

Consisting of two tailpipes with O-rings 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 with operating pressure up to a maximum of 16 bar.



Connection size	Nominal size	PU	Item No.
R 3/8	DN 10	10	1140281
R 1/2	DN 15	10	1140282
R 3/4	DN 20	10	1140284
R 1	DN 25	10	1140285
R 1 1/4	DN 32	5	1140286

Connection set with internally threaded tailpipes

Consisting of two tailpipes with O-rings 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 with operating pressure up to a maximum of 16 bar.



Connection size	Nominal size	PU	Item No.
Rp 1/2	DN 15	10	1141292 °
Rp 3/4	DN 20	10	1141293 °
Rp 1	DN 25	10	1141294 °
Rp 1 1/4	DN 32	5	1141295 °

Thermal insulation shell

Thermal insulation consisting of two shells. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG). Cold insulation: Min. medium temperature 6 °C, thermal insulation 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	Pressure rating	Item No.
DN 15 and DN 20	PN 16	1149104
DN 10 and DN 15	PN 25	1149120
DN 20 and DN 25	PN 25	1149121
DN 32	PN 25	1149122

Spindle extension

Is required if Cocon QTZ valves are to be equipped with thermal insulation shells and actuators.

PU 10



Description	Item No.
Spindle extension 25 mm	1149190



Adapter for rotary actuator.

For Cocon QTZ. For converting a rotary movement into a stroke lift.

PU _____ 25

Description

Adapter rotary movement

Item No.

1149095



















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Actuators for small control valves







Product family	Hycocon			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 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, 230V AC, 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, 230V AC, two point	With adapter 1012462	With adapter 1012462	●	●	●	●
	Aktor T 2P L NC	1012416	NC, 24V AC, two point	—	With adapter 1012462	●	●	●	●
		1012442	With 2 m connecting cable	—	With adapter 1012462	●	●	●	●
	Aktor T 2P L NO	1012426	NO, 24V AC, two point	—	With Adapter 1012462	●	●	●	●
	Aktor T 2P M NC	1012420	NC, 120V AC, two point	—	With adapter 1012462	●	●	●	●
	Aktor T ST L NC	1012953	NC, 24V AC, steady 0...10V	○*	○*	●*	●*	○*	●*
Electromotive actuators with M30 x 1.5 connection									
	Aktor M 2P H	1012710	High-speed, 230V AC, 2 point	●	●	○	○	○	●
		1012711	High-speed, 24V AC, 2 point	●	●	○	○	○	●
	Aktor M 3P H	1012729	230 VAC, 3 point	○	○	●	●	○	●
	Aktor M ST L	1012725	24V AC/DC, steady 0...10V, 2/3 point	○	○	●	●	○	●
		1012726	24V AC/DC, steady 0...10V, with position feedback	○	○	●	●	○	●
		1012717	24V AC/DC, steady 0...10V, with position feedback	○	○	●	●	○	●
	Aktor M ST L	1012745	24V AC/DC, Modbus	○	○	●	●	○	○
	Aktor M KNX	1012746	21...23V DC SELV, KNX	●	●	●	●	●	●

● fits mechanically, is recommended in terms of control technology
○ fits mechanically, is not recommended in terms of control technology

*Control stroke ≥ effective valve stroke

Actuators for large and flanged control valves

Product family	Cocon Large and flanged valves from DN 40					Control valves	
							
	QTR	QFC	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	24V AC, steady 0...10V, 2/3 point without adapter, for control valves 2/3-way valves	—	—	—	—	—	●	—
 Aktor M ST L	1158012	24V AC, steady 0...10V, 2/3 point with adapter for Cocon QTR DN40 and 50	●	●	—	—	—	—	—
	1158013	24V AC, steady 0...10V, 2 point with adapter for Cocon QTR DN40 and 50 with emergency control function	●	●	—	—	—	—	—
	1158014	24V AC, Modbus, with adapter for Cocon QTR DN40 and 50	●	●	—	—	—	—	—
 Aktor M ST L	1158020	24V AC, 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	24V AC, 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.

Valve connection	Connection thread M 30 x 1.5	Installation	Plug-in connection with valve adapter
Installation position	Any	Stroke	5 mm

Aktor T 2P two point control



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

Aktor T ST 0 - 10 V control



PU	500
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Tension	Version	Cable* (m)	Item No.
24 V AC	"Normally closed"	1	1012953

Aktor T - Accessories



Valve adapter

PU _____ 5

Description	Item No.
Connection thread M 30 x 1.5	1012461
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	1012462
For Oventrop valves with connection thread M 30 x 1.0 (manufactured until 1998)	1012890



Reinforcing cap

Description	Item No.
For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation	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 with 0 - 10 V

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).

Valve connection	Connection thread M 30 x 1.5	Direction of action adjustable	Yes
Modulating proportional actuator	Yes	Stroke	4 mm
Automatic valve anti-blocking function	Yes	Cable*	1.5 m
		Zero point detection	Yes

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

Aktor M two point and three point control



Valve connection	Connection thread M 30 x 1.5	Stroke	4 mm
Automatic valve anti-blocking function	No	Cable*	1.5 m
Direction of action adjustable	No	Zero point detection	Yes

Tension	Item No.
230 V AC	1012729

Aktor M two point control, with short operating time (3 s)



Valve connection	Connection thread M 30 x 1.5	Contact open - drive tappet retracts	Yes
Automatic valve anti-blocking function	No	Cable*	1.5 m
Stroke	6.5 mm		

Tension	Item No.
230 V AC	1012710
24 V AC / DC	1012711

Aktor M steady with 0 - 10 V or two point control

For Cocon QTR / QFC DN 40 / 50, including adapter.



Automatic valve anti-blocking function	Yes	Cable*	1.5 m
Stroke	10 mm		

Tension	Note	Item No.
24 V AC / DC	Additionally also for three point operation	1158012
24 V AC / DC	Additionally for emergency control function (failsafe)	1158013

Aktor M steady with 0 - 10 V or two point / three point control

For two-way valve item no. 11308.. and 16708.. DN 15 to DN 50.



Automatic valve anti-blocking function	Yes	Stroke	10 mm
Position feedback	0 - 10 V	Cable*	1.2 m
Characteristic line	Adjustable (linear and equal percentage)		

Tension	Item No.
24 V AC / DC	1158011

Aktor M steady with 0(2) - 10 V or three point control

For Cocon QTR / QFC DN 40 to DN 100.



Position feedback	0 - 10 V	Stroke	20 mm
Characteristic line	Linear		

Tension	Included accessory	Item No.
24 V AC	Adapter	1158020



Aktor M steady with 0(2) - 10 V resp. 0(4) - 20 mA or two point / three point control

For Cocon QTR / QFC DN 40 to DN 100.

Position feedback	0 - 10 V	Stroke	20 mm
Characteristic line	Linear		

Tension	Included accessory	Version	Item No.
24 V AC	Spring return Adapter	Electromotive, normally opening	1158021
24 V AC	Spring return Adapter	Electromotive, normally closing	1158022



Aktor M steady with 0 - 10 V, 4 - 20 mA or two point / three point control

For Cocon QFC DN 125 to DN 200 and two-way valves DN 65 to DN 150.

Position feedback	0 - 10 V	Stroke	40 mm
Characteristic line	Adjustable (linear, square-law and equal percentage)		

Tension	Included accessory	Version	Item No.
24 V AC / DC	Adapter	Electromotive	1158030
24 V AC / DC	Spring return Adapter	Electromotive, normally opening	1158031
24 V AC / DC	Spring return Adapter	Electromotive, normally closing	1158032



Aktor M with KNX interface

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

Valve connection	Connection thread M 30 x 1.5	PU	120
Stroke	4 mm		

Tension	Item No.
21 - 32 V DC (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.

Valve connection	Connection thread M 30 x 1.5	Position feedback	0 - 100 %
Automatic valve anti-blocking function	Yes	Cable*	1.5 m
		Zero point detection	Yes

Tension	Suitable for	Stroke (mm)	Item No.
24 V AC / DC	Cocon QTZ	9	1012745
24 V AC / DC	Cocon QTR/QFC DN 40/50	14	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





2.3 Connection and control of heating and cooling devices



2.3

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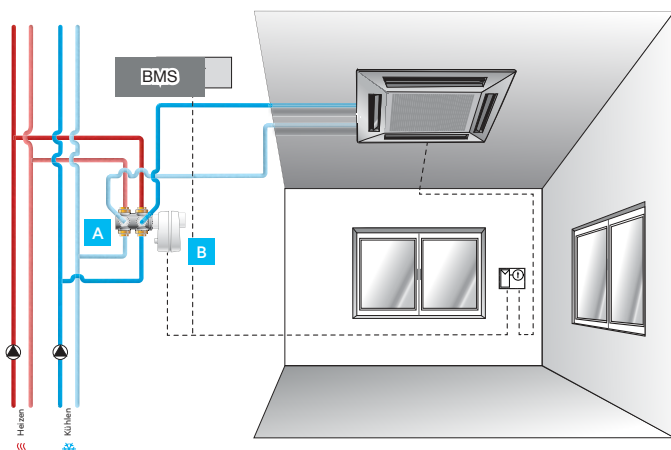
2.3 Connection and control of heating and cooling devices

Optibal W6 Control ball valve **303**

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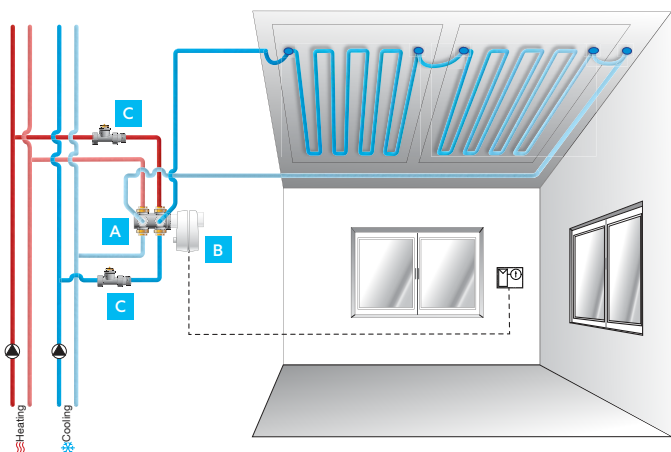
Optibal W6 Application examples



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).

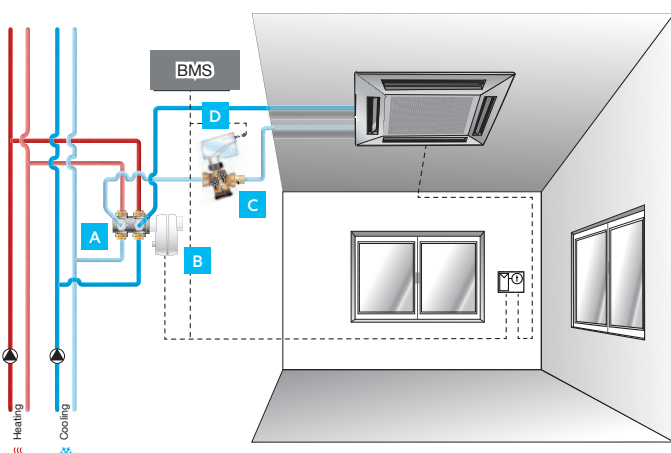
- A** Optibal W6 Six-way ball valve
- B** Aktor R ST L Rotary actuator



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



Optibal W6 with external thread with internal cone PN 16

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.

Body material	DZR brass	kvs	3.20
Operating temperature	0 up to 90 °C		
Medium	Water Water-glycol mixture		

Connection size	Nominal size	PU	Item No.
G 3/4	DN 15		1132004
G 1	DN 20	10	1132006

Aktor R ST 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	Item No.
For DN 15 and DN 20	1132030



Optibal W6 - Accessories



Connection set with externally threaded tailpipes

Consisting of two tailpipes with O-rings and union nuts.

PU 10

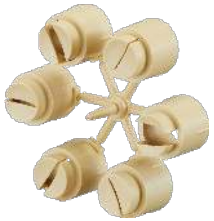
Connection size	Nominal size	Item No.
R 1/2	DN 15	1140282
R 3/4	DN 20	1140284

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	Item No.
Kvs orifice set (2 x)	1132020



2.3 Connection and control of heating and cooling devices

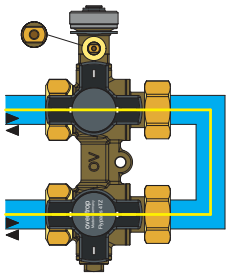
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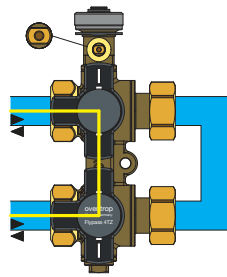
Flypass 4TZ Application example

Flypass set consisting of **Flypass 4TZ** basic fitting, **Cocon QTZ** pressure independent control valve with **Aktor M** actuator and strainer

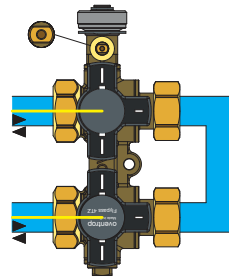
Flypass 4TZ Functions



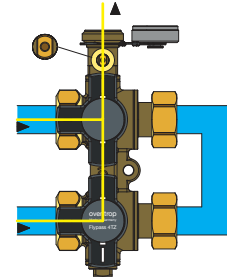
Normal mode



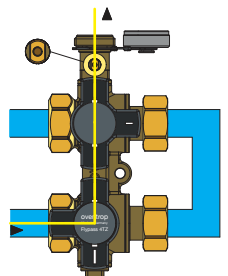
Bypass mode



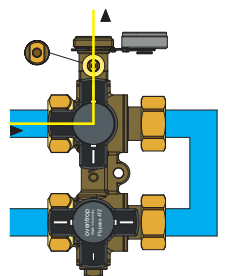
Shutting-off



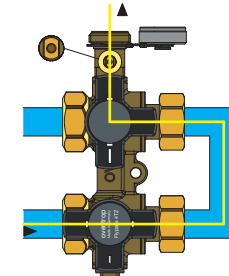
Filling and venting of the system side



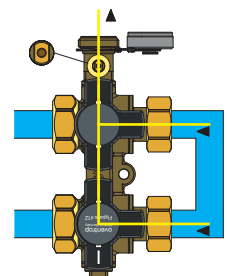
Draining of the system and appliance side, venting and flushing of the system side



Draining, venting and flushing of the system side

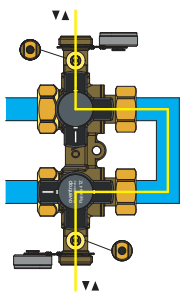


Filling and flushing of the appliance side

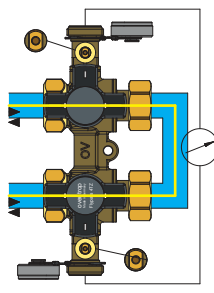


Shutting off and draining of the appliance side

Functions with accessories



Re-filling, venting and flushing of the appliance side with second fill and drain ball valve



Differential pressure measurement e.g. with **OV-DMC 3**

Flypass 4TZ Connection fitting



Flypass 4TZ with internal thread and union nut with sealing ring, flat sealing PN 16

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 function fittings. 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	Thermal insulation shell	Available as accessory
Shutoff	Yes	Operating temperature	-10 up to 120 °C
Draining	Yes	Medium	Water
Position indicator	Yes		Water-glycol mixture

Nominal size	kvs	Item No.
DN 15	22.00	1149504
DN 20	34.00	1149506



Flypass set with Hydrocontrol double regulating and commissioning valve PN 16

Flypass set consisting of a Flypass 4TZ connection 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 Strainers 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 Strainers 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 Strainers Hydrocontrol MTR Double regulating and commissioning valve with measuring orifice Internally threaded tailpipe set (2 pieces)	1149564



Flypass set with Cocon QTZ pressure independent control valve PN 16

Flypass set consisting of a Flypass 4TZ connection 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 Strainers Cocon QTZ Set of inserts (2 pieces)	110	1149450
DN 15	30 - 210	Flypass 4TZ Connection fitting Strainers Cocon QTZ Measuring orifice Internally threaded tailpipe set (2 pieces)		1149553
DN 20	180 - 1,300	Flypass 4TZ Connection fitting Strainers Cocon QTZ Measuring orifice Internally threaded tailpipe set (2 pieces)		1149554
DN 15	90 - 450	Flypass 4TZ Connection fitting Strainers Cocon QTZ Set of inserts (2 pieces)	110	1149550
DN 15	150 - 1,050	Flypass 4TZ Connection fitting Strainers Cocon QTZ Set of inserts (2 pieces)	105	1149650
DN 20	150 - 1,050	Flypass 4TZ Connection fitting Strainers Cocon QTZ Set of inserts (2 pieces)	110	1149551
DN 20	180 - 1,300	Flypass 4TZ Connection fitting Strainers Cocon QTZ Set of inserts (2 pieces)		1149651
DN 25	300 - 2,000	Flypass 4TZ Connection fitting Strainers Cocon QTZ	72	1149552

Flypass - Accessories

Inserts

Inserts allow for the use of flat sealing tailpipes or connection sets with conically sealing valves.



Description	PU	Item No.
For Cocon QTZ and Optibal W6 DN 20 with G 1 externally threaded connection. Suitable for flat sealing tailpipes.	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



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

Thermal insulation shell, diffusion tight



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.

Nominal size	Item No.
DN 15 and DN 20	1149581

Thermal insulation shell



Suitable for Flypass set 1, except for item no. 1149553-54.

For heating systems. Operating temperature: up to 110 °C. Not diffusion tight.

Nominal size	Item No.
DN 15 and DN 20	1149580
DN 25	1149582



2.3 Connection and control of heating and cooling devices

Tri CTR Three-way valves **312**

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Tri CTR Three-way diverting and mixing valves



Tri CTR with external thread PN 16

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		

Connection size	Nominal size	kvs	PU	Item No.
G 3/4	DN 15	2.50	10	1131204
G 1	DN 20	4.40	10	1131206
G 1 1/4	DN 25	5.70	10	1131208
G 1 1/2	DN 32	7.20	5	1131210
G 2	DN 40	8.50	5	1131212
G 2 3/8	DN 50	10.00	5	1131216



Threaded tailpipe set for Tri CTR (3-fold)

Connection size	Nominal size	PU	Item No.
R 1/2	DN 15	10	1130291
R 1/2	DN 20	10	1130292
R 3/4	DN 20	10	1130293
R 1	DN 25	10	1130294
R 1 1/4	DN 32	5	1130299
R 1 1/4	DN 40	5	1130295
R 1 1/2	DN 40	5	1130296
R 2	DN 50	5	1130298

Temperature controllers

2.3



Temperature controller with immersion sensor and immersion sleeve G 1/2

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

Control range (°C)	Capillary tube length* (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

Immersion sleeve, loose, connection G 1/2, brass

Item No.

1141091

Temperature controller with contact sensor and heat conducting base



Control range (°C)	Capillary tube length* (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/three-way valve with flanges according to EN 1092-2 PN 16

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



Nominal size	kvs	Item No.
DN 15	1.00	1130875
DN 15	1.60	1130865
DN 15	2.50	1130845
DN 20	4.00	1130866
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



2.3 Connection and control of heating and cooling devices

Hycoccon Control valves **316**

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Hycococon Two-way valves

Hycococon ETZ with internal thread PN 16

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



Body material	DZR brass	Thermal insulation shell	Available as accessory
Presetting	Yes	Operating temperature	-10 up to 120 °C
Shutoff	Yes	Medium	Water
Draining	Extendable		Water-glycol mixture
Measuring connection	Yes	Installation location	Supply or return
Connection actuator	M 30 x 1.5	PU	10

Connection size	Nominal size	kvs	Item No.
Rp 1/2	DN 15	1.00	1068364
Rp 3/4	DN 20	1.20	1068366
R 1	DN 25	1.20	1068368

Hycococon HTZ with internal thread PN 16, with high flow rate

Nominal sizes DN 15 and DN 20 suitable for compression fittings item no. 10271..



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	Yes	Installation location	Supply or return

Connection size	Nominal size	Thermal insulation shell	kvs	PU	Item No.
Rp 1/2	DN 15	Available as accessory	1.70	10	1068564
Rp 3/4	DN 20	Available as accessory	2.70	10	1068566
Rp 1	DN 25	Available as accessory	3.60	10	1068568
Rp 1 1/4	DN 32	No	6.80	5	1068570
Rp 1 1/2	DN 40	No	10.00	5	1068572

Hycococon Two-way valves - Accessories



Ofix Compression fittings

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

PU 10

Connection size	Nominal size	Item No.
G 1/2 x 12 mm	DN 15	1027153
G 1/2 x 15 mm	DN 15	1027155
G 3/4 x 18 mm	DN 20	1027157
G 3/4 x 22 mm	DN 20	1027158



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 AF 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 to DN 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

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2.4 Differential pressure measurement and verification of water quantities

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Plug-in coupling technology - Accessories.....	329



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



2.4

OV-Connect Differential pressure transducer



Item No.

1069180

OV Measuring system - Accessories



Measuring hose

Suitable for OV-DMC 3, OV-DMC 2 and OV-DMPC.

PU _____ 5

Description

2 measuring hoses, length 0.5 m, red and blue

2 measuring hoses, length 2 m, red and blue

Item No.

1069178

1069179

2.4



Measuring valve

Suitable for OV-DMC 3, OV-DMC 2 and OV-DMPC.

PU _____ 50

Description

2 measuring valves G $\frac{3}{8}$ with plug-in coupling technology, with screen

Item No.

1069186



Thermometer

Description

Contact thermometer for OV-DMC 2 and OV-DMPC

Item No.

1069197

Classic measuring technique - Accessories



Ball valve

PU _____ 50

Description

Fill and drain ball valve with G 1/4 external thread

Item No.

1060191

Measuring valve

PU _____ 50



Description

2 measuring valves with G 1/4 external thread

Item No.

1060281

Measuring valve with extension

PU _____ 50



Description

2 measuring valves G 1/4 with extension L = 100 mm, system draining not required for mounting

Item No.

1060282

Measuring valve extension

PU _____ 50



Description

Measuring valve extension L = 80 mm, system draining is required for mounting

Item No.

1060295





Measuring adapter with Classic measuring technique and G ¾ internal thread, for the connection to drain and fill tools and fill and drain cocks

PU _____ 50

Description

Measuring adapter with Classic measuring technique and G ¾ internal thread, for the connection to drain and fill tools and fill and drain cocks

Item No.

1060298



Measuring adapter with Classic measuring technique and G ¾ internal thread, for the connection to drain and fill tools and fill and drain cocks

PU _____ 10

Description

2 measuring adapters for differential pressure measurement at Hydromat DTR / DFC

Item No.

1060299



Measuring valve

PU _____ 50

Description

Measuring valve with Classic measuring technique and fill and drain ball valve. With external thread G ¼.

Item No.

1060381



Measuring needle

PU _____ 50

Description

2 measuring needles with plug-in connection

Item No.

1069199



Measuring valve extension

PU _____ 50

Description

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

Item No.

1688290



Measuring valve extension

PU _____ 50

Description

2 measuring valve extensions L = 80 mm, for measuring orifices item no. 1060771-78

Item No.

1688291



Measuring valve extension

PU _____ 40

Description

Measuring valve extension L = 40 mm, system draining is required for mounting

Item No.

1688295



Eco measuring technique - Accessories



Draining

Description

Drain and fill tool for Hycocn double regulating and commissioning valves

Item No.

1061791



Measuring needle

PU

25

Description

2 measuring needles for Hycocn double regulating and commissioning valves, for the connection of the measuring devices OV-DMC 3, OV-DMC 2 and OV-DMPC

Item No.

1061799

Plug-in coupling technology - Accessories



Measuring adapter with Classic measuring technique and G 3/4 internal thread, for the connection to drain and fill tools and fill and drain cocks

PU 50

Description

Measuring adapter with HydroPort plug-in coupling and G 3/4 internal thread, for the connection to drain and fill tools and fill and drain cocks

Item No.

1060297



Measuring valve

Suitable for HydroControl VTR, MTR and ATR. Not suitable for the new HydroControl V, M, D and A.

PU 50



Description

Measuring valve with HydroPort plug-in coupling and fill and drain ball valve. With external thread G 1/4.

Item No.

1060391



2.4 Differential pressure measurement and verification of water quantities

Measuring orifices **330**

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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 orifice with internal thread / external thread PN 25



Body material	DZR brass	PU	10
Operating temperature	-20 up to 150 °C		

Connection size	Nominal size	kvs	Item No.
R 1/2 x Rp 1/2	DN 15 LF	0.55	1060644
R 1/2 x Rp 1/2	DN 15 MF	1.20	1060634
R 1/2 x Rp 1/2	DN 15 HF	2.20	1060604
R 3/4 x Rp 3/4	DN 20	4.25	1060606
R 1 x Rp 1	DN 25	8.60	1060608
R 1 1/4 x Rp 1 1/4	DN 32	15.90	1060610
R 1 1/2 x Rp 1 1/2	DN 40	23.70	1060612
R 2 x Rp 2	DN 50	48.00	1060616



Measuring orifice for flanges according to EN 1092 PN 16

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



Measuring orifice for flanges according to EN 1092 PN 16



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

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2.5 Shutoff valves and other pipeline valves

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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

Thermal insulation shell Available as accessory

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, with thermometer

Thermal insulation shell Available as accessory

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

Thermal insulation shell Available as accessory

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, with drain valve

Thermal insulation shell Available as accessory

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, with drain ball valve

Nominal size	Connection size	kvs	PU	Item No.
DN 15	G 1/2	22.00	10	1697804
DN 20	G 3/4	43.00	5	1697806
DN 25	G 1	67.00	5	1697808
DN 32	G 1 1/4	99.00	5	1697810


Optibal with press connection PN 16

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.

Thermal insulation shell Available as accessory

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

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.

Thermal insulation shell Available as accessory

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

Thermal insulation shell Available as accessory 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 galvanised steel with plastic coating.

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



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



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

Optibal Ball valves with T-handle



Ball surface hard chrome plated. T-handle made of metal.

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



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



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



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	Operating temperature	up to 120 °C
Surface	Nickel plated	Medium	Water
Thermal insulation shell	Available as accessory		Water-glycol mixture



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:

DN 25: 2 x 1078194 and 1 x 1078094

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 HT High temperature ball valves



Ball surface hard chrome plated. Anthracite extended plastic handle for easy insulation. With red replaceable cover plug for riser identifica-

tion. The maximum operating temperature is only permissible for a short time.

Body material	Brass	Operating temperature	-10 up to 150 °C
Surface	Nickel plated	Max. operating temperature	180 °C
Type of construction	Reduced flow	Medium	Water
Thermal insulation shell	Available as accessory		Water-glycol mixture



Optibal HT with internal thread PN 16



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 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, external thread and cap

Extended plastic handle.



Thermal insulation shell	Available as accessory	PU	5
Operating temperature	2 up to 120 °C		

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, external thread and cap

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

Extended plastic handle.

Thermal insulation shell	Available as accessory	PU	5
Operating temperature	2 up to 120 °C		



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

Optibal with weldable tailpipes

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	1065504
DN 20	26 mm	1065506
DN 25	33 mm	1065508
DN 32	42.5 mm	1065510



DZR Brass ball valves



Body material	DZR brass	Operating temperature	-10 up to 120 °C
Surface	Untreated	Medium	Water
Type of construction	Full flow		Water-glycol mixture

**DZR brass ball valve with internal thread PN 30**

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

DZR brass ball valve with internal thread PN 30

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

DZR brass ball valve with internal thread PN 30

Extended plastic handle.

Thermal insulation shell Available as accessory



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
Thermal insulation shell	No		

Nominal size	Connection size	Item No.
DN 20	G 1	1351705



Ball valve with internal thread and hose screw connection

PN 16, DN 15 to DN 25, one side internal thread, one side hose screw connection and cap with fastening loop. Full flow, with double FKM O-ring seal, ball hard chrome plated, PTFE seats

Body material	Brass	Operating temperature	-20 up to 120 °C
Surface	Nickel plated	Medium	Water
Thermal insulation shell	No		Water-glycol mixture

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



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. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG).

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



2.5



Thermal insulation shell

For Optibal P pump ball valves. Meets the requirements of Appendix 8 to Sections 69 and 71(1), line ee) of the German Building Energy Act (GEG).

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

Nominal size	Item No.
Up to DN 15	1076071
DN 20 and DN 25	1076072
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.
DN 10 and DN 15, set = 10 pieces	1077171
DN 20 and DN 25, set =10 pieces	1077172
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.
DN 10 and DN 15	1077181
DN 20 and DN 25	1077182
DN 32 to DN 50	1077183
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



Nominal size	Item No.
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

Nominal size	Item No.
DN 15	1079254
DN 20 and DN 25	1079255
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

Fill and drain cocks **350**

Optiflex Fill and drain ball valves.....	351
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Fill and drain cocks - Accessories and spare parts.....	355



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 screw connections, if included, with soft seal.

Shutoff Yes



Optiflex with external thread PN 16 and plastic hose screw 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 screw 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 screw 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 20	G ¾	25	1033316
DN 25	G 1	10	1033308
DN 15	G ½	50	1034315



Optiflex with external thread PN 16, without hose screw 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, with plastic hose screw 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	1033814



Optiflex with external thread PN 16, made of bronze, with brass hose screw connection

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 ¾	1032403
DN 15	G ½	1032404



Optiflex with external thread PN 16, with plastic hose screw connection, 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, without hose screw connection, 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



Heavy model with external thread PN 16

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
Thermal insulation shell	No		



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

Fill and drain cocks - Accessories and spare parts



Cap with sealing washer and fastening 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 15	G ¾	50	1034052
DN 10	G ½	50	1034003
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.
DN 10 and DN 15, spanner size 12 mm	10	1035004
DN 20 and DN 25, spanner size 14 mm	5	1035006



2.5 Shutoff valves and other pipeline valves

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Hygate Gate valves



Hygate ATB with internal thread PN 25

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



Hygate AFC with flanges according to EN 1092-2 PN 16

Body material	Cast iron	Medium	Water Water-glycol mixture
Shutoff	Yes		
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

Shutoff valves

Shutoff valve with weldable tailpipes PN 25



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



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
Thermal insulation shell	No		

Nominal size

DN 15
DN 15

Pressure rating

PN 10
PN 25

Item No.

1110104
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
Thermal insulation shell	No		

Nominal size

DN 15

Pressure rating

PN 25

Item No.

1110204



Pressure gauge cock, push 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	Thermal insulation shell	No
Shutoff	Yes	Connection size	G 1/2
Draining	No	PU	25
Measuring connection	Yes	Certification	DVGW

Nominal size

DN 15

Pressure rating

PN 25

Item No.

1110504

Accessories and spare parts



Vent valve PN 25

PU _____ 25

Nominal size

DN 15

Item No.

1067004

Pressure gauge cocks - Accessories



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

40

Item No.

1111904

Graphited sealing washer for pressure gauge cocks

50

1905551



2.5

Pressure gauge shutoff valves - Accessories



Description

Cu sealing ring DIN 16528 for pressure gauge shutoff valves

Item No.

1905552

Replacement handwheel for gate valves Hygate ATB and ATR



PU _____ 100

Nominal size

DN 10 and DN 15

DN 20 and DN 25

DN 32 and DN 40

DN 50

DN 65

DN 80 and DN 100

Item No.

1900051

1900052

1900053

1900054

1900055

1900056



Replacement lockshield spindle

For item no. 1065008 and 1066008.

PU _____ 5

Nominal size

DN 25

Item No.

1069294

Replacement cap with sealing washer and chain

For item no. 10650.., 10656.., 10660.., 10665.. and 10666..

PU _____ 25



Nominal size

DN 15

DN 20

DN 25

DN 32

Connection size

G 3/4

G 1

G 1 1/4

G 1 3/4

Item No.

1066904

1066906

1066908

1066910





2.5 Shutoff valves and other pipeline valves

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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

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, 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

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, 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.
DN 50 to DN 80	1048491
DN 100 to DN 150	1048492
DN 200	1048493



Gear operator with handwheel

For item no. 10464.., 10472.., 10484.. and 10492..



Description	Item No.
DN 50 to DN 100	1049850
DN 125 to DN 200	1049853

Check valves



WRAS

Backflow preventers for horizontal and vertical installation. Valve plug spring-loaded. Opening pressure 40 mbar. The 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



Check valve with internal thread PN 25, 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	3.40	10	1072003
DN 15	Rp 1/2	5.50	10	1072004
DN 20	Rp 3/4	10.30	10	1072006
DN 25	G 1	17.50	10	1072008
DN 32	G 1 1/4	33.00	5	1072010
DN 40	G 1 1/2	44.00	5	1072012
DN 50	G 2	68.00	5	1072016

Check valve with internal thread PN 25, 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.

Water
Water-glycol mixture

Medium



Swing check valve with internal thread PN 16

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

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

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

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

Strainers



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, 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 ¼	1.50	WRAS	10	1120002
DN 10	Rp ⅜	1.70	WRAS	10	1120003
DN 15	Rp ½	3.80	WRAS	10	1120004
DN 20	Rp ¾	7.80	WRAS	10	1120006
DN 25	G 1	13.40	WRAS	10	1120008
DN 32	G 1 ¼	23.90	WRAS	5	1120010
DN 40	G 1 ½	32.50	WRAS	5	1120012
DN 50	G 2	56.20	WRAS	5	1120016
DN 65	G 2 ½	101.30	WRAS		1120020
DN 80	G 3	133.60	WRAS		1120024

Strainer with weldable tailpipes PN 25, 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, 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, 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
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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, mesh size 1 to 3 mm

Body and cover: DN 15 to DN 300 made of cast iron, DN 350 to DN 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



Strainers - Spare parts

Wire basket, mesh size 600 µm

For strainers 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

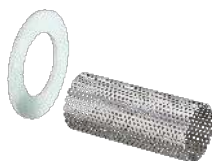
For strainers item no. 11210.. and 11410.., mesh size 0.25 mm, 600 Maschen / cm².



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



Sludge 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.

Draining	Yes	Medium	Water
Operating temperature	-10 up to 110 °C		Water-glycol mixture



Sludge separator with internal thread PN 16, for horizontal installation



Body material	Brass	Thermal insulation shell	Available as accessory
---------------	-------	--------------------------	------------------------

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, for vertical installation



Body material	Brass	Thermal insulation shell	Available as accessory
---------------	-------	--------------------------	------------------------

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

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

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

Sludge separators - Accessories



Thermal insulation shell

Description

DN 20 and DN 25, horizontal installation position
DN 32 and DN 40, horizontal installation position
DN 20 and DN 25, vertical installation position

Item No.

1124091
1124092
1124191

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		10

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		10

Nominal size	Item No.
DN 10	1088203



Stations
Storage cylinders

3



3 Stations, Storage cylinders

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3.1 Stations for heating circuit and cooling circuit connection

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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 tempera-

tures, a check valve to prevent incorrect circulation and a thermal insulation. Depending on the model, a pump ball valve is also included for easy pump replacement without draining system parts.

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
Supply pipe	Right	Safety temperature monitor	No
Optional supply pipe change	Yes	Max. operating temperature	95 °C
Thermal insulation	Yes	Max. operating pressure	10 bar
Shutoff	Yes	Leak tested	Yes
Check valve	Yes		

3.1

Regumat S-130 DN 20

With universal thermal insulation of modular construction.

Commercially available pumps (DN 20, length 130 mm, G 1 external thread) can be installed.



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		

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.

Commercially available pumps (DN 25, length 130 mm, G 1 ½ external thread) can be installed.



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		

Pump type

without pump

Item No.

1355071

Regumat S-180 DN 25 with pump ball valve

With universal thermal insulation of modular construction.

Suitable for the installation of the following high-efficiency pumps:

Wilo-Yonos PARA

Wilo-Stratos PICO 25/1-4/6

Grundfos ALPHA 2.1 25-40/60

Laing series Ecocirc

Biral AX 13-1



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	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	213 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	465 mm	kvs	7.00
Length product assembly	411 mm		

Pump type

without pump

Wilo PARA 25-180/6-43/SC-6

Grundfos ALPHA 2.1 25-60

Item No.

1357070

1357072

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	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	200 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	513 mm	kvs	7.40
Length product assembly	460 mm		

Pump type

without pump

Item No.

1356050

Regumat S-180 DN 25 - compact design

With universal thermal insulation of modular construction. Suitable for the installation of the following high-efficiency pumps:

Wilo-Yonos PARA
 Wilo-Stratos PICO 25/1-4/6
 Grundfos ALPHA 2.1 25-40/60
 Laing series Ecocirc
 Biral AX 13-1



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	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	213 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	393 mm	kvs	7.00
Length product assembly	339 mm		

Pump type

without pump

Grundfos ALPHA 2.1 25-60

Wilo-Stratos PICO 25/1-6

Item No.

1357020

1357027

1357029

Regumat S-180 DN 32 with pump ball valve

With universal thermal insulation of modular construction.
 Commercially available pumps (DN 32, length 180 mm, G 2 external thread) can be installed.



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		

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.
 Commercially available pumps (DN 32, length 180 mm, G 2 external thread) can be installed.



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		

Pump type

	Item No.
without pump	1355070
Grundfos MAGNA3 32-100	1355080
Wilo-Stratos 30 1-10	1355081

Regumat S-220 DN 40

With universal thermal insulation of modular construction.
 Commercially available pumps (DN 40, length 220 mm, flanged connection PN 10) can be installed.



Nominal size	DN 40	Centre distance	180 mm
Connection heating circuit	G 2 internal thread	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Pump length	220 mm	Pump ball valve	Yes
Length	340 mm	Pump ball valve with drain/flush valve	Yes
Width	428 mm	Insert for pressure relief device	No
Height	850 mm	kvs	29.30
Length product assembly	797 mm		

Pump type

Item No.

without pump	1358240
Wilo Stratos Maxo 40/0.5-8	1358251
Grundfos MAGNA3 40-100F	1358252

Regumat S-280 DN 50

With universal thermal insulation of modular construction.
 Suitable for the installation of the following high-efficiency pumps:
 Wilo Stratos Maxo 50/0.5-12
 Grundfos MAGNA3 50-120F



Nominal size	DN 50	Centre distance	180 mm
Connection heating circuit	G 2 internal thread	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Pump length	280 mm	Pump ball valve	Yes
Length	340 mm	Pump ball valve with drain/flush valve	Yes
Width	428 mm	Insert for pressure relief device	No
Height	850 mm	kvs	29.30
Length product assembly	797 mm		

Pump type

Item No.

without pump	1358540
Wilo Stratos Maxo 50/0.5-12	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. Depending on the model, a pump ball valve is also included for easy pump replacement without draining system parts.

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
		Temperature control	Electronic
		Safety temperature monitor	No
Supply pipe	Right	Max. operating temperature	95 °C
Optional supply pipe change	Yes	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Shutoff	Yes		
Check valve	Yes		



Regumat M3-130 DN 20

With universal thermal insulation of modular construction.

Commercially available pumps (DN 20, length 130 mm, G 1 external thread) can be installed.



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	Actuator	Yes
Length product assembly	315 mm	kvs	5.10

Pump type

Pump type	Item No.
without pump	1355251
Grundfos ALPHA 2.1 15-60	1355257
Wilo-Stratos PICO 15/1-6	1355259

Regumat M3-130 DN 25



With thermal insulation.

Commercially available pumps (DN 25, length 130 mm, G 1 ½ external thread) can be installed.

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	Actuator	Yes
Length product assembly	311 mm	kvs	4.30

Pump type

without pump

Item No.

1355271

Regumat M3-180 DN 25 with pump ball valve



With universal thermal insulation of modular construction.

Suitable for the installation of the following high-efficiency pumps:

- Wilo-Yonos PARA
- Wilo-Stratos PICO 25/1-4/6
- Grundfos ALPHA 2.1 25-40/60
- Laing series Ecocirc-Baureihe
- Biral AX 13-1

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	Yes
Pump length	180 mm	Pump ball valve	Yes
Length	213 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	465 mm	kvs	5.50
Length product assembly	411 mm		

Pump type

without pump

without pump

Wilo PARA 25-180/6-43/SC-6

Grundfos ALPHA 2.1 25-60

Actuator

No

Yes

Yes

Yes

Item No.

1357265 

1357270

1357272

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	200 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	513 mm	Actuator	Yes
Length product assembly	460 mm	kvs	4.30

Pump type

without pump

Item No.

1356250

Regumat M3-180 DN 25 - compact design

With universal thermal insulation of modular construction. Suitable for the installation of the following high-efficiency pumps:

Wilo-Yonos PARA
 Wilo-Stratos PICO 25/1-4/6
 Grundfos ALPHA 2.1 25-40/60
 Laing series Ecocirc
 Biral AX 13-1



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	Yes
Pump length	180 mm	Pump ball valve	No
Length	213 mm	Pump ball valve with drain/flush valve	No
Width	248 mm	Insert for pressure relief device	No
Height	393 mm	Actuator	Yes
Length product assembly	339 mm	kvs	5.50

Pump type

without pump

Grundfos ALPHA 2.1 25-60

Wilo-Stratos PICO 25/1-6

Item No.

1357220

1357227

1357229

Regumat M3-180 DN 32 with pump ball valve

With universal thermal insulation of modular construction.
 Commercially available pumps (DN 32, length 180 mm, G 2 external thread) can be installed.



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	Actuator	Yes
Length product assembly	445 mm	kvs	8.10

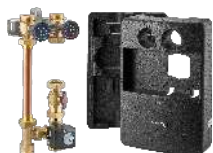
Pump type

Item No.

without pump	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.
 Commercially available pumps (DN 32, length 180 mm, G 2 external thread) can be installed.



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	Actuator	Yes
Length product assembly	540.5 mm	kvs	15.00

Pump type

Item No.

without pump	1355270
Grundfos MAGNA3 32-100	1355280
Wilo-Stratos 30 1-10	1355281

Regumat M3-220 DN 40



With universal thermal insulation of modular construction.

Commercially available pumps (DN 40, length 220 mm, flanged connection PN 10) can be installed.

Nominal size	DN 40	Centre distance	180 mm
Connection heating circuit	G 2 internal thread	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Pump length	220 mm	Pump ball valve	Yes
Length	340 mm	Pump ball valve with drain/flush valve	Yes
Width	428 mm	Insert for pressure relief device	No
Height	850 mm	Actuator	Yes
Length product assembly	797 mm	kvs	24.80

Pump type

	Item No.
without pump	1358340
Wilo Stratos Maxo 40/0.5-8	1358351
Grundfos MAGNA3 40-100F	1358352

Regumat M3-280 DN 50



With universal thermal insulation of modular construction.

Suitable for the installation of the following high-efficiency pumps:

Wilo Stratos Maxo 50/0,5-12

Grundfos MAGNA3 50-120F

Nominal size	DN 50	Centre distance	180 mm
Connection heating circuit	G 2 internal thread	Universal thermal insulation	Yes
Connection heat generator	G 2 external thread flat sealing	Wall bracket	No
Pump length	280 mm	Pump ball valve	Yes
Length	340 mm	Pump ball valve with drain/flush valve	Yes
Width	428 mm	Insert for pressure relief device	No
Height	850 mm	Actuator	Yes
Length product assembly	797 mm	kvs	24.80

Pump type

	Item No.
without pump	1358640
Wilo Stratos Maxo 50/0.5-12	1358651
Grundfos MAGNA3 50-120F	1358652

Regumat S/M3 - Accessories and spare parts

Wall bracket



Description	Item No.
For Regumat DN 25 (manufactured from 2015), with fixing parts	1357097
For Regumat DN 25 (manufactured until 2015), with fixing parts	1352096
For Regumat DN 40/50, with fixing parts	1352098

Heat meter installation set



Description	Item No.
For Regumat S/M3-180 DN 25 with pump ball valve (manufactured from 2015)	1352250
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



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 since 2015), with union nuts and seals	1357087

Earthing clamp

For electrical connection of metallic pipework to the equipotential bonding.



Description	Item No.
DN 20 - DN 32	1359995
DN 40 - DN 50	1359996

Heating circuit controller extension set



Description	Item No.
For Regumat-180 DN 25 (manufactured from 2015), with Regtronic RH and controller bracket	1357290

Installation relay



Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089

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



Replacement universal thermal insulation

Description	Item No.
For Regumat-180 DN 25 with pump ball valve (manufactured from 2015), with expanded metal	1357096
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

Replacement shutoff device



Description	Item No.
For Regumat DN 25 (manufactured until 2015)	1353181

3.1



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

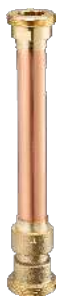


Description	Item No.
For Regumat DN 25 (manufactured until 2015), preset to 200 mbar	1353390

Replacement thermometer



Description	Item No.
For Regumat and Regusol stations DN 20, blue	1351701
For Regumat and Regusol stations DN 20, red	1351702
For Regumat-130 DN 25 and Regumat DN 32/40/50, blue	1355093
For Regumat-130 DN 25 and Regumat DN 32/40/50, red	1355094
For Regumat-180 DN 25 (manufactured until 2015), blue	1356293
For Regumat-180 DN 25 (manufactured until 2015), red	1356294
For Regumat DN 25 (manufactured from 2015), DN 32 (manufactured from 2013) and DN 32 plus, blue	1357098
For Regumat DN 25 (manufactured from 2015), DN 32 (manufactured from 2013) and DN 32 plus, red	1357099



Replacement flanged pipe

With check valve.

Description	Item No.
For Regumat-180 DN 25 with pump ball valve (manufactured from 2015)	1357091
For Regumat-180 DN 25 with pump ball valve, length 279 mm	1352272
For Regumat-130 DN 25, length 212 mm	1352296
For Regumat-180 DN 25, length 180 mm	1352273
For Regumat-180 DN 25, length 361 mm	1352297



Replacement pump ball valve

Description	Item No.
For Regumat DN 25 with pump ball valve (manufactured from 2015)	1357089



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
For Wilo PARA high-efficiency pump with right-angle plug	1358172 ::



Replacement three-way mixing valve

Description	Item No.
For Regumat M3 DN 20	1351704
For Regumat M3 DN 25 (manufactured from 2015)	1357092
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 32 (manufactured from 2013)	1355299



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	Item No.
For three-way mixing valve DN 25 (manufactured from 2015)	1357095
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	1350294
For four-way mixing valve DN 25, for ESBE actuators (without adapter), with seal set	1350295

Replacement seal set



Description	Item No.
For three-way mixing valve DN 25 (manufactured from 2015)	1357094
For three-way mixing valve DN 25 (manufactured until 2015)	1350289
For four-way mixing valve DN 25	1350299



Replacement adapter

Description	Item No.
For Oventrop actuators (manufactured from 2015), transparent	1357088
For Oventrop actuators (manufactured until 2015), black	1350296
For Oventrop actuators (manufactured until 2005), transparent	1350297



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 20/25/32, 230 V (three point), operating time 35 s, torque 5 Nm	1361098
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, operating time 140 s, torque 5 Nm, with fixed flow temperature value control	1351055
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



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

For actuators without mounting set, for installation in Regumat M3 DN 25 (manufactured from 2015)

Item No.

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.

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 temperature controller and a thermal insulation. Depending on the model, a pump ball valve is also included for easy pump replacement without draining system parts.

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	Fixed value control	Thermal insulation	Yes
Nominal size	DN 25	Shutoff	Yes
Connection heating circuit	G 1 1/2 external thread, flat sealing	Pump ball valve with drain/flush valve	No
Connection heat generator	G 1 1/2 external thread flat sealing	Insert for pressure relief device	No
Supply pipe	Right	Check valve	Yes
Width	248 mm	Three-way mixing valve	Yes
Centre distance	125 mm	Safety temperature monitor	Yes
		Max. operating pressure	10 bar
		Leak tested	Yes

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

without pump

Item No.

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		

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	Universal thermal insulation	Yes
Optional supply pipe change	No	Wall bracket	No
Length	200 mm	Pump ball valve	Yes
Height	512 mm	Temperature control	Without
Length product assembly	460 mm	kvs	2.20
Actuator	No	Max. operating temperature	95 °C

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 electronic fixed flow temperature value control

With universal thermal insulation of modular construction.
 Suitable for the installation of the following high-efficiency pumps:

- Wilo-Yonos PARA
- Wilo-Stratos PICO 25/1-4/6
- Grundfos ALPHA 2.1 25-40/60
- Laing series Ecocirc-Baureihe
- Biral AX 13-1



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		

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

Earthing clamp

For electrical connection of metallic pipework to the equipotential bonding.



Description

DN 20 - DN 32

Item No.

1359995



Replacement thermal insulation

With one-piece front insulation shell.



Description

For Regumat-130 DN 25

For Regumat-180 DN 25 with pump ball valve

Item No.

1355090

1355091

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	Item No.
For Regumat DN 25 (manufactured until 2015)	1353181

Replacement thermometer



Description	Item No.
For Regumat-130 DN 25 and Regumat DN 32/40/50, blue	1355093
For Regumat-130 DN 25 and Regumat DN 32/40/50, red	1355094
For Regumat-180 DN 25 (manufactured until 2015), blue	1356293
For Regumat-180 DN 25 (manufactured until 2015), red	1356294

3.1

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 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

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	Item No.
Capillary tube length 2 m, control range 20 - 50 °C	1142861
Capillary tube length 2 m, control range 30 - 60 °C	1142862
Capillary tube length 2 m, control range 40 - 70 °C	1142863
Capillary tube length 2 m, control range 50 - 80 °C	1142864



3.1 Stations for heating circuit and cooling circuit connection

Regumat Stations for solid fuel boilers **408**

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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
		Check valve	Yes
Optional supply pipe change	No	Three-way mixing valve	Yes
Width	248 mm	Safety temperature monitor	No
Centre distance	125 mm	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Shutoff	Yes		
Pump ball valve with drain/flush valve	No		

Regumat RTA-130 VR DN 25 with supply on the right hand side

With thermal insulation.



Nominal size	DN 25	Universal thermal insulation	No
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
		Actuator	No
Pump length	130 mm	Temperature control	Thermostatic
Supply pipe	Right	Control range	40 up to 70 °C
Length	197 mm	kvs	3.90
Height	364 mm	Max. operating temperature	85 °C
Length product assembly	321 mm		

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	Universal thermal insulation	No
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
Pump length	130 mm	Actuator	No
Supply pipe	Left	Temperature control	Thermostatic
Length	197 mm	Control range	40 up to 70 °C
Height	364 mm	kvs	3.90
Length product assembly	321 mm	Max. operating temperature	85 °C

Pump type

Wilo PARA 25-130/6-43/SC-3

Item No.

1354798

Regumat RTA-130 TOP DN 25 with connection from the top

With thermal insulation.



Nominal size	DN 25	Universal thermal insulation	No
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
Pump length	130 mm	Actuator	No
Supply pipe	Right	Temperature control	Thermostatic
Length	197 mm	Control range	40 up to 70 °C
Height	364 mm	kvs	3.90
Length product assembly	321 mm	Max. operating temperature	85 °C

Pump type

Wilo PARA 25-130/6-43/SC-3

Item No.

1354783

Regumat RTA-180 DN 25

With thermal insulation.



Nominal size	DN 25	Universal thermal insulation	No
Connection heating circuit	G 1 ½ external thread, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
Pump length	180 mm	Actuator	No
Supply pipe	Right	Temperature control	Thermostatic
Length	211 mm	Control range	40 up to 70 °C
Height	513 mm	kvs	3.90
Length product assembly	460 mm	Max. operating temperature	85 °C

Pump type

without pump

Wilo PARA 25-180/6-43/SC-6

Item No.

1354692

1354691

Regumat RTA-180 DN 25

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	No
Connection heat generator	G 1 ½ external thread flat sealing	Pump ball valve	No
Pump length	180 mm	Actuator	No
Supply pipe	Right	Temperature control	Thermostatic
Length	200 mm	Control range	40 up to 70 °C
Height	414 mm	kvs	3.90
Length product assembly	371 mm	Max. operating temperature	95 °C

Pump type

Item No.

without pump	1354580
Wilo PARA 25-180/6-43/SC-6	1354587

Regumat RTAF-180 DN 25 with pump ball valve and electronic RTA fixed value control (return temperature increase)

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	Actuator	Yes
Supply pipe	Right	Temperature control	Electronic
Length	213 mm	Control range	0 up to 95 °C
Height	465 mm	kvs	5.50
Length product assembly	411 mm	Max. operating temperature	95 °C

Pump type

Item No.

without pump	1354560
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Regumat RTA-180 DN 32

With thermal insulation.



Nominal size	DN 32	Universal thermal insulation	No
Connection heating circuit	G 2 external thread, flat sealing	Wall bracket	No
Connection heat generator	G 2 external thread flat sealing	Pump ball valve	No
Pump length	180 mm	Actuator	No
Supply pipe	Right	Temperature control	Thermostatic
Length	207 mm	Control range	40 up to 70 °C
Height	471 mm	kvs	5.30
Length product assembly	419 mm	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

Earthing clamp

For electrical connection of metallic pipework to the equipotential bonding.



Description

DN 20 - DN 32

Item No.

1359995

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	Item No.
For Regumat-130 DN 25 and Regumat DN 32/40/50, blue	1355093
For Regumat-130 DN 25 and Regumat DN 32/40/50, red	1355094
For Regumat-180 DN 25 (manufactured until 2015), blue	1356293
For Regumat-180 DN 25 (manufactured until 2015), red	1356294





3.1 Stations for heating circuit and cooling circuit connection

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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.
	2	1351482
	3	1351483

Distributor for Regumat DN 25

Wall bracket available as accessory.



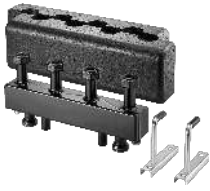
Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Max. flow rate	4 m ³ /h
Centre distance	125 mm	Recommended range of application (ΔT = 20 K)	95 kW
Body material	Bronze	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	4 bar
Material thermal insulation	Expanded polypropylene (EPP)		

	Heating circuits	Item No.
	2	1351571



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 m³/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.
	2	1351582
	3	1351583
	4	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 m³/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

Modular heating distribution system.
 Extendable to up to six heating circuits by means of the extension module.
 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	Brass	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	4 bar
Material thermal insulation	Expanded polypropylene (EPP)		

	Heating circuits	Item No.
	2	1351471
	3	1351472

Extension module for Regumat DN 25

In combination with the modular distributor for Regumat DN 25 for extension to up to six heating circuits.
 Wall bracket available as accessory.

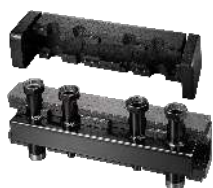


Connection heating circuit	G 1 ½ union nut, flat sealing	Wall bracket	No
Connection heat generator	G 1 ½ external thread flat sealing	Max. flow rate	4 m ³ /h
Centre distance	125 mm	Recommended range of application (ΔT = 20 K)	95 kW
Body material	Brass	Max. operating temperature	110 °C
Thermal insulation	Yes	Max. operating pressure	4 bar
Material thermal insulation	Expanded polypropylene (EPP)		

	Heating circuits	Item No.
	1	1351470

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)	Item No.
2	Expanded polypropylene (EPP)	9	210	1351672
3	Expanded polypropylene (EPP)	9	210	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 (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.
2	1351692
3	1351693
4	1351694

HydroFixx Hydraulic separator / distributor combination

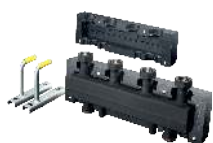
HydroFixx for Regumat DN 20



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	Item No.
	2	1351698
	3	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

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

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
---	---------

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	Item No.
From distributor DN 25 to Regumat DN 20, 2-fold	1351654
From distributor DN 25 to Regumat DN 32 without pump ball valve	1351651
From distributor DN 32 to Regumat DN 25	1351652
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

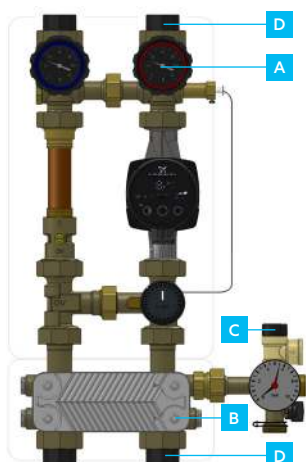


Description

For Regumat heat exchanger item no. 1351790/1351791, made of expanded polypropylene
 For Regumat heat exchanger item no. 1351792/1351793, made of expanded polypropylene

Item No.

1359591
 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.

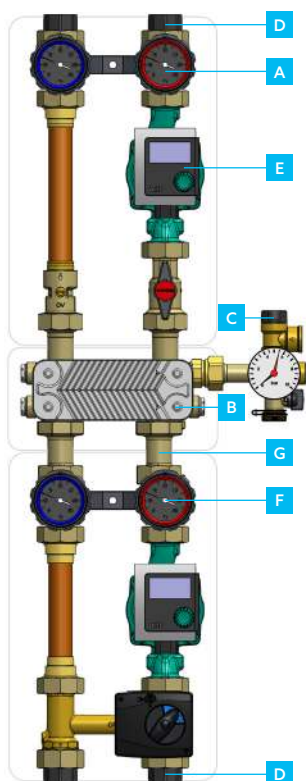
C Safety group set

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

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

Please note:
 When swapping the supply,
 both pumps must always be
 changed.

F Regumat M3-180 DN 25

with pump Wilo-Stratos
 PICO 25/1-6 RG

1357229

Delivered with supply on the
 right hand side.

G Connection piece set

1351597

Installation dimensions:
 H = 960 mm, W = 250 mm



Regumat Tailpipe sets

Regumat Tailpipe set DN 25

For connection to Regumat DN 25.



Description	Item No.
Threaded tailpipe set Rp 1, G 1 1/2 union nut, 2-fold	1350457
Union nut G 1 1/2, 2-fold	1350450

Regumat Tailpipe set DN 32

For connection to Regumat DN 32.



Description	Item No.
Threaded tailpipe set Rp 1 1/4, G 2 union nut, 2-fold	1350476
Union nut G 2, 2-fold	1350470
Coupling G 2 union nut (2 x), for connection to Regumat DN 32	1352088

Regumat Tailpipe set DN 40/50

For connection to Regumat DN 40/50.



Description	Item No.
Coupling R 2 external thread x G 2 union nut (1 x), for connection to Regumat DN 40 / 50	1352089

Regtronic Electronic controllers



Regtronic RH Weather-compensated heating circuit controller for variable/constant temperature heating circuit

Compatible with data loggers CS-BS-6 and CS-BS-1 as well as Regtronic KM-TCP communication module. 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 AC	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	1152080
1 x Outdoor sensor	
1 x Sensor attached to the pipe	
1 x Storage cylinder sensor	
1 x Outdoor sensor	1152083
1 x Sensor attached to the pipe	
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

For Regumat-180 DN 25 (manufactured from 2015), with Regtronic RH and controller bracket

Item No.

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 AC	Product compatible to	Regtronic RH
Sensor inputs	6		Regtronic RM
Solid-state relays	4		Regtronic RS
Potential-free relays	1		

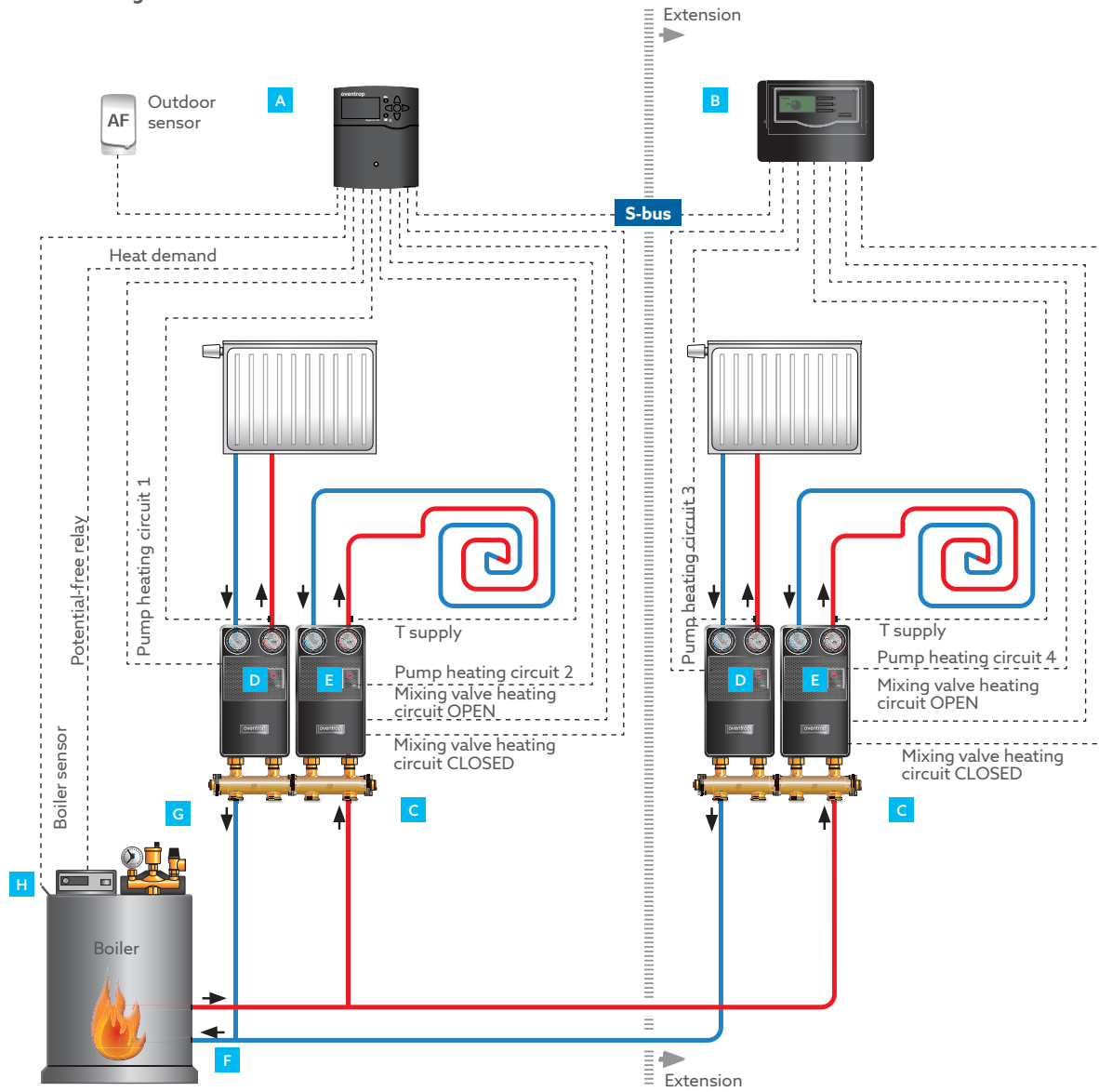
Scope of delivery

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 data loggers 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 AC	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			5.0	VIII
		1 x Outside temperature sensor 1152099				

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
---------------	---------



Regtronic KM-BACnet IP Communication module

For integration of a controller into the building automation system BACnet IP.



Description

Wall mounting

Item No.

1159098

Installation relay



Description

For the connection of high-performance pumps (> 1 A)

Item No.

1152089

Outside temperature sensor

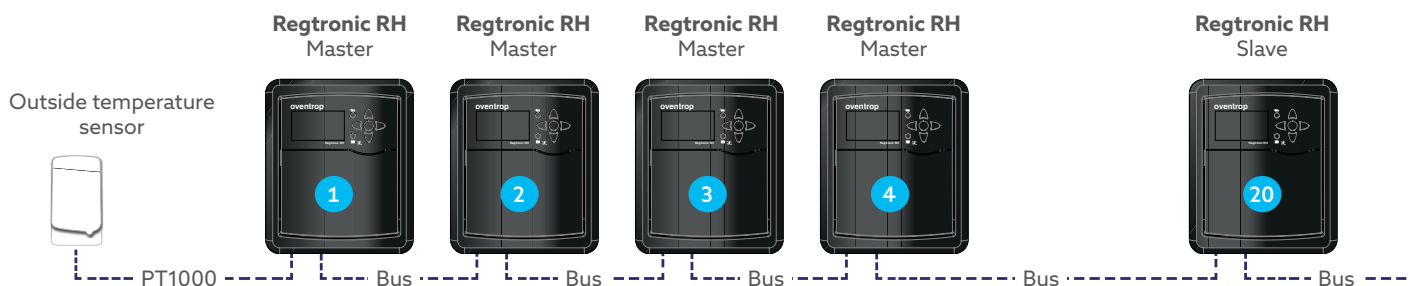


Description

For outside temperature measurement, PT 1000 sensor element, 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 temperature sensor PT 1000



Description

For room temperature measurement, PT 1000 sensor element, 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, PT 1000 sensor element, 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, PT 1000 sensor element, surface mounting

Item No.

1152087



Sensor LW TH Temperature sensor

Suitable for all Oventrop controllers.

Description

For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, PT 1000 sensor element, 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, PT 1000 sensor element, continuous temperature range up to 180 °C, length 1.5 m

1369095



ClimaCon F 90 Room thermostat (heating only/cooling only)

Tension

230 V AC

Control

PWM

Suitable for

Electrothermal actuators "normally closed" (heating)
Electrothermal actuators "normally open" (cooling)

Item No.

1155009



ClimaCon F 210 Room thermostat (heating only/cooling only)

Tension

230 V AC

Control

Two point / PWM

Suitable for

Electrothermal actuators (two point) "normally closed"

Item No.

1155021

Connection of the boiler and storage cylinder to the pipework

Connection elbow



Description	Item No.
2 x G 1 union nut, 88 x 35 mm	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 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
2 x G 1 union nut, 88 x 35 mm, with Optiflex fill and drain ball valve	1359073

Double fitting



Description	Item No.
2 x G 1 union nut, 30 mm	1359085
G 3/4 internal thread x G 3/4 union nut, 19.5 mm	1359086

Check valve



Description	Item No.
G 1 external thread x G 1 1/2 pump flange, 31 mm	1359070

T-piece



Description	Item No.
G 1 x G 1 x G 1 union nut	1359080
G 1 x G 1 union nut x G 1	1359081



3.1

Pump connecting piece



Description	Item No.
G 1 1/2 internal thread x G 1 external thread, 32 mm	1359090
G 1 1/2 internal thread x G 1 union nut, 32 mm	1359091

Double nipple



Description	Item No.
R 1 x G 1 external thread, 33 mm	1359094

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	Item No.
DN 20, Rp 3/4 internal thread, PN 10, brass, with lead sealing device	1089006
DN 20, Rp 1 internal thread, PN 10, brass, with lead sealing device	1089008
DN 25, Rp 1 internal thread, PN 10, brass, with lead sealing device	1089052
DN 32, Rp 1 1/4 internal thread, PN 10, brass, with lead sealing device	1089010
DN 40, Rp 1 1/2 internal thread, PN 10, brass, with lead sealing device	1089012

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 3/4 internal thread x G 3/4 external thread	1088806

Pump check valves



Pump check valve SVE

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 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



Pump 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



Pump 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



Pump 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

3.1

**Pump 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

Heating system filling stations



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

DN 15 with couplings with G 3/4 external thread, PN 10

Item No.

1055004

Heating system filling stations - Accessories and spare parts



Replacement system separator cartridge

Description

For heating system filling station, DN 15

Item No.

1055095



Replacement pressure reducer cartridge

Description

For heating system filling station, DN 15

Item No.

1055096



3.2 Stations for solar thermal energy

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3.2 Stations for solar thermal energy

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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
Length	188 mm	Measuring range*	2 up to 15 l/min
Width	150 mm	Fill and drain cock	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	Height	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	Height	425 mm
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Pump type

Grundfos UPM3 W3 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 stations 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 3/4 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	365 mm
Connection solar circuit	G 3/4 external thread with Eurocone	Centre distance	100 mm
Connection storage cylinder	G 3/4 external thread with Eurocone	Measuring range*	2 up to 14 l/min
Pump length	130 mm	Fill and drain cock	Yes
Length	145 mm	Retrofitting controller location	No

Pump type

Grundfos UPM3 W3 Solar 15-75 PWM

Item No.

1360033

Regusol SH-130 DN 25



Version	Two pipe	Width	250 mm
Nominal size	DN 25	Height	375 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	130 mm	Fill and drain cock	Yes
Length	195 mm	Retrofitting controller location	Yes

Pump type

Grundfos UPM3 W3 Solar 25-75 PWM

Item No.

1360063

Regusol SH-180 DN 25



Version	Two pipe	Width	250 mm
Nominal size	DN 25	Height	425 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 cock	Yes
Length	195 mm	Retrofitting controller location	Yes

Pump type

Grundfos UPM3 W3 Solar 25-75 PWM

Item No.

1368064

Regusol SH-180 DN 32



Version	Two pipe	Width	350 mm
Nominal size	DN 32	Height	530 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 cock	No
Length	221 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 stations 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 ¾ 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 cock	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	Width	200 mm
Connection solar circuit	G ¾ external thread with Eurocone	Height	365 mm
Connection storage cylinder	G ¾ external thread with Eurocone	Measuring range*	2 up to 14 l/min
Pump length	130 mm	Retrofitting controller location	No
Length	145 mm	Max. operating pressure	6 bar

Pump type

Grundfos UPM3 W3 Solar 15-75 PWM

Item No.

1360573

Regusol LH-130 DN 25



Nominal size	DN 25	Length	195 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Width	250 mm
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Height	375 mm
Pump length	130 mm	Retrofitting controller location	Yes
		Max. operating pressure	6 bar

Pump type


Pump type	Measuring range* (l/min)	Item No.
Grundfos UPM3 W3 Solar 25-75 PWM	2 up to 15	1360556
Wilo PARA ST 25-130/7-50/iPWM	2 up to 15	1360557
Wilo PARA ST 25-130/8-75/iPWM	7 up to 30	1360558

Regusol LH-180 DN 25



Nominal size	DN 25	Length	195 mm
Connection solar circuit	G 1 external thread for Regusol compression fittings	Width	250 mm
Connection storage cylinder circuit	G 1 external thread for Regusol compression fittings	Height	425 mm
Pump length	180 mm	Retrofitting controller location	Yes

Pump type

Pump type	Measuring range* (l/min)	Max. operating pressure (bar)	Item No.
without pump	2 up to 15	6	1360850 
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 W3 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 stations 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
Length	195 mm	Venting	Yes
Width	250 mm	Fill and drain cock	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	Flow rate indicator	Yes
Height	375 mm	Measuring range*	2 up to 15 l/min
Volume flow sensor	No	Max. operating pressure	6 bar

Pump type

Wilo PARA ST 25-130/7-50/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
Height	375 mm	Measuring range*	2 up to 40 l/min
Volume flow sensor	Vortex	Max. operating pressure	6 bar

Pump type

Wilo PARA ST 25-130/7-50/iPWM

Item No.

1360394

Regusol ELH-180-RC DN 25

With Regtronic RC electronic controller.



Pump length	180 mm	Flow rate indicator	Yes
Height	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 electronic 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
Connection storage cylinder circuit	G 1 external thread, flat sealing	Safety valve	Yes
Connection expansion tank	G 3/4 external thread flat sealing	Pressure gauge	Yes
Pump length	130 mm	Venting	Yes
Length	265 mm	Volume flow sensor	Vortex
Width	500 mm	Flow rate indicator	No
Height	860 mm	Fill and drain cock	Yes
Thermal insulation	Yes	Electronic controller	Yes
Wall bracket	Yes	Max. operating temperature	120 °C
		Short-term starting temperature	160 °C



Regusol X-Uno 25 with one storage cylinder circuit connection

Pump type

Wilco PARA ST 15-130/7-50/iPWM2-6 (collector circuit)
Wilco PARA 15-130/7-50/iPWM2-6 (storage cylinder circuit)

Item No.

1361060



Regusol X-Duo with two storage cylinder circuit connections

Pump type

Wilco PARA ST 15-130/7-50/iPWM2-6 (collector circuit)
Wilco PARA 15-130/7-50/iPWM2-6 (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 Wilo PARA ST 15-130/7-50/iPWM2-6	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

3.2



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.
Dimension refer to outer pipe diameter.



Description	Item No.
12 mm	1029652
15 mm	1029654
16 mm	1029655
18 mm	1029656
22 mm	1029657

Tailpipe set DN 32

For connection to Regusol SH-180 DN 32.



Description	Item No.
Threaded tailpipe set Rp 1¼, G 2 union nut, 2-fold	1350476

Regusol Connection nipple



Description	Item No.
For the connection of collector pipes, 2 x G 1 with cone	1369089

Locking shackle



Description	Item No.
For Regusol stations in connection with flexible pipe	1369090

Regusol Connection set



Description	Item No.
For Regusol stations DN 15 in connection with flexible pipe, DN 25 G 1 union nut and tailpipe G ¾ external thread	1369085

Flat sealing insert

For changing a conical connection into a flat sealing connection.



Description	Item No.
For Regusol stations DN 20	1369086
For Regusol stations DN 25	1659990

Quick coupling for diaphragm expansion tank



Description	Item No.
DN 20, G 3/4 internal thread x G 3/4 external thread	1088806

Safety group solar



Description	Item No.
For riser installation with safety valve 6 bar	1364248 °

Check valve

To prevent gravity circulation when the pump is switched off.
Opening pressure 20 bar, continuous operating temperature 120 °C, short-term starting temperature 160 °C.



Description	Item No.
G 1 x G 1 union nut	1364199

Flow Stop Solar check valve

To prevent gravity circulation when the pump is switched off.
Opening pressure 20 bar, continuous operating temperature 120 °C, short-term starting temperature 160 °C.



Description	Item No.
G 1 x G 1, for Regusol compression fittings	1364186 °

Regusol Vent pot

For separate connection to the collector supply.



Description	Item No.
Both sides G 1 for Regusol compression fittings	1364260

Regusol Fill and flush device



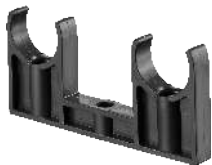
Description	Item No.
With lateral connection for filling and flushing pipes G 3/4, G 1 external thread x G 1 external thread	1363051

Regusol Refill pump



Description	Item No.
With hose connection and ball valves on the suction and pressure side	1364250

Replacement wall bracket



Description	Item No.
For Regusol-130/180 stations	1369080
For Regusol PH stations	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 stations, with connecting cable, 2-40 l/min	1364170

Replacement volume flow sensor VFD



Description	Item No.
For Regusol X stations 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 stations DN 25 (manufactured from 2015)	1364193
For Regusol-180 stations DN 25 (manufactured from 2015)	1364194
For Regusol-130 stations DN 25 (manufactured until 2015)	1364190

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/iPWM2-6	1389010

Replacement high-efficiency pump 130 mm with connection thread G 1 ½



Description	Item No.
For Regusol-130 stations DN 25, Grundfos UPM3 W3 Solar 25-75 PWM C 130	1360589
For Regusol-130 stations 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 stations DN 25, Grundfos UPM3 W3 Solar 25-75 PWM C 180	1367259
For Regusol-180 stations 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
For Wilo PARA high-efficiency pump with right-angle plug	1358172 

Replacement signal connecting cable



Description	Item No.
For Grundfos UPM 3 and Wilo-Yonos PARA	1358180

Replacement OKP Vaccum tube

Description

For OKP tube collectors

Item No.

1361290





3.2 Stations for solar thermal energy

Regtronic Electronic controllers 457

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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 data loggers CS-BS-6 and CS-BS-1.

Application	Solar	Potential-free relays	1
Operating voltage	230 V AC	PWM*	2
Sensor inputs		Further inputs	Pulse inputs V40
Solid-state relays	2		

Scope of delivery

	Item No.
1 x Collector sensor	1369549
3 x Storage cylinder sensor	



Regtronic RC-P Flexible solar controller for more complex solar thermal systems, heating of potable water and additional functions

Compatible with data logger 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 AC		FlowRotor
Sensor inputs			Grundfos Direct Sensor
Solid-state relays	3	Heat meter	2

Scope of delivery

	Item No.
1 x Collector sensor	1369551
3 x Storage cylinder sensor	



Regtronic RM Multifunction controller for the control of weather-compensated variable/constant temperature heating circuits as well as solar thermal systems

Compatible with data loggers 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 AC	Heat meter	7
Sensor inputs	12	Product compatible to	Regtronic EM
Solid-state relays	13		
Potential-free relays	1		

Scope of delivery

Item No.

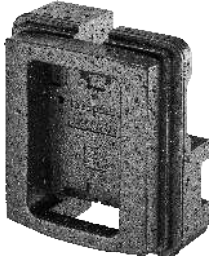
6 x Storage cylinder sensor
2 x Collector sensor

1369555

ErP classification Regtronic RM

Item no.	Controller	Required accessories	Boiler control		ErP %	Class
			Modulating (0-10 V)	On/Off		
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				
		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 Signal converter (PWM/0-10 V)

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, PT 1000 sensor element, splash-proof housing, surface mounting

Item No.

1152099



Room temperature sensor PT 1000

Description

For room temperature measurement, PT 1000 sensor element, 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, PT 1000 sensor element, 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, PT 1000 sensor element, surface mounting

Item No.

1152087



Sensor LW TH Temperature sensor

Suitable for all Oventrop controllers.

Description

For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093



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



3.3 Stations for local and district heating

Regudis H Transmission stations for local and 463 district heating networks

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3.3 Stations for local and district heating

Regudis H Transmission stations for local and district heating networks 463

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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		

3.3



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		

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		

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 HT switching module	G 1 ½ external thread
Width	545 mm	Connection heating network	G 1 external thread
Height	1074 mm	Max. primary volume flow	1,300 l/h
Connection heating circuit	G ¾ external thread	Max. primary differential pressure	4 bar

Nominal size

DN 20

Item No.

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 HT switching module	G 1 ½ external thread
Width	630 mm	Connection heating network	G 1 ½ external thread
Height	1182 mm	Max. primary volume flow	4,800 l/h
Connection heating circuit	G 1 ¼ external thread	Max. primary differential pressure	6 bar

Nominal size

DN 25

Item No.

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 safety temperature monitor.

Length	295 mm	Connection HT switching module	G 1 ½ external thread
Width	545 mm	Connection heating network	G 1 external thread
Height	1074 mm	Max. primary volume flow	1,300 l/h
Connection heating circuit	G ¾ external thread	Max. primary differential pressure	4 bar

Nominal size

DN 20

Item No.

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 safety temperature monitor.

Length	330 mm	Connection HT switching module	G 1 ½ external thread
Width	630 mm	Connection heating network	G 1 ½ external thread
Height	1182 mm	Max. primary volume flow	4,800 l/h
Connection heating circuit	G 1 ¼ external thread	Max. primary differential pressure	6 bar

Nominal size

DN 25

Item No.

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, safety temperature monitor and connection set.

Length	295 mm	Connection HT switching module	G 1 ½ external thread
Width	545 mm	Connection heating network	G 1 external thread
Height	1613 mm	Max. primary volume flow	1,300 l/h
Connection heating circuit	G ¾ external thread	Max. primary differential pressure	4 bar

Nominal size

DN 20

Item No.

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, safety temperature monitor and connection set.

Length	330 mm	Connection HT switching module	G 1 ½ external thread
Width	630 mm	Connection heating network	G 1 ½ external thread
Height	1706 mm	Max. primary volume flow	4,800 l/h
Connection heating circuit	G 1 ¼ external thread	Max. primary differential pressure	6 bar

Nominal size

DN 25

Item No.

1393037

3.3



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 ¾ 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 ½ 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 ¼ 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, safety temperature monitor 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 ¾ 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, safety temperature monitor 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	1365 mm	Max. primary differential pressure	6 bar
Connection heating circuit	G 1 ¼ 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, R ¾ external thread, inlet pressure 1.5 bar	1399091
Nominal volume 50 l, R ¾ external thread, inlet pressure 1.5 bar	1399092



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 AC	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	Item No.
For Regudis H, electrothermal 24 V DC, 0 - 10 V, NC	1012954



3.4 Stations for hot potable water preparation

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3.4 Stations for hot potable water preparation

Regumaq X Fresh water stations for central hot potable water preparation 471

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Our Mr. Clean.

Reliable potable water control.



OUR REGUMAQ X-45 FRESH WATER STATIONS

- + Compact and powerful
- + Intuitive operation
- + Discharge capacity up to 45 l/min
- + Optional integration into building automation systems
- + Low excess temperature 5K
- + Suitable for low-temperature systems
- + One-man installation

Read more at regumaq.oventrop.com

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.

er, 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. A circulation pump can be controlled permanently, thermally or on demand.

The stations consist of a plate heat exchang-

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 quantity*	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	25 up to 75 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes		

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.

The stations consist of a plate heat exchanger, a controller with touch control panel, a circu-

lation 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 (continuous operation, timer, thermal or on demand), return water stratification or heat demand.

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 quantity*	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	20 up to 75 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes		

Regumaq X-45



Heat exchanger

	Item No.
Copper brazed	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 circulation pump Wilo PARA BZ Z 15-130/7-50/SC	1381150
For Regumaq X-25/X-45, without circulation pump	1381152

Return stratification control valve

For temperature-dependent stratification of the return water in the lower or central storage cylinder section. A temperature sensor, item number 1369095, is also required.



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

Earthing clamp

For electrical connection of metallic pipework to the equipotential bonding.



Description	Item No.
DN 20 - DN 32	1359995

Maintenance cable



Description	Item No.
For Regumaq X-45, consisting of a connecting cable (2 m) incl. 2 magnetic contacts	1381172

Strainer



Description	Item No.
Both sides flat sealing external thread, with double wire basket 250 µm, PN 25, DN 20	1141006

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



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 housing and insertion turbine, without hall effect sensor	1381164
For Regumaq X-25/X-45 and Regudis W-HTE, insertion turbine for volume flow sensor	1381165
For Regumaq X-25, hall effect sensor	1381170 ::
For Regumaq X-45, hall effect sensor	1381171 ::

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, Wilo PARA 15-130/8-75/LIN-9	1381166
For Regumaq X-25/X-45 potable water circulation set, Wilo PARA BZ Z 15-130/7-50/SC	1381168



Replacement sealing ring

Description	Item No.
For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G 3/4	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-25, cabled	1381162
For Regumaq X-45, cabled without touch control panel	1381160
For Regumaq X-45, touch control panel	1381161

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.

a controller, a circulation pump, a throttling valve with actuator, 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 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,

Circulation function	Extendable	Shutoff ball valve potable water circuit	Yes
Connection potable water circuit	G 1 ½ external thread, flat sealing	Shutoff ball valve storage cylinder circuit	Yes
Connection storage cylinder circuit	G 1 ½ 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 quantity*	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 75 °C	Max. operating pressure	10 bar
Thermal insulation	Yes	Leak tested	Yes
Safety valve potable water circuit	Yes		

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, Wilo PARA BZ Z 15-130/7-50/SC

For Regumaq X-80 potable water circulation set, Wilo-Stratos PARA Z 25/1-12 RK 180

Item No.

1381591

1381592

Shutoff unit

To prevent gravity circulation in the primary circuit (cannot be used in combination with a return water stratification).



Description

For Regumaq X-80, with Hycoccon 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

Regtronic KM-BACnet IP Communication module

For integration of a controller into the building automation system BACnet IP.



Description	Item No.
Wall mounting	1159098

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 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



Installation relay

Description	Item No.
For the connection of high-performance pumps (> 1 A)	1152089



Earthing 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	Item No.
G 1 ½ internal thread x G 1 union nut, 32 mm	1359091
G 1 internal thread x G 1 internal thread	1381585
G 1 ½ internal thread x G 1 internal thread	1381587

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

3.4

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



Replacement heat exchanger

The possibility of using copper brazed plate heat exchangers must be checked.
 Information on this is available at www.omentrop.com/to/trinkwasseranforderung.

Description	Item No.
For Regumaq X-80, 46 plates, copper brazed	1381595
For Regumaq X-80, 46 plates, copper brazed, Sealix® protective layer	1381584

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

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 32, PN 16, internal thread, brass

DN 40, PN 16, internal thread, brass

DN 50, PN 16, internal thread, brass

Item No.

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 PARA 15-130/7-50/iPWM2-6 for the primary circuit	1389095

Spacer



Description	Item No.
For Regumaq circulation pump, 2 x G 1 external thread x 130 mm	1381079 °

Replacement heat exchanger



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.
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 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/iPWM2-6	1389010

Replacement controller



Description	Item No.
For Regumaq X-30/XZ-30, Regtronic RQ	1389099

Regumaq XH - Accessories and spare parts

Retrofit set high-efficiency pumps



Description

For Regumaq XH, with electronic box, mains cable, flow switch and high-efficiency pump for the primary circuit

Item No.

1381048

Replacement proportional flow controller



Description

For Regumaq XH and Regucor WH/WHS

Item No.

1381045

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



3.4



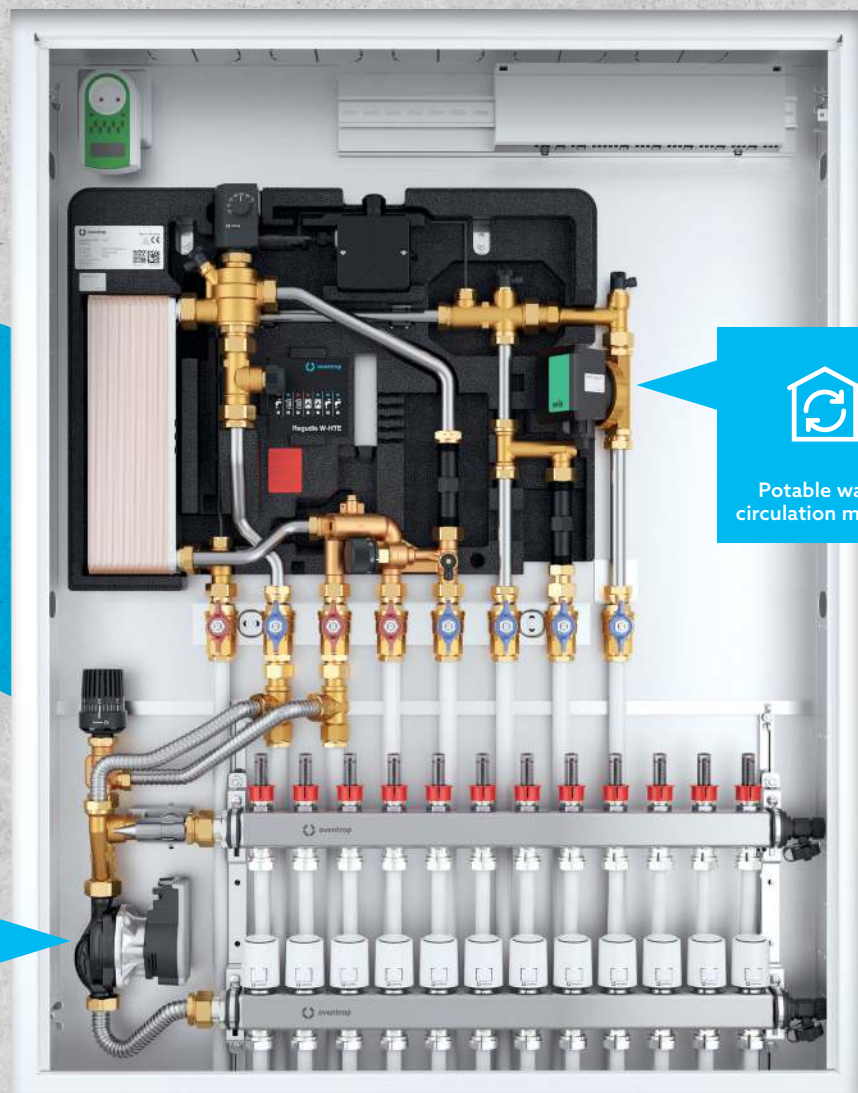
3.4 Stations for hot potable water preparation

Regidis W Dwelling stations for decentralised hot potable water preparation **488**

Regidis W-HTE Electronic dwelling stations.....	491
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Regidis W-HTU/W-HTF - Accessories and spare parts.....	513



One station. Zero complicated.



Flow temperature
control module



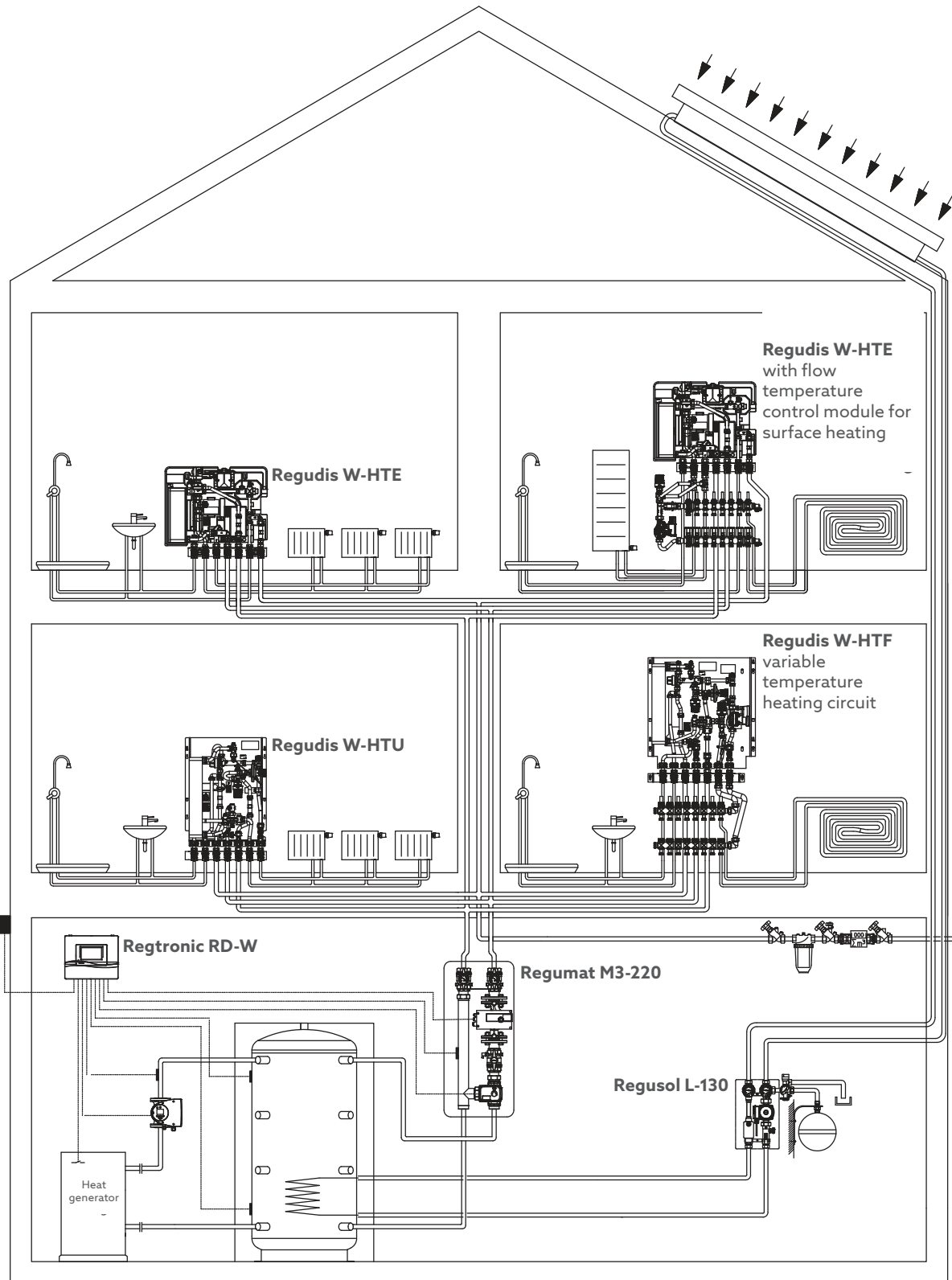
Potable water
circulation module

You want to design decentralised hot potable water preparation with our **Regudis W-HTE** system solution? Just contact us. We make it easy for you with our modular services and products:

With the **Regudis W-HTE** station, you can easily solve many of your decentralised hot potable water preparation heating requirements.

Read more at regudis.oventrop.com

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



2019



2019

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.

Heating circuit	Constant temperature, extendable	Proportional flow controller	No
Heat exchanger, double-walled	No	Integrated differential pressure regulator	Yes
Connection	G 3/4 union nut, flat sealing	Control range	40 up to 70 °C
Length	110 mm	Spacer for heat meter	Yes
Width	600 mm	Spacer for water meter	Yes
Height	455 mm	Filter insert	Yes
Supply connections	Bottom	Safety valve	No
Heating circuit separation system	Extendable	Zone valve	Yes
Circulation	Extendable	Max. operating temperature	90 °C
High temperature outlet	Yes	Max. operating pressure	10 bar
		Min. differential pressure supply	150 mbar
		Leak tested	Yes

Regudis W-HTE

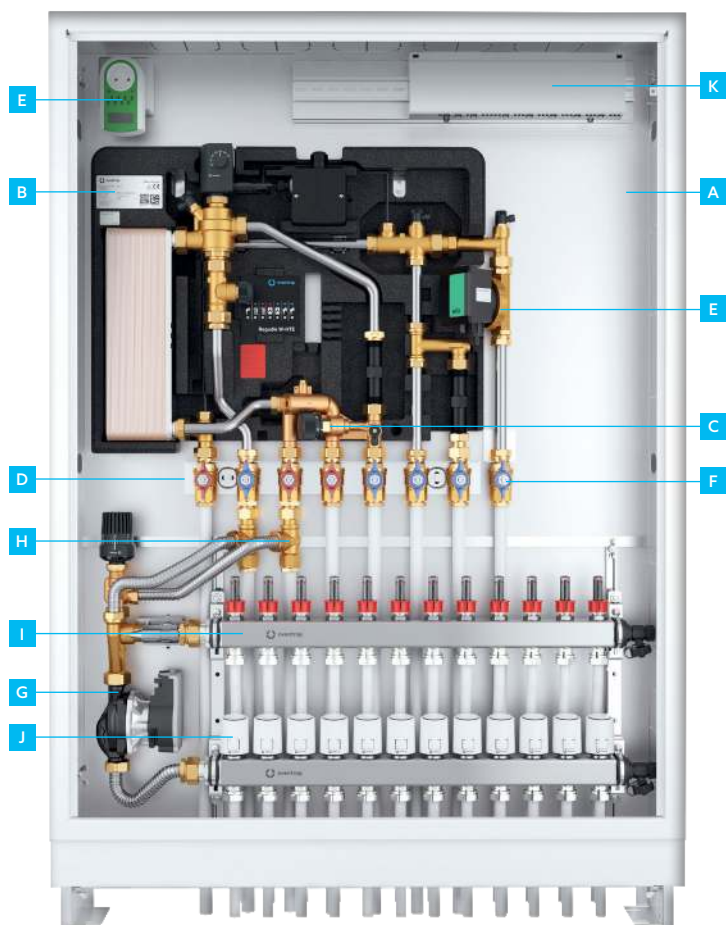


Performance range	Nominal draw-off quantity 5 K* (l/min)	Nominal draw-off quantity 15 K* (l/min)	Heat exchanger	Certification	Item No.
Performance range 1	12	21	Copper brazed	SVGW	1344030
Performance range 2	18	25	Copper brazed	SVGW	1344031
Performance range 3	25	30	Copper brazed	SVGW	1344032
Performance range 1	12	21	Copper brazed, Sealix® protective layer		1344050
Performance range 2	18	25	Copper brazed, Sealix® protective layer		1344051
Performance range 3	25	30	Copper brazed, Sealix® protective layer		1344052

Nominal draw-off quantity 5 K = Nominal draw-off quantity heating of potable water 10 °C/50 °C with ΔT 5 K (according to SFP test procedure)

Nominal draw-off quantity 15 K = Nominal draw-off quantity heating of potable water 10 °C/50 °C with ΔT 15 K (according to SFP test procedure)

STATIONS FOR HOT POTABLE WATER PREPARATION
REGUDIS W DWELLING STATIONS FOR DECENTRALISED HOT POTABLE WATER PREPARATION



Example Regudis W-HTE

Item no.

A	Cabinet	1344599
B	Regudis W-HTE	1344032
C	Derivative temperature control set	1344490
D	Ball valve connection set	1344480
E	Potable water circulation module with time switch	1344555
F	Ball valve connection set for potable water circulation module	1344484
G	Flow temperature control module	1344550
H	Heating circuit connection fitting	1344551
I	Multidis SF 12-fold Heating circuit distributor/collector	1406362
J	Aktor T 2P for individual room temperature control	1012452
K	Connecting bloc for room thermostats and actuators	1400983



3.4

Regudis W-HTE - Accessories and spare parts



Flow temperature control module

Extension module for Regudis W-HTE.

Description	Item No.
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 safety temperature monitor	1344550
For thermostatic flow temperature control of surface heating circuits, with high-efficiency pump Grundfos UPM3 Auto 15-70, thermostatic temperature controller 25 °C - 50 °C, connection set and safety temperature monitor	1344552 ▣



Heating circuit connection fitting

Extension module for Regudis W-HTE.

Description	Item No.
For the flow temperature control module, extension by a constant temperature heating circuit, set consisting of 2 T-pieces and sealing washers	1344551



Potable water circulation module

Extension module for Regudis W-HTE.

Description	Certification	Item No.
For time controlled potable water circulation, with digital time switch and Wilo Star-Z NOVA	SVGW	1344555



Instantaneous water heater module

Extension module for Regudis W-HTE.

Description	Item No.
For electronic reheating of the potable water	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

3.4

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	Item No.
For Regudis W-HTE, for shutting off all connections	1344480 °
For Regudis W-HTE, for shutting off all connections, with flushing function of the supply pipe	1344485 °
For Regudis W-HTE potable water circulation module, for shutting off the circulation pipe	1344484 °
For Regudis W-HTE, for shutting off all connections and for flexible hydronic connection from above and/or below	1344570

Connection and shutoff set



Description	Item No.
For Regudis W-HTE, for shutting off all connections	1344680 ::
For Regudis W-HTE, for shutting off all connections, with flushing function of the supply pipe	1344685 ::
For Regudis W-HTE potable water circulation module, for shutting off the circulation pipe	1344684 ::

Flushing and mounting bridge



Description	Item No.
For Regudis W-HTE, for flushing the heating system	1344489

Automatic deaerator



Description	Item No.
For Regudis W-HTE	1344460 ::

Stainless steel spacer



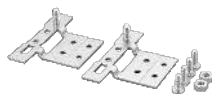
Description	Item No.
For Regudis W, for replacing the plastic spacers, G 3/4 x 110 mm	1349052

Earthing clamp



Description	Item No.
For Regudis W, for equipotential bonding of dwelling stations without cabinet	1341092

Mounting compensation



Description	Item No.
For mounting the Multidis heating circuit distributors/collectors in the cabinet if the piping does not allow it to be mounted at the intended location	1408015 ::

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 DN 20 , angle, ball valves DN 20	1404578
With Hycocon VTZ DN 20 , angle, ball valves DN 25	1404580
with Hycocon DTZ DN 20, angle, ball valves DN 25	1404682
With ball valves DN 20, angle	1405578
With ball valves DN 25, angle	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	Item No.
For Regudis W-HTE, standard model, W 700 x H 785-900 x D 110-175 mm	1344596
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 8 circuits, W 700 x H 1298-1413 x D 110-175 mm	1344598
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits (with instantaneous water heater module up to a max. of 8 circuits), W 880 x H 1298-1413 x D 110-175 mm	1344599

Tiling ready frame



Description	Item No.
For Regudis W-HTE, standard version, for flush wall mounting, W 742 x H 660 x D 25 mm	1344098

Surface-mounted cabinet



Description	Item No.
For Regudis W-HTE, standard model, W 750 x H 745-860 x D 160 mm	1344697
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 8 circuits, W 750 x H 1326-1441 x D 160 mm	1344698
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits (with instantaneous water heater module up to a max. of 8 circuits), W 880 x H 1326-1441 x D 160 mm	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, cannot be used in combination with the potable water circulation module, W 670 x H 630 x D 121 mm	1344595

Aktor T 2P Electrothermal actuator

Electronic control component for the constant temperature heating circuit.



Description	Item No.
Two point control, "normally closed", 230 V, 2 m cable	1012452



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

Electronic control component for the constant temperature heating circuit.

Tension	Control	Suitable for	Item No.
230 V AC	Two point / PWM	Electrothermal actuators (two point) "normally closed"	1155021

Safety temperature monitor

Electronic control component for the variable temperature heating circuit.



Description	Item No.
For max. limitation of the heating circuit temperature, 20 °C - 90 °C	1344583



Regtronic RH Weather-compensated heating circuit controller for variable/constant temperature heating circuit

Compatible with data loggers CS-BS-6 and CS-BS-1 as well as Regtronic KM-TCP communication module. 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 AC	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	Item No.
1 x Outdoor sensor	1152083
1 x Sensor attached to the pipe	
2 x Storage cylinder sensor	



Aktor M Electromotive actuator 230 V, connection thread M 30 x 1.5

Electronic control component for the variable temperature heating circuit.

Description	Item No.
Two point and three point control, 1.5 m cable	1012729



Remote control with room temperature sensor

Electronic control component for the variable temperature heating circuit.

Description	Item No.
For heating curve and function setting (Party, Heating circuit off), control from the living room, PT 1000 sensor element, surface mounting	1152096

Electrical connecting block for surface heating

Electronic control component for the variable temperature heating circuit.



Description	Item No.
10 control zones, heating / cooling (change-over), pump and boiler control and integrated time switch, 230 V	1400983

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

Electronic control component for the variable temperature heating circuit.



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

Aktor T 2P Electrothermal actuator

Electronic control component for the variable temperature heating circuit.



Description	Item No.
Two point control, "normally closed", 230 V, 2 m cable	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

Accessory 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

Accessory 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

Accessory for Regtronic RD-W System controller.



Description	Item No.
For outside temperature measurement, PT 1000 sensor element, splash-proof housing, surface mounting	1152099

Sensor LW TH Temperature sensor

Accessory for Regtronic RD-W System controller.



Description	Item No.
For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m	1369093
For temperature measurement and detection at collectors, PT 1000 sensor element, 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, PT 1000 sensor element, 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	Item No.
For Regudis W-HTE, with cable and plug	1344493
For Regudis W-HTE, hall effect sensor for volume flow sensor	1344499
For Regumaq X-25/X-45 and Regudis W-HTE, insertion turbine for volume flow sensor	1381165





Replacement filter insert

Description

For Regudis W-HTE

Item No.

1344495

Replacement temperature sensor potable water



Description

For Regudis W-HTE, with cable and plug

Item No.

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

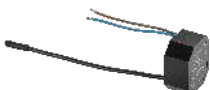
For Regumaq X-25/X-45 and Regudis W-HTE, 5-fold, for junction G 1

Item No.

1344497

1344498

Replacement power pack



Description

For Regudis W-HTE

Item No.

1344496



3.4

Replacement thermostatic temperature controller



Description	Item No.
For Regudis W-HTE flow temperature control module, with contact sensor, 25 °C - 50 °C	1344582

Replacement high-efficiency pump



Description	Item No.
For Regudis W-HTE potable water circulation module, Wilo Star-Z NOVA	1344580
For Regudis W-HTE flow temperature control module and Regudis W-HTF with variable temperature heating circuit, Wilo PARA 15-130/6-43/ SC-12	1344581

Replacement ball valve



Description	Item No.
For Regudis W ball valve connection sets, red handle	1341980
For Regudis W ball valve connections sets, blue handle	1341981

Replacement valve



Description	Item No.
For Regudis W-HTE connection and shutoff sets	1344780

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, filter inserts, 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.

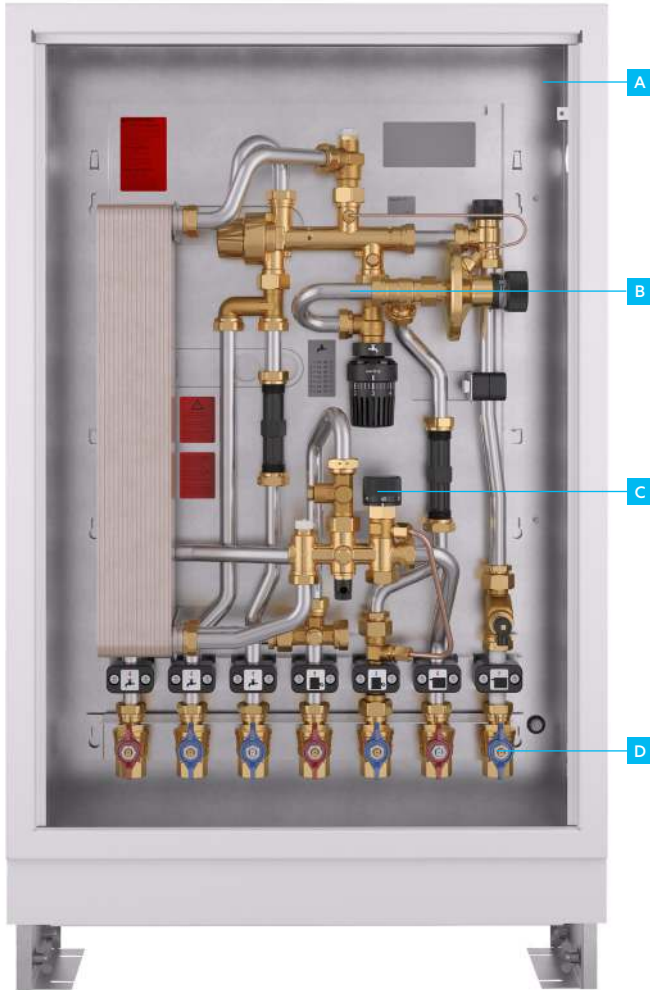
Connection	G 3/4 union nut, flat sealing	Control range	40 up to 70 °C
Height	630 mm	Filter insert	Yes
Circulation	No	Max. operating temperature	90 °C
Proportional flow controller	Yes	Leak tested	Yes



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	Certification	SVGW, ACS, WRAS
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw-off quantity 15 K* (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



Example Regudis W-HTU		Item no.
A	Flush-mounted cabinet – narrow model	1341070
B	Regudis W-HTU	1341032
C	Derivative temperature control set	1341088
D	Ball valve connection set	1341080

3.4



Regudis W-HTU without cold water outlet and spacer for water meter

Heating circuit	Constant temperature	Integrated differential pressure regulator	Yes
Heat exchanger, double-walled	No	Spacer for heat meter	Yes
Length	150 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	300 mbar

Performance range	Nominal draw-off quantity 15 K* (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, KIWA certified.

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	Certification	SVGW
Integrated differential pressure regulator	Yes		

Performance range	Nominal draw-off quantity 15 K* (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	Integrated differential pressure regulator	Yes
Heat exchanger, double-walled	No	Spacer for heat meter	Yes
Length	150 mm	Spacer for water meter	No
Width	476 mm	Safety valve	No
Supply connections	Top	Zone valve	Yes
Heating circuit separation system	No	Max. operating pressure	10 bar
High temperature outlet	Yes	Min. differential pressure supply	300 mbar

Performance range	Nominal draw-off quantity 15 K* (l/min)	Heat exchanger	Certification	Item No.
Performance range 2	15	Copper brazed	SVGW, ACS	1341274
Performance range 2	15	Nickel brazed	SVGW	1341271



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 heat meter	No
Length	150 mm	Spacer for water meter	No
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	Certification	SVGW, ACS

Performance range	Nominal draw-off quantity 15 K* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341262 °
Performance range 3	17	Nickel brazed	1341252 °



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		

Performance range	Nominal draw-off quantity 15 K* (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	Integrated differential pressure regulator	Yes
Control range heating circuit	40 up to 70 °C	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	Yes
Length	150 mm	Safety valve	Yes
Width	630 mm	Zone valve	Yes
Supply connections	Bottom	Max. operating pressure	16 bar
Heating circuit separation system	Yes	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	Certification	ACS, WRAS

Performance range	Nominal draw-off quantity 15 K* (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	Integrated differential pressure regulator	Yes
Control range heating circuit	25 up to 50 °C	Spacer for heat meter	Yes
Heat exchanger, double-walled	No	Spacer for water meter	No
Length	150 mm	Safety valve	Yes
Width	630 mm	Zone valve	Yes
Supply connections	Top	Max. operating pressure	10 bar
Heating circuit separation system	Yes	Min. differential pressure supply	300 mbar
High temperature outlet	Yes	Certification	WRAS

Performance range	Nominal draw-off quantity 15 K* (l/min)	Heat exchanger	Item No.
Performance range 3	17	Copper brazed	1341372



Regudis W-HTU Basic with double-walled heat exchanger

Without differential pressure regulator, cold water outlet dwelling and spacer for water meter.
 With double-walled heat exchanger, KIWA certified.

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 quantity 15 K* (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, filter inserts, 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

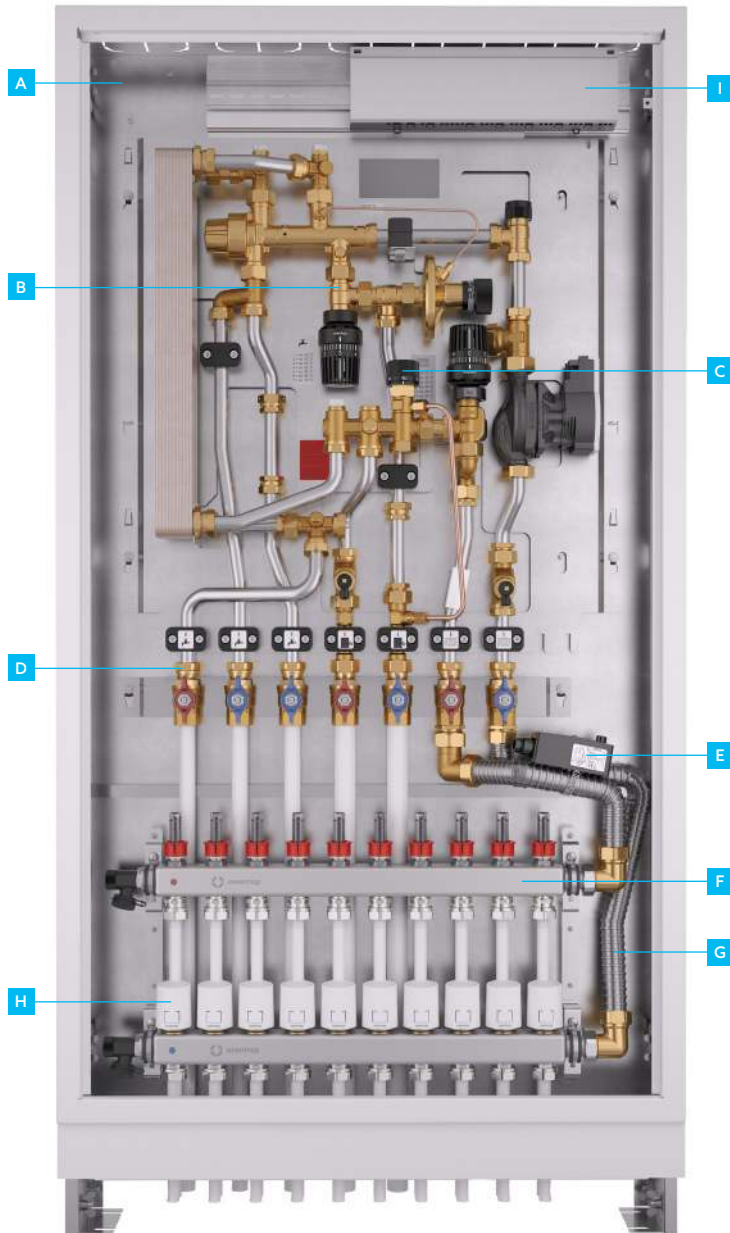
3.4



Regudis W-HTF with constant temperature heating circuit

Heating circuit	Constant temperature	Circulation	No
Width	565 mm	High temperature outlet	Yes

Performance range	Nominal draw-off quantity 15 K* (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	1341140
C	Derivative temperature control set	1341188
D	Ball valve connection set	1341180
E	Safety temperature monitor	1344583
F	Multidis SF 10-fold Heating circuit distributor/collector	1406360
G	Connection set for Multidis SF heating circuit distributor/collector	1341187
H	Aktor T 2P Electrothermal actuator	1012452
I	Connecting block with pump control	1400983



Regudis W-HTF with variable temperature heating circuit

Heating circuit	Variable temperature	Circulation	No
Control range heating circuit	25 up to 50 °C	High temperature outlet	No
Width	630 mm	Certification	ACS

Performance range	Nominal draw-off quantity 15 K* (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	Circulation	No
Control range heating circuit	25 up to 50 °C	High temperature outlet	Yes
Width	630 mm	Certification	ACS

Performance range	Nominal draw-off quantity 15 K* (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

3.4



Regudis W-HTF with constant temperature heating circuit and circulation pipe

Heating circuit	Constant temperature	Circulation	Yes
Width	565 mm	High temperature outlet	Yes

Performance range	Nominal draw-off quantity 15 K* (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		

Performance range	Nominal draw-off quantity 15 K* (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		

Performance range	Nominal draw-off quantity 15 K* (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	Circulation	No
Width	565 mm	High temperature outlet	Yes

Performance range	Nominal draw-off quantity 15 K* (l/min)	Heat exchanger	Item No.
Performance range 2	15	Copper brazed	1341121 °



3.4

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-HTU/W-TU, ready for installation	1341088
For Regudis W-HTO, ready for installation	1341089
For Regudis W-HTO Duo, ready for installation	1341087
For Regudis W-HTF, ready for installation	1341188

Return temperature limiter set



Description	Item No.
For Regudis W-HTU/W-HTO, for limiting 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	Item No.
For Regudis W-HTU, for shutting off all connections	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	1341180
For Regudis W-HTF, for shutting off all connections, with flushing function of the supply pipe	1341185
For Regudis W-HTF, angle version (GSWB), 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

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

Flow limiter



Description	Item No.
Draw-off quantity limitation 12 l/min	1349980
Draw-off quantity limitation 15 l/min	1349981
Draw-off quantity limitation 17 l/min	1349982

Accessory set for equipotential bonding

Fixing material for connection to the base plate of the dwelling station.



Description

For Regudis W-HTU/W-HTF

Item No.

1349983



3.4

Bonnets and cabinets for hydronic dwelling stations

Bonnets

Item no.	1341072	1341095	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			
1341070	1341170	1341175	1341177	1341071	1341198	1341193	1341074
•		• ¹	• ¹		•	•	
•		• ¹	• ¹		•	•	
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1 = Min. required installation depth: 150 mm





Flush-mounted cabinet

Description	Item No.
For Regudis W, narrow model, W 560 x H 870-1075 x D 150-215 mm	1341070
For Regudis W, wide model, W 700 x H 980-1105 x D 110-180 mm	1341170
For Regudis W, long model, for heating circuit distributors/collectors up to 10 circuits, W 700 x H 1440-1565 x D 110-180 mm	1341175
For Regudis W, long model, for heating circuit distributors/collectors up to 12 circuits, W 880 x H 1440-1565 x D 110-180 mm	1341177



Surface-mounted cabinet

Description	Item No.
For Regudis W, standard model, W 700 x H 980-1105 x D 160 mm	1341071
For Regudis W, long model, for heating circuit distributors/collectors up to 10 circuits, pipe passage from above and below, W 750 x H 1523-1648 x D 175 mm	1341074
For Regudis W-HTE, long model, for heating circuit distributors/collectors up to 12 circuits, W 880 x H 1440-1565 x D 160 mm	1341193
For Regudis W, long model, for heating circuit distributors/collectors up to 10 circuits, W 700 x H 1440-1565 x D 160 mm	1341198



Surface-mounted bonnet

Description	Item No.
For Regudis W, wall-hung, pipe passage from above and below, W 750 x H 1000 x D 175 mm	1341072
For Regudis W, standard model, W 496 x H 800 x D 160 mm	1341095
For Regudis W, standard model, with door, W 590 x H 830 x D 120 mm	1341195
For Regudis W, wide model, W 645 x H 800 x D 120 mm	1341197
For Regudis W, long model, pipe passage from above and below, W 496 x H 1100 x D 160 mm	1341295
For Regudis W-HTU with double-walled heat exchanger, standard model, W 496 x H 800 x D 185 mm	1341296



Refurbishment frame

Description	Item No.
For Regudis W-HTF, GSWB version	1341196 °



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.oventrop.com/to/trinkwasseranforderung.

Description	Item No.
Performance range 1, copper brazed	1341280
Performance range 2, copper brazed	1341281
Performance range 3, copper brazed	1341282
Performance range 1, nickel brazed	1341290
Performance range 2, nickel brazed	1341291
Performance range 3, 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 1, copper brazed	1341283
Performance range 2, copper brazed	1341284
Performance range 3, copper brazed	1341282
Performance range 1, nickel brazed	1341383
Performance range 2, nickel brazed	1341384
Performance range 3, nickel brazed	1341292



Replacement proportional flow controller

Description	Item No.
For Regudis dwelling stations, except for Regudis GSWB/W-TU and Regudis with potable water circulation manufactured until 2016	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-HTU/W-HTF, 2-fold	1349098

Replacement drain valve



Description	Item No.
For Regudis W	1349099

Replacement high-efficiency pump



Description	Item No.
For Regudis W-HTE flow temperature control module and Regudis W-HTF with variable temperature heating circuit, Wilo PARA 15-130/6-43/ SC-12	1344581
For Regudis W-HTF with potable water circulation, Wilo-Star-Z NOVA	1349096

Replacement ball valve



Description	Item No.
For Regudis W ball valve connection sets, red handle	1341980
For Regudis W ball valve connections sets, blue handle	1341981



3.5 Storage cylinders

Hydrocor Storage cylinders	523
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3.5 Storage cylinders

Hydrocor Storage cylinders **523**

Hydrocor HP Buffer storage cylinders.....	524
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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 connec-

tion 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).

Connection	G 1 ½ internal thread	Max. operating temperature	95 °C
Thickness TI*	150 mm		



Hydrocor HP

With thermal insulation (energy efficiency class C).

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 HP - Accessories and spare parts



Thermal insulation cap

For optimum thermal insulation of connections not in use.

Description

For G 1 1/2 connection sleeves

Item No.

1389001



3.5

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.

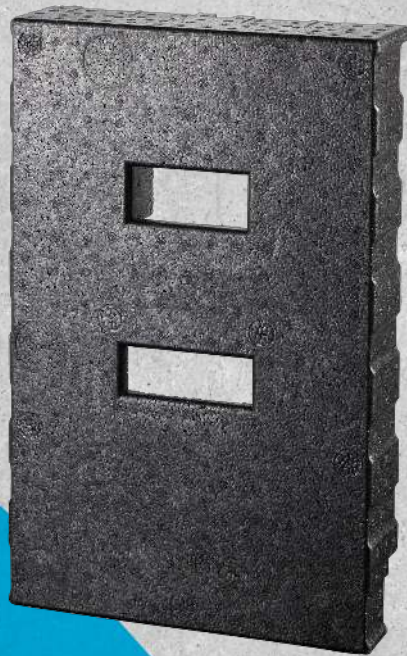
The storage cylinders are particularly energy efficient due to a PUR rigid foam thermal insulation (energy efficiency class B).

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



Potable water

4



4 Potable water

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4.1 Products for the preservation of potable water hygiene

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4.1 Products for the preservation of potable water hygiene

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Potable water technology? Under control with our system.

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.

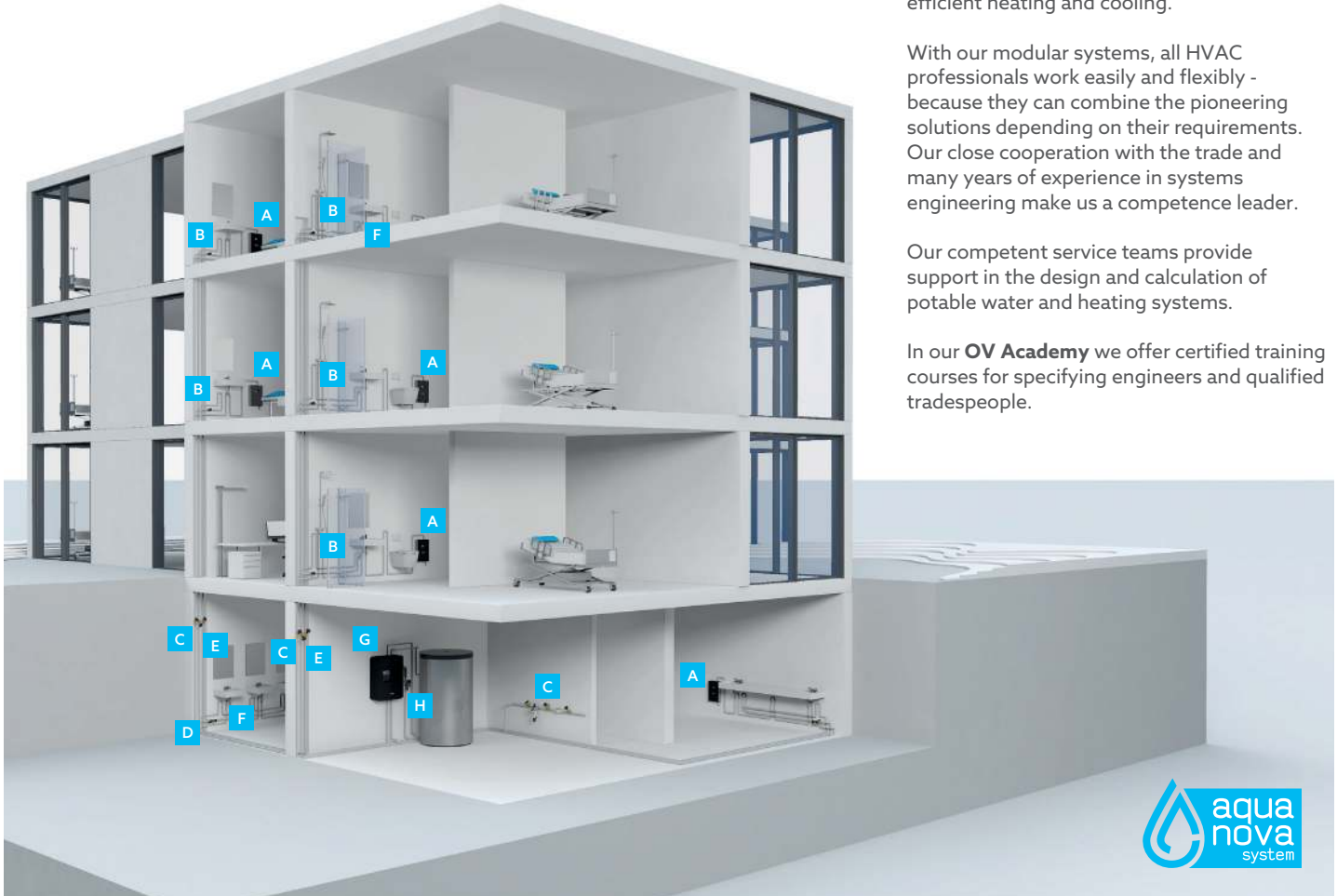
Our **Aquanova system** includes systems, products, software and other services related to potable water.

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 mountable water sampling valve



D Aquastrom VT



E Aquastrom C



F Aquastrom P



G Regumaq X
Fresh water station



H Optibal TW

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	Circulation pipe	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	Circulation pipe	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	PU	Item No.
DN 15	Rp 1/2	400	4205404
DN 20	Rp 3/4		4205406

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

Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.

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

25

Item No.

4205593

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.

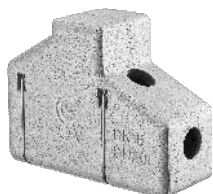
4205591

Sensor LW TQ Sensor element



Description	Item No.
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M and PT 1000 sensor element, G 1/4. Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.	4205592

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

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	Circulation pipe	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	Circulation pipe	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 °

Flush-mounted circulation valves - Accessories and spare parts



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 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-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

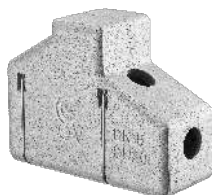
Mounting set for Aquastrom UP-Therm flush-mounted circulation valves with flush-mounted sleeve

For front wall installation.



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229020

Replacement thermal insulation shell



Description	Item No.
For Aquastrom UP, DN 15 / DN 20 and Aquastrom K, DN 15	4229050
For Aquastrom UP, DN 25	4229051
For Aquastrom UP, DN 32	4229052 °

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 546

Aquastrom C Static control valves.....	547
Aquastrom C - Accessories and spare parts.....	549

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	Circulation pipe	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, WaterMark
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



PU 10 Certification DVGW, SVGW

Description

DN 8, PN 10, flame resistant, bronze/stainless steel, G 1/4

Item No.

4209102

Aquastrom P Water sampling valve for mounting on angle valves



Certification DVGW, SVGW

Description

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

Item No.

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

DN 15, G 3/4 external thread, PN 10

DN 20, G 1 external thread, PN 10

DN 25, G 1 1/4 external thread, PN 10

DN 32, G 1 1/2 external thread, PN 10

Item No.

4209204

4209206

4209208

4209210

Measuring valve



Please observe the local regulations for measuring potable water systems

Description

Classic measuring technique, bronze, red/blue, set = 2 pieces

Item No.

4209090



Drain valve for hose connection

Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.



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 of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M and PT 1000 sensor element, G 1/4. Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.	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

DynaTemp system solutions for monitoring and automation 552

DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems..... 553

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.



Number of field modules*	Operating/bus voltage (V)	Frequency (Hz)	Installation	Item No.
31	24 V AC	50	Surface mounting	1153350

Transformer

For power supply of the DDC, field modules, relay modules and circulation valves.



Designation	Power (VA)	Primary power	Secondary power	Frequency (Hz)	Item No.
TR-80	80	230 V AC	24 V AC	50	1153053
TR-250	250	230 V AC	24 V AC	50	1153055

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.



Connection size	Nominal size	Item No.
Rp 1/2 x Rp 1/2	DN 15	1150004
Rp 3/4 x Rp 3/4	DN 20	1150006
Rp 1 x Rp 1	DN 25	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.



Connection size	Nominal size	Item No.
G 3/4 x G 3/4	DN 15	1150104
G 1 x G 1	DN 20	1150106
G 1 1/4 x G 1 1/4	DN 25	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 a burner activation. The burner can also optionally be activated via a 0 - 10 V signal.

Tension	Potential-free relays	Inputs	Frequency (Hz)	Installation	Item No.
24 V AC	2	3 x PT 1000 temperature sensor	50	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.

Tension	Potential-free relay contact	Item No.
24 V AC	NO contact (max.) 230 V, 5 A	1153331

Sensor LW TQ Sensor element



Description	PU	Item No.
For remote monitoring of the riser temperature and for integration into a building management system (BMS), PT 1000 sensor element, G 1/4		1150090
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M and PT 1000 sensor element, G 1/4. Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.	10	4205592

Sensor LW TH Temperature sensor

Suitable for all Oventrop controllers.



Description	Item No.
For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m	1369093
For temperature measurement and detection at collectors, PT 1000 sensor element, 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, PT 1000 sensor element, continuous temperature range up to 180 °C, length 1.5 m

Item No.

1369095



Replacement FM-CW K Field module

With C-bus communication.

Description

For the connection of the Aquastrom DT circulation regulating valve for one riser, 24 V AC, 50 Hz, surface mounting

Item No.

1153301



4.1 Products for the preservation of potable water hygiene

Flushing and circulation stations **556**

Regudrain Flushing stations.....	557
Regudrain - Accessories and spare parts.....	558
Regucirc Circulation station.....	561
Regucirc - Accessories and spare parts.....	562

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



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 Sensor element

Description

For remote monitoring of the riser temperature and for integration into a building management system (BMS), PT 1000 sensor element, 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 Ø 25 - 40 mm and heat conducting paste, PT 1000 sensor element, 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, W 315 mm x H 472 mm x D 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

Replacement thermal insulation



Description

For Regucirc B

For Regucirc M

Item No.

4206795

4206797

Replacement high-efficiency pump

Biral AX20-4 120BLUE



Nominal size

DN 20

Item No.

4206790



4.2 Shutoff valves and other products for potable water

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4.2 Shutoff valves and other products for potable water

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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

Aquastrom F with internal thread and drain ball valve G ¼



Certification DVGW, SVGW, KIWA

Nominal size	Connection size	PU	Item No.
DN 15	Rp ½	10	4201204
DN 20	Rp ¾	10	4201206
DN 25	Rp 1	10	4201208
DN 32	Rp 1 ¼	5	4201210
DN 40	Rp 1 ½	5	4201212
DN 50	Rp 2	5	4201216

Aquastrom F with internal thread and drain bores G ¼ closed with plugs



Certification DVGW, KIWA

Nominal size	Connection size	PU	Item No.
DN 15	Rp ½	10	4201004
DN 20	Rp ¾	10	4201006
DN 25	Rp 1	10	4201008
DN 32	Rp 1 ¼	5	4201010
DN 40	Rp 1 ½	5	4201012
DN 50	Rp 2	5	4201016

Aquastrom F with internal thread, without drain bores



Certification DVGW, SVGW, KIWA

Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	4200804
DN 20	Rp 3/4	10	4200806
DN 25	Rp 1	10	4200808
DN 32	Rp 1 1/4	5	4200810
DN 40	Rp 1 1/2	5	4200812
DN 50	Rp 2	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.

Certification SVGW

Nominal size	Connection size	PU	Item No.
DN 15	15 mm	10	4201252
DN 15	18 mm	10	4201253
DN 20	22 mm	10	4201254
DN 25	28 mm	10	4201255
DN 32	35 mm	5	4201256
DN 40	42 mm	5	4201257
DN 50	54 mm	5	4201258

Aquastrom F with flat sealing external thread and drain ball valve G 1/4



Certification DVGW, SVGW, KIWA

Nominal size	Connection size	PU	Item No.
DN 15	G 3/4	10	4202204
DN 20	G 1	10	4202206
DN 25	G 1 1/4	10	4202208
DN 32	G 1 1/2	5	4202210
DN 40	G 1 3/4	5	4202212
DN 50	G 2 3/8	5	4202216

Aquastrom F with flat sealing external thread and drain bores G ¼ closed with plugs



Certification DVGW, SVGW, KIWA

<u>Nominal size</u>	<u>Connection size</u>	<u>PU</u>	<u>Item No.</u>
DN 15	G ¾	10	4201804
DN 20	G 1	10	4201806
DN 25	G 1 ¼	10	4201808
DN 32	G 1 ½	5	4201810
DN 40	G 1 ¾	5	4201812
DN 50	G 2 ¾	5	4201816

Aquastrom F with flat sealing external thread and drain bores G ¾ closed with plugs



Certification DVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>Item No.</u>
DN 65	G 3	4202220
DN 80	G 3 ½	4202224

Aquastrom F with flanges and drain bores G ¾ closed with plugs



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Item No.</u>
DN 65 - 2 ½	4204451
DN 80 - 3	4204452

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.

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 1/4



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>PU</u>	<u>Item No.</u>
DN 15	Rp 1/2	10	4206204
DN 20	Rp 3/4	10	4206206
DN 25	Rp 1	10	4206208
DN 32	Rp 1 1/4	5	4206210
DN 40	Rp 1 1/2	5	4206212
DN 50	Rp 2	5	4206216

Aquastrom KFR with internal thread and drain bores G 1/4 closed with plugs



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>PU</u>	<u>Item No.</u>
DN 15	Rp 1/2	10	4205804
DN 20	Rp 3/4	10	4205806
DN 25	Rp 1	10	4205808
DN 32	Rp 1 1/4	5	4205810
DN 40	Rp 1 1/2	5	4205812
DN 50	Rp 2	5	4205816

Aquastrom KFR with flat sealing external thread and drain ball valve G 1/4



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>PU</u>	<u>Item No.</u>
DN 15	G 3/4	10	4208204
DN 20	G 1	10	4208206
DN 25	G 1 1/4	10	4208208
DN 32	G 1 1/2	5	4208210
DN 40	G 1 3/4	5	4208212
DN 50	G 2 3/8	5	4208216

Aquastrom KFR with flat sealing external thread and drain bores G 1/4 closed with plugs



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>PU</u>	<u>Item No.</u>
DN 15	G 3/4	10	4207804
DN 20	G 1	10	4207806
DN 25	G 1 1/4	10	4207808
DN 32	G 1 1/2	5	4207810
DN 40	G 1 3/4	5	4207812
DN 50	G 2 3/8	5	4207816

Aquastrom KFR with flat sealing external thread and drain bores G 3/8 closed with plugs



Certification DVGW, SVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>Item No.</u>
DN 65	G 3	4208220
DN 80	G 3 1/2	4208224

Aquastrom KFR with flanges and drain bores G 3/8 closed with plugs



Certification DVGW

<u>Nominal size</u>	<u>Connection size</u>	<u>Item No.</u>
DN 65 - 2 1/2	Rp 1/2	4209451
DN 80 - 3	-	4209452

Free-flow and KFR valves - Accessories and spare parts



Aquastrom P Water sampling valve

PU	10	Certification	DVGW, SVGW
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Description	Item No.
DN 8, PN 10, flame resistant, bronze/stainless steel, G 1/4	4209102
DN 10, PN 10, flame resistant, bronze/stainless steel, G 3/8	4209103



Aquastrom P Water sampling valve for mounting on angle valves

Certification	DVGW, SVGW
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Description	Item No.
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	4209202

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 50	80	1060086

Aquastrom R with internal thread and external thread

Certification	DVGW, SVGW
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Description	Item No.
DN 15, 3/4 union nut x G 3/4 external thread, straight, bronze	4208604
DN 20, 1 union nut x G 1 external thread, straight, bronze	4208606
DN 25, 1 1/4 union nut x G 1 1/4 external thread, straight, bronze	4208608
DN 32, 1 1/2 union nut x G 1 1/2 external thread, straight, bronze	4208610
DN 40, 1 3/4 union nut x G 1 3/4 external thread, straight, bronze	4208612
DN 50, 2 3/8 union nut x G 2 3/8 external thread, straight, bronze	4208616

Aquastrom R with external thread

Certification DVGW, SVGW



Description	Item No.
DN 15, G 3/4 external thread x G 3/4 external thread, straight, bronze	4208704
DN 20, G 1 external thread x G 1 external thread, straight, bronze	4208706
DN 25, G 1 1/4 external thread x G 1 1/4 external thread, straight, bronze	4208708
DN 32, G 1 1/2 external thread x G 1 1/2 external thread, straight, bronze	4208710
DN 40, G 1 3/4 external thread x G 1 3/4 external thread, straight, bronze	4208712
DN 50, G 2 3/8 external thread x G 2 3/8 external thread, straight, bronze	4208716

Drain valve for hose connection

Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.



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

PU 10



Description	Item No.
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M and PT 1000 sensor element, G 1/4. Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.	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

Aquastrom UP Flush-mounted free-flow valves

Aquastrom UP-F with internal thread

Certification DVGW, SVGW



Nominal size	Connection size	Item No.
DN 15	Rp 1/2	4220004
DN 20	Rp 3/4	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.

Certification DVGW, SVGW



Nominal size	Ø* (mm)	Item No.
DN 15	15	4220052 °
DN 15	18	4220053 °
DN 20	22	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.

Certification DVGW, SVGW

Nominal size	Ø* (mm)	Item No.
DN 15	15	4220252 °
DN 15	18	4220253 °
DN 20	22	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.

Certification DVGW, SVGW

Nominal size	Ø* (mm)	Item No.
DN 15	15	4220352 °
DN 15	18	4220353 °
DN 20	22	4220354 °

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

PU 10



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229040
For Aquastrom UP, DN 25 / DN 32	4229041

Mounting set for front wall installation

PU 10



Description	Item No.
For Aquastrom UP, DN 15 / DN 20	4229020
For Aquastrom UP, DN 25 / DN 32	4229021



Replacement valve inserts

Description	Item No.
For Aquastrom UP-F and UP-MS, DN 15	4223191
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



Replacement insulation shell

Description	Item No.
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 °



Replacement handwheel

Description	Item No.
For Aquastrom UP, DN 15 / 20 and Aquastrom UP-MS	4223197



Replacement flush-mounted sleeve

PU 25

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 578

Optibal TW Ball valves for potable water.....	579
Optibal TW - Accessories and spare parts.....	581

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 dou-

ble 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	Operating temperature	up to 90 °C
Installation location	Supply or return	Pressure rating	PN 10
Main function	Ball valve	Surface	Untreated
Medium	Potable water		



Optibal TW with internal thread and drain bore G 1/4 closed with a plug

Certification DVGW, ACS, GDV, VA

Nominal size	Connection size	PU	Item No.
DN 15	Rp 1/2	10	4208804
DN 20	Rp 3/4	10	4208806
DN 25	Rp 1	10	4208808
DN 32	Rp 1 1/4	10	4208810
DN 40	Rp 1 1/2	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 1/2	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



Aquastrom P Water sampling valve

PU 10 Certification DVGW, SVGW

Description

DN 8, PN 10, flame resistant, bronze/stainless steel, G 1/4

Item No.

4209102



Aquastrom P Water sampling valve for mounting on angle valves

Certification DVGW, SVGW

Description

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

Item No.

4209202



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

For Optibal TW DN 15

PU

50

Item No.

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

Optibal P, DN 25 and DN 32 and Optibal TW, DN 20 and DN 25

Item No.

1078382

For Optibal TW DN 32 to DN 50

4208893



Electromotive actuator

Description

For Optibal TW DN 15 to DN 25, 24 V AC/DC, with spring return

Item No.

4208890



4.2 Shutoff valves and other products for potable water

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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		



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, flat sealing, without scald protection

Nominal size	Connection size	Control range (°C)	Description	PU	Item No.
DN 20	G 1	30 up to 70	Without union nuts	25	1300200
DN 20	G 1	30 up to 70	With union nuts	20	1300251



Brawa-Mix with external thread, flat sealing

Nominal size	Connection size	Control range (°C)	Description	Item No.
DN 20	G 1	35 up to 50	Without union nuts	1300352
DN 20	G 1	35 up to 50	With union nuts	1300351

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	Item No.
For Brawa-Mix DN 20	1300385
For Brawa-Mix DN 25 and DN 32	1300386

Inline thermometer



Description	Item No.
For Brawa-Mix DN 20, G 1 union nut x G 1 external thread, bronze, length 74 mm	1300952
For Brawa-Mix DN 25, G 1¼ union nut x G 1¼ external thread, bronze, length 70 mm	1300953
For Brawa-Mix DN 32, G 1½ union nut x G 1½ external thread, bronze, length 81 mm	1300954

Non-return valve for cold water



Description	Item No.
For Brawa-Mix DN 20, Rp ¾ x Rp ¾, bronze, length 61 mm	1302006
For Brawa-Mix DN 25, Rp 1 x Rp 1, bronze, length 81 mm	1302008
For Brawa-Mix DN 32, Rp 1¼ x Rp 1¼, bronze, length 91 mm	1302010

Strainer



Description	Certification	PU	Item No.
PN 25, DN 20, wire basket 0.6 mm, bronze	WRAS	10	1120006
PN 25, DN 25, wire basket 0.6 mm, bronze	WRAS	10	1120008
PN 25, DN 32, wire basket 0.6 mm, bronze	WRAS	5	1120010

Domestic water 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	PU	Item No.
DN 20 with couplings with R ¾ external thread, PN 16		4204506
DN 20 with couplings with R 1 external thread, PN 16	72	4204508
DN 32 with couplings with R 1 ¼ external thread, PN 16		4204510

Domestic water stations - Accessories and spare parts

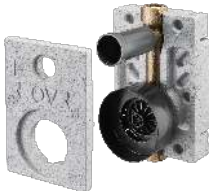


Spare parts for domestic water station

Description	Item No.
Replacement pressure reducer insert	4204590
Replacement filter insert 100 µm	4204591
Replacement filter cup, complete	4204592
Replacement pressure gauge	4204593

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

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

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 in the scope of delivery.



Description

DN 15, R 1/2, for wall thickness 200 mm to 530 mm, PN 10

Item No.

4205204

Drain valves

Optiflex with external thread PN 16, DVGW certified



Nominal size	Connection size	kvs	Operating temperature (°C)	Certification	Item No.
DN 15	G 1/2	3.30	0 up to 90	DVGW	1033152

Drain ball valve



Nominal size	Connection size	Item No.
DN 8	G 1/4	4200191

Drain valve



Description	Item No.
DN 8, G 1/4 external thread, self-sealing, with rotatable outlet for 3/8 hose	4209602
DN 10, G 3/8 external thread, self-sealing, with rotatable outlet for 3/8 hose	4209603
DN 15, G 1/2 external thread, self-sealing, with rotatable outlet for 3/8 hose	4209604

Drain valve for hose connection



Description	Item No.
For Aquastrom VT, T plus, C, F, KFR and M, with G 1/4	4205593



4.2 Shutoff valves and other products for potable water

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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



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

Certification	Item No.
DVGW, ACS	6120058
DVGW, ACS	6120060
DVGW, ACS	6120062
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

Certification	Item No.
DVGW, ACS	6120508



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	Item No.
For Aquanova water filters, DN 6, G 1/8 external thread, set = 2 pieces	6127000



Replacement union nut



Description	PU	Item No.
For Aquanova Magnum, for mounting the filter cup		6125000

Replacement O-ring for mounting the filter cup



Description	PU	Item No.
For Aquanova Magnum	10	6126000
For Aquanova Compact		6120595

Special key for loosening the filter cup



Description	PU	Item No.
For Aquanova Magnum	50	6124000
For Aquanova Compact		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



Replacement insert

Description	PU	Item No.
For Bypass mixing valve DN 25, for setting large flow rates	50	6101053
For bypass mixing valve DN 25 / DN 32, for setting small flow rates	100	6102051
For bypass mixing valve DN 32, for setting large flow rates	10	6102053
For bypass valve and bypass mixing valve DN 25, with bonnet with O-ring, from 07.2004	25	6109552



Replacement regulating insert

Description	Item No.
For bypass mixing valve DN 50, with diaphragm and spring	6109152



Replacement bonnet

Description	Item No.
For bypass mixing valve DN 50, with adjustment spindle	6109052



Replacement regulating screw

Description	Item No.
For bypass mixing valve DN 50, for setting small flow rates	6109851

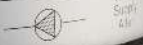


oventrop

Alkohol oder Lösungsmittel-haltige Reinigungs-
Do not use alcohol or detergent containing
Ne pas utiliser de l'alcool ou des détergents
solvants!

Einbaudatum:
Date of installation:
Date de montage:

Rücklauf
Return
Retour



Oil

5



5 Oil

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5.1 Products for heating oil installations

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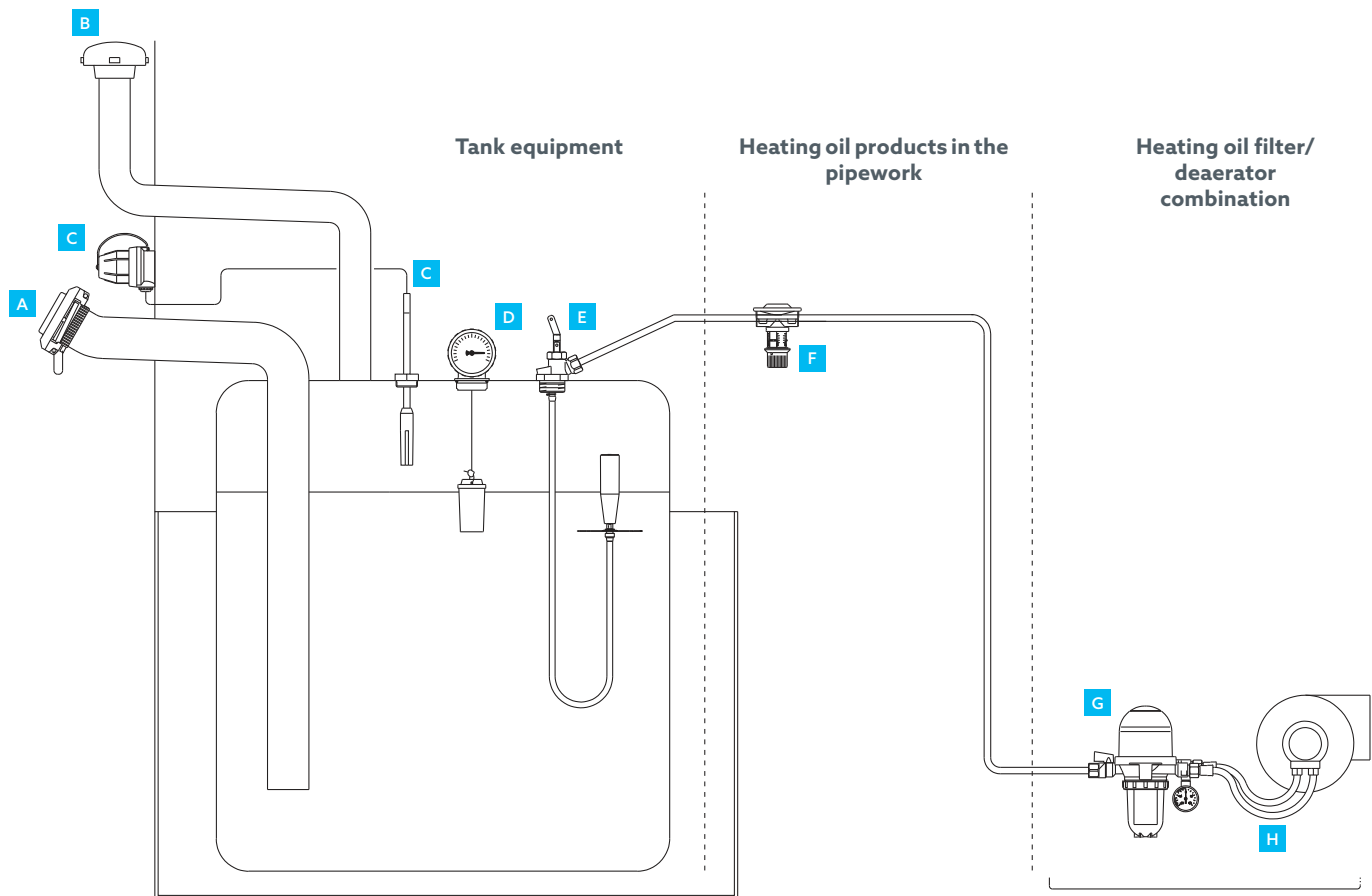
5.1 Products for heating oil installations

Deaerators and filters for oil heating 603 technology

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Example of a one pipe system



- A** Tank inlet cap
- B** Vent cap
- C** Tank filling limiter
- D** Tank level indicator
- E** Tank extraction
- F** Siphon protection
- G** Heating oil filter/deaerator combination with vacuum pressure gauge
- H** 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)

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 burnt. 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) that 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 heating oil 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	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	Pressure gauge*	No
Cap*	Plastic transparent	Filter element	No
Shutoff	No	Certification	DIN, Ü sign

Connection burner side	Hose length (mm)	PU	Item No.
G 3/8 external (brass)	300		2142900
G 1/4 internal	-		2142901
G 3/8 external	300	600	2142951

Oilpur Heating oil filters



Oilpur heating oil filters are used in oil firing systems that 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 heating oil with "alternative additives" 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 a bio, FAME or low-viscosity vegetable oil proportion up to 100 %. All Oilpur heating oil filters with shutoff are supplied with a mounting bracket.

The tank side connection G 3/8 internal thread is suitable for OV compression fittings 6, 8, 10 and 12 mm.

Cup*	Plastic transparent	Pressure gauge*	No
Body	Brass	PU	10
Filter element	Yes	Certification	DIN, Ü sign



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**

Certification DIN, Ü sign

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	2123103
DN 10	G 3/8 internal	G 3/8 internal	Sintered plastic	50-75	2123261
DN 15	G 1/2 internal	G 1/2 internal	Stainless steel	100-150	2123104
DN 10	G 3/8 internal	G 3/8 external	Sintered plastic	50-75	2123561



Oilpur E A R with shutoff for one pipe systems with return flow feed

Venting Yes Certification DIN, Ü sign

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	2122103
DN 10	G 3/8 internal	G 3/8 external	Sintered plastic	50-75	2122261
DN 15	G 1/2 internal	G 1/2 internal	Sintered plastic	50-75	2122262
DN 10	G 3/8 internal	G 3/8 external	Stainless steel	100-150	2122403
DN 10	G 3/8 internal	G 3/8 external	Sintered plastic	50-75	2122561



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.

Certification DIN, Ü sign

Nominal size	Connection tank side	Connection burner side	Filter*	Mesh size* (µm)	Item No.
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	Stainless steel	100-150	2124203
DN 15	G 1/2 internal	G 1/2 internal	Stainless steel	100-150	2124204



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.

Certification DIN, Ü sign

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	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	Sintered plastic	50-75	2120561

Heating oil filters/Heating oil deaerators - Accessories and spare parts

Filter insert



Suitable for Toc-Duo-3 heating oil filter and heating oil deaerator combination and Oilpur heating oil filters. 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
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 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
Transparent cup made of plastic, also suitable as replacement for Toc-Duo-3	25	2126751
Transparent cup made of plastic, for Magnum	25	2126755
Transparent cup made of plastic, for Opticlean long	25	2126774
Metal cup PN 16		2126754

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 Oilpur small heating oil filter and condensate collectors	10	2166500



Magnum Conversion set

Not suitable for opticlean MC-18 and MX-11, long.

Description	Item No.
Filter cup Magnum with filter insert made of sintered plastic 50-75 µm and O-ring	2120891



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	Item No.
With connection fitting, filter side R 3/8, burner side Rp 3/8	2120285
With connection fitting, filter side G 3/8 union nut, burner side G 3/8 with internal cone	2120585



Adapter

Description	Item No.
For retrofitting filter cartridges (item no. 2126400)	2120691



Union nut

Description	Item No.
For Oilpur heating oil filters and Toc-Duo-3 heating oil filter and heating oil deaerator combinations	2126600



Tool

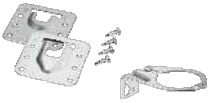
Description	Item No.
Multi-purpose spanner for loosening the union nut of Oilpur heating oil filters and Toc-Duo heating oil filter and heating oil deaerator combinations	2126691
Filter cartridge tool, for loosening the filter cartridge item no. 2126400 from the adapter	2126695

Vent hose, 10 m



Description	Item No.
With hose nozzle for Toc-Duo-3 and Toc-Uno for the discharge of outgassing	2142990

Replacement mounting bracket



Description	Item No.
Mounting bracket for Oilpur heating oil filters DN 10	2126803
Mounting 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
Products for vacuum tank monitoring.....	615
Flexo-Bloc Tank extraction systems.....	616
Tank extraction.....	618

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 of 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		G 2 1/2	Brass	25	2010153
DN 50 - 2	G 2 internal	G 2 3/4	Brass	5	2010154

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)	Item No.
DN 50 - 2	G 2 internal	DN 50	Brass	VK 50 + MB 50	2010816
DN 50 - 2		DN 50	Brass	VK 50 + MB 50	2010851

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 1/4	Brass	-		2018090
G 1 1/2	Brass	-	100	2018091
G 2	Brass	-		2018092
G 2 1/2	Brass	-		2018093
G 2 3/4	Brass	-		2018094
DN 50	Brass	MB 50	10	2018192

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		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

Fuel gauge lock



Description

Universal version, G 1 internal thread, with quick-acting lock, lockable

Item No.

2014151

Tank level indicator



Description

Mechanical, G 1 ½, infinitely adjustable, for tank heights 0 - 200 cm, odour-proof

Pneumatic, infinitely adjustable, for tank heights 100 - 300 cm, max. measuring line length 50 m, connection pipe diameter 6 mm, scale graduated in %

PU

300

Item No.

2060312

2060400

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.

Only for holders of a type approval.

The liquid safety devices are subject to testing and therefore TÜV approved.

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

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

Flexo-Bloc Tank extraction systems



The **Flexo-Bloc** tank extraction devices combine suction opening with spacer foot, suction hose, tank and pipe connections, backflow préventer 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
------------------	----	----	----

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 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.

Tank height up to	2,000 mm	PU	10
Return connection	No	Certification	Ü sign
Floating suction	Yes		

Connection tank side

	Item No.
G 1 ½ external	2052051
G 1 external	2052053

Tank extraction

Conversion set



Description

For converting Flexo-Bloc tank extraction devices to floating suction up to 3 m tank height

Item No.

2052091



5.1 Products for heating oil installations

Pipeline valves and components for oil heating technology 619

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Ofix-Oil Compression fittings.....	622
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Ofix-Oil Double nipples.....	624
Hose lines according to DIN EN ISO 6806.....	625

Oilstop Anti-siphon valves



Oilstop siphon protection valves or anti-siphon valves and solenoid 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	Item No.
Oilstop V Diaphragm anti-siphon valve	2104203



Oilstop MV Solenoid valve

AbZ (general type approval) no.: Z-65.50-456,
G $\frac{3}{8}$ internal thread, protection height up to 3 m, "normally closed" (NC), ~230 V, 50 Hz, protection category IP 65, max. oil flow rate 100 l/h.

Description	Item No.
Oilstop MV Solenoid valve	2104553

Pipeline valves



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

DN 8

Item No.

2091002



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

Ball valve design, brass, connections G $\frac{3}{8}$ internal thread (6 x)

Item No.

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) and diaphragm anti-siphon valves of size DN 10. Support sleeves must be used for copper pipes.

Set consisting of two compression fittings.

<u>Size connection 1</u>	<u>Size connection 2</u>	<u>Item No.</u>
$\frac{3}{8}$	6 mm	2127050
$\frac{3}{8}$	8 mm	2127051
$\frac{3}{8}$	10 mm	2127052
$\frac{3}{8}$	12 mm	2127053

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.



		Item No.
R 3/8	Cutting ring connection 6 mm	2083060
R 3/8	Cutting ring connection 8 mm	2083053
R 3/8	Cutting ring connection 10 mm	2083054
R 3/8	Cutting ring connection 12 mm	2083055

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.
6 mm	100	2083951
8 mm	100	2083952
10 mm	100	1029651
12 mm	100	1029652
15 mm	50	1029654
18 mm	50	1029656

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

Ofix-Oil Double nipple with one internal cone

Made of brass for connecting hose/burner or fitting.



		Item No.
G 3/8	G 1/4	2080254
G 1/4	G 1/4	2080351
G 3/8	R 3/8	2080352
G 1/2	R 1/2	2080354

Hose lines according to DIN EN ISO 6806



Up to a max. of 70 °C, the hose lines are also suitable for heating oil 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	1,000	2110053
8	1,500	2110055



5.1 Products for heating oil installations

Kits **626**

Heating oil kits for export..... 627

Heating oil kits for export

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

Completely packed in carton

Item No.

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

Completely packed in carton

Item No.

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

2-fold, for 8, 10 and 12 mm pipes
1-fold, for 8, 10 and 12 mm pipes

Item No.

2127500
2127700





**Smart Home
Smart Building**

6



6 Smart Home, Smart Building

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6.1 Smart Home

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6.1 Smart Home

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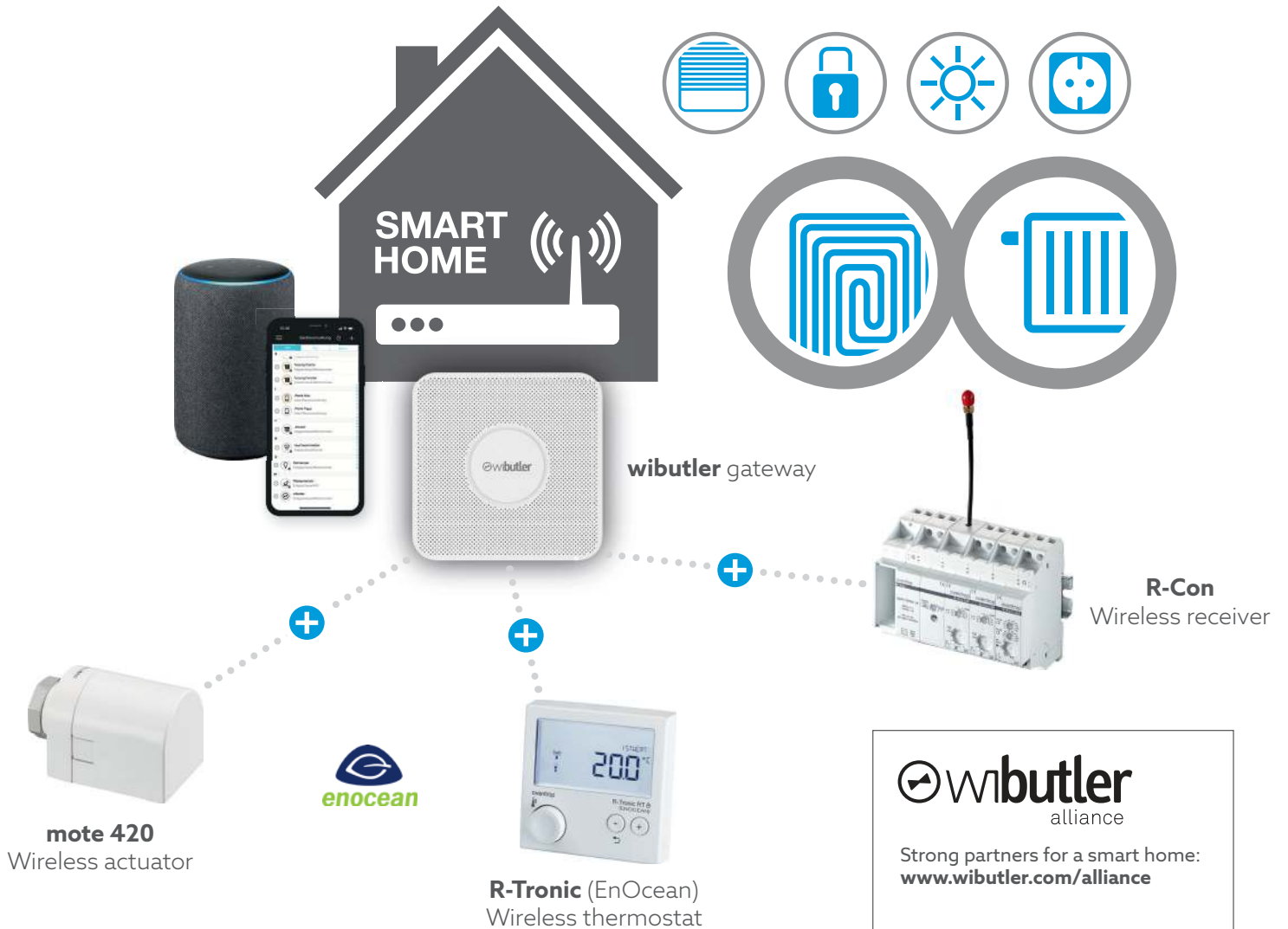
wibutler system



The Smart Home sector includes the networking of several trades within individual dwellings or detached houses. By means of a 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 rout-

er, remote access is easily possible while on the move.

The intelligent wibutler pro gateway 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



Scope of delivery

1 x wibutler gateway item no. 1150799
1 x R-Tronic RT B wireless thermostat item no. 1150780
1 x mote 420 wireless actuator item no. 1150766

Item No.

1150790

Basic set - surface heating



Scope of delivery

1 x wibutler gateway item no. 1150799
1 x R-Tronic RT B wireless thermostat item no. 1150780
1 x R-Con eight-channel wireless receiver item no. 1150772

Item No.

1150795

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

Tension

100 - 240 V AC

Item No.

1150799

R-Tronic Wireless thermostat (EnOcean)



Installation

Surface mounting

Power supply

Battery operated

Communication

EnOcean

Designation

Humidity sensor*

EEP*

Item No.

RT B (EnOcean)

No

A5-10-02
A5-10-03
A5-10-04
A5-10-06
A5-10-06 + RPS

1150780

RTF B (EnOcean)

Yes

A5-10-11
A5-10-12
A5-10-22
A5-10-23

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.

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 Multi-channel 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 AC	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)



Number of radio channels	Logic module	Item No.
4 (max. of 4 actuators per channel)	Yes	1150770
4 (max. of 4 actuators per channel)	No	1150771
8 (max. of 4 actuators per channel)	Yes	1150772
8 (max. of 4 actuators per channel)	No	1150773



R-Con T 2P Four-channel extension module (proprietary radio communication)

For R-Con multi-channel wireless receiver.

Tension	230 V AC	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 multi-channel 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 AC	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		



Inputs	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 AC	"Normally closed"	Connection thread M 30 x 1.5	1	100	1012415
24 V AC / DC	"Normally closed"	Connection thread M 30 x 1.5	1		1012416

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

Smart Home - Accessories

FK-C F Wireless window contact (EnOcean)



Description

Solar powered, white (similar to RAL 9003), EnOcean Equipment Profile D5-00-01

Item No.

1153070



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

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

Wireless repeater (EnOcean)



PU _____ 50

Description

For amplification of EnOcean radio telegrams to increase the radio range, 230 V AC, 50 Hz, flush mounting

Item No.

1153060



Antenna extension

Description

With SMA screw terminal, antenna length 1 m, surface mounting, white glossy (RAL 9003)

Item No.

1150777



Protective housing with carrier rail

Description

As alternative to installation in the cabinet, 230 V, surface mounting

Item No.

1150776



6.1 Smart Home

Proprietary radio system **641**

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R-Tronic system for individual room temperature control



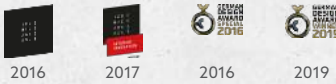
The R-Tronic wireless thermostats with closed radio communication (proprietary) are used in stand-alone operation in connection with wireless actuators to control radiators or in connection with a multi-channel wireless receiver to control surface heating systems.

The temperature setting as well as the storage of time programmes is carried out at the wireless thermostat. 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.

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 _____

Designation	Humidity sensor*	CO ₂ sensor	Power supply	Item No.
RT B	No	No	Battery operated	1150680
RTF B	Yes	No	Battery operated	1150681
RTFC K	Yes	Yes	Mains adaptor with table stand	1150682 °
RTFC K	Yes	Yes	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	Note	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 Multi-channel 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 AC	Communication	Proprietary radio
Control	Two point / PWM	Installation	Carrier rail (DIN EN 60715 TH35)



Number of radio channels	Logic module	Item No.
4 (max. of 4 actuators per channel)	Yes	1150770
4 (max. of 4 actuators per channel)	No	1150771
8 (max. of 4 actuators per channel)	Yes	1150772
8 (max. of 4 actuators per channel)	No	1150773



R-Con T 2P Four-channel extension module (proprietary radio communication)

For R-Con multi-channel wireless receiver.

Tension	230 V AC	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 multi-channel 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 AC	Installation	Carrier rail (DIN EN 60715 TH35)
Communication	Proprietary radio		



Inputs	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 AC	"Normally closed"	Connection thread M 30 x 1.5	1	100	1012415
24 V AC / DC	"Normally closed"	Connection thread M 30 x 1.5	1		1012416



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 AC	Communication	Proprietary radio
Installation	Flush mounting		

Number of radio channels

Item No.

1 x potential-free

1150710 °

R-Tronic - Accessories

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.



Power supply	EEP*	Colour	Item No.
Solar powered	D5-00-01	White	1153070



Cover frame

For R-Tronic wireless thermostats.

PU	50
----	----

Description	Item No.
For covering flush-mounted box (milled hole up to Ø 83 mm, e.g. Switzerland), cover 88 x 88 mm, traffic white (RAL 9016)	1150693

Flush-mounted power pack with wall bracket



Description	Item No.
For the conversion of battery operated R-Tronic wireless thermostats to an external power supply 100 - 240 V AC, 50 - 60 Hz	1150692

Mains adaptor with table stand



Description	Item No.
For the conversion of battery operated R-Tronic wireless thermostats to an external power supply 100 - 240 V AC, 50 - 60 Hz	1150694

Wireless repeater (EnOcean)

PU _____ 50



Description

For amplification of EnOcean radio telegrams to increase the radio range, 230 V AC, 50 Hz, flush mounting

Item No.

1153060



Antenna extension

For R-Con multi-channel 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 multi-channel wireless receiver.

Description

As alternative to installation in the cabinet, 230 V, surface mounting

Item No.

1150776



6.2 Smart Building

DynaTemp system solutions for monitoring and automation 649

DynaTemp CW-BS for automatic thermal balancing in potable water circulation systems.....	651
DyanTemp CR-BSX for decentralised and centralised individual room temperature control.....	655



6.2 Smart Building

DynaTemp system solutions 649 **for monitoring and automation**

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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.



Operating/bus voltage	24 V AC V	Frequency	50 Hz
-----------------------	-----------	-----------	-------

Number of field modules*	Installation	Item No.
31	Surface mounting	1153350

Transformer

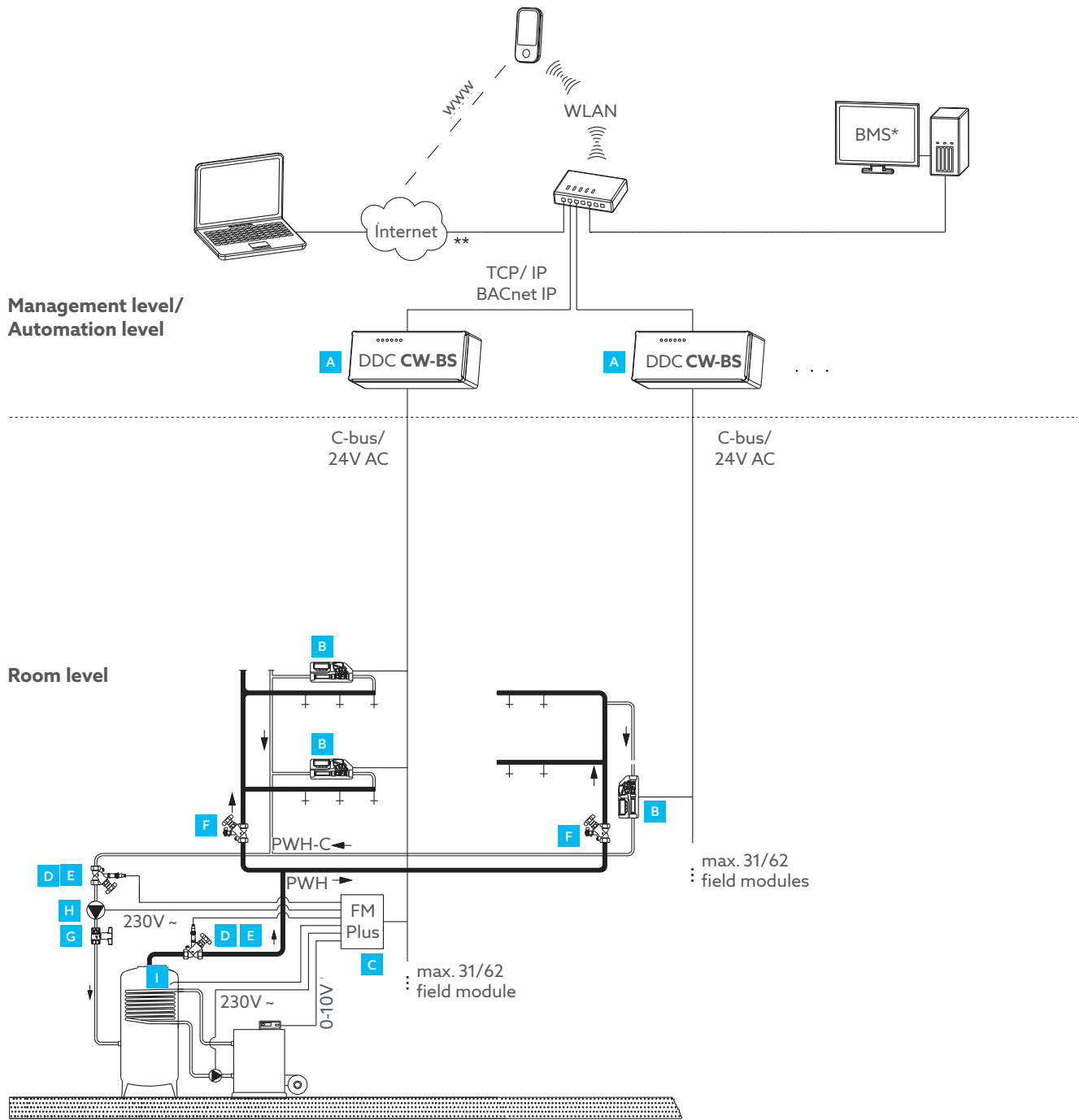
For power supply of the DDC, field modules, relay modules and circulation valves.



Primary power	230 V AC	Frequency	50 Hz
Secondary power	24 V AC		

Designation	Power (VA)	Item No.
TR-80	80	1153053
TR-250	250	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.

Operating/bus voltage 24 V AC V

Nominal size	Connection size	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.

Operating/bus voltage 24 V AC V

Nominal size	Connection size	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 a burner activation. The burner can also optionally be activated via a 0 - 10 V signal.

Inputs	3 x PT 1000 temperature sensor	Tension	24 V AC
Potential-free relays	2	Frequency	50 Hz

Installation	Item No.
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.

Tension 24 V AC Potential-free relay contact NO contact (max.) 230 V, 5 A

Item No.
1153331

Sensor LW TQ Sensor element



Description	PU	Item No.
For remote monitoring of the riser temperature and for integration into a building management system (BMS), PT 1000 sensor element, G 1/4		1150090
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M and PT 1000 sensor element, G 1/4. Also serves to accommodate the dial thermometer item no. 4205593 or the sensor element item no. 4205592.	10	4205592

Sensor LW TH Temperature sensor

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m

For temperature measurement and detection at collectors, PT 1000 sensor element, continuous temperature range up to 180 °C, length 2 m

Item No.

1369093

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, PT 1000 sensor element, continuous temperature range up to 180 °C, length 1.5 m

Item No.

1369095

Replacement FM-CW K Field module

With C-bus communication.



Description

For the connection of the Aquastrom DT circulation regulating valve for one riser, 24 V AC, 50 Hz, surface mounting

Item No.

1153301

DyanTemp CR-BSX for decentralised and centralised 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 centralised 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.

Operating/bus voltage	24 V AC V	Frequency	50 Hz
-----------------------	-----------	-----------	-------

Number of field modules*

31

Installation

Surface mounting

Item No.

1153100

Transformer

For power supply of the DDC, room modules, thermostats and actuators.

Primary power	230 V AC	Frequency	50 Hz
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Secondary power	24 V AC
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Designation

TR-80

TR-250

Power (VA)

80

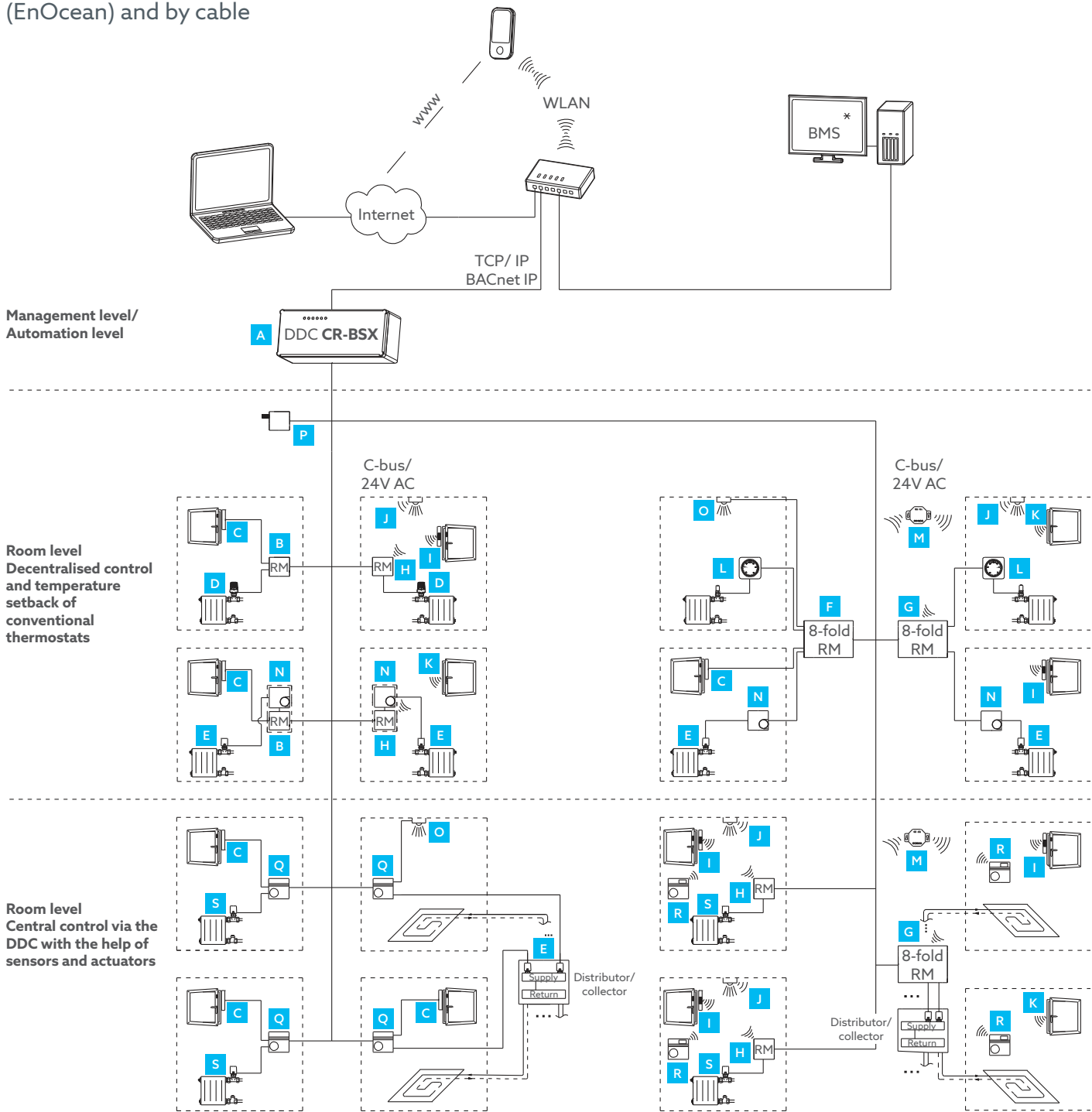
250

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 |
|---|---|---|

Room module for the connection of 8 rooms

For connecting thermostats or room thermostats and wired window contacts installed on site.



Number of rooms	8	Frequency	50 Hz
Tension	24 V AC	Installation	Surface mounting

Designation	Interfaces	Item No.
RM-C F8 (EnOcean)	EnOcean	1153118
RM-C K8	Wired (C-bus)	1153128

Room module for the connection of one room

For connecting actuators, thermostats or room thermostats. Cover frame must be ordered separately (accessory).



Number of rooms	1	Installation	Flush mounting
Tension	24 V AC	Colour	White
Frequency	50 Hz		

Designation	Interfaces	Item No.
RM-C F (EnOcean)	EnOcean	1153101
RM-C K	Wired (C-bus)	1153121

ABR-55 Cover frame



Description	Item No.
For room modules item no. 1153101 / 21, 55 x 55 mm, white	1153170

RBG-C K Room controller, wired

With C-bus commication. With setpoint adjuster and presence key with LED.



Tension	24 V AC	Frequency	50 Hz
---------	---------	-----------	-------

Installation	Colour	Item No.
Surface mounting	White	1153271

RBG-C F Wireless room controller (EnOcean)

With EnOcean radio technology. With setpoint adjuster and presence key.



Power supply	Solar powered	PU	75
--------------	---------------	----	----

Installation	Colour	Item No.
Surface mounting	White	1153050



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

Tension	24 V AC	Installation	Surface mounting
Control	Two point / PWM		

Suitable for	Item No.
Electrothermal actuators (two point) "normally closed"	1155510

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.



Tension	24 V AC	Cable*	1 m
Setpoint range	7 up to 28 °C		

Valve connection	Item No.
Connection thread M 30 x 1.5	1150300

Wall connection set



Description	Item No.
For additional protection of the wall installation (in flush-mounted box) of the connecting cable of the Uni LHZ thermostat	1150390

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.



Tension	24 V AC / DC	Cable*	1 m
Setpoint range	7 up to 28 °C	Capillary tube	2 m

Valve connection	Item No.
Connection thread M 30 x 1.5	1152265

Aktor T 2P Electrothermal actuator, two point control



Installation position	Any	Tension	24 V AC / DC
Installation	Plug-in connection with valve adapter		

Version	Valve connection	Cable* (m)	Item No.
"Normally closed"	Connection thread M 30 x 1.5	1	1012416
"Normally closed"	Connection thread M 30 x 1.5	2	1012442



Aktor T ST Electrothermal actuator, 0 - 10 V

Tension	24 V AC	Installation	Plug-in connection with valve adapter
Zero point detection	Yes		
Valve travel detection	Yes	PU	500
Installation position	Any		

Version	Valve connection	Cable* (m)	Item No.
"Normally closed"	Connection thread M 30 x 1.5	1	1012953

Reinforcing cap

For the protection against vandalism.



Description	PU	Item No.
For Uni LH, LHZ and LA thermostats, not lockable, white	10	1011865
For Uni LH, LHZ and LA thermostats, lockable, white	10	1011866
For electrothermal actuators, including special valve adapter with connection thread M 30 x 1.5 for installation		1012450

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.



Power supply	Colour	EEP*	Item No.
Solar powered	White	D5-00-01	1153070



FM-C WS Outside temperature sensor, wired

With C-bus communication. For outside temperature measurement. For the DDC function "variable heat-up time".

Protection category	65 IP
---------------------	-------

Installation	Item No.
Surface mounting	1153130

Wireless repeater (EnOcean)

PU	50
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Description	Item No.
For amplification of EnOcean radio telegrams to increase the radio range, 230 V AC, 50 Hz, flush mounting	1153060



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

Room thermostats **661**

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

Room thermostats **661**

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ClimaCon F Room thermostats for surface heating



The ClimaCon F room thermostats are used for temperature control of surface heating and cooling systems as well as heating and cooling ceilings in detached houses or dwellings. Depending on the room thermostat, switching between heating and cooling is possible via a change-over signal, e.g. from the heat pump. The ClimaCon F room thermostats can be used in combination with electrothermal ac-

tuators (e.g. Aktor T 2P). Alternatively, connection to a connecting block (e.g. FloorCon) is possible. The simple surface-mounted installation and quick configuration make the product very installer-friendly. Depending on the model, there are room thermostats with reduced setting display, with integrated time switch and setting options via app.



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 AC	Electrothermal actuators (two point) "normally closed"	1155010
24 V AC	Electrothermal actuators (two point) "normally closed"	1155510

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 AC	No	No	Electrothermal actuators (two point) "normally closed"	1155031
24 V AC	Yes	Yes	Electrothermal actuators (two point) "normally closed" Electrothermal actuators (0 - 10 V) "normally closed"	1155531



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

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

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



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 AC	Electrothermal actuators (two point) "normally closed"	1155021

	ClimaCon F 90	ClimaCon F 100		ClimaCon F 210	ClimaCon F 310	
						
	230 V	230 V	24 V	230 V	230 V	24 V
Item no.	1155009	1155010	1155510	1155021	1155031	1155531
Application						
Heating only / Cooling only	●	—	—	●	—	—
Heating or cooling (switchable)	—	●	●	—	●	●
Display						
Setpoint temperature	●	●	●	●	●	●
Actual temperature	—	—	—	●	●	●
Status (heating / cooling)	—	—	—	●	●	●
Mode (Auto / Eco)	—	—	—	●	●	●
Setting options						
Temperature setting at the room thermostat	●	●	●	●	●	●
Temperature setting via time profiles in the app	—	—	—	●	●	●
Setback activation at the room thermostat	—	—	—	●	●	●
Timed setback via app	●*	●*	●*	●	●	●
Setback temperature	4 K	4 K	4 K	Flexible via app	Flexible via app	Flexible via app
Temperature limitation via app	—	—	—	●	●	●
External limiter function – automatic switch-off when reaching the max. / min. temperature set via app	—	—	—	—	—	●

* Slave function - only possible if master room thermostats (ClimaCon F 210 / F 310) or a FloorCon connecting block are used.

Room thermostats heating, flush mounting



The flush-mounted electric room thermostat is required in conjunction with the Aktor T 2P electrothermal actuators (two point) for individual room temperature control.

Heating: Use electrothermal actuators (two

point) "normally closed". Temperature setback possible via external time switch.

Cooling: Use electrothermal actuators (two point) "normally open".



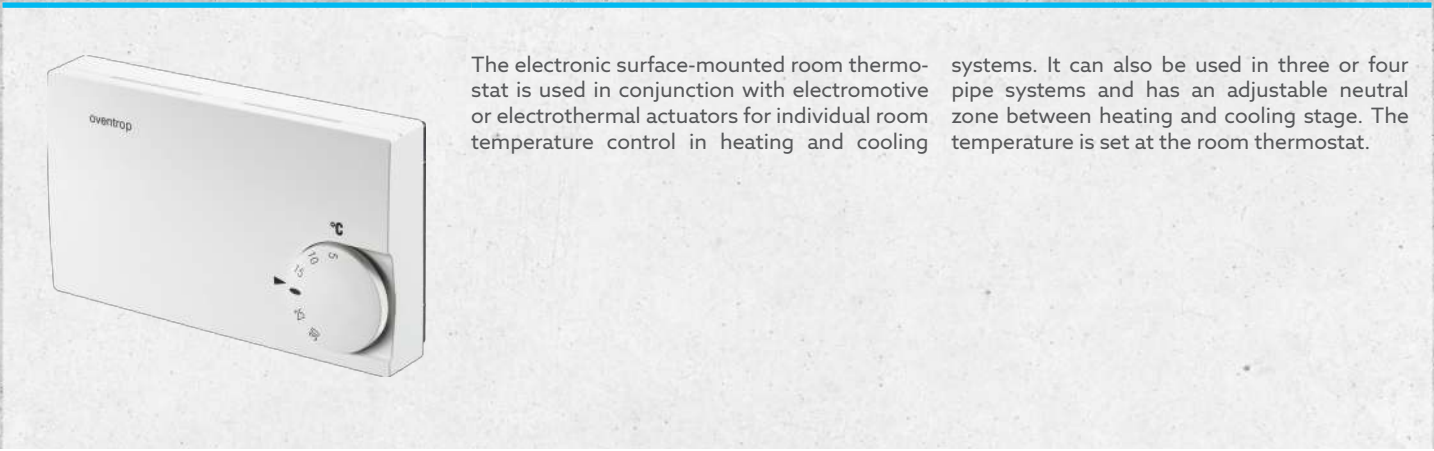
Room thermostat for two pipe applications, flush mounting

Setpoint 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 AC	Electrothermal actuators "normally closed" (heating) Electrothermal actuators "normally open" (cooling)	1152071

Room thermostats heating/cooling



The electronic surface-mounted room thermostat is used in conjunction with electromotive or electrothermal actuators for individual room temperature control in heating and cooling systems. It 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 AC	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 AC	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 AC	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 AC	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	Item No.
For heating/cooling applications to prevent condensation, 24 V, with change-over contact	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	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



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 ❏

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.

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 (EnOcean)



Installation	Surface mounting	Power supply	Battery operated
Communication	EnOcean		

Designation	Humidity sensor*	EEP*	Item No.
RT B (EnOcean)	No	A5-10-02	1150780
		A5-10-03	
		A5-10-04	
		A5-10-06	
		A5-10-06 + RPS	
RTF B (EnOcean)	Yes	A5-10-11	1150781
		A5-10-12	
		A5-10-22	
		A5-10-23	

R-Tronic Wireless thermostat (proprietary radio communication)



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

Designation	Humidity sensor*	CO ₂ sensor	Power supply	Item No.
RT B	No	No	Battery operated	1150680
RTF B	Yes	No	Battery operated	1150681
RTFC K	Yes	Yes	Mains adaptor with table stand	1150682 °
RTFC K	Yes	Yes	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



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

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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

Valve connection	Connection thread M 30 x 1.5	Stroke	5 mm
Installation position	Any		
Installation	Plug-in connection with valve adapter		

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



Aktor T ST 0 - 10 V control

Valve connection	Connection thread M 30 x 1.5	Installation	Plug-in connection with valve adapter
Zero point detection	Yes	Stroke	5 mm
Valve travel detection	Yes	PU	500
Installation position	Any		

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 with 0 - 10 V

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).

Valve connection	Connection thread M 30 x 1.5	Direction of action adjustable	Yes
Modulating proportional actuator	Yes	Stroke	4 mm
Automatic valve anti-blocking function	Yes	Cable*	1.5 m
		Zero point detection	Yes

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

Aktor M two point and three point control



Valve connection	Connection thread M 30 x 1.5	Stroke	4 mm
Automatic valve anti-blocking function	No	Cable*	1.5 m
Direction of action adjustable	No	Zero point detection	Yes

Tension	Item No.
230 V AC	1012729

Aktor M two point control, with short operating time (3 s)



Valve connection	Connection thread M	Stroke	6.5 mm
	30 x 1.5	Cable*	1.5 m
Automatic valve anti-blocking function	No		
Contact open - drive tappet retracts	Yes		

Tension	Item No.
230 V AC	1012710
24 V AC / DC	1012711

Aktor M steady with 0 - 10 V or two point control

For Cocon QTR / QFC DN 40 / 50.



Valve connection	Squeeze connection	Stroke	10 mm
Automatic valve anti-blocking function	Yes	Cable*	1.5 m

Tension	Note	Item No.
24 V AC / DC	Additionally also for three point operation	1158012
24 V AC / DC	Additionally for emergency control function (failsafe)	1158013

Aktor M steady with 0 - 10 V or two point / three point control

For two-way valve item no. 11308.. and 16708.. DN 15 to DN 50.



Valve connection	Squeeze connection	Characteristic line	Adjustable (linear and equal percentage)
Automatic valve anti-blocking function	Yes	Stroke	10 mm
Position feedback	0 - 10 V	Cable*	1.2 m

Tension	Item No.
24 V AC / DC	1158011

Aktor M steady with 0(2) - 10 V or three point control

For Cocon QTR / QFC DN 40 to DN 100.



Valve connection	Squeeze connection	Characteristic line	Linear
Position feedback	0 - 10 V	Stroke	20 mm

Tension	Included accessory	Item No.
24 V AC	Adapter	1158020



Aktor M steady with 0(2) - 10 V resp. 0(4) - 20 mA or two point / three point control

For Cocon QTR / QFC DN 40 to DN 100.

Valve connection	Squeeze connection	Characteristic line	Linear
Position feedback	0 - 10 V	Stroke	20 mm

Tension	Version	Included accessory	Item No.
24 V AC	Electromotive, normally opening	Spring return Adapter	1158021
24 V AC	Electromotive, normally closing	Spring return Adapter	1158022



Aktor M steady with 0 - 10 V, 4 - 20 mA or two point / three point control

For Cocon QFC DN 125 to DN 200 and for two-way valves DN 65 to DN 150.

Valve connection	Squeeze connection	Stroke	40 mm
Position feedback	0 - 10 V		
Characteristic line	Adjustable (linear, square-law and equal percentage)		

Tension	Version	Included accessory	Item No.
24 V AC / DC	Electromotive	Adapter	1158030
24 V AC / DC	Electromotive, normally opening	Spring return Adapter	1158031
24 V AC / DC	Electromotive, normally closing	Spring return Adapter	1158032



Aktor M with KNX interface

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

Valve connection	Connection thread M 30 x 1.5	PU	120
Stroke	4 mm		

Tension	Item No.
21 - 32 V DC (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.

Valve connection	Connection thread M 30 x 1.5	Position feedback	0 - 100 %
Automatic valve anti-blocking function	Yes	Cable*	1.5 m
		Zero point detection	Yes

Tension	Suitable for	Stroke (mm)	Item No.
24 V AC / DC	Cocon QTZ	9	1012745
24 V AC / DC	Cocon QTR/QFC DN 40/50	14	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

Actuators with radio interface



Electronic battery operated actuators for room temperature control at the radiator with communication interface:

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

The mote 320 wireless actuator can be used in combination with R-Tronic wireless thermostats (proprietary radio communication). The actuator is configured at the R-Tronic wireless thermostat.

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	EEP*	Item No.
Connection thread M 30 x 1.5	A5-20-01	1150766



mote 200 Electronic wireless thermostat (Bluetooth)



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

Valve connection	Colour	Item No.
Connection thread M 30 x 1.5	White	1150961



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

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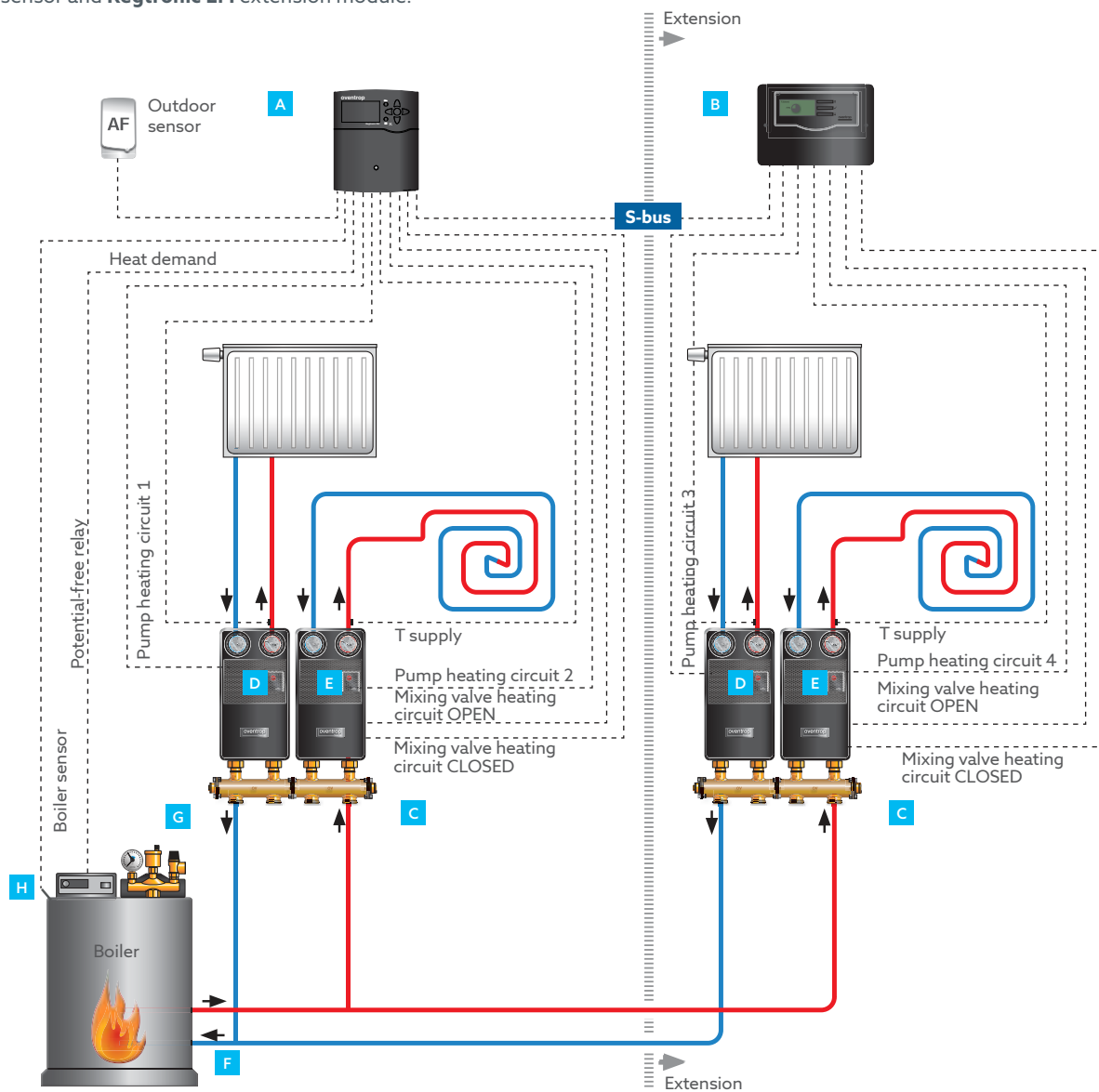
Regtronic Electronic controllers



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 intelligent 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.

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 RH Weather-compensated heating circuit controller for variable/constant temperature heating circuit

Compatible with data loggers CS-BS-6 and CS-BS-1 as well as Regtronic KM-TCP communication module. 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 AC	PWM switchable 0 - 10 V*	Yes
Sensor inputs	8	Heat meter	5
Further inputs	Pulse inputs V40 Grundfos Direct Sensor	Product compatible to	Regtronic EM

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	
1 x Outdoor sensor	
1 x Sensor attached to the pipe	
2 x Storage cylinder sensor	1357290
1 x Controller location made of expanded polypropylene with controller bracket made of metal	

ErP classification Regtronic RH heating circuit controller

Item no.	Controller	Required accessories	Boiler control			
			Modulating (0-10 V)	On/Off	ErP %	Class
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 further variable/ constant temperature heating circuits

For extending the Regtronic controller by 6 sensor inputs and 5 relay outputs.



Operating voltage	230 V AC	Product compatible to	Regtronic RH Regtronic RM Regtronic RS
Sensor inputs	6		
Solid-state relays	4		
Potential-free relays	1		

Scope of delivery

Item No.

1 x Sensor attached to the pipe	1152098
---------------------------------	---------



Regtronic RM Multifunction controller for the control of weather-compensated variable/constant temperature heating circuits as well as solar thermal systems

Compatible with data loggers 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 AC	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 data logger 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 AC	Heat meter	2
Sensor inputs			
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 data loggers CS-BS-6 and CS-BS-1.

Application	Solar	Solid-state relays	2
Operating voltage	230 V AC	Potential-free relays	1
Sensor inputs		PWM*	2
Further inputs	Pulse inputs V40		

Scope of delivery

Item No.

1 x Collector sensor	1369549
3 x Storage cylinder sensor	

Products for the networking of controls and stations



The CS-BS data loggers 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 CS-BS-6 data logger. Data from the different controllers are read in by the 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 CS-BS-6 data logger as well as the Regtronic KM-BACnet IP communication module feature a BACnet IP 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.

A maximum of one Regtronic KM or one CS-BS data logger can be connected per Regtronic controller.

CS-BS-1 Data logger



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). Use only within the EU.

Installation

Wall mounting

Item No.

1159097

CS-BS-6 Data logger



For data collection and parameterisation of up to six controllers and for integration into a building automation system via BACnet IP.

Installation

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.

Installation

Wall mounting

Item No.

1159099

Regtronic KM-BACnet IP Communication module

For integration of a controller into the building automation system BACnet IP.

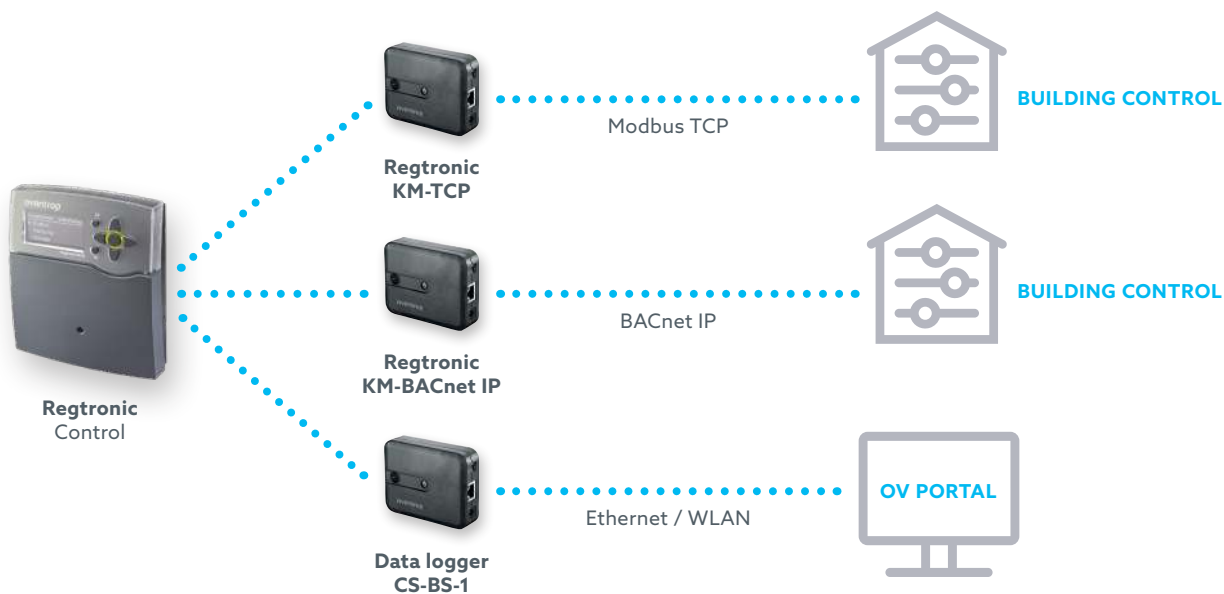






Description

Wall mounting

Item No.

1159098



Controller name	Item description	Data logger CS-BS-6	Regtronic KM-BACnet IP	Data logger CS-BS-1	Regtronic KM-TCP	Item no.
		 Item no. 1159095 Interfaces: LAN, BACnet IP	 Item no. 1159098 Interfaces: BACnet IP	 Item no. 1159097 Interfaces: LAN, WLAN	 Item no. 1159099 Interfaces: Modbus TCP	
Regtronic RH	Heating circuit control	●	●	●	●	1152080/83
Regtronic RH	Heating circuit control	●	—	●	—	1152090/93
Regtronic RH HT	Regudis H Transmission station	●	●	●	●	1391021-3037
Regtronic RQ	Regumaq X-30 Fresh water station	●	—	●	—	1381025-1037
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

Regtronic - Accessories

Sensor LW TH Temperature sensor

Suitable for all Oventrop controllers.



Description

For temperature measurement and detection in immersion sleeves and storage cylinders, PT 1000 sensor element, continuous temperature range up to 105 °C, length 3 m

Item No.

1369093

For temperature measurement and detection at collectors, PT 1000 sensor element, 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, PT 1000 sensor element, 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.

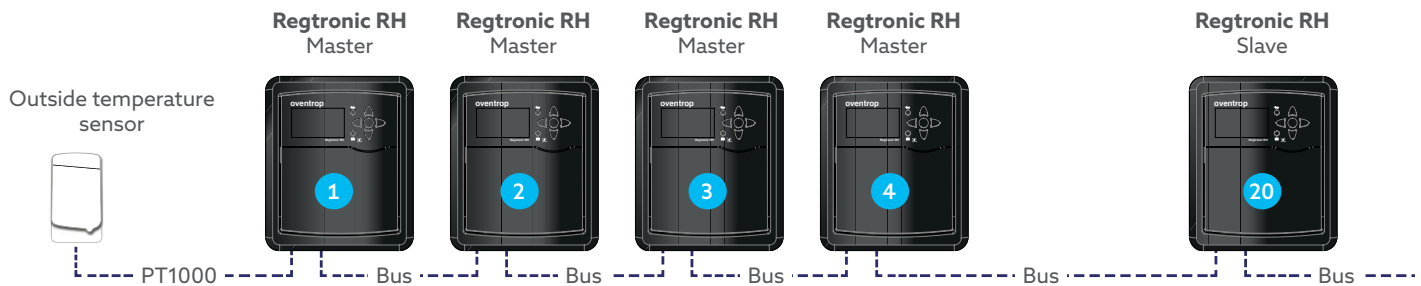


Description

For outside temperature measurement, PT 1000 sensor element, 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, PT 1000 sensor element, 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, PT 1000 sensor element, surface mounting	1152096



Room temperature sensor PT 1000

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

Description	Item No.
For room temperature measurement, PT 1000 sensor element, surface mounting	1152095



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

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

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



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

Suitable for Regtronic RH, RH-HT, EM, RM and RS.

Tension	Control	Suitable for	Item No.
230 V AC	Two point / PWM	Electrothermal actuators (two point) "normally closed"	1155021



Adapter cable PWM/0 - 10 V

Suitable for Regtronic RH, RH-HT, RM, RS and RQ.

Description

For signal transmission from the heating circuit controller to a modulating heat generator with 0 - 10 V interface

Item No.

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

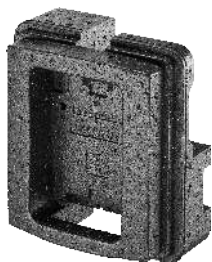
For all solar controllers.

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



Service and data

7



7 Service and data

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7.1 Service

System design **695**

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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	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) 	9900015

Basic plus

Consisting of	Item No.
<ul style="list-style-type: none"> - 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 	9900016

Premium

Consisting of	Item No.
<ul style="list-style-type: none"> - Optional: Compilation of tender texts (Word and GAEB format) - 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 	9900017

Design of industrial surface heating - premium

Consisting of	Item No.
<ul style="list-style-type: none"> - Optional: Compilation of tender texts (Word and GAEB format) 	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 - 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- Tabular output of the results	9900034

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

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Rental devices



Rental of OV-DMC 3 measuring system

Price on request at rental

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



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



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



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7.2 General information

General information **705**

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IMPRINT

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Managing directors: Jochen Fähnrich, Johannes Rump

VAT ID no.: DE124283065

Print:
BasseDruck GmbH
Leimstr. 54-58
58135 Hagen, Deutschland

We cannot accept any liability for printing errors.
We reserve the right to make modifications at any time.



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Room climate



Hydronics



Stations,
Storage cylinders



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