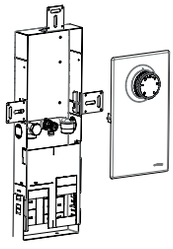
Boiler-Gas.ru
Перейти на сайт

Page

2.a System summary

Content 2.05

System summary 2.06



2.b "Unidis" Surface heating system with local flow distribution

Content 2.09

"Unibox E BV" Room temperature control with bypass (exclusive) 2.10

"Unibox RLA" Flush-mounted box for isolation 2.10

"Unibox E T" Room temperature control (exclusive) 2.10

"Unibox T" Room temperature control 2.10

"Floorbox MH" Return collector 2.11

"Floorbox U" 2.12

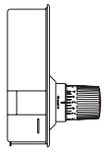
Fixing channel 2.13

Fixing channel with isolating facility 2.14

"Unibox E BV" Room temperature control with bypass (exclusive) 2.14

Pipe connection press T-piece 2.15

Pipe connection press elbow 2.15

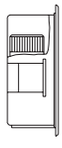


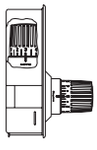
2.c "Unibox" Room temperature control with "Q-Tech" for automatic hydronic balancing

Content 2.17

"Unibox TQ" Room temperature control 2.18

"Unibox Q plus" Room temperature and return temperature control 2.18





2.d "Unibox" Room temperature control

Content 2.19

"Unibox E BV" Room temperature control with bypass (exclusive) 2.20

"Unibox RLA" Flush-mounted box for isolation 2.20

"Unibox E T" Room temperature control (exclusive) 2.20

"Unibox T" Room temperature control 2.20

"Unibox TSH" Room temperature control with "Uni SH" 2.21

"Unibox E plus" Room and return temperature control (exclusive) 2.22

"Unibox E vario" Room and return temperature control (exclusive, closed) 2.22

"Unibox E RTL" Return temperature control (exclusive) 2.22

"Unibox plus" Room and return temperature control 2.23

"Unibox RTL" Return temperature control 2.23

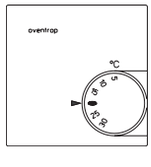
Conversion set "Unibox T" 2.24

Accessories 2.24

Valve inserts 2.26

Gland nut 2.26

Duo connection piece 2.26



2.e Room thermostats

Content 2.27

Room thermostats (heating) 2.28

Room thermostats (heating/cooling) 2.29

Page

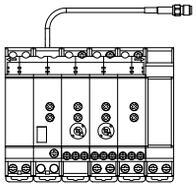
2.f Room thermostats with wireless transmitter, wireless receivers

Content 2.31

"R-Tronic RT B" Wireless thermostat 2.33

"R-Tronic RTF B" Wireless thermostat with humidity display 2.33

"R-Tronic RTFC K" Wireless thermostat with humidity and CO_2 display 2.33



Accessories 2.34

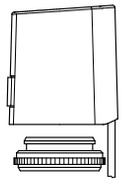
"FK-C F" Wireless window contact 2.34

"RP-S F" Wireless repeater 2.34

"RP-C F" Wireless repeater 2.34

"Synet CR" Gateway 2.35

"R-Con" Wireless receiver 2.36

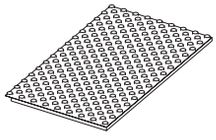


2.g Actuators

Content 2.37

"Aktor T" Electrothermal actuators 2.38

Accessories 2.38

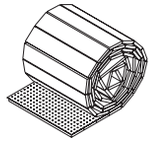


2.h "Cofloor" Systems, "Copex" Pipes and accessories

Content 2.39

"Cofloor" Base mat system 2.40

"Cofloor" Base mat system NP-R 2.42

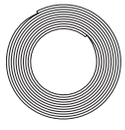


"Cofloor" Tacker system 2.43

"Cofloor" Clamping rail system 2.44

"Cofloor" Dry-build system 2.45

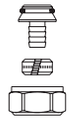
Accessories 2.46



PE-Xc "Copex" Plastic pipes 2.48

PE-RT/AL/PE-RT "Copipe HSC" Composition pipes 2.48

PE-RT "Copert" Plastic pipes 2.49

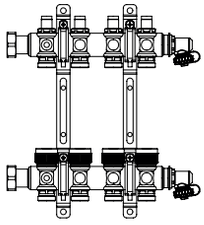


"Ofix K" Compression fittings 2.50

"Cofit S" Compression fittings 2.50

Double nipples 2.51

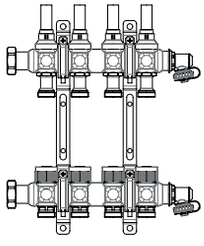
"Cofit P" Press couplings 2.51



2.i "Multidis SFQ" distributor/collector with "Q-Tech" for automatic hydronic balancing

Content 2.53

"Multidis SFQ" Stainless steel distributor/collector 2.54



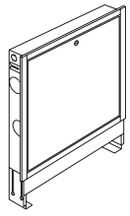
2.j "Multidis SF/SFB/SFI" Distributors/collectors for surface heating and cooling systems

Content 2.55

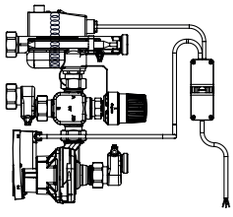
"Multidis SF" Stainless steel distributor/collector 2.56

"Multidis SFB" Stainless steel distributor/collector 2.57

"Multidis SFI" Brass distributor/collector for industrial surface heating and cooling systems 2.57

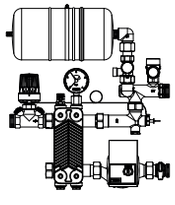


	Page
Accessories	2.58
"Optiflex" Ball valve	2.58
"Cofit S" Compression fittings	2.58
Valve insert for stainless steel distributors/collectors "Multidis SF"	2.59
Ball valves	2.59
Flush-mounted cabinets	2.60
Surface-mounted cabinets	2.60
Cylinder lock	2.61
Heat meter connection sets	2.62
Differential pressure relief device	2.62
Angle pattern connection set	2.63
"Hycocon VTZ" Double regulating and commissioning valve	2.63
"Hycocon DTZ" Differential pressure regulator	2.63



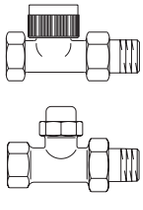
2.k "Regufloor" Control units

Content	2.65
"Regufloor H"	2.66
"Regufloor HW"	2.66
"Regufloor HN"	2.66
System components	2.67
"Regtronic EH" Heating circuit controller	2.68
"Regtronic RH" Heating circuit controller	2.68
"Regtronic EM" Extension module	2.68
Accessories	2.69
"Regufloor HC"	2.70
System components for "Regufloor HC"	2.70
"Tri-D TR" Three-way diverting valves PN 16	2.71
"Tri-M TR" Three-way mixing valves PN 16	2.71
"Tri-CTR" Three-way diverting and mixing valves PN 16	2.71
"Regufloor HX"	2.72



2.l Single components for distributors/collectors

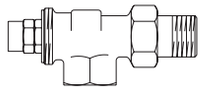
Content	2.73
Individual components for distributor systems	2.74
Accessories	2.75

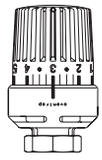


2.m Regulating sets for surface heating systems

Content	2.77
Regulating sets for surface heating systems	2.78

Page





2.n Return temperature limiter set

Content 2.81

Return temperature limiter set 2.82

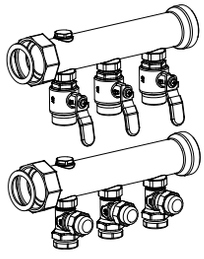
Return temperature limiters 2.82

Thermostat "Uni RTLH" 2.82

Thermostat "Uni RTL" 2.82

Valve inserts 2.82

Gland nut 2.82



2.o Components for concrete core activation

Content 2.83

"Multidis SF" Stainless steel distributor/collector 2.84

PE-Xc "Copex" Plastic pipes 2.84

"Cofit S" Compression fittings 2.84

"Multidis SFI" Brass distributor/collector for industrial surface heating/concrete core activation 2.85

PE-Xc "Copex" Plastic pipes 2.85

"Cofit S" Compression fittings 2.85

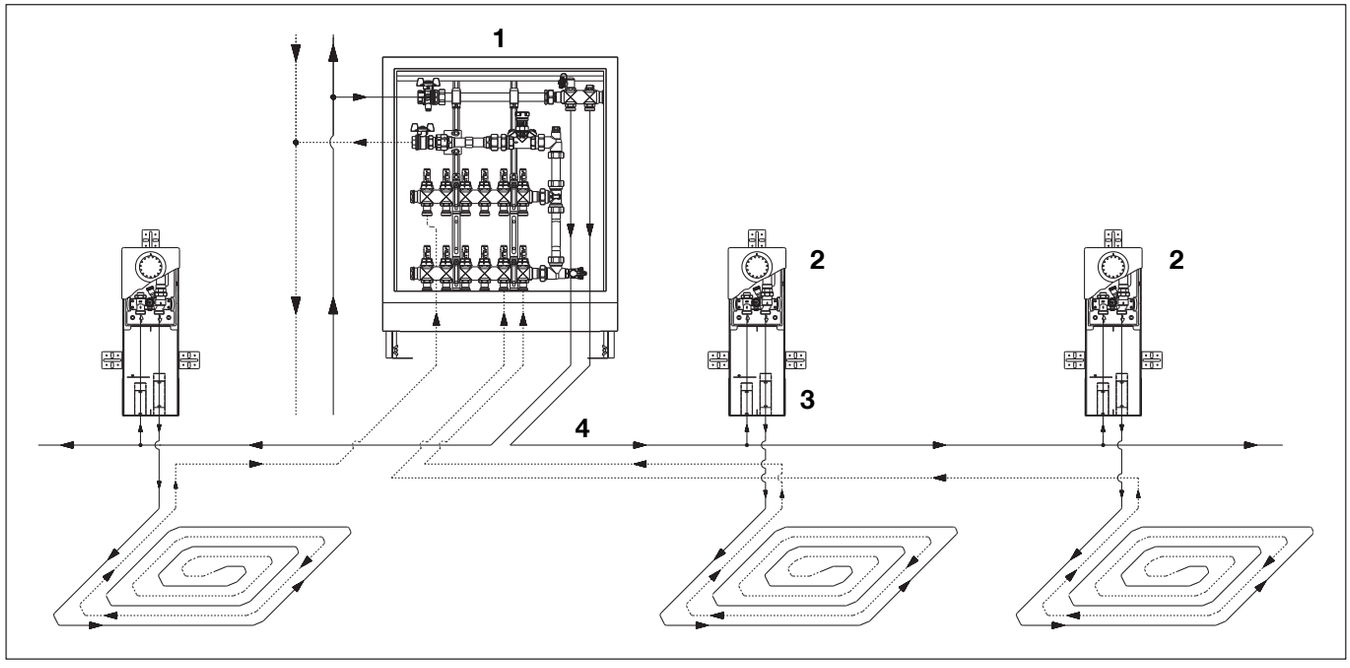
"Optiflex" Ball valve 2.86

2.a System summary

Content

Page

System summary 2.06



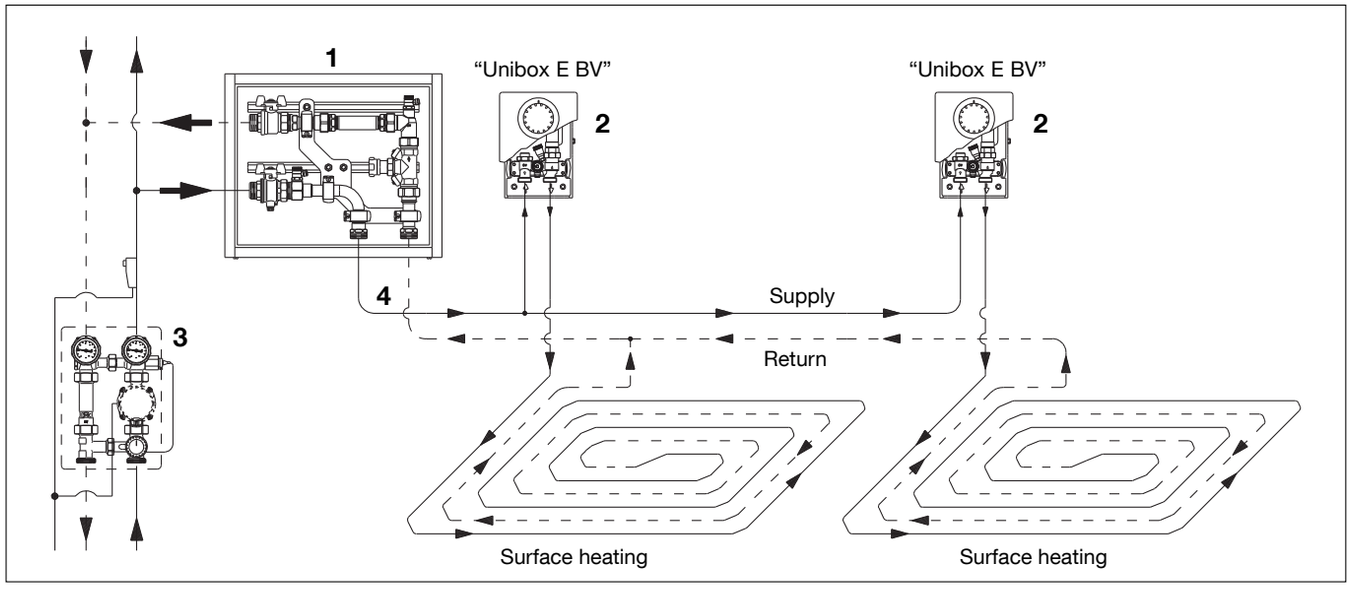
System illustration: “Unidis” Surface heating with return collector “Floorbox MH”, “Unibox E BV” and fixing channel

1 “Floorbox MH” Return collector

2 “Unibox E BV”

3 Fixing channel

4 “Copipe” Composition pipe
“Copex” PE-Xc pipe
“Copert” PE-RT pipe



System illustration: “Unidis” Surface heating with “Floorbox UH” and “Unibox E BV”

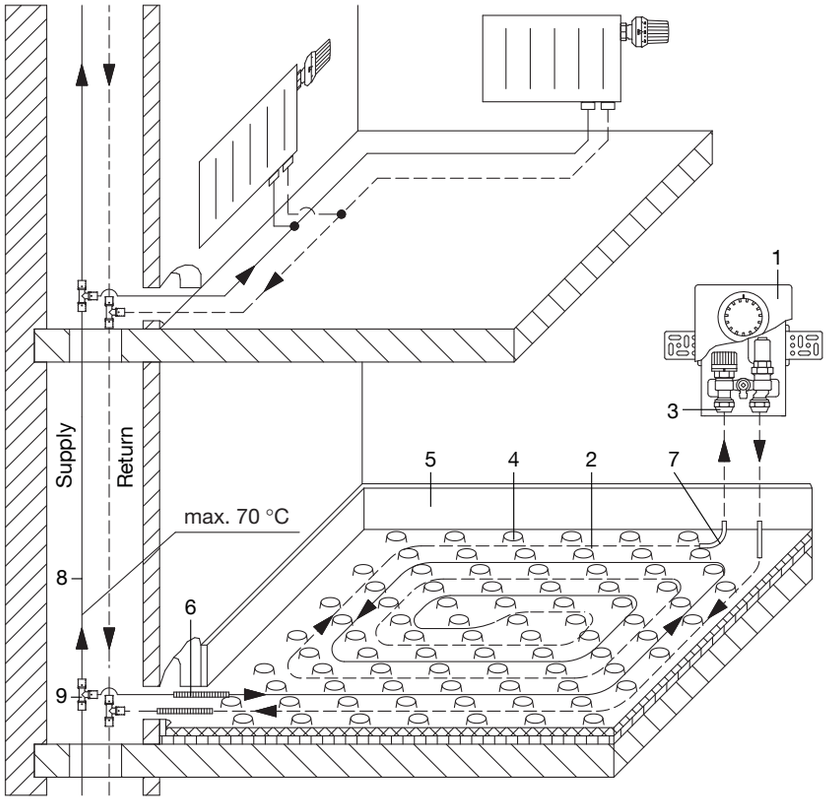
1 “Floorbox UH”

2 “Unibox E BV”

3 “Regumat F-130/180” Fixed value control unit

4 “Copipe” Composition pipe
“Copex” PE-Xc pipe
“Copert” PE-RT pipe

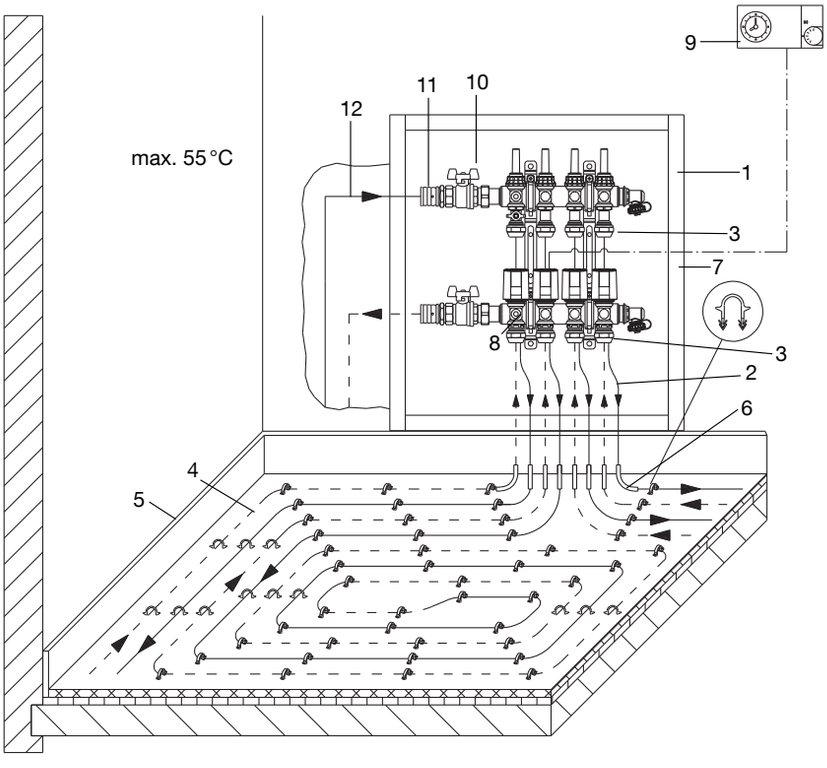
Examples of the application (further examples see product ranges “Unibox”, “Multidis” stainless steel distributors/collectors and “Combi-System”)



“Cofloor” Surface heating with “Unibox E plus” individual room temperature control

consisting of the Oventrop components:

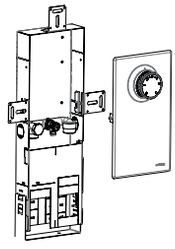
1 “Unibox E plus” Installation set
2 “Copex” PE-Xc pipe
3 “Ofix K” Compression fittings
4 Base mat
5 Edge insulating strip
6 Protection pipe, slit
7 Pipe guiding elbow
8 “Copipe HSC” Composition pipe
9 “Cofit P” Press T-piece



“Cofloor” Surface heating and cooling with stainless steel distributor/collector “Multidis SF”

consisting of the Oventrop components:

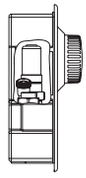
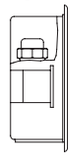
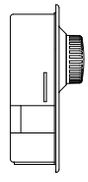
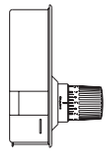
1 “Multidis SF” Stainless steel distributor/ collector
2 “Copex” PE-Xc pipe
3 “Ofix K” Compression fitting
4 Tacker board
5 Edge insulating strip
6 Pipe guiding elbow
7 Cabinet
8 Electrothermal actuator
9 Room thermostat – clock
10 “Optibal” Ball valve
11 “Cofit P” Press connection
12 “Copipe HSC” Composition pipe



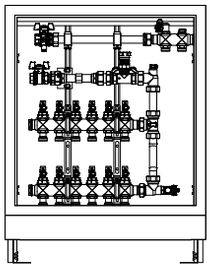
2.b "Unidis" Surface heating system with local flow distribution

Content

	Page
"Unibox E BV" Room temperature control with bypass (exclusive)	2.10
"Unibox RLA" Flush-mounted box for isolation	2.10
"Unibox E T" Room temperature control (exclusive)	2.10
"Unibox T" Room temperature control	2.10
"Floorbox MH" Return collector	2.11
"Floorbox U"	2.12
Fixing channel	2.13
Fixing channel with isolating facility	2.14
"Unibox E BV" Room temperature control with bypass (exclusive)	2.14
Pipe connection press T-piece	2.15
Pipe connection press elbow	2.15

Article	kvs	kv at 1K P-dev.	kv at 2K P-dev.	Article-No.	Hint
"Unibox E BV" Room temperature control with bypass (exclusive) Combination room temperature control and presettable bypass Depth: 57 mm					Application: **For installations with flow temperatures suitable for surface heating systems** according to DIN EN 1264. Installation set consisting of: Wall box unit with thermostatic valve with integrated bypass stem and regulating insert, working without auxiliary energy. Venting and flushing valve, valve insulation, cover plate and thermostat with '0' setting. Valve connection G ¾ for Oventrop compression fittings. For the division of the heating water volume flow into a thermostatically controlled volume flow and a bypass volume flow. The bypass volume flow allows for the setting of a basic heat load (no cooling down).
	0.81	0.34	0.57	**1022662**	
I-57-I 	**"Unibox RLA" Flush-mounted box for isolation** Combination isolating and regulating function				Installation set for the isolation of surface heating circuits in combination with "Uniboxes". Page 2.20.
	**"Unibox E T" Room temperature control (exclusive)** Room temperature control				Installation set consisting of: Wall box unit with presettable thermostatic valve, venting and flushing valve. Page 2.20.
I-57-I 	**"Unibox T" Room temperature control** Room temperature control with thermostat "Uni LH"				Installation set consisting of: Wall box unit with presettable thermostatic valve, venting and flushing valve, cover plate and thermostat "Uni LH". Page 2.20.

Article	Article-No.	Hint



"Floorbox MH" Return collector
for "Unidis" surface heating

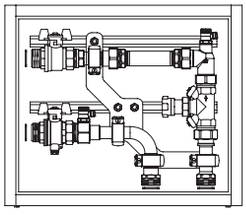
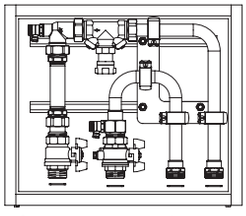
Central consolidation of heating circuit returns
in the "Unibox" system, lateral riser connection

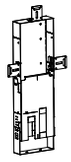
with one return collector (6-fold) for 6 circuits	**1027053°**
with two return collectors (4-fold each) for 8 circuits	**1027054°**
with two return collectors (5-fold each) for 10 circuits	**1027055°**
with two return collectors (6-fold each) for 12 circuits	**1027056°**

The "Floorbox MH" is used for central consolidation of the individual heating circuit returns together with "Uniboxes".
(Riser connection from the right and left hand side)

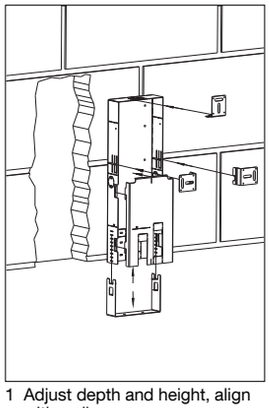
Installation set consisting of:
-Cabinet
Supply:
– Ball valve with temperature sensor connection
– 2-fold distributor for the connection of two supply pipes to the boxes

Return:
– Two return collectors (with flow measuring and regulating inserts)
– Fill and drain cock
– Vent plug
– "Hycocon VTZ" Double regulating and commissioning valve
– Meter stool piece
– Ball valve

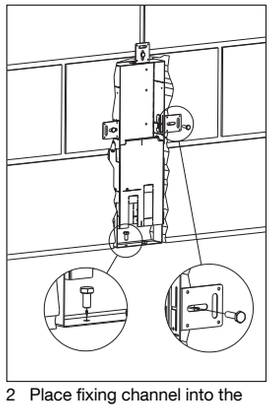
	Article	Article-No.	Hint
	"Floorbox U" Connection without distributor/collector for surface heating systems		The "Floorbox" serves to connect each dwelling to the surface heating system together with the installation sets "Unibox".
 lateral connection	"Floorbox UH" lateral riser connection	**1022668**	Installation set consisting of: Supply: - Ball valve G 1 with temperature sensor connection Return: - "Hycocon VTZ" Double regulating and commissioning valve - Meter stool piece - Ball valve with coupling - Venting and flushing valve - Flat seals Depth: 110 - 145 mm Width: 400 mm Height: 350 mm System illustration: page 2.06 For further information see "Technical information":
 lower connection	"Floorbox UV" lower riser connection	**1022669**	

Article	Article-No.	Hint
Fixing channel		For heavyweight and lightweight walls, made of galvanised steel sheet for pipework installation out of the ground into the wall to the "Unibox". An additionally required installation set of the "Unibox" range has to be ordered separately and has to be installed in the fixing channel. Assembly without screws or rivets. Adaptation to the installation height via an adjustable extension. The adaptation to the installation depth for heavyweight walls is carried out by use of elbows. The fixing channel of lightweight walls is screwed directly onto the profiles. Additional cut-outs in the reverse side of the fixing channel allow the connection of the "Unibox" even from an adjoining room. The "Unibox" has to be mounted in the fixing channel only shortly before plastering commences. An exact installation of the "Unibox" is guaranteed by the variable installation options. The connection openings (rated break points) of the fixing channel allow the connection of all remote controls, remote sensors (mechanical or electric).
 for "Unibox", depth: 57 mm	**1022653**	Height: 440 - 490 mm (extendible) Width: 160 mm

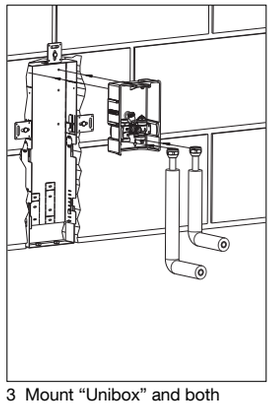
Sequence of installation (summary):



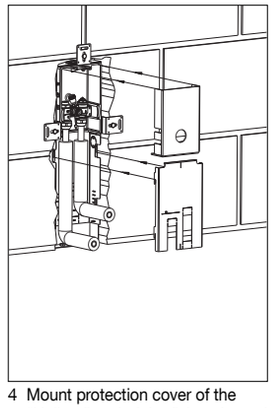
1 Adjust depth and height, align with wall recess



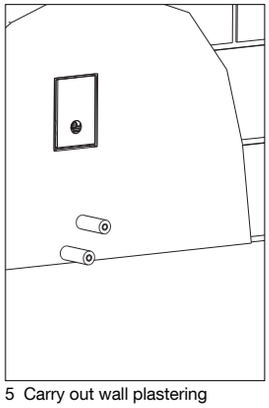
2 Place fixing channel into the wall



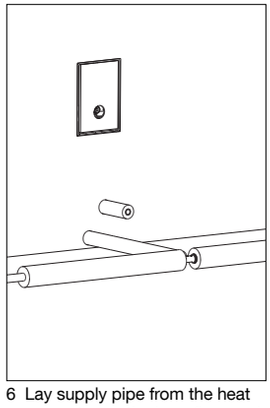
3 Mount “Unibox” and both supply connection pieces



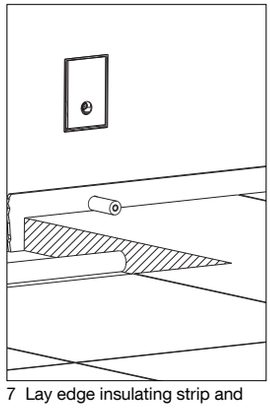
4 Mount protection cover of the “Unibox” and of the fixing channel



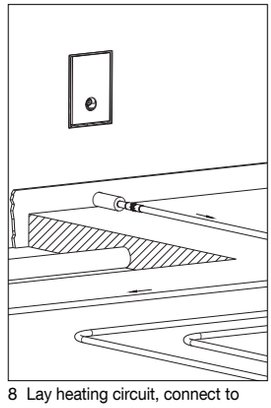
5 Carry out wall plastering



6 Lay supply pipe from the heat generator on the bare floor and insulate

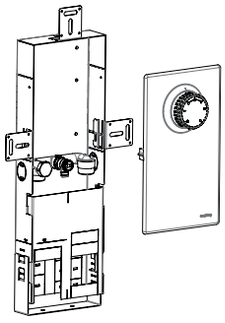


7 Lay edge insulating strip and system board



8 Lay heating circuit, connect to supply connection piece and feed return to return collector

Article	Article-No.	Hint



Fixing channel with isolating facility
with cover plate and thermostat with remote control

for "Unibox", depth: 57 mm **1022654**

For heavyweight and lightweight walls, made of galvanised steel sheet for pipework installation out of the ground into the wall to the "Unibox".

An addtional installation set of the "Unibox" programme has to be ordered separately and has to be fit into the fixing channel.

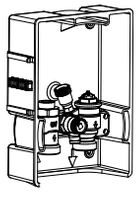
For this purpose, the "Unibox E BV" is available without cover plate (see item no. 1022676).

For the connection without distributors/ collectors and the room to room isolation of surface heating circuits.

Isolating facility consisting of:
Isolating valve, venting and flushing valve. Valve connection G ¾ for Oventrop compression fittings.

Assembly without screws or rivets. Adaptation to the installation height via an adjustable extension. The adaptation to the installation depth for heavyweight walls is carried out by use of elbows. In case of of lightweight walls, the fixing channel is screwed directly onto the profiles. Additional cut-outs in the reverse side of the fixing channel allow the connection of the "Unibox" even from an adjoining room.

The "Unibox" has to be mounted in the fixing channel only shortly before plastering commences. A special cover plate for the "Unibox" is supplied with the fixing channel. An exact installation of the "Unibox" is guaranteed by the variable installation options. The connection openings (rated break points) of the fixing channel allow for the connection of all remote controls, remote sensors (mechanical or electric).
Height: 440 - 490 mm (extendible)
Width: 160 mm



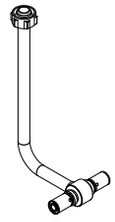
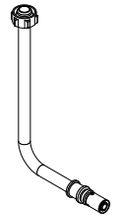
"Unibox E BV" Room temperature control with bypass (exclusive) without cover plate and thermostat

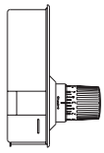
Combination room temperature control and presettable bypass **1022676**

Application:
For installations with flow temperatures suitable for surface heating systems according to DIN EN 1264.
Installation set for use in the fixing channel with heating circuit isolation (item no. 1022654).

Installation set consisting of:
Wall box unit without cover plate, with thermostatic valve with integrated bypass stem and regulating insert, working without auxiliary energy. Venting and flushing valve and valve insulation. Valve connection G ¾ for Oventrop compression fittings.

For the division of the heating water volume flow into a thermostatically controlled volume flow and a bypass volume flow. The bypass volume flow allows for the setting of a basic heat load (no cooling down).

	Article	Article-No.	Hint
	**Pipe connection press T-piece** Pipe made of stainless steel, fitting made of brass for composition pipe "Copipe", with "Ofix CEP" - Snap & Seal - compression fitting for male thread G ¾ according to DIN EN 16313 (cone "Euro") 16 x 2.0 mm 20 x 2.5 mm	 **1515153** **1515156**	Height: 321 mm Stainless steel pipe: Ø 15 x 1.0 mm For a simple connection of the "Unibox" to the supply pipe or the heating loop via the fixing channel. The pipes have to be shortened according to the required installation height.
	**Pipe connection press elbow** Pipe made of stainless steel, fitting made of brass for composition pipe "Copipe", with "Ofix CEP" - Snap & Seal - compression fitting for male thread G ¾ according to DIN EN 16313 (cone "Euro") 16 x 2.0 mm 20 x 2.5 mm	 **1515353** **1515356**	



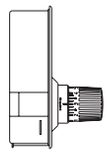
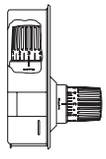
2.c "Unibox" Room temperature control with "Q-Tech" for automatic hydronic balancing

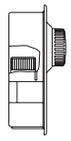
Content

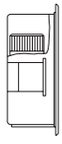
Page

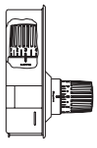
"Unibox TQ" Room temperature control 2.18

"Unibox Q plus" Room temperature and return temperature control 2.18

Article	Article-No.	Hint
 **"Unibox TQ" Room temperature control** with "Q-Tech" for automatic hydronic balancing Room temperature control with thermostat "Uni LH" Depth: 57 mm white	**1022686**	Application: **For installations with flow temperatures suitable for surface heating systems** according to DIN EN 1264. Installation set consisting of: Wall box unit with presettable thermostatic valve with valve insert "QA", venting and flushing valve, cover plate and thermostat "Uni LH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings. For room temperature control. "Q-Tech" function: The valve insert "QA" is a combined control and regulating insert which is used for room temperature control in combination with thermostats with liquid sensor or actuators. The max. flow rate is set to the required nominal value and is constantly maintained within the necessary proportional band. Temperature range: 7 - 28 °C (room temperature) Flow range: 10 - 170 l/h Presetting is carried out by using the presetting key supplied with the "Unibox".
 **"Unibox Q plus" Room temperature and return temperature control** with "Q-Tech" for automatic hydronic balancing Combination thermostat "Uni LH" and thermostat "Uni RTLH" Depth: 57 mm white	**1022684**	"Unibox" individual room temperature control and limitation of return temperature for surface heating systems. Application: In combination with heating systems with radiator operation. Installation set consisting of: Wall box unit with presettable thermostatic valve with valve insert "QA", RTLH valve, venting and flushing valve, cover plate and thermostats "Uni LH" and "Uni RTLH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings. The RTLH valve insert with double disc prevents inadvertent overheating, with frost protection. For room temperature control and return temperature limitation. Temperature range: 7-28 °C (room temperature) Temperature range: 10–40 °C factory setting (return temperature) may be increased to 50 °C by cancelling the limitation (40 °C). Flow range: 10 - 170 l/h Presetting is carried out by using the presetting key supplied with the "Unibox".







2.d "Unibox" Room temperature control

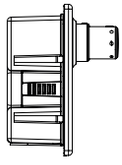
Content

	Page
"Unibox E BV" Room temperature control with bypass (exclusive)	2.20
"Unibox RLA" Flush-mounted box for isolation	2.20
"Unibox E T" Room temperature control (exclusive)	2.20
"Unibox T" Room temperature control	2.20
"Unibox TSH" Room temperature control with "Uni SH"	2.21
"Unibox E plus" Room and return temperature control (exclusive)	2.22
"Unibox E vario" Room and return temperature control (exclusive, closed)	2.22
"Unibox E RTL" Return temperature control (exclusive)	2.22
"Unibox plus" Room and return temperature control	2.23
"Unibox RTL" Return temperature control	2.23
Conversion set "Unibox T"	2.24
Accessories	2.24
Valve inserts	2.26
Gland nut	2.26
Duo connection piece	2.26

Article	kvs	kv at 1K P-dev.	kv at 2K P-dev.	Article-No.	Hint
"Unibox E BV" Room temperature control with bypass (exclusive) Combination room temperature control and presettable bypass Depth: 57 mm					**"Unibox E" (exclusive model) and "Unibox" individual room temperature control for surface heating systems** Application: **For installations with flow temperatures suitable for surface heating systems** according to DIN EN 1264. Installation set consisting of: Wall box unit with thermostatic valve with integrated bypass stem and regulating insert, working without auxiliary energy. Venting and flushing valve, valve insulation, cover plate and thermostat with '0' setting. Valve connection G ¾ for Oventrop compression fittings. For the division of the heating water volume flow into a thermostatically controlled volume flow and a bypass volume flow. The bypass volume flow allows for the setting of a basic heat load (no cooling down).
white	0.81	0.34	0.57	**1022662**	
"Unibox RLA" Flush-mounted box for isolation Combination isolating and regulating function Depth: 57 mm					Installation set consisting of: Wall box unit with isolating valve, venting and flushing valve and closed cover plate. Valve connection G ¾ for Oventrop compression fittings. For the isolation of surface heating circuits in combination with the installation sets "Unibox".
white				**1022663**	
"Unibox E T" Room temperature control (exclusive) Room temperature control Depth: 57 mm					Installation set consisting of: Wall box unit with presettable thermostatic valve, venting and flushing valve, valve insulation, cover plate and thermostat with '0' setting. Valve connection G ¾ for Oventrop compression fittings. For room temperature control. Temperature range: 7 - 28 °C (room temperature)
white	0.81	0.34	0.57	**1022632**	
"Unibox T" Room temperature control Room temperature control with thermostat "Uni LH" Depth: 57 mm					Installation set consisting of: Wall box unit with presettable thermostatic valve, venting and flushing valve, cover plate and thermostat "Uni LH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings. For room temperature control. Temperature range: 7 - 28 °C (room temperature) The models "Unibox E T", "Unibox T" and "Unibox TSH" comply with the requirements of the German Energy Saving Directive (EnEV § 14).
white	1.10	0.36	0.67	**1022636**	
chrome plated	1.10	0.36	0.67	**1022646°**	

Article	kvs	kv at 1K P-dev.	kv at 2K P-dev.	Article-No.	Hint

"Unibox TSH" Room temperature control with "Uni SH"
Room temperature control
with thermostat "Uni SH"
Depth: 57 mm



white

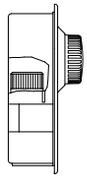
0.81	0.34	0.57	**1022612**	

Application:
For installations with flow temperatures suitable for surface heating systems according to DIN EN 1264.
Installation set consisting of:
Wall box unit with presettable thermostatic valve, venting and flushing valve, angle pattern adapter, frame, cover plate and thermostat "Uni SH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings.
For room temperature control.
Temperature range: 7-28 °C
(room temperature)
The models "Unibox E T", "Unibox T" and "Unibox TSH" comply with the requirements of the German Energy Saving Directive (EnEV § 14).

For further information see
"Technical information":

Article	kvs	kv at 1K P-dev.	kv at 2K P-dev.	Article-No.	Hint

"Unibox E plus" Room and return temperature control (exclusive)
Combination room temperature control and limitation of return temperature
Depth: 57 mm



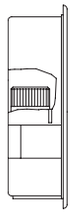
white	0.81	0.34	0.57	**1022633**
chrome plated	0.81	0.34	0.57	**1022643**
stainless steel finish	0.81	0.34	0.57	**1022673**

"Unibox E" (exclusive model) individual room temperature control and limitation of return temperature for surface heating systems

Application:
In combination with heating systems with radiator operation.
Installation set consisting of:
Wall box unit with presettable thermostatic valve and integrated return temperature limiter, venting and flushing valve, valve insulation, cover plate and thermostat with '0' setting. Valve connection G ¾ for Oventrop compression fittings.
For the control of the room temperature and limitation of the return temperature.
Temperature range: 7-28 °C
(room temperature)
20-40 °C (return temperature)

Good Design Award Japan

"Unibox E vario" Room and return temperature control (exclusive, closed)
Basic model for limitation of return temperature (concealed)
Depth: 57 mm



white	0.81	0.34	0.57	**1022634**
chrome plated	0.81	0.34	0.57	**1022644**

Room temperature control is possible by mounting the following thermostats (to be ordered separately):

– **Thermostat with remote control "Uni FH"** (page 2.75)

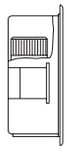
or:

– **room thermostat (page 2.28) and actuator** (page 3.85)

Installation set consisting of:
Wall box unit with presettable thermostatic valve and integrated return temperature limiter, venting and flushing valve and closed cover plate. Valve connection G ¾ for Oventrop compression fittings.
For the control of the room temperature and limitation of the return temperature.
Temperature range: 20-40 °C
(return temperature)
Room temperature depending on the used control.

For further information see "Technical information":

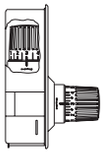
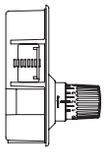
"Unibox E RTL" Return temperature control (exclusive)
Limitation of return temperature (concealed)
Depth: 57 mm

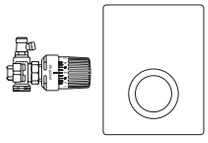
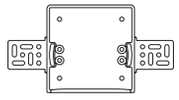
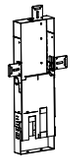
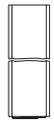
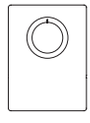
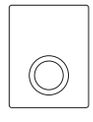
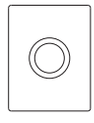
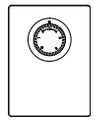


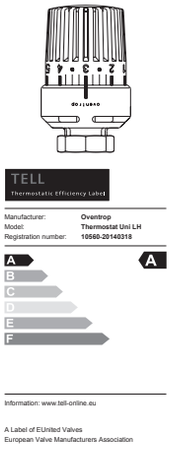
white	**1022631**
chrome plated	**1022641**

Limitation of the return temperature from the outside:
page 2.23, item no. 1022635

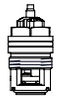
The models
- "Unibox E plus"
- "Unibox E vario"
comply with the requirements of the German Energy Saving Diretive (EnEV § 14).

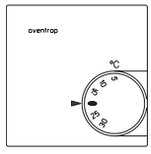
Article	kvs	kv at 2K P-dev.	Article-No.	Hint
"Unibox plus" Room and return temperature control Combination thermostat "Uni LH" and thermostat "Uni RTLH" Depth: 57 mm				**„"Unibox" individual room temperature control and limitation of return temperature for surface heating systems.**
 white	1.10	0.67	**1022637**	Application: In combination with heating systems with radiator operation. Installation set consisting of: Wall box unit with presettable thermostatic valve and RTLH valve, venting and flushing valve, cover plate and thermostats "Uni LH" and "Uni RTLH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings. The RTLH valve insert with double disc prevents inadvertent overheating, with frost protection. For the control of the room temperature and limitation of the return temperature. Temperature range: 7–28 °C (room temperature) Temperature range: 10–40 °C factory setting (return temperature) may be increased to 50 °C by cancelling the limitation (40 °C) . Awards "Unibox Plus": Interclima Paris Trophée du Design Interclima Paris Concours de l'Innovation
"Unibox RTL" Return temperature control with thermostat "Uni RTLH" Depth: 57 mm				Installation set consisting of: Wall box unit with RTLH valve, venting and flushing valve, cover plate and thermostat "Uni RTLH" with '0' setting. Valve connection G ¾ for Oventrop compression fittings. The RTLH valve insert with double disc prevents inadvertent overheating, with frost protection. For return temperature limitation. Temperature range: 10–40 °C factory setting (return temperature) may be increased to 50 °C by cancelling the limitation (40 °C).
 white			**1022635**	The models – "Unibox plus" – "Unibox vario" comply with the requirements of the German Energy Saving Directive (EnEV § 14). For further information see "Technical information":

	Article	Packing unit	Article-No.	Hint
	Conversion set "Unibox T"			Position 1 - 4 are used for the conversion of a "Unibox E RTL" to a "Unibox T".
	for "Unibox E RTL" consisting of: 1 Presettable thermostatic valve 2 Thermostat "Uni LH" 3 Spacer, screws 4 White cover plate		**1022639**	
	5 Wall box unit 6 Bracket 7 Protection cover plate			A "Unibox E RTL" can be re-assembled by use of the valve dismounted before and positions 5 - 7.
	Accessories			
	Fixing channel for "Unibox", depth: 57 mm		**1022652**	Made of galvanised steel sheet, with cover made of gypsum plaster board. Height: extendible between 275 and 350 mm Width: 130 mm
	for "Unibox", depth: 57 mm		**1022653**	Made of galvanised steel sheet Height: extendible between 440 and 490 mm Width: 160 mm
	Pipe conduit unit for "Unibox", depth: 57 mm		**1022650**	Suitable for the wall box units. For a simple installation of the pipe into the wall. May be easily reduced to other dimensions. L = 1 m.
	Cover plates white (RAL 9016) chrome plated		**1022687** **1022688**	For "Unibox E BV", "Unibox E plus", and "Unibox E T" with depth 57 mm.
	closed white (RAL 9016)		**1022679**	For "Unibox E vario" with depth 57 mm.
	white (RAL 9016) chrome plated		**1022689** **1022690**	For "Unibox E RTL" with depth 57 mm.
	white (RAL 9016) chrome plated		**1022693** **1022694**	For "Unibox RTL", "Unibox T", "Unibox plus", "Unibox TQ" and "Unibox Q plus" with depth 57 mm.
	white (RAL 9016) chrome plated	(2)	**1022691** **1022692**	For "Unibox RTL", "Unibox T" and "Unibox plus" with depth 110 mm.
	Cover plate with thermostat with remote control chrome plated		**1022697**	

	Article	Packing unit	Article-No.	Hint
	Thermostat "Uni RTLH"			With '0' setting, may be liminted or locked. Temperature range: 10 °C - 40 °C factory setting (return temperature) may be increased to 50 °C by cancelling the limitation (40 °C).
	white	(25)	**1027165**	
	chrome plated	(25)	**1027172**	
	Thermostat "Uni LH"			
	white	(10)	**1011465**	with '0' setting Busse Design Ulm Longlife Design Award
	chrome plated with collar nut cover	(25)	**1011469**	

Thermostat accessories: Pages 1.17, 10.10

	Article	kv at 2K P-dev.	Packing unit	Article-No.	Hint
	Valve inserts				
	"AV 9, CV 9, RFV 9, E" and "Multiblock T-RTL" (manufactured since 2016)	0.67	(100)	**1187047**#	Also for "Hycocon ETZ" (manufactured since 2016).
	for return flow valves connection thread M 30 x 1.5		(100)	**1026981**	Valve insert with double disc. Prevents inadvertent overheating, with frost protection.
	"AV 6, RFV 6, E" and "Multiblock T-RTL" (manufactured up to 2015)	0.65	(100)	**1187057**#	Also for "Hycocon ETZ" (manufactured up to 2015 inclusive). #These valve inserts are suitable for all valve bodies with connection thread M 30 x 1.5 of all sizes of the thermostatic valves "A, AV 9, AQ, AV 6, ADV 9, ADV 6, CV 9, E, EQ, AF, RF, RFV 9, RFQ and RFV 6".
	Valve insert RTLH		(100)	**1026970**	Special valve insert for reversed supply and return pipe for "Unibox RTL".
	Special valve insert for reversed supply and return pipe with presetting				As replacement for: – "Multiblock T/TU/TFU" – "Unibox E T" – "Unibox E plus" – "Unibox E vario" – "Unibox E BV" In case of reversed direction of flow for: – "Unibox T" – "Unibox TQ" – "Unibox plus" (connection for room temperature control) – "Unibox vario" (connection for room temperature control) – "Unibox Q plus" (connection for room temperature control)
	"AV6U"	0.52	(100)	**1187077°**	
	"AV9U"	0.57	(100)	**1187078***	
	Extensions L = 20 mm				
	for thermostatic valves		(10)	**1022698**	For "Unibox T", "Unibox plus", "Unibox TQ" and "Unibox Q plus".
	for RTLH valves		(10)	**1022699**	For "Unibox RTL", "Unibox vario", "Unibox TQ" and "Unibox Q plus".
	Gland nut				
	Set = 5 pieces		(10)	**1026986**	
	Duo connection piece				
	1 x G ¾ collar nut 2 x G ¾ male thread			**1022655**	For the connection of two heating circuits.



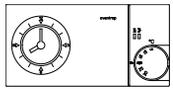
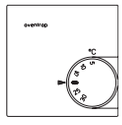
2.e Room thermostats

Content

Page

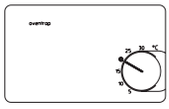
Room thermostats (heating) 2.28

Room thermostats (heating/cooling) 2.29

	Article	Packing unit	Article-No.	Hint
	Room thermostats (heating)			
	**Room thermostat-clock - surface mounting (heating)** with daily setting 230 V	(78)	**1152551**	The electric room thermostat-clock is required for individual room temperature control of heating systems in combination with the electrothermal actuators (two point) "Aktor T 2P". Output signal pulse-width modulation. Temperature range: 5 °C up to 30 °C Heating: Use electrothermal actuators (two point) “closed with current off”. Central temperature setback is carried out according to a timed programme. Limitation of the control range by using the concealed limiting elements.
	with weekly setting 230 V		**1152552**	
	24 V		**1152554**	
	**Room thermostat - surface mounting (heating)** Heating two point control 230 V	(25)	**1152051**	The electric thermostat is used for individual room temperature control in combination with the electrothermal actuators (two point) "Aktor T 2P". Temperature range: 5 °C up to 30 °C Heating: Use electrothermal actuators (two point) "closed with current off". As for item no. 1152051/52/55/71/72, temperature may be set back by use of an external time switch (item no. 1152551/52 for 230 V, item no. 1152554 for 24 V). Cooling: Use electrothermal actuators (two point) "open with current off". Limitation of the control range of item no. 1152051/52/71/72 by using the concealed limiting elements.
	24 V	(25)	**1152052**	
	230 V with concealed temperature setting	(25)	**1152055***	
	Room thermostat - flush mounting (heating) Heating two point control 230 V	(128)	**1152071**	
	24 V	(128)	**1152072**	
	Room thermostat - flush mounting (heating) with display Heating two point control 230 V	(40)	**1152561**	With LCD display and adjustable timed programme. Temperature range: 5 °C up to 35 °C Operating current range (item no. 1152561): 100 up to 230 V AC Heating: Use electrothermal actuators (two point) "closed with current off" (terminal "NC") or "open with current off" (terminal "NO").
	24 V	(40)	**1152562**	

Article	Packing unit	Article-No.	Hint

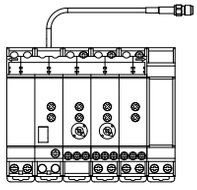
Room thermostats (heating/cooling)



Room thermostat - surface mounting (heating and cooling)
Heating 0 - 10 V control
Cooling 0 - 10 V control

24 V (25) **1152151**

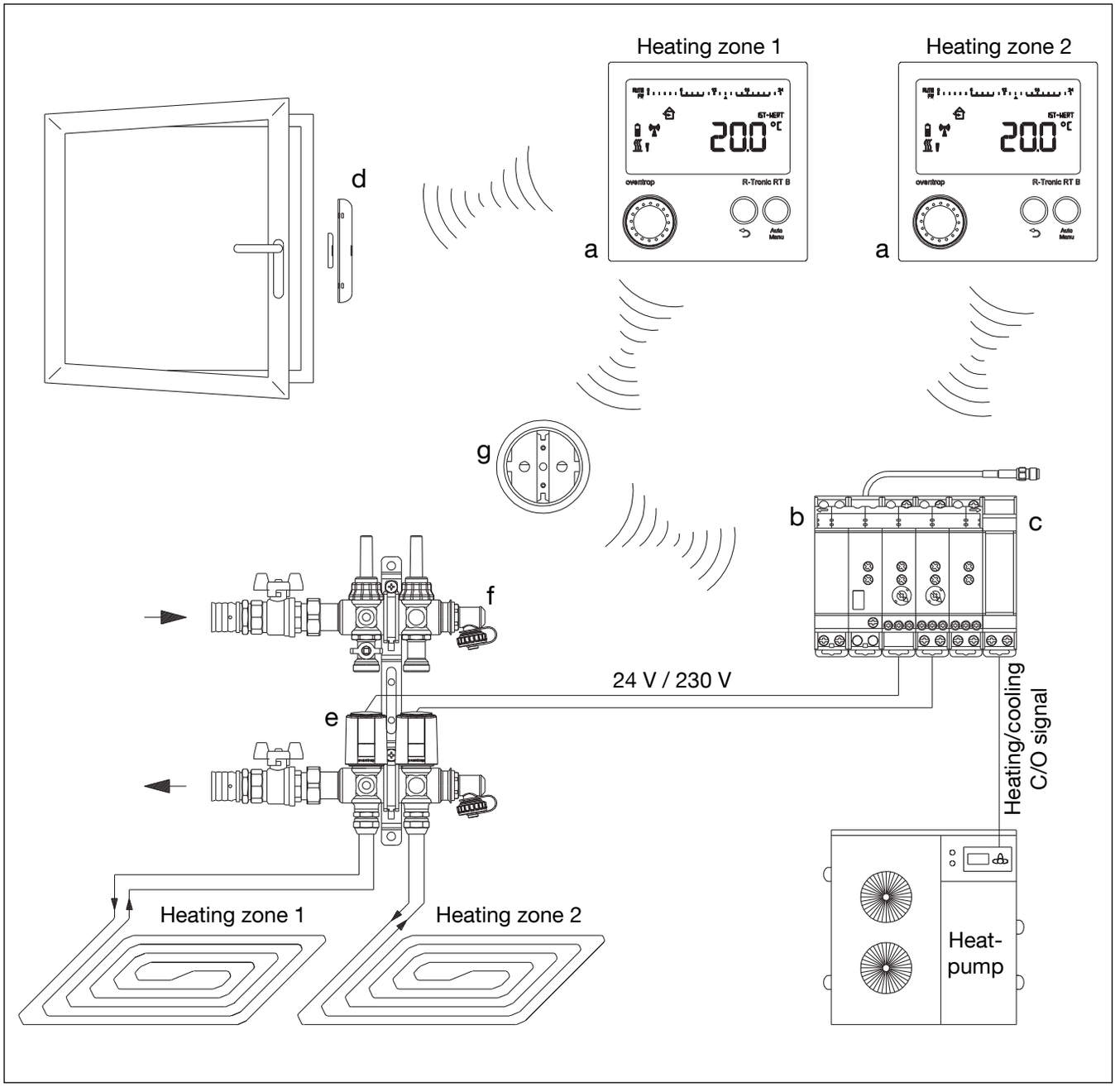
The room thermostat is used for individual room temperature control in combination with the electrothermal actuator (0- 10 V) "Aktor T ST L NC", item no. 1012953, page 1.27, or the electromotive actuator "Aktor M ST L", item no. 1012705/06, page 1.28 (may also be used in three- or four-pipe systems).
With one analogue output 0–10 V each for heating and cooling as well as adjustable neutral zone (0.5–7.5 K).
Temperature range: 5 °C up to 30 °C
For further information see "Technical information":



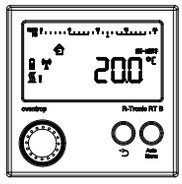
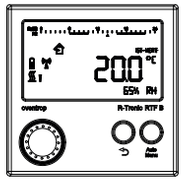
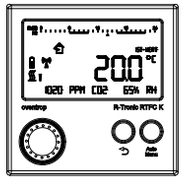
2.f Room thermostats with wireless transmitter, wireless receivers

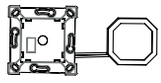
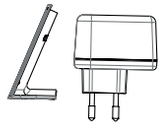
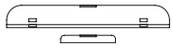
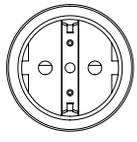
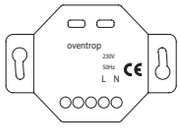
Content

	Page
"R-Tronic RT B" Wireless thermostat	2.33
"R-Tronic RTF B" Wireless thermostat with humidity display	2.33
"R-Tronic RTFC K" Wireless thermostat with humidity and CO_2 display	2.33
Accessories	2.34
"FK-C F" Wireless window contact	2.34
"RP-S F" Wireless repeater	2.34
"RP-C F" Wireless repeater	2.34
"Synet CR" Gateway	2.35
"R-Con" Wireless receiver	2.36



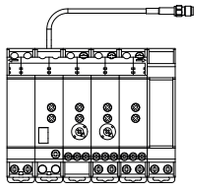
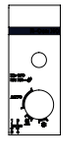
a "R-Tronic RT B" / "R-Tronic RTF B" / "R-Tronic RTFC K" Wireless thermostat
b "R-Con" Wireless receiver
c "R-Con HC" Extension module heating/cooling
d "FK-C F" Wireless window contact
e "Aktor T 2P" (two point) Electrothermal actuator
f "Multidis SF" Stainless steel distributor/collector
g "RP-S F" Wireless repeater

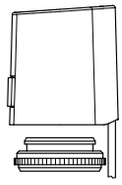
	Article	Article-No.	Hint
	**"R-Tronic RT B" Wireless thermostat** Wireless thermostat with bi-directional wireless communication, battery operated, surface mounting traffic white (RAL 9016)	**1150680°** **1150880*#**	Electronic wireless thermostat "R-Tronic RT B" for room temperature control according to adjustable timed programmes. The nominal and actual temperature of the room can be displayed. Up to 3 participants (such as actuators for wireless thermostats "Aktor MH/MD CON B" and wireless receivers "R-Con") can be connected during battery operation . A supply via the network is an alternative, see accessories page 1.37. During mains operation, the number of participants can be increased to 8 which allows, for instance, for an integration of window contacts for room temperature setback.
	**"R-Tronic RTF B" Wireless thermostat with humidity display** Wireless thermostat with bi-directional wireless communication and integrated humidity sensor, battery operated, surface mounting traffic white (RAL 9016)	**1150681°** **1150881*#**	Electronic wireless thermostat "R-Tronic RTF B" for room temperature control according to adjustable timed programmes. The nominal and actual temperature of the room can be displayed. An integrated humidity sensor supplies information on the relative humidity RH in %. The value is displayed in the text line. Up to 3 participants (such as actuators for wireless thermostats "Aktor MH/MD CON B" and wireless receivers "R-Con") can be connected during battery operation . A supply via the network is an alternative, see accessories page 1.37. During mains operation, the number of participants can be increased to 8 which allows, for instance, for an integration of window contacts for room temperature setback.
	**"R-Tronic RTFC K" Wireless thermostat with humidity and CO_2 display** Wireless thermostat with bi-directional wireless communication and integrated humidity and CO_2 sensor traffic white (RAL 9016) Power supply: Flush-mounted power pack (100-240 V ~/ 50-60 Hz) with wall bracket	**1150682°** **1150882*#**	Electronic wireless thermostat "R-Tronic RTFC K" for room temperature control according to adjustable timed programmes. The nominal and actual temperature of the room can be displayed. An integrated humidity sensor supplies information on the relative humidity RH in % and an integrated CO_2 sensor on the CO_2 content in ppm in the room air. Both values are displayed in the text line. If preset limits are exceeded, a symbol asking for fresh air supply is displayed. Up to 8 participants (such as actuators for wireless thermostats "Aktor MH/MD CON B", wireless receivers "R-Con" and wireless window contacts for room temperature setback) can be connected to the "R-Tronic RTFC K". Power is supplied by a flush-mounted power pack or a mains adaptor with table stand. **# Compatible with the gateway "Synet CR"**
	Power supply: Mains adaptor (100-240 V ~/ 50-60 Hz) with table stand	**1150684°** **1150884*#**	

	Article	Packing unit	Article-No.	Hint
	Accessories			For the conversion of battery operated wireless thermostats "R-Tronic RT B/ RTF B" to an external power supply (100-240 V ~/ 50-60 Hz).
	Flush-mounted power pack (100-240 V ~ /50-60 Hz) with wall bracket		**1150692**	
	Mains adaptor (100-240 V ~/ 50-60 Hz) with table stand, white for stationary use, suitable for "i-Tronic TFC" and "R-Tronic RT B/RTF B"		**1150694**	
	**"FK-C F" Wireless window contact**			A radio signal is transmitted when opening or closing the window. The solar powered energy storage ensures a maintenance-free operation. Compatible with: -"R-Tronic" Wireless thermostats ("DynaTemp HA") -Wireless room modules ("DynaTemp BA") Note: The wireless thermostats "R-Tronic" require the software version 01-06-02 or higher and have to be mains-operated.
	solar powered, white (similar to RAL 9003)		**1153070**	
	**"RP-S F" Wireless repeater**			The wireless repeater "RP-S F" serves to amplify the signal between the wireless thermostat "R-Tronic" and the communication centre "Synet CR" as well as the wireless receiver "R-Con"/"R-Con 2P".
	for installation into an earthed plug white (similar to RAL 9003)		**1150699***	
	**"RP-C F" Wireless repeater**			The repeater serves to amplify the EnOcean radiograms and is for instance used to increase the radio range between wireless window contacts and the wireless room modules.
	for EnOcean wireless technology, flush mounting, 230 V/ 50 Hz	(50)	**1153060**	

	Article	Article-No.	Hint
	"Synet CR" Gateway Centre for the connection of up to 16 "R-Tronic" climate display devices/controls and for regulation in combination with "Q-Tech" valves In preparation.	**1150687**	Centre for the simple networking, visualization and parameterization of "R-Tronic" climate display devices/contols. Up to 16 wireless thermostats or rooms can be managed by the centre by transmitting adjustable timed programmes for the individual rooms from the centre to the "R-Tronic" via the bi-directional radio communication. Furthermore, automatic hydronic balancing is supported in combination with the "Q-Tech" valves (see page 1.42). For this purpose, the heat load, the maximum required volume flows for each radiator as well as the required maximum stroke limitations at the actuators "Aktor MH CON B" are calculated by the gateway "Synet CR" after having entered the building and room data. The stroke limitations at the "Q-Tech" valves are carried out automatically. Access options: -Local access in the building -Worldwide mobile remote access via Internet User interfaces: -Integrated web interface -App for iOS and Android terminals Interfaces: -LAN a. Direct PC/laptop connection b. Direct router connection -USB for WLAN stick a. Access Point Mode b. Client mode -868 MHz radio communication with "R-Tronic" display devices/controls -Mains adaptor 5 V Installation options: – Wall attachment with the help of the supplied fixing plate. – Table stand with mains adaptor see accessories, page 1.37.

Further information on Page 12.09

	Article	Article-No.	Hint
	**"R-Con" Wireless receiver** 230 V, without plug, wiring on site 4 channels with logic module 4 channels without logic module 8 channels with logic module 8 channels without logic module	 **1150770*** **1150771*** **1150772** **1150773***	Electronic multichannel wireless receiver for room temperature control of up to 8 independent heating zones (surface heating) according to adjustable timed programmes at the wireless thermostats "R-Tronic RT B", "R-Tronic RTF B" and "R-Tronic RTFC K". Operation via the menu-driven wireless thermostat. Additional functions (direct selection via the rotary switches at the wireless receiver): -Pump logic with adjustable lead time and follow-up time (only item no. 1150770/ 72) -Burner logic for heat demand (only item no. 1150770/ 72) -Two point control -PWM control for surface heating Electrothermal actuators "Aktor T 2P" 24 V or 230 V can be connected to the 8 channels (closing contact with 4A/250 V AC each). **An external transformer is required for the power supply of 24 V actuators.**
	**"R-Con HC"** Extension module heating/cooling for wireless receiver "R-Con" In preparation.	 **1150774**	The extension module is connected to the wireless receiver "R-Con" and is used for switching between heating and cooling operation via a C/O signal (change-over input). The C/O signal is povided by a reversible heat pump (volt free). Furthermore, the "R-Con HC" module features an input for dew point monitoring which interrupts cooling when the dew point is exceeded.



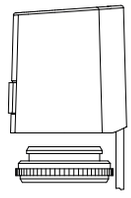
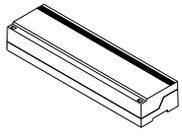
2.g Actuators

Content

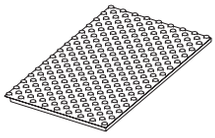
Page

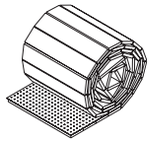
"Aktor T" Electrothermal actuators 2.38

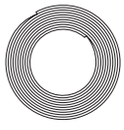
Accessories 2.38

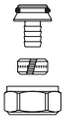
	Article	Packing unit	Article-No.	Hint
	**"Aktor T 2P" Electrothermal actuators (two point)** connection thread M 30 x 1.5			Oventrop electrothermal actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, radiant ceiling panels, chilled ceiling systems and induction air systems in combination with two point room thermostats. Further applications in bivalent heating installations. Connecting cable 1 m. With "First-Open" function and stroke index. Simple plug-in connection with valve adapter. Actuators can be installed in any position. Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.
	"H NC", closed with current "off", 230 V		**1012415**	
	"L NC", closed with current "off", 24 V		**1012416**	
	Accessories			
	Connecting block (6 control zones) for room thermostats and actuators			
	24 V/ 230 V, heating	(25)	**1400980***	
	Connecting block (10 control zones) for room thermostats and actuators			
	230 V, heating/cooling, pump control	(25)	**1400981***	
	24 V, heating/cooling, pump control	(25)	**1400982***	

Combination possibilities of valves and actuators: Page 3.08





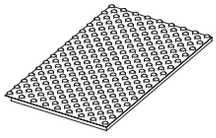
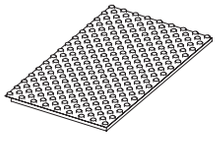
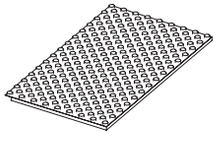
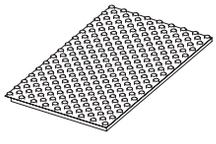
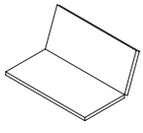
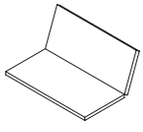
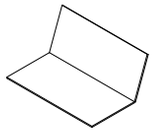


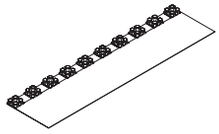


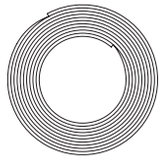
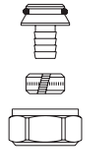
2.h "Cofloor" Systems, "Copex" Pipes and accessories

Content

	Page
"Cofloor" Base mat system	2.40
"Cofloor" Base mat system NP-R	2.42
"Cofloor" Tacker system	2.43
"Cofloor" Clamping rail system	2.44
"Cofloor" Dry-build system	2.45
Accessories	2.46
PE-Xc "Copex" Plastic pipes	2.48
PE-RT/AL/PE-RT "Copipe HSC" Composition pipes	2.48
PE-RT "Copert" Plastic pipes	2.49
"Ofix K" Compression fittings	2.50
"Cofit S" Compression fittings	2.50
Double nipples	2.51
"Cofit P" Press couplings	2.51

	Article	Packing unit	Article-No.	Hint
	"Cofloor" Base mat system for fixing 14 and 16 mm pipes with the possibility of 45° diagonal laying without auxiliary material Laying distances 5, 10, 15, 20, 25, 30 cm			Suitable for concrete and liquid screed complying with standards.
	**Base mat NP-35** 1.0 x 1.0 m = 1.0 m² with thermal and sound insulation made of expanded polystyrene, thermal conductivity group 040, thickness: 35-2 mm, covered with polystyrene foil, building material class B2 according to DIN 4102			Thermal resistivity: R = 0.85 (m² K)/W.
	Max. load: 5 kN/m²	(10)	**1402210**	Only sold in units of 10 base mats per box.
	**Base mat NP-30** 1.0 x 1.0 m = 1.0 m² with thermal and sound insulation made of expanded polystyrene, thermal conductivity group 040, thickness: 30-2 mm, covered with polystyrene foil, building material class B2 according to DIN 4102			Thermal resistivity: R = 0.75 (m²K)/W
	Max. load: 5 kN/m²	(10)	**1402410**	Only sold in units of 10 base mats per box.
	**Base mat NP-11** 1.0 x 1.0 = 1.0 m² with thermal insulation made of expanded polystyrene, thermal conductivity group 035, thickness: 11 mm, covered with polystyrene foil, building material class B2 according to DIN 4102			Thermal resistivity: R = 0.314 (m² K)/W.
	Max. load: 50 kN/m²	(10)	**1402310**	Only sold in units of 10 base mats per box.
	**Base mat NP** 1.0 x 1.0 m = 1.0 m² without thermal insulation made of			
	made of moulded polystyrene foil	(18)	**1402110**	Only sold in units of 18 base mats per box.
	**Compensation element 35** 1.0 x 1.0 m folded, made of expanded polystyrene, thermal conductivity group 040, thickness: 35-2 mm,			For fixing of the connection pipes in front of the distributor/collector and for laying in doorways.
	covered with foil	(5)	**1402290**	
	**Compensation element 30** 1.0 x 1.0 m folded made of expanded polystyrene, thermal conductivity group 040, thickness: 30-2 mm			
	covered with foil	(5)	**1402490**	
	**Compensation element 11** 1.0 x 1.0 m folded, made of expanded polystyrene, thermal conductivity group 035, thickness: 11 mm,			
	covered with foil	(5)	**1402390**	

	Article	Packing unit	Article-No.	Hint
	Connection element for base mat	(10)	**1402391**	For the connection of butt-jointed base mats.
	Door and distributor/collector connection element	(10)	**1402392**	For use in doorways and the distributor/ collector area.
	Fixing hook set for base mats plastic for 14 and 16 mm pipes 1 bag = 200 pieces		**1409082**	For fixing heating pipes onto insulation boards > 30 mm, for instance in front of the distributor/ collector. For further information see "Technical information":

	Article	Packing unit	Article-No.	Hint
	"Cofloor" Base mat system NP-R **Thin layered system** Pre-punched base mat without thermal insulation with foil overlap on both sides, for fixing 12 mm pipes with the possibility of 45° diagonal laying without auxiliary material Laying distances 5, 10, 15 cm			The perforation of the base mats allows a simple application and a safe bonding of the levelling compound and the existing ground. Tested minimum construction heights: -Knauf levelling compound Alphadur 430 min. 17 mm -PCI periplan extra min. 18 mm -Weber-Maxit weber.floor min. 18 mm -Knauf levelling screed 425 min. 21 mm Further products on request! The laying advice must be observed.
	Base mat NP-R 1.0 x 1.0 m = 1.0 m² without thermal insulation made of moulded polystyrene foil, with adhesive layer on reverse	(10)	**1402010**	Only sold in units of 10 base mats per box.
	Edge insulating strip with adhesive edge and integrated fleece back height: 50 mm, thickness: 5 mm length per roll 20 m	(5)	**1401990**	Only sold in units of 5 rolls per bag.
	**PE-RT "Copert" Plastic pipe** with oxygen barrier rolls Dimension 12 x 2.0 mm length per roll 200 m	(200)	**1401952**	Application: Surface heating and cooling. Pipes according to DIN 16833 / DIN 16834 / DIN 4721. Oxygen tight according to DIN 4726. Max. operating pressure p_s: 6 bar at 70 °C
	Duo connection piece			
	1 x G ¾ collar nut 2 x G ¾ male thread		**1022655**	For the connection of two heating circuits.
	"Ofix K" compression fittings			
	"Ofix K" for plastic pipes according to DIN 4726, PE-X according to DIN 16892/16893, PB according to DIN 16968, PP according to DIN 8078 A1, collar nut **unplated**, metal to metal sealing plus O-ring 12 x 2 mm	(10)	**1027772**	

Article	Packing unit	Article-No.	Hint

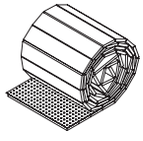
"Cofloor" Tacker system
for fixing 14, 16, 17 and 20 mm pipes

Base mat roll and folded board with laminated tissue foil,
with imprinted laying screen (screen distance 5 cm),
foil overlap on the edge,
with adhesive strip on the opposite

Laying distances 5, 10, 15, 20, 25, 30 cm

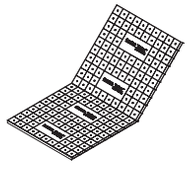
Suitable for concrete and liquid screed complying with standards.

Boiler-Gas.ru
Перейти на сайт



Base mat roll
10.0 x 1.0 m = 10.0 m²
made of expanded polystyrene according to DIN EN 13163,
building material class B2 according to DIN 4102

			Thermal resistivity	Thermal conductivity group	Max. load
Thickness 20-2 mm		**1402515**	R = 0.50 (m²K)/W	040	5 kN/m²
Thickness 35-3 mm		**1402500**	R = 0.78 (m²K)/W	045	4 kN/m²
Thickness 30-3 mm		**1402505**	R = 0.67 (m²K)/W	045	4 kN/m²
Thickness 25-2 mm		**1402510**	R = 0.56 (m²K)/W	045	4 kN/m²
Thickness 30-2 mm		**1402507**	R = 0.75 (m²K)/W	040	5 kN/m²
Thickness 20-2 mm		**1402520**	R = 0.44 (m²K)/W	045	4 kN/m²



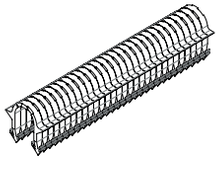
Folded board
2.0 x 1.0 m = 2.0 m²
made of expanded polystyrene according to DIN EN 13163,
building material class B2 according to DIN 4102

			Thermal resistivity	Thermal conductivity group	Max. load
Thickness 35-3 mm	(5)	**1402600**	R = 0.78 (m²K)/W	045	4 kN/m²
Thickness 30-3 mm	(5)	**1402605***	R = 0.67 (m²K)/W	045	4 kN/m²
Thickness 30-2 mm	(5)	**1402607***	R = 0.75 (m²K)/W	040	5 kN/m²
Thickness 25-2 mm	(5)	**1402610***	R = 0.56 (m²K)/W	045	4 kN/m²
Thickness 20-2 mm	(5)	**1402620***	R = 0.44 (m²K)/W	045	4 kN/m²

Only sold in units of 5 boards per foil bag.

Tacker machine **1402597**

For fixing the heating pipes onto the base mat roll or folded board by use of tacker hooks.

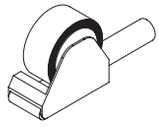


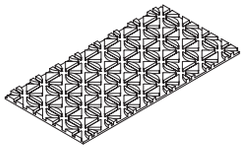
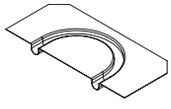
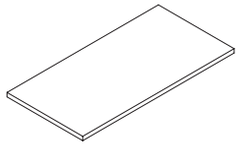
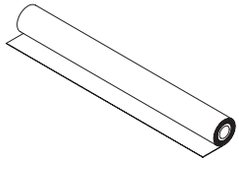
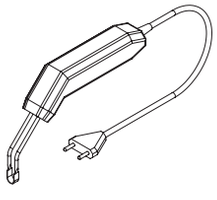
Tacker hooks
plastic
for 14, 16, 17 and 20 mm pipes

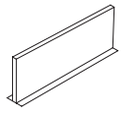
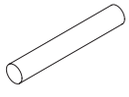
1 magazine = 30 pieces	(10)	**1402591**
10 magazines = 300 pieces	(20)	**1402592**

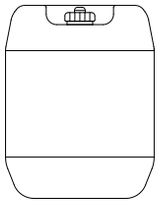
For fixing the heating pipes onto the base mat roll or folded board by use of the tacker machine.
Only sold in packing units.

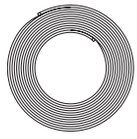
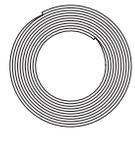
For further information see "Technical information":

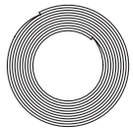
	Article	Packing unit	Article-No.	Hint
	**Tape gun** for tapes with a width of 50 mm		**1402598**	For bonding the linings of the base mat rolls or insulation boards.
	Adhesive tape 50 mm x 66 m	(36)	**1402599**	For bonding the linings of the base mat rolls or insulation boards to prevent penetration of screed water.
	"Cofloor" Clamping rail system			
	Self-adhesive clamping rail made of polypropylene, clamping distance 5 cm, length 1 m for 14 mm pipe	(100)	**1402580**	For fixing the heating pipes onto the insulation.
	for 16 mm pipe	(100)	**1402581**	

	Article	Packing unit	Article-No.	Hint
	"Cofloor" Dry-build system for fixing 14 mm "Copipe" composition pipes Laying distances 12.5, 25 cm			For laying of surface heating systems on solid or timber beam floors as a dry-build system (reduced overall thickness, for instance renovation of existing buildings) or with heating screed according to DIN 18560 on a membrane made of polystyrene. Taking certain installation conditions into consideration, the dry-build system is also suitable for wall heating and cooling systems.
	**Dry-build element** 1000 x 500 x 25 mm made of expanded polystyrene according to DIN EN 13163, thermal conductivity group 035, building material class B1 according to DIN 4102 Max. load: 60 kN/m²	(10)	**1402800**	Element for serpentine or spiral laying of the heat conducting strips and elbows. For "Copipe HSC" composition pipe 14 x 2 mm. Thermal resistivity: R = 0.5 (m²K)/W. Only sold in units of 10 boards wrapped up in a plastic foil.
	Heat conducting strip 998 x 122 x 0.4 mm made of galvanised sheet steel with pre-punched break points in the grooves	(48)	**1402850**	For laying "Copipe HSC" composition pipe 14 x 2 mm and for improvement of the heat transmission by a large surface covering of the dry-build elements. Only sold in units of 48 strips per box.
	**Heat conducting elbow** 110 x 245 x 0.5 mm made of galvanised sheet steel	(25)	**1402855**	For serpentine laying of the "Copipe HSC" composition pipe 14 x 2 mm in the edge areas. Only sold in units of 25 elbows per box.
	**Infill panel** 1000 x 500 x 25 mm made of expanded polystyrene according to DIN EN 13163, thermal conductivity group 035, max. load 60 kN/m², building material class B1 according to DIN 4102	(19)	**1402857**	Only sold in units of 19 panels wrapped up in a plastic foil.
	Membrane made of polyethylene 0.2 mm Dimensions of roll 25 m x 4 m		**1402895**	As separation layer between dry-build system and concrete or liquid screed.
	**Hot cutting machine**		**1402891**	Manual tool for cutting individual pipe ducts into the infill panel. For further information see "Technical information":

	Article	Packing unit	Article-No.	Hint
	Accessories			
	Edge insulating strip with bonded foil and perforation, height: 150 mm, thickness: 10 mm, made of polyethylene foam			Suitable for concrete and liquid screed complying with DIN EN 1264-4/ DIN 18560 T2.
	length per roll 25 m	(8)	**1402090**	
	Edge insulating strip with perforation self-adhesive on the wall side, with self-adhesive polyethylene flap, height: 150 mm, thickness: 10 mm, made of polyethylene foam			The self-adhesive polyethylene flap allows sealing of the junction between the base mat and and the edge insulating strip when laying liquid screed.
	length per roll 25 m	(8)	**1402191**	
	Expansion strip with adhesive edge, height: 120 mm, thickness: 10 mm, made of polyethylene foam			To provide screed joints according to DIN EN 1264-4 / DIN 18560 T2.
	length: 1.20 m	(20)	**1402091**	
	Protective tube made of LDPE			For protecting the pipe - at junction points of screed joints according to DIN EN 1264-4 / DIN 18560 T 2 - at the entry points when set in concrete - at the exit points when set in concrete Only sold in units of 20 protective tubes per bag.
	Length: 300 mm, slotted, for 14, 16 and 17 mm pipes	(20)	**1501184**	
	Round profile made of polystyrene foam Ø 20 mm			Serves as sealing between base mat and edge insulating strip when using concrete screed.
	Dispenser of 150 m		**1402092**	Only sold in units = 1 dispenser.
	Pipe guiding elbow plastic			For the inversion and fixing of the "Copert" amd "Copex" pipes in case of 90 ° bends, for instance in front of the distributor/collector and in screed passages.
	for 14 - 16 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***	
	Marker point for measuring screed humidity plastic			To mark the points of measurement of humidity of the screed.
	Set = 5 pieces	(10)	**1409090**	
	Calculation software			
	for the design of surface heating systems		**1409999**	

	Article	Packing unit	Article-No.	Hint
	Screed additive Additional component to produce concrete screed for heated underfloor constructions Content of canister 10 l		**1409095**	For homogenization and improvement of the workability as well as for increase of the concrete screed density.

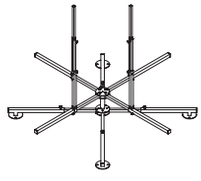
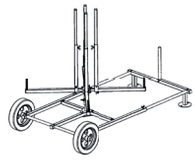
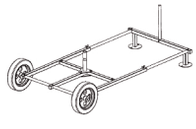
Article	Packing unit	Article-No.	Hint
PE-Xc "Copex" Plastic pipes with oxygen barrier			Application: **Surface heating and cooling.**
rolls			Pipes according to DIN 16892 / DIN 16893 / DIN EN ISO 15 875 / EN1264-4 (except for dimension 26). Oxygen tight according to DIN 4726 (all dimensions).
 Dimension 14 x 2 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
length per roll 120 m	(120)	**1400051**	
length per roll 240 m	(240)	**1400052**	
length per roll 600 m	(600)	**1400054**	
Dimension 16 x 2 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
length per roll 120 m	(120)	**1400151**	
length per roll 240 m	(240)	**1400152**	
length per roll 600 m	(600)	**1400154**	
Dimension 17 x 2 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
length per roll 120 m	(120)	**1400251**	
length per roll 240 m	(240)	**1400252**	
length per roll 600 m	(600)	**1400254**	
Dimension 20 x 2 mm			Max. operating pressure $p_{s:}$ 6 bar at 90 °C 8 bar at 70 °C
length per roll 240 m	(240)	**1400352**	
length per roll 600 m	(600)	**1400354**	
Dimension 26 x 3 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
length per roll 50 m	(50)	**1400560**	
length per roll 200 m	(200)	**1400562**	
length per roll 300 m	(300)	**1400563**	
PE-RT/AL/PE-RT "Copipe HSC" Composition pipes			Application: Central heating systems with circulation pump, surface heating and cooling systems as well as sanitary installations.
rolls			DVGW tested (dimensions 14 x 2.0 mm and 17 x 2.0 mm). DVGW approved (dimensions 16 x 2.0 mm and 20 x 2.5 mm). DVGW reg.-no.: DW-8501 AT2407
 Dimension 14 x 2 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 70 °C
length per roll 50 m	(50)	**1541054**	
length per roll 100 m	(100)	**1540154**	
length per roll 200 m	(200)	**1540254**	
Dimension 16 x 2 mm			Oxygen tight three-layered composition pipe – inner layer made of PE-RT – aluminium pipe welded end to end – outer coating made of PE-RT bonded by adhesive layers
length per roll 50 m	(50)	**1541055**	
length per roll 100 m	(100)	**1540155**	
length per roll 200 m	(200)	**1540255**	
length per roll 500 m	(500)	**1540555**	
Dimension 17 x 2 mm			
length per roll 200 m	(200)	**1540257**	
length per roll 500 m	(500)	**1540557**	
Dimension 20 x 2.5 mm			
length per roll 50 m	(50)	**1541060**	
length per roll 100 m	(100)	**1540160**	
length per roll 200 m	(200)	**1540260**	

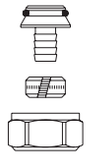
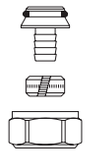
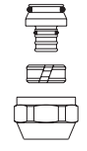
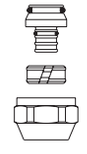
	Article	Packing unit	Article-No.	Hint
	PE-RT "Copert" Plastic pipes with oxygen barrier			Application: **Surface heating and cooling.**
	rolls			Pipes according to DIN 16833/DIN 16834. Oxygen tight according to DIN 4726.
	Dimension 14 x 2 mm			
	length per roll 240 m	(240)	**1402052**	Max. operating pressure p_s: 6 bar at 70 °C
	length per roll 600 m	(600)	**1402054**	
	Dimension 16 x 2 mm			
	length per roll 240 m	(240)	**1402152**	
	length per roll 600 m	(600)	**1402154**	
	Dimension 17 x 2 mm			
	length per roll 240 m	(240)	**1402252**	
	length per roll 600 m	(600)	**1402254**	
	Dimension 20 x 2 mm			
	length per roll 240 m	(240)	**1402352**	

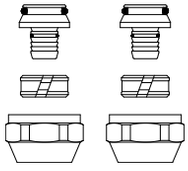
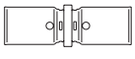
Other sizes, for instance for the installation of risers: page 13.06.

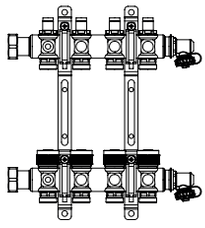
Press and screwed fittings: from page 13.09.

Tools, e. g. pipe cutter, pipe shears, universal tool for deburring and calibrating: from page 13.35.

	**Coil unwinder** for pipes			For rolls up to 600 m. Completely dismountable and collapsible.
	fixed		**1402096**	
	mobile		**1402098**	
	Transport chart		**1402099**	

Article	Packing unit	Article-No.	Hint
"Ofix K" Compression fittings for G ¾ male thread according to DIN EN 16313 (cone "Euro")			For the connection of the "Copex" PE-Xc pipes and the "Copert" PE-RT pipes to the distributor/collector and for couplings. The permissible operating pressures and operating temperatures depend on the application classes of the respective standands of the plastic pipework systems (e.g. PE-X, DIN EN ISO 15875).
 "Ofix K" for plastic pipes according to DIN 4726, PE-X according to DIN 16892/16893, PB according to DIN 16968, PP according to DIN 8078 A1, collar nut **nickel plated**, metal to metal sealing plus O-ring			
14 x 2 mm	(10)	**1027755**	
16 x 2 mm	(10)	**1027757**	
17 x 2 mm	(10)	**1027759**	
20 x 2 mm	(10)	**1027763**	
 "Ofix K" for plastic pipes according to DIN 4726, PE-X according to DIN 16892/16893, PB according to DIN 16968, PP according to DIN 8078 A1, collar nut **unplated**, metal to metal sealing plus O-ring			
14 x 2 mm	(10)	**1027775**	
16 x 2 mm	(10)	**1027777**	
17 x 2 mm	(10)	**1027779**	
20 x 2 mm	(10)	**1027783**	
"Cofit S" Compression fittings for G ¾ male thread according to DIN EN 16313 (cone "Euro"), for "Copipe" composition pipes and, provided similar preparation is used, for plastic pipes, metal to metal sealing plus O-ring, outlet made of bronze, compression ring and collar nut made of brass			For the connection of the pipes to the distributor/collector and for couplings. (Interior of plastic pipes must be deburred.)
 **Collar nut nickel plated**			
14 x 2.0 mm x G ¾ c/nut	(10)	**1507954**	
16 x 2.0 mm x G ¾ c/nut	(10)	**1507955**	
17 x 2.0 mm x G ¾ c/nut	(10)	**1507959**	
 **Collar nut unplated**			
14 x 2.0 mm x G ¾ c/nut	(10)	**1507974**	
16 x 2.0 mm x G ¾ c/nut	(10)	**1507975**	

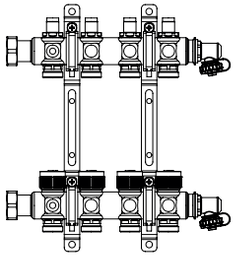
	Article	Packing unit	Article-No.	Hint
	"Cofit S" Compression fittings for G ¾ male thread according to DIN EN 16313 (cone "Euro"), for "Copipe" composition pipes and, provided similar preparation is used, for plastic pipes, 2-fold, metal to metal sealing plus O-ring, outlet made of bronze, compression ring and collar nut made of brass, collar nut **nickel plated**			
	14 x 2.0 mm x G ¾ collar nut	(10)	**1507934**	
	16 x 2.0 mm x G ¾ collar nut	(10)	**1507935**	
	17 x 2.0 mm x G ¾ collar nut	(10)	**1507937**	
	18 x 2.0 mm x G ¾ collar nut	(10)	**1507938**	
	20 x 2.0 mm x G ¾ collar nut	(10)	**1507939**	
	20 x 2.5 mm x G ¾ collar nut	(10)	**1507940**	
	Double nipples			
	Double nipple, brass, nickel plated			Port G ¾ with tapered sealing according to DIN EN 16313 (cone "Euro").
	G ¾ male x G ¾ male	(10)	**1028263**	
	Double nipple, bronze, unplated			
	G ¾ male thread x G ¾ male thread	(25)	**1504054**	
	"Cofit P" Press couplings for "Copipe HSC" composition pipes and, provided similar preparation is used, for plastic pipes, dimension 16 and 20 x 2.5 mm made of bronze, dimension 14, 17 and 20 x 2.0 mm made of brass resistant to dezincification, casing made of stainless steel			(Interior of plastic pipes must be deburred.) Further sizes see page 11.12.
	**Press coupling**			
	14 x 2 mm x 14 x 2 mm	(10)	**1512542**	Suitable press bits: Item no. 1519489 (Ø 14 x 2 mm)
	16 x 2 mm x 16 x 2 mm	(10)	**1512543**	Item no. 1519491 (Ø 16 x 2 mm)
	17 x 2 mm x 17 x 2 mm	(10)	**1512544**	Item no. 1519488 (Ø 17 x 2 mm)
	20 x 2.5 mm x 20 x 2.5 mm	(10)	**1512545**	Item no. 1519492 (Ø 20 x 2.5 mm)
	20 x 2 mm x 20 x 2 mm	(10)	**1512541***	Item no. 1519481 (Ø 20 x 2 mm)

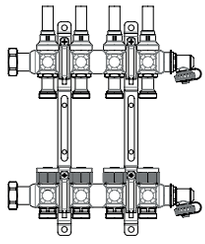


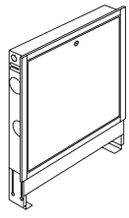
2.i "Multidis SFQ" distributor/collector with "Q-Tech" for automatic hydronic balancing

Content

	Page
"Multidis SFQ" Stainless steel distributor/collector	2.54

Article	Article-No.	Hint
"Multidis SFQ" Stainless steel distributor/collector for surface heating and cooling systems with "Q-Tech" for automatic hydronic balancing flat sealing, with valve inserts M 30 x 1.5 for thermostatic and electronic control		Application: Stainless steel distributor/collector for surface heating and cooling systems. Max. operating pressure p_s: 6 bar (PN 6) Max. operating temperature t_s: 80° C Flow range: 0,5 - 5 l/min
		Description: Distributor/collector pre-assembled. With fill and drain valves. Heating circuit connections G ¾ male thread for Oventrop compression fittings. Flow distributor with integrated isolating facilities. Return collector with integrated valve inserts. Brackets (loosely added) soundabsorbing according to DIN 4109.
for 2 circuits	**1404752**	
for 3 circuits	**1404753**	
for 4 circuits	**1404754**	
for 5 circuits	**1404755**	
for 6 circuits	**1404756**	
for 7 circuits	**1404757**	
for 8 circuits	**1404758**	
for 9 circuits	**1404759**	
for 10 circuits	**1404760**	
for 11 circuits	**1404761**	
for 12 circuits	**1404762**	
		Cabinets and dimension chart: page 2.60

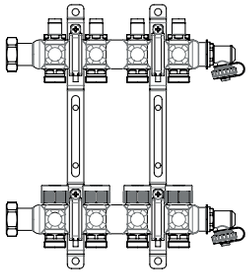
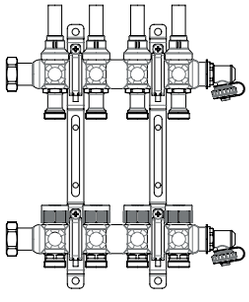




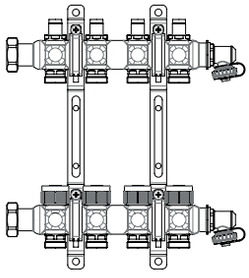
2.j "Multidis SF/SFB/SFI" Distributors/collectors for surface heating and cooling systems

Content

	Page
"Multidis SF" Stainless steel distributor/collector	2.56
"Multidis SFB" Stainless steel distributor/collector	2.57
"Multidis SFI" Brass distributor/collector for industrial surface heating and cooling systems	2.57
Accessories	2.58
"Optiflex" Ball valve	2.58
"Cofit S" Compression fittings	2.58
Valve insert for stainless steel distributors/collectors "Multidis SF"	2.59
Ball valves	2.59
Flush-mounted cabinets	2.60
Surface-mounted cabinets	2.60
Cylinder lock	2.61
Heat meter connection sets	2.62
Differential pressure relief device	2.62
Angle pattern connection set	2.63
"Hycocon VTZ" Double regulating and commissioning valve	2.63
"Hycocon DTZ" Differential pressure regulator	2.63

Article	Article-No.	Hint
"Multidis SF" Stainless steel distributor/collector for surface heating and cooling systems with integrated regulating inserts in the flow distributor flat sealing, with valve inserts M 30 x 1.5 for thermostatic and electronic control		Application: Stainless steel distributor/collector for surface heating and cooling systems. Max. operating pressure p_s: 6 bar (PN 6) Max. operating temperature t_s: 80° C
		Description: Distributor/collector pre-assembled. With fill and drain valves. Heating circuit connections G ¾ male thread for Oventrop compression fittings. Flow distributor with integrated regulating inserts. Return collector with integrated valve inserts. Brackets (loosely added) sound-absorbing according to DIN 4109.
for 2 circuits	**1405552***	
for 3 circuits	**1405553***	
for 4 circuits	**1405554***	
for 5 circuits	**1405555***	
for 6 circuits	**1405556***	
for 7 circuits	**1405557***	
for 8 circuits	**1405558***	
for 9 circuits	**1405559***	
for 10 circuits	**1405560***	
for 11 circuits	**1405561***	
for 12 circuits	**1405562***	Cabinets and dimension chart: page 2.60
"Multidis SF" Stainless steel distributor/collector for surface heating and cooling systems with integrated flow measuring and regulating devices 0-5 l/min. in the flow distributor flat sealing, with valve inserts M 30 x 1.5 for thermostatic and electronic control		
		
for 2 circuits	**1405352***	
for 3 circuits	**1405353***	
for 4 circuits	**1405354***	
for 5 circuits	**1405355***	
for 6 circuits	**1405356***	
for 7 circuits	**1405357***	
for 8 circuits	**1405358***	
for 9 circuits	**1405359***	
for 10 circuits	**1405360***	
for 11 circuits	**1405361***	
for 12 circuits	**1405362***	

Article	Article-No.	Hint



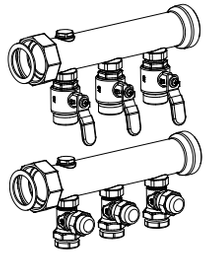
"Multidis SFB" Stainless steel distributor/collector for surface heating and cooling systems with heating circuit valves with presettable bypass and integrated regulating inserts in the flow distributor
flat sealing, with valve inserts M 30 x 1.5
for thermostatic and electronic control

for 2 circuits	**1405452***
for 3 circuits	**1405453***
for 4 circuits	**1405454***
for 5 circuits	**1405455***
for 6 circuits	**1405456***
for 7 circuits	**1405457***
for 8 circuits	**1405458***
for 9 circuits	**1405459***
for 10 circuits	**1405460***
for 11 circuits	**1405461***
for 12 circuits	**1405462***

Application:
Stainless steel distributor/collector for surface heating and cooling systems.
Max. operating pressure p_s: 6 bar (PN 6)
Max. operating temperature t_s: 80°C
Setting of a minimum volume flow via the bypass at the heating circuit valve guaranteeing a perfect operation of heat pumps and a basic heat load of the underfloor heating (no cooling down).

Description:
Distributor/collector pre-assembled. With fill and drain valves. Heating circuit connections G ¾ male thread for Oventrop compression fittings.
Flow distributor with integrated regulating inserts. Return collector with integrated valve inserts with presettable bypass. Brackets (loosely added) sound-absorbing according to DIN 4109.

Cabinets and dimension chart: page 2.60



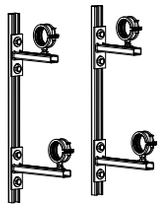
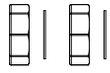
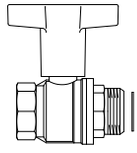
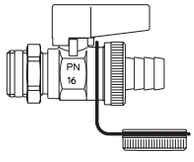
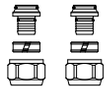
"Multidis SFI" Brass distributor/collector for industrial surface heating and cooling systems
flat sealing distributor/collector modules, flow distributor with ball valves and return collector with regulating valves,
extension to max. 20 circuits by connecting the distributor/collector modules

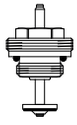
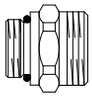
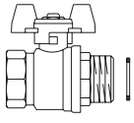
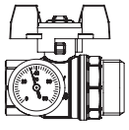
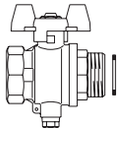
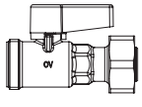
for 2 circuits	**1414452**
for 3 circuits	**1414453**
for 4 circuits	**1414454**
for 5 circuits	**1414455**
for 6 circuits	**1414456**

Application:
Central heating systems with circulation pump and cooling systems.
Max. operating pressure p_s: 6 bar (PN 6)
Max. operating temperature t_s: 90 °C

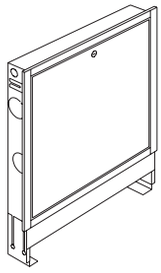
Description:
Pre-assembled distributor/collector modules, one port G 2 male thread, one port G 2 collar nut, with G ½ blind plug.
Flow distributor with ball valves. Return collector with regulating valves.
Heating circuit connections with G 1 male thread for Oventrop compression fittings.

For further information see "Technical information":

	Article	Packing unit	Article-No.	Hint
	Accessories			
	**Console** for "Multidis SFI" brass distributor/collector 2-fold, steel galvanised, adjustable height and depth		**1414490**	Consoles with 2 pipe clamps each including sound insulation supports and quick acting lock. Wall attachment included.
	**Cap G 2 female thread** for "Multidis SFI" brass distributor/ collector, 2-fold, brass		**1414493**	For closing the distributor/collector.
	**Ball valve** flat sealing DN 50 G 2 F x G 2 M		**1406586**	For the isolation of the flow distributors and return collectors.
	**"Optiflex" Ball valve** brass, handle with stop self sealing, with coutnernut, with hose connection (soft seal) and cap DN 15	(50)	**1033314**	For filling and venting.
	**"Cofit S" Compression fittings** for "Copex" PE-Xc plastic pipes, 2-fold, metal to metal sealing plus O-ring, outlet bronze / brass resistant to dezincification, brass compression ring, brass collar nut, unplated 20 x 3.0 mm x G 1 collar nut 26 x 3.0 mm x G 1 collar nut	(10) (10)	**1507969** **1507979**	For the connection of the "Copex" PE-Xc plastic pipes to the distributor as well as for couplings.

	Article		Packing unit	Article-No.	Hint
	Valve insert for stainless steel distributors/collectors "Multidis SF"				
	Brass		(25)	**1404091**	
	Stainless steel		(25)	**1404092***	
	**Coupling**				For the connection of two stainless steel distributors/collectors "Multidis SF" (do not exceed a maximum of 12 heating circuits in total).
	nickel plated				
	G ¾ male x G 1 male		(50)	**1407206**	
	Ball valves				
	flat sealing				
	DN 20	G ¾ F x G 1 M	(10)	**1406383**	
	DN 25	G 1 F x G 1 M	(10)	**1406384**	
	flat sealing, with thermometer (0–80°C) with red T-handle				
	DN 20	G ¾ F x G 1 M		**1406483**	
	DN 25	G 1 F x G 1 M		**1406484**	
	flat sealing, with thermometer (0–80°C) with blue T-handle				
	DN 20	G ¾ F x G 1 M		**1406583**	
	DN 25	G 1 F x G 1 M		**1406584**	
	flat sealing, with sensor connection M 10 x 1.0				
	DN 25	G 1 F x G 1 M	(10)	**1406708**	
	Ball valve for "Multidis SF/SFB" stainless steel distributor/collector				
	with cone "Euro"				Ball valve for the isolation of the heating circuits at the distributor/collector. Heating circuit connection G ¾ male thread according to DIN EN 16313 (cone "Euro") for Oventrop compression fittings. Distributor/collector connection with collar nut G ¾ and O-ring seal.
	G ¾ male x G ¾ collar nut		(50)	**1406504**	

Article	Article-No.	Hint

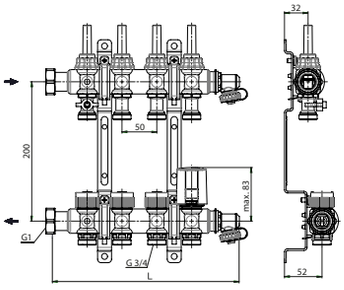


Flush-mounted cabinets
steel, galvanised, frame and doors white lacquered
removable screen

No. 1: inner width: 560 mm	**1401151**
No. 2: inner width: 700 mm	**1401152**
No. 3: inner width: 900 mm	**1401153**
No. 4: inner width: 1200 mm	**1401154**

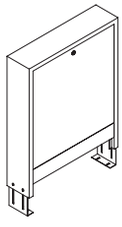
Depth: 115 – 180 mm
Height: 760 – 885 mm

When using heat meter connection sets, the sum of the installation length and the length of the distributor have to be taken into consideration.



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

°°No. of cabinets

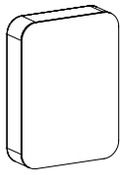
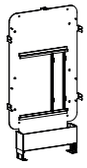
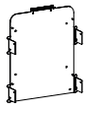


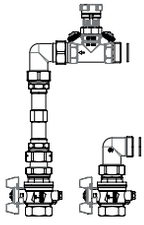
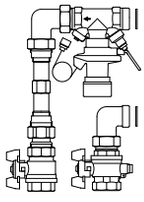
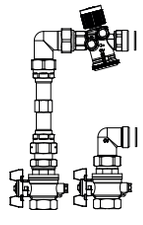
Surface-mounted cabinets
Surface-mounted model
steel, galvanised, frame and doors white lacquered

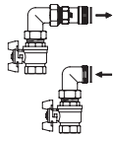
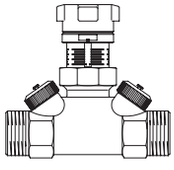
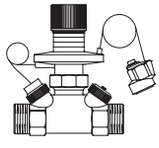
No. 1: inner width: 600 mm	**1401171**
No. 2: inner width: 750 mm	**1401172**
No. 3: inner width: 1000 mm	**1401173**
no. 4: inner width: 1250 mm	**1401174**

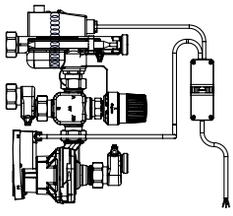
Depth: 160 mm
Height: 760 – 870 mm

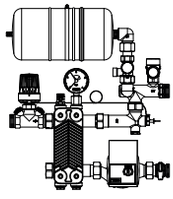
When using heat meter connection sets, the sum of the installation length and the length of the distributor have to be taken into consideration.

	Article	Article-No.	Hint
	**"Regubox" Exclusive cabinet** with white, frameless, opaque and lockable glass door Frame surface made of brushed stainless steel, without rear wall Surface-mounted model for dwelling stations "Regudis W-HTU" and "Regudis W-HTF" with constant temperature heating circuit and for stainless steel distributors/ collectors "Multidis SF" with a maximum of 6 heating circuit connections (angle pattern connection set, item no. 1404780, taken into account)	**1341098**	Dimensions (W x H x D): 630 mm x 900 mm x 170 mm The mounting set for installation during construction for floor-standing installation (item no. 1341099) or wall attachment (item no. 1341199) is to be ordered separately. Awards: DESIGN PLUS ISH Frankfurt 2015 ICONIC AWARDS 2015 GERMAN DESIGN AWARD SPECIAL 2016 iF Design Award 2016
	Mounting set for installation during construction for "Regubox" steel sheet, galvanised Floor-standing installation, adjustable height	**1341099***	Only for "Regubox", item no. 1341098.
	Wall attachment	**1341199***	With screen for covering the lower connection channel of the "Regubox" in case of wall attachment.
	Cylinder lock with key for surface-mounted cabinets (1401171-74) for flush-mounted cabinets (1401151-54)	**1401190** **1401191**	Only suitable for surface-mounted cabinets manufactured since November 2011.

Article	Article-No.	Hint
Heat meter connection sets for "Multidis SF/SFB" stainless steel distributors/collectors for surface heating and cooling systems as well as for "Multidis SH" stainless steel distributors/collectors for radiator connection		Heat meter connection sets are suitable for left and right hand side connection to the distributor/collector.
 Set no. 1 with double regulating and commissioning valve “Hycocon VTZ”		Set no. 1 consists of: Supply - Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing Return – "Hycocon VTZ" Double regulating and commissioning valve – Meter stool piece – Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing – Flat seals
Angle pattern:		
with ball valves DN 20	**1404578**	
with ball valves DN 25	**1404580**	
Straight pattern:		
with ball valves DN 20	**1404579**	
with ball valves DN 25	**1404581**	
 Set no. 2 with differential pressure regulator “Hycocon DTZ”		Set no. 2 consists of: Supply – Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing – Measuring adapter Return – "Hycocon DTZ" Differential pressure regulator – Capillary – Meter stool piece – Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing – Flat seals
Angle pattern:		
with ball valves DN 25	**1404680**	
Straight pattern:		
with ball valves DN 25	**1404681**	
 Set no. 3 with pressure independent control valve „Cocon QTZ“		Set no. 3 consists of: Supply - Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing Return - "Cocon QTZ" Pressure independent control valve - Meter stool piece - Ball valve with temperature sensor connection M 10 x 1.0, for sensor Ø 5.0 / 5.2 mm directly immersing - Flat seals
Angle pattern:		
DN 25, 150 - 1050 l/h	**1404880**	
Straight pattern:		
DN 25, 150 - 1050 l/h	**1404881**	
 Differential pressure relief device for "Multidis SF/SFB" stainless steel distributors/collectors		Differential pressure relief device for the right hand side connection to the distributor/collector. To avoid flow noises. Control range: 50-400 mbar
G ¾ male thread	**1404790**	

Article	kvs	Packing unit	Article-No.	Hint
Angle pattern connection set				Angle pattern connection set for a bottom connection to the distributor/collector when using surface-mounted cabinets.
 for "Multidis SF/SFB" stainless steel distributors/collectors for surface heating and cooling systems as well as for "Multidis SH" stainless steel distributors/collectors for radiator connection			**1404780**	
"Hycocon VTZ" Double regulating and commissioning valve with infinitely adjustable presetting **"eco" measuring technique** both ports with integrated pressure test points and drain valves				**"eco" measuring technique:** Information: page 3.94. Operating temperature: -10 °C up to +120 °C
 <u>both ports male thread, flat sealing</u>				General information: Body and bonnet made of brass resistant to dezincification. Male thread G 1.
DN 20	2.70	(10)	**1061856**	
"Hycocon DTZ" Differential pressure regulator nominal value: 50 to 300 mbar, infinitely adjustable **"eco" measuring technique** with integrated pressure test point and drain valve				**"eco" measuring technique:** Information: page 3.94. Operating temperature: -10 °C up to +120 °C
 <u>both ports male thread without collar nut</u>				General information: Body and bonnet made of brass resistant to dezincification. Male thread G 1.
DN 20	2.70		**1062156**	

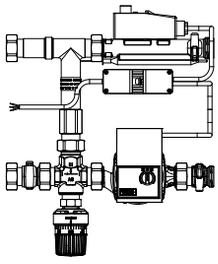
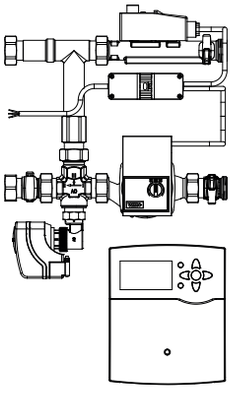
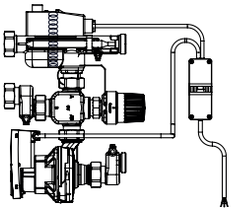


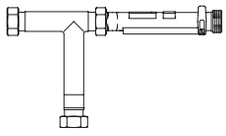
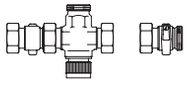
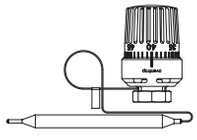
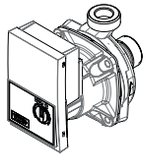
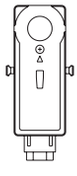
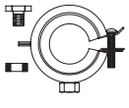


2.k "Regufloor" Control units

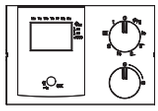
Content

	Page
"Regufloor H"	2.66
"Regufloor HW"	2.66
"Regufloor HN"	2.66
System components	2.67
"Regtronic EH" Heating circuit controller	2.68
"Regtronic RH" Heating circuit controller	2.68
"Regtronic EM" Extension module	2.68
Accessories	2.69
"Regufloor HC"	2.70
System components for "Regufloor HC"	2.70
"Tri-D TR" Three-way diverting valves PN 16	2.71
"Tri-M TR" Three-way mixing valves PN 16	2.71
"Tri-CTR" Three-way diverting and mixing valves PN 16	2.71
"Regufloor HX"	2.72

	Article	Packing unit	Article-No.	Hint
	**"Regufloor H"** **Control unit DN 25 Heating** for connection to the stainless steel distributor/collector			Application ("Regufloor H and HW"): Fixed value control unit for connection to the stainless steel distributor/collector for surface heating systems. Connection of 2 - 12 heating circuits. Length: 315 mm Depth: 145 mm Pump length: 130 mm Max. operating pressure: 6 bar Max. differential pressure: 0.75 bar Max. flow temperature: Primary side: 90 °C Secondary side: 50 °C Control range temperature controller: ("Regufloor H" only): 20–50 °C Control range electric pipe contact safety switch: 20–90 °C
	with high-efficiency pump Wilo-Yonos PARA RS 15/6, 130 mm (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)	(5)	**1151300**	
	with Wilo pump E15/ 1-5 (export model, only for sales outside the European Union)		**1151000**	
	**"Regufloor HW"** **Control unit DN 25 Heating** as above, but with weather guided control for connection to the stainless steel distributor/collector			Description ("Regufloor H"): Pre-assembled and tested fixed value control unit with electronic pump, three-way diverting valve, check valve, temperature controller with contact sensor. Electric pipe contact safety switch for max. limitation of the flow temperature.
	with high-efficiency pump Wilo-Yonos PARA RS 15/6, 130 mm and heating circuit controller "Regtronic RH" (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)		**1151800**	Description ("Regufloor HW"): As "Regufloor H" but three-way diverting valve with electromotive actuator (three point), heating circuit controller with outdoor sensor and flow temperature sensor.
	with Wilo pump E15/1-5 and heating circuit controller "Regtronic EH" (export model, only for sales outisde the European Union)		**1151500**	
	**"Regufloor HN"** **Control unit DN 25 Heating** for connection to the stainless steel distributor/collector			Application: Fixed value control unit for connection to the stainless steel distributor/collector for surface heating systems. Connection of 2 - 12 heating circuits. Length: 195 mm Depth: 100 mm Axial pump housing Max. operating pressure: 6 bar Permissible pressure difference: 200 kPa (2 bar) Max. flow temperature: Primary side: 90 °C Secondary side: 50 °C Control range temperature controller: 20 - 50 °C Control range electric pipe contact safety switch: 20 - 90 °C
	with high-efficiency pump Wilo-Yonos PARA RSB 15/6, 130 mm (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)		**1151600**	Description ("Regufloor HN"): Pre-assembled and tested fixed value control unit with electronic pump with axial pump housing, three-way diverting valve, check valve, temperature controller with contact sensor. Electric pipe contact safety switch for max. limintation of the flow temperature.

	Article	Article-No.	Hint
	System components		For the isolation of the supply and return, use Oventrop ball valves item no. 1406383 DN 20 and item no. 1406384 DN 25.
	T-connection piece	**1151080**	With check valve and sensor point.
	Three-way diverting valve with S-connection fitting	**1151081**	
	Temperature controllers with contact sensor	**1151082**	Control range 20–50 °C. Only supplied as replacement.
	Wilo E15/1-5 (export model, only for sales outside the Europan Union)	**1151086**	Pump <u>without</u> pump cable. Only supplied as replacement.
	High-efficiency pump Wilo-Yonos PARA with axial pump housing (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)	**1151089***	Only for "Regufloor HN", item no. 1151600. Pump <u>without</u> pump cable. Only supplied as replacement.
	High-efficiency pump Wilo-Yonos PARA (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)	**1151088**	Pump <u>without</u> pump cable. Only supplied as replacement.
	Electric pipe contact safety switch	**1151087**	Including cabling for Wilo pump E15/1-5.
	Bracket T-connection piece	**1151085**	

Article	Article-No.	Hint

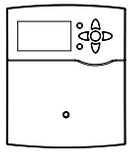


"Regtronic EH" Heating circuit controller

with 1 outdoor sensor and 3 additional sensors (NTC 5000)

230 V **1152092°**

Weather-guided control of the flow temperature of the heating system by activation of a heat generator and/or a mixing valve.



"Regtronic RH" Heating circuit controller

with 1 outdoor sensor **1152093**
and 3 additional sensors (PT 1000)

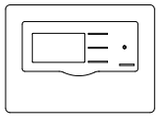
with 1 outdoor sensor, **1152090**
2 additional sensors (PT 1000)
and remote control including room temperature sensor (PT 1000)

Weather guided flow temperature control of the heating system via the demand of a heat generator and/or a mixing valve (e.g. "Regumat M3" or "Regufloor HW" with three-way mixing valve). Controller for wall attachment with data bus (S-bus).
Basic functions: 1 variable and 1 constant temperature heating circuit with heat demand. Extendable by "Regtronic EM". The status can be viewed via a full graphic display.
Interfaces: S-bus, SD-card slot for data recording
Inputs: 8 sensor inputs (PT 1000, KTY, switch or remote control), inputs for electronic volume flow sensor/pressure sensor and irradation sensor
Outputs: 4 solid-state relays (speed controlled), 1 standard relay (volt free), 2 PWM outputs for the speed controlled activation of high-efficiency pumps. Both PWM outputs can be switched to 0-10 V.

For the connection of high-performance pumps (> 1A) see load relay, page 6.72.

ErP classification heating circuit controllers “Regtronic RH” and “Regtronic EH”

Item no.	Controller	Required accessories	Boiler control		ErP %	Class
			modulating (0-10 V)	On/Off		
1152092	“Regtronic EH”	–		X	1.5	III
1152093	“Regtronic RH”	Adapter cable 1152086	X		2.0	II
1152093	“Regtronic RH”	–		X	1.5	III
1152090	“Regtronic RH” incl. remote control with room temperature sensor	Adapter cable 1152086	X		4.0	VI
1152090	“Regtronic RH” incl. remote control with room temperature sensor	–		X	3.5	VII
1152090	“Regtronic RH” incl. remote control with room temperature sensor	2 x room temperature sensor 1152095 Adapter cable 1152086	X		5.0	VIII

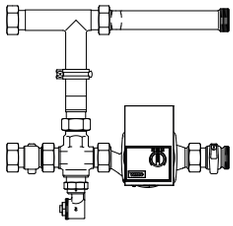
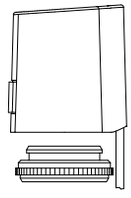
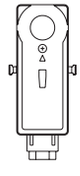
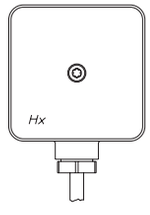


"Regtronic EM" Extension module

for the connection to the heating circuit controller "Regtronic RH" **1152098**

"Regtronic EM" for the extension of the heating circuit controller "Regtronic RH" by 6 sensor inputs and 5 relay outputs.
This allows the activation of further variable and constant temperature heating circuits.
Up to **five** extension modules can be connected to the heating circuit controller "Regtronic RH".
1 sensor attached to the pipe PT 1000 is included.

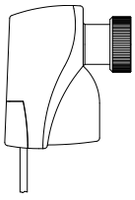
	Article	Article-No.	Hint
	Accessories		
	Room temperature sensor PT 1000	**1152095**	Room temperature sensor for fixing on level surfaces (surface mounting).
	Remote control with room temperature sensor PT 1000	**1152096**	Remote control with room temperature sensor PT 1000 for the connection to the electronic controllers "Regtronic RH, RM and RS" for a comfortable control of the heating curve of the controller from the living area. When increasing the heating curve, the flow temperature is increased and vice versa. The remote control also features the functions "heating circuit off" and "party position".

	Article	Article-No.	Hint
	**"Regufloor HC"** **Control unit DN 25 Heating/Cooling** for connection to the stainless steel distributor/collector		Application: Control unit for flow temperature control of surface heating systems or alternatively of surface cooling systems in combination with the Oventrop stainless steel distributors/ collectors. Pre-assembled and tested control unit with electronic pump and three-way diverting valve. Suitable for the connection of 2 - 12 heating circuits to two-, three- and four-pipe systems Heating and Cooling.
	with high-efficiency pump Wilo-Yonos PARA RS 15/6, 130 mm (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)	**1152100**	
	with Wilo pump E15/1-5 (export model only for sales outside the European Union)	**1152000**	Length: 315 mm Max. operating pressure: 6 bar Max. differential pressure: 0.75 bar Max. flow temperature: Primary side: 90 °C Secondary side: 50 °C
	System components for "Regufloor HC"		
	**"Aktor T 2P" Electrothermal actuators (two point)** connection thread M 30 x 1.5		Oventrop electrothermal actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, radiant ceiling panels, chilled ceiling systems and induction air systems in combination with two point room thermostats. Further applications in bivalent heating installations. Connecting cable 1 m. With "First-Open" function and stroke index. Simple plug-in connection with valve adapter. Actuators can be installed in any position. Due to their construction, the electrothermal actuators are secured against overvoltage which could occur when switching on neon tubes. A varistor is thus not necessary.
	"H NC", closed with current "off", 230 V "L NC", closed with current "off", 24 V	**1012415** **1012416**	
	Electric pipe contact safety switch	**1151087**	Including cabling for Wilo pump E15/1-5.
	"Sensor GA FD" Dew point control 24 V with alternating contact	**1141951**	Is required in combination with room thermostats to protect chilled ceilings against condensation. An actuator interrupting the cooling water flow is for instance activated in combination with the "Regufloor HC". Connection to the cooling water supply. Connecting cable 1 m.

Combination possibilities of valves and actuators: Page 3.08

Article	kvs	Packing unit	Article-No.	Hint

System components



"Aktor M" Electromotive actuators
connection thread M 30 x 1.5
with manual setting, adjustable mode of operation

"ST L", 24 V, modulating proportional actuator, 0-10 V, automatic anti-blocking function and recognition of neutral point, multiple characteristic lines adjustable		**1012705**
"ST L", 24 V, modulating proportional actuator, 0-10 V, with position feedback, automatic anti-blocking function and recognition of neutral point, mutiple characterstic lines adjustable		**1012706**
"3P L", 24 V, three point actuator, without anti-blocking function		**1012708**
"3P H", 230 V, three point actuator, without anti-blocking function, mode of operation not adjustable		**1012709**

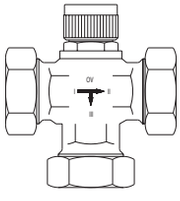
Oventrop electromotive actuators are used for heating, ventilation and air conditioning. The actuators serve to control the room temperature and can be used e. g. with conventional radiators, radiators with integrated distributor, distributors/collectors for surface heating (except for item no. 1012710/11), radiant ceiling panels, chilled ceiling systems and induction air systems. Further application in bivalent heating installations.

The actuators (0-10 V) can be used in centralised building control systems in combination with the electronic room thermostat, item no. 1152151/53, or with a central controller.
Anti-blocking function:
The actuator opens and closes the valve completely once every 24 hours.
Connecting cable 1.5 m.

With the appropriate control, the actuator, item no. 1012708, can also be used for two point operation.
In case of electric emergeny function, the actuator returns to zero position if the power supply is interrupted.

"Tri-D TR" Three-way diverting valves PN 16
bronze

connection thread M 30 x 1.5
with collar nuts, flat sealing



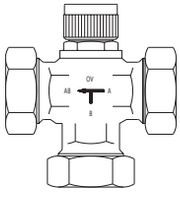
DN 20	4.50	**1130206**
DN 25	6.50	**1130208**
DN 40	9.50	**1130212**

Application:
Max. operating pressure p_s: 16 bar (PN 16)
Operating temperature t_s: 0 °C up to 120 °C

Diverting respectively changing-over ("Tri-D TR") or mixing ("Tri-M TR") of volume flows in heating and cooling systems in combination with thermostatic or electric actuators.

"Tri-M TR" Three-way mixing valves PN 16
bronze

connection thread M 30 x 1.5
with collar nuts, flat sealing

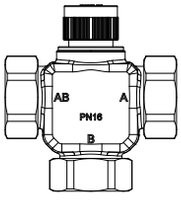


DN 20	4.50	**1131706°**
DN 25	6.50	**1131708°**
DN 40	9.50	**1131712°**

Male thread:
G 1
G 1 ¼
G 2

"Tri-CTR" Three-way diverting and mixing valves PN 16
bronze

connection thread M 30 x 1.5
with collar nuts, flat sealing



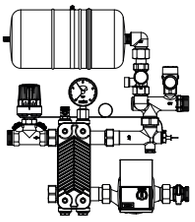
DN 15	(10)	**1131204**
DN 20	(10)	**1131206**
DN 25	(10)	**1131208**
DN 32	(5)	**1131210**
DN 40	(5)	**1131212**
DN 50	(5)	**1131216**

Function:
For use as diverting valve, the three-way valve has one inlet port (AB) and two outlet ports (A and B). Depending on the position of the valve disc, the direction of flow is diverted from one to the other outlet port.
For use as mixing valve, the three-way valve has two inlet ports (A and B) and one outlet port (AB). Depending on the position of the valve disc, the cold and hot water is mixed.

The three-way valves "Tri-CTR" can be used for high differential pressures.

Combination possibilities of valves and actuators: Page 3.08

Article	Article-No.	Hint



"Regufloor HX"
Control unit DN 25 Heating
for connection to the stainless steel distributor/collector
For flow temperature control of
surface heating systems, with heat exchanger.

with high-efficiency pump **1151065**
Wilo-Yonos PARA RS Ku 15/6, 130 mm
(Energy Efficiency Index EEI ≤ 0.23
according to EC Regulation 641/2009)

with Wilo pump E15/1-5 **1151060**
(export model, only for sales
outside the European Union)

Application:
Fixed value control unit for the operation of open vented surface heating systems in heating systems (separate circuits).
Installation on the left hand side of the distributor/collector.

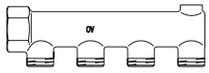
Connection of 2-12 heating circuits.
Max. operating pressure:
Primary side: 6 bar
Secondary side: 3 bar

Max. flow temperature:
Primary side: 90 °C
Secondary side: 50 °C
Control range temperature controller:
20–50 °C

Description:
Pre-assembled and tested fixed value control unit with electronic pump (plastic body).

Heat exchanger, diaphragm expansion tank (3 l), pressure gauge, safety valve.

Page

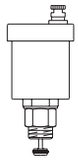
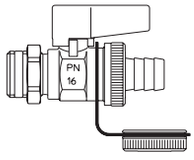
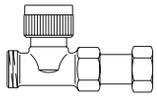
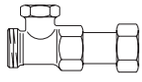
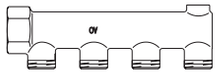
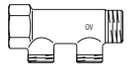
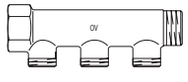
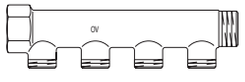
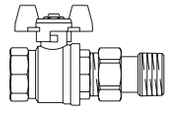
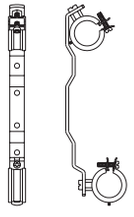


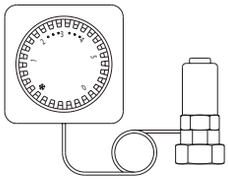
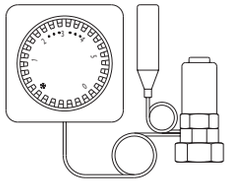
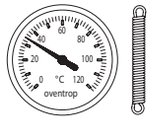
2.I Single components for distributors/collectors

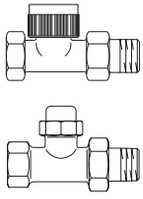
Content

Individual components for distributor systems 2.74

Accessories 2.75

	Article	Packing unit	Article-No.	Hint
	Individual components for distributor systems			Distributor systems for central heating systems.
	Brass automatic airvent with automatic shut off			If not stated otherwise, all products are made of brass.
	G ⅜	(10)	**1088303**	
	Vent plug G ⅜			
	self sealing, set = 10 pieces		**1400392**	
	self sealing, with coutnernut, with hose connection (soft seal) and cap			
	DN 10	(50)	**1033313**	
	Flow valve “AZ” for thermostatic control			Valve for the flow distributor of surface heating systems.
	DN 15 G ¾ M x G ¾ F	(25)	**1400164**	
	Return flow lockshield valve “Combi 2” with presetting and isolating facility			Lockshield valve for the return collector of underfloor heating systems.
	DN 15 G ¾ M x G ¾ F	(25)	**1401194**	
	Brass terminal distributor/collector G 1 female thread G ¾ male thread for circuit connection G ⅜ female thread for airvent connection			
	4 outlets	(2)	**1400554**	
	Brass distributor/collector G 1 female thread x G 1 male thread G ¾ male thread for circuit connection			
	2 outlets	(2)	**1400652**	
	3 outlets	(2)	**1400653**	
	4 outlets	(2)	**1400654**	
	Terminal cap G 1 female thread G ⅜ female thread for airvent connection G ½ female thread for fill and drain ball valve connection	(10)	**1400691**	
	Ball valve DN 25 with coupling flat sealing	(10)	**1406394**	
	Bracket			Bracket with mounting clip. For the installation of the distributor/collector into the cabinet or onto the wall. Sound absorbing as per DIN 4109.
	steel, galvanised	(25)	**1401061**	

	Article	Packing unit	Article-No.	Hint
	Accessories			Thermostats with remote control and with remote transmission are especially suitable for trench heaters, encased radiators and surface heating systems. Max. heating water temperature: 120 °C
	**Thermostat with remote control "Uni FH"** white			
	capillary 2 m long		**1012295**	with '0' setting
	capillary 5 m long		**1012296**	
	capillary 10 m long		**1012297**	
	white, with additional remote sensor			
	capillary 2 m long		**1012395**	with '0' setting
	capillary 5 m long		**1012396**	For further information see "Technical information":
	Manual heads white			The manual head allows the subsequent conversion to actuators or thermostats without the necessity to drain the system.
	connection thread M 30 x 1.5	(10)	**1012565**	
	Contact thermometer			
	for distributors/collectors	(50)	**1404095**	
	Coupling			
	DN 15 (G ¾ c/nut x R ½ M)	(50)	**1019304**	
	Blind plug G ½			
	self sealing	(100)	**1401704**	
	Cap G ¾ female thread (not illustr.)		**1400692**	To close outlets not in use.
	Cap G 1 female thread (not illustr.)	(10)	**1400693**	Can be used instead of the cap, but does not allow the connection of an airvent or a fill and drain ball valve.
	Ring spanner			
	Spanner size 30/32		**1401091**	For the installation of the compression fittings.



2.m Regulating sets for surface heating systems

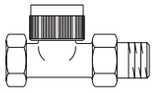
Content

Page

Regulating sets for surface heating systems 2.78

Article	Article-No.	Hint

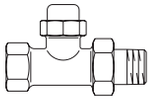
Regulating sets for surface heating systems with bypass valve



Set no. 1

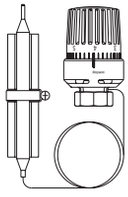
for surfaces up to 85 m² **1144251**

consisting of:



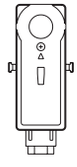
Valve DN 15, brass, nickel plated
straight pattern
item no. 1180104 (M 30 x 1.5)

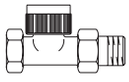
Bypass valve DN 20, brass, nickel plated
straight pattern
item no. 1027666



Temperature controller
with contact sensor
and heat transfer unit
capillary 2 m long
control range 20–50 °C
item no. 1142861 (M 30 x 1.5)

Electric pipe contact safety switch
with concealed temperature setting
control range 20–90 °C
item no. 1143000

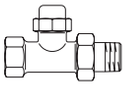




Set no. 2

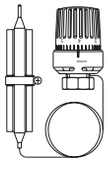
for surfaces up to 120 m² **1144252**

consisting of:

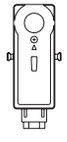


Valve DN 20, brass, nickel plated
straight pattern
item no. 1187106 (M 30 x 1,5)

Bypass valve DN 25, brass, nickel plated
straight pattern
item no. 1027668



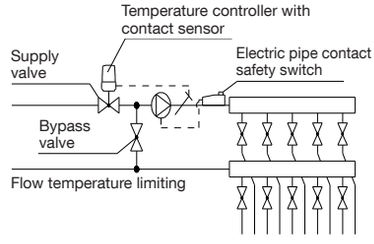
Temperature controller
with contact sensor
and heat transfer unit
capillary 2 m long
control range 20–50 °C
item no. 1142861 (M 30 x 1.5)



Electric pipe contact safety switch
with concealed temperature setting
control range 20–90 °C
item no. 1143000

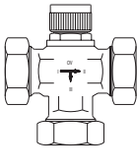
Application:
The regulating set with bypass valve is required for the control of the flow temperature of a surface heating system, for instance in combined radiator/surface heating systems. The required flow temperature is set at the temperature controller. The electric pipe contact safety switch switches the circulation pump off as soon as the set flow temperature is exceeded. The bypass valve serves to regulate the flow rate of the surface heating circuit.

Example:



For further information see "Technical information":

Article	Article-No.	Hint

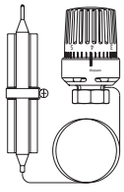


Regulating set for surface heating systems with "Tri-D TR" three-way diverting valve

Set no. 3

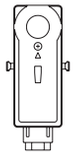
for surfaces up to 200 m² **1144253**

consisting of:



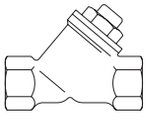
Three-way diverting valve „Tri-D TR“
DN 20 bronze
item no. 1130206 (M 30 x 1.5)

Temperature controller
with contact sensor
and heat transfer unit
capillary 2 m long
control range 20–50 °C
item no. 1142861 (M 30 x 1.5)



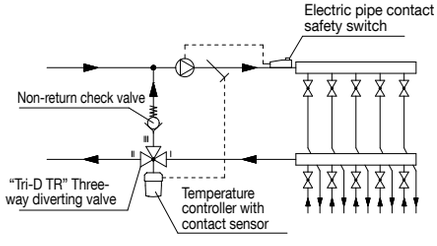
Electric pipe contact safety switch
with concealed temperature setting
control range 20–90 °C
item no. 1143000

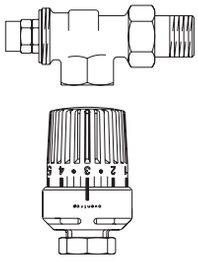
Piston type spring assisted check valve DN 20
bronze/brass
item no. 1072006



Application:
The regulating set with "Tri-D TR" three-way diverting valve is required for the control of the flow temperature of a surface heating system, for instance in combined radiator/surface heating systems. The required flow temperature is set at the temperature controller. The electric pipe contact safety switch switches the pump off as soon as the set flow temperature is exceeded. Depending on the setting of the temperature controller, the three-way diverting valve divides the volume flow into a return flow and a bypass flow. The check valve installed in the bypass prevents a wrong flow against the three-way diverting valve.

Example:

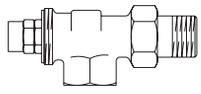
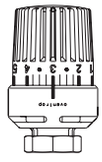
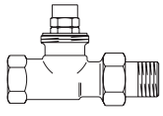
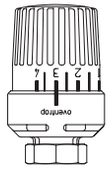
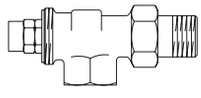
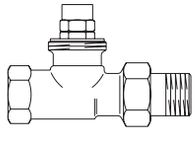
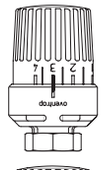
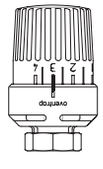


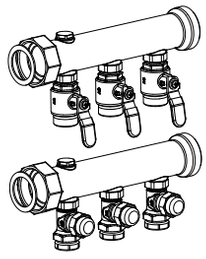


2.n Return temperature limiter set

Content

	Page
Return temperature limiter set	2.82
Return temperature limiters	2.82
Thermostat "Uni RTLH"	2.82
Thermostat "Uni RTL"	2.82
Valve inserts	2.82
Gland nut	2.82

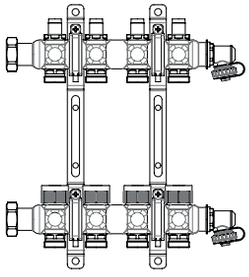
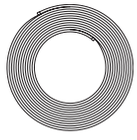
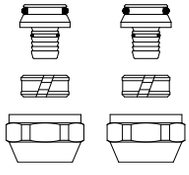
	Article	kv at 2K P-dev.	Packing unit	Article-No.	Hint
	Return temperature limiter set				Application: Central heating systems, combined radiator/surface heating. Max. operating pressure p_s: 10 bar (PN 10)
	Reversed angle connection consisting of:				
	Reversed angle pattern valve for the return pipe and thermostat “Uni RTLH”	0.30		**1028364**	Valve insert with double disc prevents inadvertent overheating, with frost protection. Thermostat "Uni RTLH" with '0' setting, may be limited or locked. Control range: 10 °C-40 °C factory setting (return temperature) max be increased to 50 °C by cancelling the limitation (40 °C).
	Straight pattern connection consisting of:				For further information see "Technical information":
	Straight pattern valve for the return pipe and thermostat “Uni RTLH”				
	DN 15	0.30		**1028464**	
	Return temperature limiters Valves for thermostats "Uni RTLH" connection thread M 30 x 1.5 brass, nickel plated				Application: Central heating systems, combined radiator/surface heating systems. Max. oprating pressure p_s: 10 bar (PN 10)
	Reversed angle pattern valve for the return pipe				Valve insert with double disc prevents inadvertent overheating, with frost protection.
	DN 10	0.30	(25)	**1024363**	
	DN 15	0.30	(25)	**1024364**	
	Straight pattern valve for the return pipe				
	DN 10	0.30	(25)	**1024463**	
	DN 15	0.30	(25)	**1024464**	
	**Thermostat "Uni RTLH"** connection thread M 30 x 1.5				With '0' setting, may be limited or locked. 10-40 °C factory setting (return temperature) may be increased to 50 °C by cancelling the limitation (40 °C).
	white		(25)	**1027165**	
	chrome plated		(25)	**1027172**	
	**Thermostat "Uni RTL"** connection thread M 30 x 1.5				With '0' setting, may be limited or locked. RTL valves with connection thread M 30 x 1.0 are no longer produced.
	white		(25)	**1027100**	
	Valve inserts				
	for return flow valves connection thread M 30 x 1.5		(100)	**1026981**	Valve insert with double disc. Prevents inadvertent overheating, with frost protection.
	Gland nut for all RTLH valves				
	Set = 5 pieces		(10)	**1026986**	

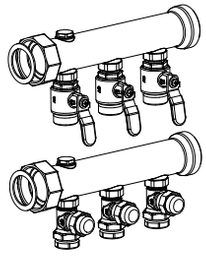
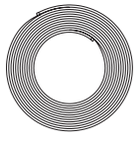
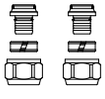
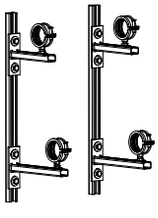


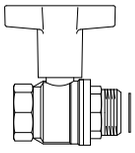
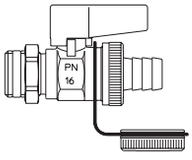
2.o Components for concrete core activation

Content

	Page
"Multidis SF" Stainless steel distributor/collector	2.84
PE-Xc "Copex" Plastic pipes	2.84
"Cofit S" Compression fittings	2.84
"Multidis SFI" Brass distributor/collector for industrial surface heating/concrete core activation	2.85
PE-Xc "Copex" Plastic pipes	2.85
"Cofit S" Compression fittings	2.85
"Optiflex" Ball valve	2.86

Article	Packing unit	Article-No.	Hint
"Multidis SF" Stainless steel distributor/collector for surface heating systems/concrete core activation with integrated regulating inserts (flow distributor) flat sealing, with valve inserts M 30 x 1.5 for thermostatic and electronic control			Application: Stainless steel distributor/collector for surface heating and cooling systems. Max. operating pressure p_s: 6 bar (PN 6) Max. operating temperature t_s: 80 °C
			Description: Distributor/collector pre-assembled. With fill and drain valves. Heating circuit connections G ¾ male thread for Oventrop compression fittings. Flow distributor with integrated regulating inserts. Return collector with integrated valve inserts. Bracket (loosely added) sound-absorbing according to DIN 4109.
for 2 circuits		**1405552***	
for 3 circuits		**1405553***	
for 4 circuits		**1405554***	
for 5 circuits		**1405555***	
for 6 circuits		**1405556***	
for 7 circuits		**1405557***	
for 8 circuits		**1405558***	
for 9 circuits		**1405559***	
for 10 circuits		**1405560***	
for 11 circuits		**1405561***	
for 12 circuits		**1405562***	
			Further distributors/collectors for surface heating systems: page 2.56
			Application: Surface heating and cooling. Pipes according to DIN 16892/DIN 16893/ DIN EN ISO 15875/EN 1265-4. Oxygen tight according to DIN 4726 (all dimensions). Further dimensions: page 2.48
PE-Xc "Copex" Plastic pipes with oxygen barrier rolls			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
Dimension 17 x 2 mm			
length per roll 120 m	(120)	**1400251**	
length per roll 240 m	(240)	**1400252**	
length per roll 600 m	(600)	**1400254**	
"Cofit S" Compression fittings for "Copex" Pe-Xc plastic pipes, 2-fold, metal to metal sealing plus O-ring, outlet made of bronze, brass compression ring and collar nut, collar nut nickel plated			For the connection of the "Copex" PE-Xc plastic pipes to the distributor/collector and for couplings.
			
17 x 2.0 mm x G ¾ collar nut	(10)	**1507937**	

	Article	Packing unit	Article-No.	Hint
	"Multidis SFI" Brass distributor/collector for industrial surface heating/concrete core activation Distributor/collector modules flat sealing, flow distributor with ball valves, return collector with regulating valves, extension to max. 20 circuits by connecting the distributor/collector modules			Application: Brass distributor/collector for surface heating and cooling systems. Max. operating pressure p_s: 6 bar (PN 6) Max. operating temperature t_s: 90 °C Description: Distributor/collector modules pre-assembled. One port G 2 male thread, one port G 2 collar nut with G ½ blind plug. Flow distributor with ball valves. Return collector with regulating valves. Heating circuit connections with G 1 male thread for Oventrop compression fittings.
	for 2 circuits		**1414452**	
	for 3 circuits		**1414453**	
	for 4 circuits		**1414454**	
	for 5 circuits		**1414455**	
	for 6 circuits		**1414456**	
	**PE-Xc "Copex" Plastic pipes** with oxygen barrier			Application: Surface heating and cooling. Pipes according to DIN 16892/DIN 16893/ DIN EN ISO 15875/EN 1264-4 (except for dimension 26).
	rolls			Oxygen tight according to DIN 4726 (all dimensions).
	Dimension 20 x 2 mm			Max. operating pressure p_s: 6 bar at 90 °C 8 bar at 70 °C
	length per roll 240 m	(240)	**1400352**	
	length per roll 600 m	(600)	**1400354**	
	Dimension 26 x 3 mm			Max. operating pressure p_s: 6 bar at 90 °C 10 bar at 60 °C
	length per roll 50 m	(50)	**1400560**	
	length per roll 200 m	(200)	**1400562**	
	length per roll 300 m	(300)	**1400563**	
	Dimension 32 x 3 mm			Max. operating pressure p_s: 6 bar at 90 °C 8 bar at 60 °C 10 bar at 20 °C
	length per roll 50 m	(50)	**1400660**	
	"Cofit S" Compression fittings for "Copex" PE-Xc plastic pipes, 2-fold, metal to metal sealing plus O-ring, outlet bronze / brass resistant to dezincification, brass compression ring, brass collar nut, unplated			For the connection of "Copex" PE-Xc plastic pipes to the distributor/collector and for couplings.
	20 x 3.0 mm x G 1 collar nut	(10)	**1507969**	
	26 x 3.0 mm x G 1 collar nut	(10)	**1507979**	
	**Console** for "Multidis SFI" brass distributor/collector 2-fold, steel galvanised, adjustable height and depth		**1414490**	Consoles with 2 pipe clamps each including sound insulation supports and quick acting lock. Wall attachment included.
	Cap G 2 female thread for "Multidis SFI" brass distributor/ collector, 2-fold, brass		**1414493**	For closing the distributor/collector.

	Article	Packing unit	Article-No.	Hint
	**Ball valve** flat sealing DN 50 G 2 F x G 2 M		**1406586**	For the isolation of the flow distributors and return collectors.
	**"Optiflex" Ball valve** brass, handle with stop self sealing, with coutnernut, with hose connection (soft seal) and cap DN 15	(50)	**1033314**	For filling and venting.

Boiler-Gas.ru
Перейти на сайт