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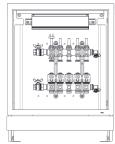












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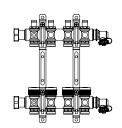
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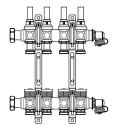
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"Cofit S" Compression fittings

Valve insert for stainless steel distributors/collectors "Multidis SF"

"Hycocon DTZ" Differential pressure regulator

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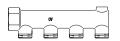
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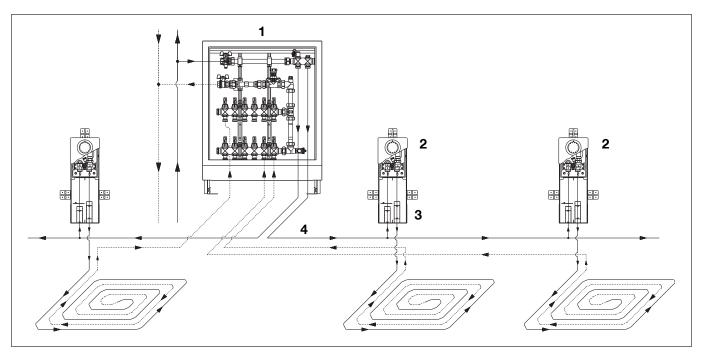
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2.a System summary

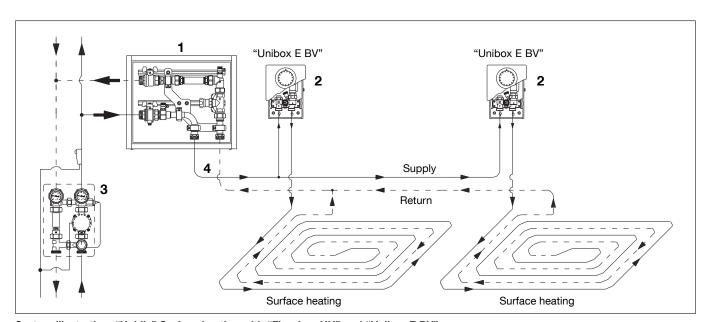
Content

System summary 2.06



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

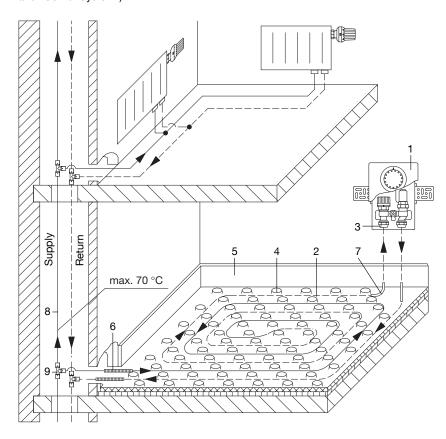
- 1 "Floorbox MH" Return collector
- 2 "Unibox E BV"
- 3 Fixing channel
- 4 "Copipe" Composition pipe
 - "Copex" PE-Xc pipe
 - "Copert" PE-RT pipe



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

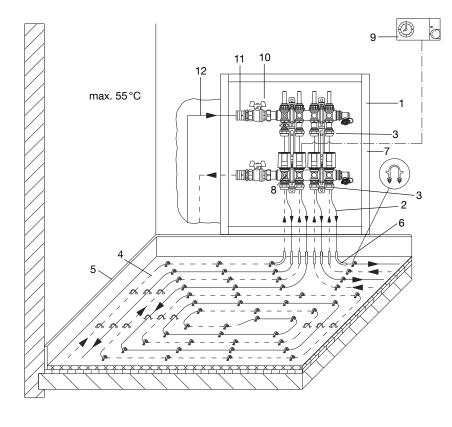
Examples of the application (further examples see product ranges "Unibox", "Multidis" stainless steel distributors/collectors and "Combi-System")



"Cofloor" Surface heating with "Unibox E plus" individual room temperature control

consisting of the Oventrop components:

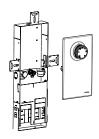
- 1 "Unibox E plus" Installation set
- 2 "Copex" PE-Xc pipe
- 3 "Ofix K" Compression fittings
- 4 Base mat
- 5 Edge insulating strip
- 6 Protection pipe, slit
- 7 Pipe guiding elbow
- 8 "Copipe HSC" Composition pipe
- 9 "Cofit P" Press T-piece



"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

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

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

0.57

1022662

Combination room temperature control and presettable bypass

Depth: 57 mm

0.81

0.34

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).



"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.



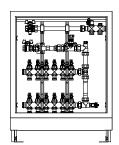
"Unibox T" Room temperature control

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.



"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)	1027053
for 6 circuits	
with two return collectors (4-fold each)	1027054°
for 8 circuits	
with two return collectors (5-fold each)	1027055°
for 10 circuits	
with two return collectors (6-fold each)	1027056°
for 12 circuits	
TOT TE OTTOGICS	

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:

Hint

- 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-No.

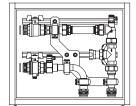
1022669

"Floorbox U"

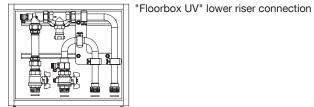
Article

Connection without distributor/collector for surface heating systems

"Floorbox UH" lateral riser connection 1022668



lateral connection



lower connection

dwelling to the surface heating system together with the installation sets "Unibox".

The "Floorbox" serves to connect each

Installation set consisting of:

Hint

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":



Article Article-No. Hint

Fixing channel



for "Unibox", depth: 57 mm

1022653

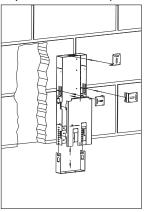
For heavyweight and lightweight walls, made of galvanised steel sheet for pipework installation out of the ground into the wall to the "Unibox". An additionally required installation set of the "Unibox" range has to be ordered separately and has to be installed in the fixing channel. Assembly without 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).

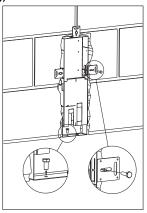
Height: 440 - 490 mm (extendible)

Width: 160 mm

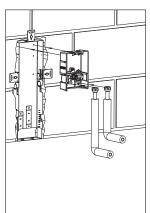
Sequence of installation (summary):



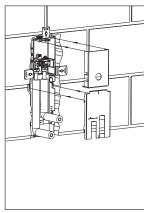
Adjust depth and height, align with wall recess



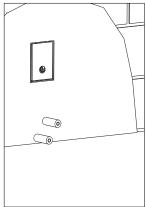
2 Place fixing channel into the wall



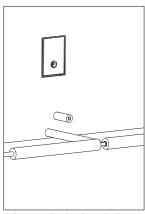
3 Mount "Unibox" and both supply connection pieces



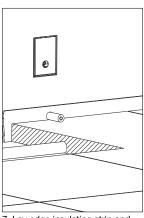
4 Mount protection cover of the "Unibox" and of the fixing channel



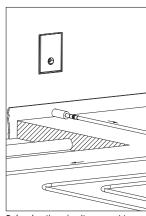
5 Carry out wall plastering



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

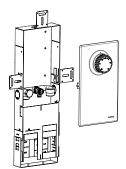


7 Lay edge insulating strip and system board



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 3/4 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 1022676 and presettable bypass

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 3/4 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 1515153 20 x 2.5 mm 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

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 1515353 20 x 2.5 mm 1515356



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

Content

"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

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

with "Q-Tech" for automatic hydronic balancing Combination thermostat "Uni LH" and thermostat "Uni RTLH" Depth: 57 mm

1022684 white

"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 3/4 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

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

Combination room temperature control and presettable bypass Depth: 57 mm

white



0.81 0.34 0.57 **1022662**

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

Application:

"Unibox".

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).

"Unibox RLA" Flush-mounted box for isolation

Combination isolating and regulating function Depth: 57 mm



white 1022663

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 E T" Room temperature control (exclusive)

Room temperature control Depth: 57 mm



white 0.81 0.34 0.57 **1022632**

"Unibox T" Room temperature control

Room temperature control with thermostat "Uni LH" Depth: 57 mm



white 1.10 0.36 0.67 **1022636** chrome 1.10 0.36 0.67 **1022646°** plated

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)

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).

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

"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

For installations with flow temperatures suitable for surface heating systems according to DIN EN 1264.

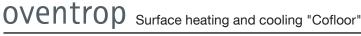
Installation set consisting of:

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 3/4 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	0.81	0.34	0.57	1022643
plated 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 0.81 0.34 0.57 1022644 plated

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

- Thermostat with remote control "Uni FH" (page 2.77)

or:

- room thermostat (page 2.28) and actuator (page 3.89)

"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

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 3/4 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":



Installation set consisting of: Wall box unit with integrated return temperature limiter, venting and flushing valve and closed cover plate. Valve connection G 3/4 for Oventrop compression fittings. For return temperature limitation. Temperature range: 20-40 °C (return temperature).

The models

- "Unibox E plus"
- "Unibox E vario"

comply with the requirements of the German Energy Saving Diretive (EnEV § 14).

2017 2.22



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

"Unibox plus" Room and return temperature control Combination thermostat "Uni LH"

and thermostat "Uni RTLH"

Depth: 57 mm

white 1.10 0.67 1022637

""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 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

white 1022635 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 3/4 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).

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	^g Article-No.	Hint
	Conversion set "Unibox T" for "Unibox E RTL"		1022639	Position 1 - 4 are used for the conversion of a "Unibox E RTL" to a "Unibox T".
	consisting of: 1 Presettable thermostatic valve 2 Thermostat "Uni LH" 3 Spacer, screws 4 White cover plate			A "Unibox E RTL" can be re-assembled by use
	5 Wall box unit 6 Bracket 7 Protection cover plate			of the valve dismounted before and positions 5 - 7.
-	Accessories			
-	Fixing channel		1000050	Manda of and anticoded about the set of the second
	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)		1022687	For "Unibox E BV", "Unibox E plus", and "Unibox E T" with depth 57 mm.
	chrome plated		1022688	
	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)		1022693	For "Unibox RTL", "Unibox T", "Unibox plus", "Unibox TQ" and
	chrome plated		1022694	"Unibox Q plus" with depth 57 mm.
	white (RAL 9016)	(2)	1022691	For "Unibox RTL", "Unibox T" and
	chrome plated		1022692	"Unibox plus" with depth 110 mm.
	Cover plate with thermostat with r	emote o	control	
	chrome plated		1022697	



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



Information: www.telf-online.eu

A Label of EUnited Valves
European Valve Manufacturers Association



chrome plated with collar nut cover

(25) 1011469

ovontron					Valve inserts Gland nut
oventrop	Surface			•	Duo connection piece
	Article	kv at 2K P-dev.	Packing unit	^g Article-No.	Hint
	Valve in	serts			
		V 9, RFV 9, E" Itiblock T-RTL" (manufa	ictured sir	nce 2016)	Also for "Hycocon ETZ" (manufactured since 2016).
		0.67	(100)	1187047#	
		n flow valves on thread M 30 x 1.5	(100)	1026981	Valve insert with double disc. Prevents inadvertent overheating, with frost protection.
		FV 6, E" and ock T-RTL" (manufactur	ed up to 2	2015)	Also for "Hycocon ETZ" (manufactured up to 2015 inclusive).
		0.65	(100)	1187057#	#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 ins	ert RTLH	(100)	1026970	Special valve insert for reversed supply and return pipe for "Unibox RTL".
	Special v with pres "AV6U" "AV9U"	valve insert for reversed setting 0.52 0.57	(100)	nd return pipe 1187077° 1187078	As replacement for: - "Multiblock T/TU/TFU" - "Unibox E T" - "Unibox E plus" - "Unibox E BV" In case of reversed direction of flow for: - "Unibox T" - "Unibox TQ" - "Unibox plus" (connection for room temperature control) - "Unibox Q plus" (connection for room temperature control) - "Unibox Q plus" (connection for room temperature control)
	Extension L = 20 m				
	for therm	nostatic 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 no	ut			
	Set = 5 p	pieces	(10)	1026986	
	Duo con	nection 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	

Room thermostats (heating) 2.28 Room thermostats (heating/cooling) 2.29

Packing Article-No. Hint Article unit Room thermostats (heating) Room thermostat-clock - surface mounting (heating) The electric room thermostat-clock is required for individual room temperature control of heating systems in combination with the with daily setting electrothermal actuators (two point) 230 V "Aktor T 2P". Output signal pulse-width (78) **1152551** modulation. Temperature range: 5 °C up to 30 °C with weekly setting Heating: 230 V (78) **1152552** Use electrothermal actuators (two point) "closed with current off". 24 V 1152554 Central temperature setback is carried out according to a timed programme. Limitation of the control range by using the concealed limiting elements. The electric thermostat is used for individual Room thermostat - surface mounting (heating) Heating two point control room temperature control in combination with the electrothermal actuators (two point) (25) **1152051** "Aktor T 2P". 230 V Temperature range: 5 °C up to 30 °C 24 V (25)1152052 Heating: Use electrothermal actuators (two point) "closed with current off". As for item no. 1152051/52/55/71/72, temperature may be set 230 V (25) 1152055 back by use of an external time switch (item with concealed temperature setting no. 1152551/52 for 230 V, item no. 1152554 for 24 V). Cooling: Use electrothermal actuators (two point) "open with current off". Room thermostat - flush mounting (heating) Heating two point control Limitation of the control range of item no. 1152051/52/71/72 by using the concealed 230 V (128) 1152071 limiting elements. 24 V (128) 1152072 Room thermostat - flush mounting (heating) With LCD display and adjustable timed with display programme. Heating two point control Temperature range: 5 °C up to 35 °C 230 V (40) **1152561** Operating current range (item no. 1152561): 24 V (40) 1152562 100 up to 230 V AC 6 H G A 7 Heating: Use electrothermal actuators (two point) "closed with current off" (terminal "NC") or "open with current off" (terminal "NO").

Article

Packing Article-No.

unit

Hint

Room thermostats (heating/cooling)

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

Cooling 0 - 10 V control

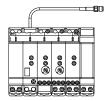


24 V (25) **1152151** The room thermostat is used for individual room temperature control in combination with the electrothermal actuator (0- 10 V) "Aktor T ST L NC", item no. 1012953, page 1.27, or the electromotive actuator "Aktor M ST L", item no. 1012705/06, page 1.28 (may also be used in three- 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":



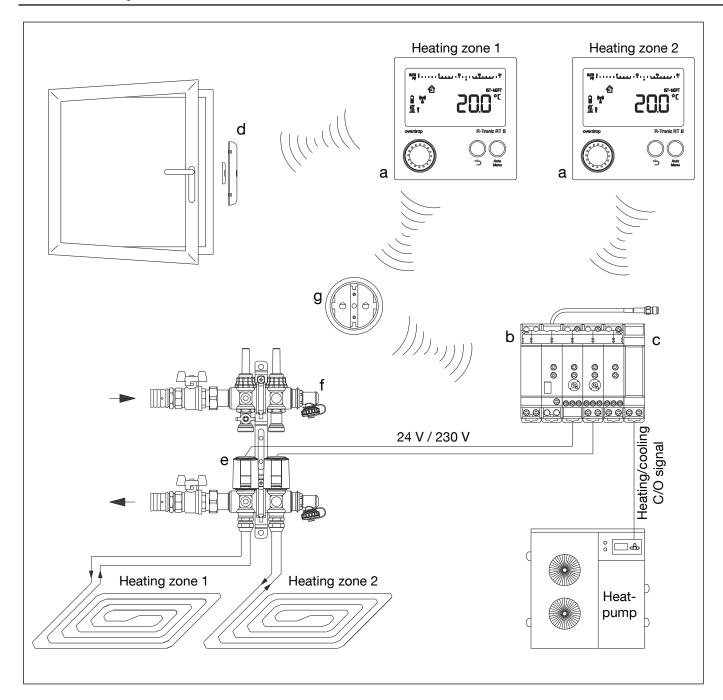
Page





2.f Room thermostats with wireless transmitter, wireless receive	ers
Content	

"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-No. Article 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 CO2 display

Wireless thermostat with bi-directional wireless communication and integrated humidity and CO2 sensor

traffic white (RAL 9016)

Power supply: Flush-mounted power pack (100-240 V ~/ 50-60 Hz) with wall bracket

> 1150682° 1150882#

Power supply: Mains adaptor (100-240 V ~/ 50-60 Hz) with table stand

> 1150684° 1150884#

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 CO₂ sensor on the CO₂ 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"

	Article	Packing Artic	cle-No.	Hint	
Ø ⇔ a	Accessories Flush-mounted power pack	115	50692	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) with wall bracket	110		(100-240 V ~/ 50-60 Hz).	
	Mains adaptor (100-240 V ~/ 50-6 with table stand, white for stationary use, suitable for "i-Tronic TFC" and "R-Tronic RT B/RTF B"	0 Hz) 115	50694		
	"FK-C F" Wireless window contact			A radio signal is transmitted when opening or closing the window. The solar powered energy	
	solar powered, white (similar to RAL 9003)	115	53070	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.	
	"RP-S F" Wireless repeater			The wireless repeater "RP-S F" serves to	
Hoo o	for installation into an earthed plug white (similar to RAL 9003)	g 11 5	50699	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".	
overtrop Since L N CE	"RP-C F" Wireless repeater			The repeater serves to amplify the EnOcean radiograms and is for instance used to increase	
	for EnOcean wireless technology, flush mounting, 230 V/ 50 Hz	(50) 115	53060	the radio range between wireless window contacts and the wireless room modules.	

Article-No. Hint



"Synet CR" Gateway

Article

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

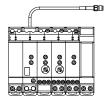
Interfaces:

- -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.

Article-No. Hint Article



"R-Con" Wireless receiver

230 V, without plug, wiring on site

4 channels with logic module	1150770
4 channels without logic module	1150771
8 channels with logic module	1150772
8 channels without logic module	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.

Page



2.g Actuators

Content

"Aktor T" Electrothermal actuators	2.38
Accessories	2.38

Packing Article-No. Article Hint unit



"Aktor T 2P" Electrothermal actuators (two point) connection thread M 30 x 1.5

"H NC", closed with current "off", 230 V 1012415 "L NC", closed with current "off", 24 V 1012416

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.

Accessories



Connecting block (6 control zones) for room thermostats and actuators

(25) 1400980 24 V/ 230 V, heating

Connecting block (10 control zones) for room thermostats and actuators

230 V, heating/cooling, (25) 1400981 pump control 24 V, heating/cooling, (25) 1400982 pump control

Page











2.h "Cofloor"	Systems,	"Copex"	Pipes	and	accessor	ies
Contont						

"Cofloor" Base mat system	2.40
"Cofloor" Base mat system NP-R	2.43
"Cofloor" Tacker system	2.44
"Cofloor" Clamping rail system	2.45
"Cofloor" Dry-build system	2.46
Accessories	2.47
PE-Xc "Copex" Plastic pipes	2.49
PE-RT/AL/PE-RT "Copipe HSC" Composition pipes	2.49
PE-RT "Copert" Plastic pipes	2.50
"Ofix K" Compression fittings	2.51
"Cofit S" Compression fittings	2.51
Double nipples	2.52
"Cofit P" Prace couplings	2.52

	Article	Packin unit	¹⁹ Article-No.	Hint
	"Cofloor" Base mat system for fixing 14 and 16 mm pipes with the possibility of 45° diagonal without auxiliary material	laying		Suitable for concrete and liquid screed complying with standards.
	Laying distances 5, 10, 15, 20, 25,	30 cm		
	Base mat NP-35 1.0 x 1.0 m = 1.0 m ² with thermal and sound insulation made of expanded polystyrene, thermal conductivity group 040, thi covered with polystyrene foil, build according to DIN 4102			Thermal resistivity: $R = 0.85 \text{ (m}^2 \text{ K)/W}.$
	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 m ² with thermal and sound insulation made of expanded polystyrene, thermal conductivity group 040, thi covered with polystyrene foil, build according to DIN 4102			Thermal resistivity: R = 0.75 (m ² K)/W
	Max. load: 5 kN/m ²	(10)	1402410	Only sold in units of 10 base mats per box.
	Base mat NP-11 1.0 x 1.0 = 1.0 m ² with thermal insulation made of expension thermal conductivity group 035, this covered with polystyrene foil, build according to DIN 4102	cknes	s: 11 mm,	Thermal resistivity: R = 0.314 (m ² K)/W.
	Max. load: 50 kN/m ²	(10)	1402310	Only sold in units of 10 base mats per box.
	Base mat NP $1.0 \times 1.0 \text{ m} = 1.0 \text{ m}^2$ without thermal insulation made of			
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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		For fixing heating pipes onto insulation boards > 30 mm, for instance in front of the distributor/ collector.
1/4 1/5	1 bag = 200 pieces	1409082	For further information see "Technical information":

Packing Article-No. Article Hint unit "Cofloor" Base mat system Suitable for concrete and liquid screed for fixing 14, 16 and 17 mm pipes complying with standards. with the possibility of 45° diagonal laying without auxiliary material Laying distances 6, 12, 18, 24, 30 cm Base mat NP-30 Thermal resistivity: 1.44 x 0.84 m = 1.2 m² $R = 0.75 (m^2 K)/W$. 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 Only sold in units of 8 base mats per box. Max. load: 5 kN/m² (8) 1402430* Base mat NP-11 Thermal resistivity: 1.44 x 0.84 = 1.2 m² $R = 0.314 (m^2 K)/W$. 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 Max. load: 45 kN/m² 1402330* Only sold in units of 8 base mats per box. Base mat NP $1.44 \times 0.84 \text{ m} = 1.2 \text{ m}^2$ made of moulded polystyrene foil (14) **1402130*** Only sold in units of 14 base mats per box. Connection element for (10) 1402393* For the connection of butt-jointed base mats. base mat Door and distributor/collector (10) 1402394* For use in doorways and the distributor/ connection element collector area.

2.42 *New in catalogue 2017 2017

. 1 O P	Surface fleating and cooling	J COII	1001	"Offix K" compression fittin
	Article	Packing unit	⁹ Article-No.	Hint
	"Cofloor" Base mat system NP-F Thin layered system Pre-punched base mat without thermal insulation with foil overlap		n sides	The perforation of the base mats allows a simple application and a safe bonding of the levelling compound and the existing ground.
	for fixing 12 mm pipes with the possibility of 45° diagonal without auxiliary material		r dideo,	Tested minimum construction heights: -Knauf levelling compound Alphadur 430 min. 17 mm
	Laying distances 5, 10, 15 cm			-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 m ² without thermal insulation made of moulded polystyrene foil, with adhesive layer on reverse			Only sold in units of 10 base mats per box.
		(10)	1402010	
	Edge insulating strip with adhesive edge and integrated fleece back height: 50 mm, thickness: 5 mm			Only sold in units of 5 rolls per bag.
	length per roll 20 m	(5)	1401990	
	PE-RT "Copert" Plastic pipe with oxygen barrier			Application: Surface heating and cooling. Pipes according to
	rolls			DIN 16833 / DIN 16834 / DIN 4721. Oxygen tight according to DIN 4726.
	Dimension 12 x 2.0 mm			Max. operating pressure p _s : 6 bar at 70 °C
	length per roll 200 m	(200)	1401952	
	Duo connection piece			
	1 x G ¾ collar nut 2 x G ¾ male the	read	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

Hint

Thermal

resistivity

"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

Packing Article-No.

unit

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

Suitable for concrete and liquid screed complying with standards.

Thermal

conductivity load

Max.



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

		group
Thickness 20-2 mm	1402515	$R = 0.50 (m^2 K)/W 040 5 kN/m^2$
Thickness 35-3 mm	1402500	$R = 0.78 (m^2K)/W 045 4 kN/m^2$
Thickness 30-3 mm	1402505	$R = 0.67 (m^2K)/W 045 4 kN/m^2$
Thickness 25-2 mm	1402510	$R = 0.56 (m^2 K)/W 045 4 kN/m^2$
Thickness 30-2 mm	1402507	$R = 0.75 (m^2 K)/W 040 5 kN/m^2$
Thickness 20-2 mm	1402520	$R = 0.44 \text{ (m}^2\text{K)/W} 045 4 \text{ kN/m}^2$



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

Thickness 35-3 mm	(5)	1402600
Thickness 30-3 mm	(5)	1402605
Thickness 30-2 mm	(5)	1402607
Thickness 25-2 mm	(5)	1402610
Thickness 20-2 mm	(5)	1402620

Thermal	Thermal	Max.
resistivity	conductivity	group load
$R = 0.78 (m^2K)/W$	/ 045	4 kN/m ²
$R = 0.67 (m^2K)/W$	/ 045	4 kN/m ²
$R = 0.75 (m^2K)/W$	/ 040	5 kN/m ²
$R = 0.56 (m^2K)/W$	/ 045	4 kN/m ²
$R = 0.44 (m^2 K)/W$	/ 045	4 kN/m ²

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

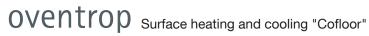
1 magazine = 30 pieces	(10)	1402591
10 magazines = 300 pieces	(20)	1402592

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	g Article-No.	Hint
	Tacker machine		1402596*	For fixing the heating pipes onto the base mat roll or folded board by use of tacker hooks.
	Tacker hooks heat-welded, plastic, for 14, 16, 17 and 20 mm pipes 10 magazines = 300 pieces	(20)	1402594*	For fixing the heating pipes onto the base mat roll or folded board by use of the tacker machine. Only sold in packing units.
	Tape gun for tapes with a width of 50 mm		1402598	For bonding the linings of the base mat rolls or insulation boards.
0	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 clamping distance 5 cm, length 1 r		propylene,	For fixing the heating pipes onto the insulation.
*STATESTICAL STATESTICAL STATE	for 14 mm pipe	(100)	1402580	
	for 16 mm pipe	(100)	1402581	

2017 2.45 *New in catalogue 2017

Hint

Article

	ai iii	•	
	"Cofloor" Dry-build system for fixing 14 mm "Copipe" composition Laying distances 12.5, 25 cm	n pipes	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 thermal conductivity group 035, building material class B1 according to Max. load: 60 kN/m²		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 (4)	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 (2	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 accord thermal conductivity group 035, max. I building material class B1 according to	oad 60 kN/m²,	Only sold in units of 19 panels wrapped up in a plastic foil.
	Membrane made of polyethylene 0.2 mm	,	As separation layer between dry-build system and concrete or liquid screed.
O	Dimensions of roll 25 m x 4 m	1402895	
	Hot cutting machine	1402891	Manual tool for cutting individual pipe ducts into the infill panel. For further information see "Technical information":

Packing Article-No.

2

carrace ricating and cooling	0011	1001	Accessories
Article F	Packing	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 Length: 300 mm, slotted, for 14, 16 and 17 mm pipes	(20)	1501184	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.
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
for 14 - 16 mm pipes Set = 10 pieces	(50)	1409085	in screed passages.
for 20 mm pipe Set = 10 pieces	(10)	1409086	
for 26 mm pipe Set = 10 pieces	(10)	1409087	
Marker point for measuring screed h	numidi	ty	To mark the points of measurement of humidity of the screed.



(10) **1409090** Set = 5 pieces



Calculation software

for the design of surface heating systems 1409999

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

 . 3		
Article	Packing Article-No. unit	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 :
length per roll 120 m length per roll 240 m length per roll 600 m	(120) 1400051 (240) 1400052 (600) 1400054	6 bar at 90 °C 10 bar at 60 °C
Dimension 16 x 2 mm		Max. operating pressure p _s : 6 bar at 90 °C
length per roll 120 m length per roll 240 m length per roll 600 m	(120) 1400151 (240) 1400152 (600) 1400154	10 bar at 60 °C
Dimension 17 x 2 mm		Max. operating pressure p _s : 6 bar at 90 °C
length per roll 120 m length per roll 240 m length per roll 600 m	(120) 1400251 (240) 1400252 (600) 1400254	10 bar at 60 °C
Dimension 20 x 2 mm		Max. operating pressure p _{s:} 6 bar at 90 °C
length per roll 240 m length per roll 600 m	(240) 1400352 (600) 1400354	8 bar at 70 °C
Dimension 26 x 3 mm		Max. operating pressure p _s : 6 bar at 90 °C
length per roll 50 m length per roll 200 m length per roll 300 m	(50) 1400560 (200) 1400562 (300) 1400563	10 bar at 60 °C
PE-RT/AL/PE-RT "Copipe HSC	C Composition pipes	Application: Central heating systems with circulation pump, surface heating and cooling systems as well as
rolls		sanitary installations.
Dimension 14 x 2 mm length per roll 50 m	(50) 1541054	DVGW tested (dimensions 14 x 2.0 mm and 17 x 2.0 mm). DVGW approved (dimensions 16 x 2.0 mm
length per roll 100 m length per roll 200 m	(100) 1540154 (200) 1540254	and 20 x 2.5 mm). DVGW regno.: DW-8501 AT2407
Dimension 16 x 2 mm		Max. operating pressure p _s : 6 bar at 90 °C
length per roll 50 m length per roll 100 m length per roll 200 m	(50) 1541055 (100) 1540155 (200) 1540255	10 bar at 70 °C Oxygen tight three-layered composition pipe inner layer made of PE-RT
length per roll 500 m Dimension 17 x 2 mm	(500) 1540555	aluminium pipe welded end to endouter coating made of PE-RT bonded by
length per roll 200 m length per roll 500 m	(200) 1540257 (500) 1540557	adhesive layers
Dimension 20 x 2.5 mm		
length per roll 50 m length per roll 100 m length per roll 200 m	(50) 1541060 (100) 1540160 (200) 1540260	

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

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.

(240) **1402352**



Coil unwinder for pipes

mobile

Dimension 20 x 2 mm

length per roll 240 m

fixed **1402096**



Transport chart

1402099

1402098

For rolls up to 600 m.

Completely dismountable and collapsible.



Article		Packin unit	^g 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.
DIN 16892/1689	3, PB according to	DIN 1	N 4726, PE-X according to 6968, PP according to DIN o metal sealing plus O-ring	The permissible operating pressures and operating temperatures depend on the application classes of the respective standards
14 x 2 mm 16 x 2 mm 17 x 2 mm 20 x 2 mm		(10) (10)	1027755 1027757 1027759 1027763	of the plastic pipework systems (e.g. PE-X, DIN EN ISO 15875).
DIN 16892/1689	3, PB according to	DIN 1	N 4726, PE-X according to 6968, PP according to DIN etal sealing plus O-ring	
14 x 2 mm 16 x 2 mm		(10)	1027775 1027777	
17 x 2 mm 20 x 2 mm		` '	1027779 1027783	
for G ¾ male the for "Copipe" co preparation is u metal to metal so outlet made of the	mposition pipes ar sed, for plastic pip ealing plus O-ring	nd, prov es,		For the connection of the pipes to the distributor/collector and for couplings. (Interior of plastic pipes must be deburred.)
Collar nut nick	•			
14 x 2.0 mm	x G ¾ c/nut	` '	1507954	
16 x 2.0 mm 17 x 2.0 mm	x G ¾ c/nut x G ¾ c/nut	` ,	1507955 1507959	
Collar nut unp	lated			
14 x 2.0 mm	x G ¾ c/nut	(10)	1507974	

14	x 2.0 mm	x G ¾ c/nut	(10)	1507974
16	x 2.0 mm	x G ¾ c/nut	(10)	1507975

Packing unit Article-No.	Hint
	Packing unit Article-No.

"Cofit S" Compression fittings

for G % 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







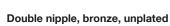
14 x 2.0 mm x G ¾ collar nut	(10)	1507934
16 x 2.0 mm x G ¾ collar nut	(10)	1507935
17 x 2.0 mm x G ¾ collar nut	(10)	1507937
18 x 2.0 mm x G ¾ collar nut	(10)	1507938
20 x 2.0 mm x G ¾ collar nut	(10)	1507939
20 v 2 5 mm v G 3/4 collar nut	(10)	1507940

Double nipples



Double nipple, brass, nickel plated

G ¾ male x G ¾ male (10) 1028263



G % male thread x G % 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.)

Port G ¾ with tapered sealing according to

Further sizes see page 11.12.

DIN EN 16313 (cone "Euro").

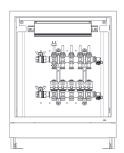


Press coupling

			Suitable press bits:
x 14 x 2 mm	(10)	1512542	Item no. 1519489 (Ø 14 x 2 mm)
x 16 x 2 mm	(10)	1512543	Item no. 1519491 (Ø 16 x 2 mm)
x 17 x 2 mm	(10)	1512544	Item no. 1519488 (Ø 17 x 2 mm)
x 20 x 2.5 mm	(10)	1512545	Item no. 1519492 (Ø 20 x 2.5 mm)
x 20 x 2 mm	(10)	1512541	Item no. 1519481 (Ø 20 x 2 mm)
	x 16 x 2 mm x 17 x 2 mm x 20 x 2.5 mm	x 16 x 2 mm (10) x 17 x 2 mm (10) x 20 x 2.5 mm (10)	x 16 x 2 mm (10) 1512543 x 17 x 2 mm (10) 1512544 x 20 x 2.5 mm (10) 1512545

2

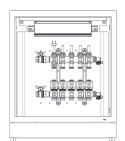




2.i "Multidis Fix" Distributor/collector systems

"Multidis Fix B" Pre-assembled stainless steel distributor/collector fixed in a cabinet

2.54



Article Article-No.

"Multidis Fix B" Pre-assembled stainless steel distributor/ collector fixed in a cabinet

for surface heating and cooling systems (basic configuration)

Pre-assembled and ready for connection with stainless steel distributor/connector "Multidis SF", ball valves, actuators, connecting block for actuators, fixed in a flush-mounted cabinet

for 2 circuits	1406152*
for 3 circuits	1406153*
for 4 circuits	1406154*
for 5 circuits	1406155*
for 6 circuits	1406156*
for 7 circuits	1406157*
for 8 circuits	1406158*
for 9 circuits	1406159*
for 10 circuits	1406160*
for 11 circuits	1406161*
for 12 circuits	1406162*

Application:

Hint

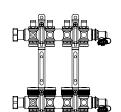
Stainless steel distributor/collector for surface heating and cooling systems. Max. operating pressure p_s: 6 bar (PN 6) Max. operating temperature t_s: 80 °C

Installation set consisting of:

- Flush-mounted cabinet
- Stainless steel distributor/collector "Multidis SF" with integrated flow measuring and regulating devices 0 - 5 l/min in the flow distributor
- Ball valves DN 20
- "Aktor T 2P" electrothermal actuators, closed with current "off", 230 V
- Connecting block

2.54 2017 *New in catalogue 2017

2



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

Content

"Multidis SFQ" Stainless steel distributor/collector

2.56

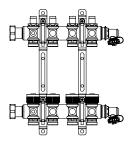
Page

2017 2.55

Article Article-No.

"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



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

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.

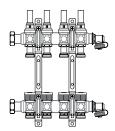
Heating circuit connections G ¾ male thread for Oventrop compression fittings. Flow distributor with integrated isolating facilities. Return collector with integrated valve inserts. Brackets (loosely added) soundabsorbing according to DIN 4109.

Cabinets and dimension chart: page 2.62

2



2.65



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

"Hycocon DTZ" Differential pressure regulator

Content



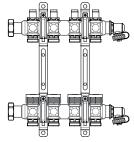
"Multidis SF" Stainless steel distributor/collector	2.58
"Multidis SFB" Stainless steel distributor/collector	2.59
"Multidis SFI" Brass distributor/collector for industrial surface heating and cooling systems	2.59
Accessories	2.60
"Optiflex" Ball valve	2.60
"Cofit S" Compression fittings	2.60
Valve insert for stainless steel distributors/collectors "Multidis SF"	2.61
Ball valves	2.61
Flush-mounted cabinets	2.62
Surface-mounted cabinets	2.62
Cylinder lock	2.63
Heat meter connection sets	2.64
Differential pressure relief device	2.65
Angle pattern connection set	2.65
"Hycocon VTZ" Double regulating and commissioning valve	2.65

2017 2.57

Article Article-No.

"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



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

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

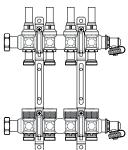
Description: Distributor/collector pre-assembled. With fill and drain valves. Heating circuit connections G ¾ male thread for Oventrop compression

Flow distributor with integrated regulating inserts. Return collector with integrated valve inserts. Brackets (loosely added) soundabsorbing according to DIN 4109.

Cabinets and dimension chart: page 2.62

"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 ps: 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 2.62

"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

Hint

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



20 x 3.0 mm x G 1 collar nut (10) 1507969 (10) 1507979 26 x 3.0 mm x G 1 collar nut

Packing Article-No. Article Hint unit

Valve insert for stainless steel distributors/collectors "Multidis SF"



(25) 1404091 Brass Stainless steel 1404092



Coupling

nickel plated

G ¾ male x G 1 male

(50) 1407206

Ball valves



flat sealing

1406383 DN 20 G % F x G 1 M(10)1406384 DN 25 G1FxG1M(10)



flat sealing, with thermometer (0-80°C) with red T-handle

DN 20 $G \% F \times G 1 M$ 1406483 DN 25 $G\,1\,F\,x\,G\,1\,M$ 1406484

flat sealing, with thermometer (0-80°C) with blue T-handle

DN 20 $G\,\%\,F\,x\,G\,1\,M$ 1406583 G 1 F x G 1 M DN 25 1406584



flat sealing,

with sensor connection M 10 x 1.0

DN 25 G1FxG1M (10) 1406708

for "Multidis SF/SFB" stainless steel distributor/collector



with cone "Euro"

G ¾ male x G ¾ collar nut (50) 1406504

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.

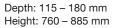
For the connection of two stainless steel distributors/collectors "Multidis SF" (do not exceed a maximum of 12 heating circuits in total).

Article Article-No. Hint

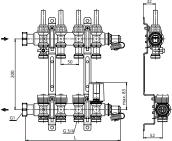
Flush-mounted cabinets

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



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 5	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 3 3
10	568 mm	2	648 mm	3
11	618 mm	3	698 mm	
12	668 mm	3	748 mm	3

°°No. of cabinets

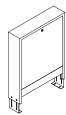
Surface-mounted cabinets

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-No. Hint Article

"Regubox" Exclusive cabinet

with white, frameless, opaque and lockable glass door

Frame surface made of brushed stainless steel, without rear wall

Surface-mounted model 1341098 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)

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.



1341298* Surface-mounted model for stainless steel distributors/collectors "Multidis SF" with a maximum of 9 heating circuit connections (angle pattern connection set, item no. 1404780, taken into account)

Mounting set for installation during construction for "Regubox" steel sheet, galvanised

Floor-standing installation 1341299* adjustable height

Dimensions (W x H x D): 900 mm x 600 mm 170 mm The mounting set for installation during construction for floor-standing installation (item no. 1341099) is to be ordered separately.

Only for "Regubox", item no. 1341298.



Cylinder lock

with key

for surface-mounted cabinets 1401190 (1401171-74)1401191 for flush-mounted cabinets (1401151-54)

Only suitable for surface-mounted cabinets manufactured since November 2011.

2.63 2017 *New in catalogue 2017

for surface heating and cooling systems Heat meter connection sets

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

Article-No.

1404680

Heat meter connection sets are suitable for left and right hand side connection to the distributor/collector.



Article

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

Angle pattern:

with ball valves DN 20 1404578 with ball valves DN 25 1404580

Return

Hint

- "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

Straight pattern:

with ball valves DN 20 1404579 with ball valves DN 25 1404581

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

Set no. 2

Angle pattern:

with ball valves DN 25

with differential pressure regulator "Hycocon DTZ"

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

Straight pattern:

with ball valves DN 25 1404681

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

Angle pattern:

Set no. 3

DN 25, 150 - 1050 l/h 1404880 DN 25, 180 - 1300 l/h 1404882*

with pressure independent control valve "Cocon QTZ"

- "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

Straight pattern:

1404881 DN 25, 150 - 1050 l/h DN 25, 180 - 1300 l/h 1404883*

Packing Article-No. Article kvs unit

1694890*

1694892*

Set no. 4 with pressure independent control valve "Cocon QTZ" and connection fitting G 1 male x G 1 collar nut

Angle pattern

DN 25, 150 - 1050 l/h DN 25, 180 - 1300 l/h Set no. 4 consists of:

Supply

Hint

-Ball valve with temperature sensor connection M 10 x 1.0 for sensor Ø 5.0 / 5.2 mm directly immersing

-"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

Note:

Not suitable for Oventrop distributors/ collectors.

Straight pattern:

DN 25, 150 - 1050 l/h 1694891* DN 25, 180 - 1300 l/h 1694893*



Differential pressure relief device

Angle pattern connection set

for "Multidis SF/SFB" stainless steel distributors/collectors

1404790 G ¾ male thread

Differential pressure relief device for the right hand side connection to the distributor/ collector.

To avoid flow noises.

Control range: 50-400 mbar

Angle pattern connection set for a bottom connection to the distributor/collector when using surface-mounted cabinets.



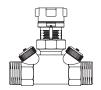
for "Multidis SF/SFB" stainless steel distributors/collectors for surface heating and cooling systems as well as for "Multidis SH" stainless steel distributors/collectors for radiator connection

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



both ports male thread, flat sealing

DN 20 2.70 (10) 1061856 "eco" measuring technique:

Information: page 3.98.

Operating temperature: -10 °C up to +120 °C

General information:

Body and bonnet made of brass resistant to dezincification.

Male thread G 1.

"Hycocon DTZ" Differential pressure regulator nominal value: 50 to 300 mbar, infinitely adjustable "eco" measuring technique

with integrated pressure test point and drain valve

both ports male thread without collar nut

DN 20 2.70 1062156

"eco" measuring technique:

Information: page 3.98.

Operating temperature: -10 °C up to +120 °C

General information:

Body and bonnet made of brass resistant to dezincification.

Male thread G 1.



2017

System components for "Regufloor HC"

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

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

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

"Regufloor HX"

Page

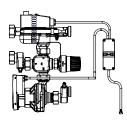
2.72

2.73

2.73

2.73

2.74





2.I "Regufloor" Control units	
Content	
'Regufloor H"	2.68
'Regufloor HW"	2.68
'Regufloor HN"	2.68
System components	2.69
'Regtronic EH" Heating circuit controller	2.70
'Regtronic RH" Heating circuit controller	2.70
'Regtronic EM" Extension module	2.70
Accessories	2.71
Begufloor HC"	2 72

2017 2.67

Article

Packing Article-No. unit

Hint

"Regufloor H" Control unit DN 25 Heating

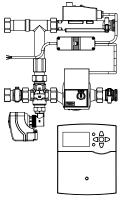
for connection to the stainless steel distributor/collector

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

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

1151000

1151300



"Regufloor HW" Control unit DN 25 Heating

as above, but with weather guided control for connection to the stainless steel distributor/collector

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)

with Wilo pump E15/1-5 and heating circuit controller "Regtronic EH" (export model, only for sales outisde the European Union)

1151800

1151500

1151600

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

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.

"Regufloor HN" Control unit DN 25 Heating

for connection to the stainless steel distributor/collector

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

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

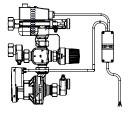
Control range temperature controller: ("Regufloor H" only): 20-50 °C Control range electric pipe contact safety switch: 20-90 °C

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.

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.



	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		Control range 20–50 °C. Only supplied as replacement.
	with contact sensor	1151082	
T T	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	1151089	Only for "Regufloor HN", item no. 1151600.
6	Wilo-Yonos PARA with axial pump housing (Energy Efficiency Index EEI ≤ 0.23 according to EC Regulation 641/2009)		Pump without 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	

2017 2.69

Article

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

Hint



"Regtronic RH" Heating circuit controller

with 1 outdoor sensor 1152093

and 3 additional sensors (PT 1000)

1152090

Article-No.

2 additional sensors (PT 1000)

with 1 outdoor sensor,

and remote control including room temperature sensor (PT 1000)

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

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

Outputs: 4 solid-state relays (speed controlled), 1 standard relay (volt free), 2 PWM outputs for the speed controlled activation of highefficiency pumps. Both PWM outputs can be switched to 0-10 V.

For the connection of high-performance pumps (> 1A) see load relay, page 6.74.



"Regtronic EM" Extension module

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

"Regtronic EM" for the extension of the heating circuit controller "Regtronic RH" by 6 sensor inputs and 5 relay outputs.

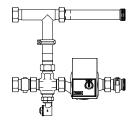
This allows the activation of further variable and constant temperature heating circuits. Up to five extension modules can be connected to the heating circuit controller "Regtronic RH".

1 sensor attached to the pipe PT 1000 is included.

	Article	Article-No.	Hint
	Accessories		
couloq	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".

2017 2.71

Article Article-No. Hint



"Regufloor HC" Control unit DN 25 Heating/Cooling

for connection to the stainless steel distributor/collector

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

1152000

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

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.

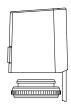
Suitable for the connection of 2 - 12 heating circuits to two-, three- and four-pipe systems Heating and Cooling.

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

"H NC", closed with current "off", 230 V 1012415 "L NC", closed with current "off", 24 V 1012416

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.



Electric pipe contact safety switch 1151087 Including cabling for Wilo pump E15/1-5.



"Sensor GA FD" Dew point control 24 V

1141951 with alternating contact

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".

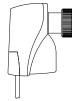
Connection to the cooling water supply. Connecting cable 1 m.

Combination possibilities of valves and actuators: Page 3.08

OVENTROP Surface heating and cooling "Cofloor"

Packing Article-No. Article kvs Hint unit

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

"ST L", 24 V, modulating proportional 1012706 actuator, 0-10 V, with position feedback, automatic anti-blocking function and recognition of neutral point, mutiple characterstic lines adjustable

"3P L", 24 V, three point actuator, without anti-blocking function

"3P H", 230 V, three point actuator, without anti-blocking function, mode of operation not adjustable

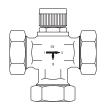
1012705

1012709

1012708

"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

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.

Application:

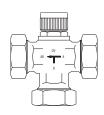
Max. operating pressure p_s: 16 bar (PN 16) Operating temperature t_s: 0 °C up to 120 °C

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

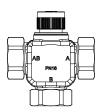


1131706°	4.50	DN 20
1131708°	6.50	DN 25
1131712°	9.50	DN 40

Male thread:

G 1 G 1 1/4 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

Combination possibilities of valves and actuators: Page 3.08

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.

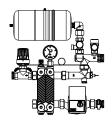
For use as mixing valve, the three-way valve has two inlet ports (A and B) and one outlet port (AB). Depending on the position of the valve disc, the cold and hot water is mixed.

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

Article Article-No. Hint

1151065

1151060



"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 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 (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

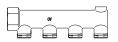
Description:

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.m Single components for distributors/collectors

Individual components for distributor systems 2.76 Accessories 2.77

	Article	Packing Article-No. unit		Hint
	Individual components for distrib	utor sy	ystems	Distributor systems for central heating systems.
Ā	Brass automatic airvent with automatic shut off			If not stated otherwise, all products are made of brass.
	G 3/8	(10)	1088303	
	Vent plug G 3/8			
	self sealing, set = 10 pieces		1400392	
PRI	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 "Comb 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	
Of .	Brass terminal distributor/collector G ¾ male thread for circuit connect G ¾ female thread for airvent connect	tion	nale thread	
	4 outlets	(2)	1400554	
OV OV	Brass distributor/collector G 1 fema G ¾ male thread for circuit connect		ad x G 1 male thread	
	2 outlets	(2)	1400652	
OI	3 outlets	(2)	1400653	
ov ov	4 outlets	(2)	1400654	
OV	Terminal cap G 1 female thread G 3/4 female thread for airvent conne G 1/2 female thread for fill and drain	ection	1400691	
	Ball valve DN 25 with coupling flat sealing	(10)	1406394	
	Bracket steel, galvanised		1401061	Bracket with mounting clip. For the installation of the distributor/collector into the cabinet or onto the wall. Sound absorbing as per DIN 4109.

OVENTROP Surface heating and cooling "Cofloor"

	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
REGEREPORT OF THE PROPERTY OF	Thermostat with remote control white	"Uni Fl	- 1"	heating systems. Max. heating water temperature: 120 °C
E COLUMN TO THE STATE OF THE ST	capillary 2 m long capillary 5 m long capillary 10 m long		1012295 1012296 1012297	with '0' setting
	white, with additional remote sensor			
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	capillary 2 m long capillary 5 m long		1012395 1012396	with '0' setting For further information see "Technical information":
	Manual heads white			The manual head allows the subsequent conversion to actuators or thermostats without
WIIIIIII	connection thread M 30 x 1.5	(10)	1012565	the necessity to drain the system.
	Contact thermometer			
oventrop	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



2.n Regulating sets for surface heating systems





Regulating sets for surface heating systems

2.80

Article

Article-No.

Hint

Regulating sets for surface heating systems with bypass valve



Set no. 1

for surfaces up to 85 m²

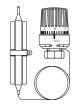
1144251

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



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)

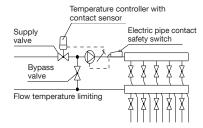


Electric pipe contact safety switch with concealed temperature setting control range 20–90 °C item no. 1143000

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.





For further information see "Technical information":



Article Article-No. Hint

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

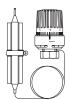


Set no. 3

for surfaces up to 200 m²

1144253





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)



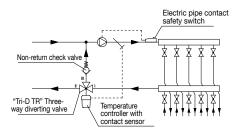
Electric pipe contact safety switch with concealed temperature setting control range 20-90 °C item no. 1143000

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

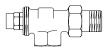


The regulating set with "Tri-D TR" three-way diverting valve is required for the control of the flow temperature of a surface heating system, for instance in combined radiator/surface heating systems. The required flow temperature is set at the temperature controller. The electric pipe contact safety 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:



Page





2.0	Return	temperature	limiter	set
^				

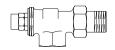
Content	
Return temperature limiter set	2.84
Return temperature limiters	2.84
Thermostat "Uni RTLH"	2.84
Thermostat "Uni RTL"	2.84
Valve inserts	2.84
Gland nut	2.84

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Surface h	neating and coo	ling "Cofloor"	Return temperature limiters Thermostat "Uni RTLH' Thermostat "Uni RTLL'
Article	kv at 2K P-dev.	Packing unit Article-No.	Hint
Reversed a	ngle connection	et	Application: Central heating systems, combined radiator/surface heating. Max. operating pressure p _s : 10 bar (PN 10)
		or the return pipe and	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).
			For further information see "Technical information":
		eturn pipe and	
DN 15	0.30	1028464	
	Return term Reversed at consisting of the consis	Article at 2K P-dev. Return temperature limiter set. Reversed angle connection consisting of: Reversed angle pattern valve fithermostat "Uni RTLH" O.30 Straight pattern connection consisting of: Straight pattern valve for the rethermostat "Uni RTLH"	Article at 2K P-dev. Return temperature limiter set Reversed angle connection consisting of: Reversed angle pattern valve for the return pipe and thermostat "Uni RTLH" 0.30 1028364 Straight pattern connection consisting of: Straight pattern valve for the return pipe and thermostat "Uni RTLH"

Return temperature limiters

Valves for thermostats "Uni RTLH" connection thread M 30 x 1.5 brass, nickel plated



Reversed angle pattern valve for the return pipe

DN 10 0.30 (25) 1024363 1024364 **DN 15** 0.30 (25)



Straight pattern valve for the return pipe

(25) 1024463 DN 10 0.30 DN 15 0.30 (25)1024464



Thermostat "Uni RTLH"

connection thread M 30 x 1.5

white 1027165 chrome plated (25) 1027172



Thermostat "Uni RTL"

connection thread M 30 x 1.5

(25) 1027100 white



Valve inserts

for return flow valves (100) 1026981 connection thread M 30 x 1.5



Gland nut

for all RTLH valves

Set = 5 pieces

(10) 1026986

Application:

Central heating systems, combined radiator/surface heating systems. Max. oprating pressure p_s: 10 bar (PN 10)

Valve insert with double disc prevents inadvertent overheating, with frost protection.

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).

With '0' setting, may be limited or locked. RTL valves with connection thread M 30 x 1.0 are no longer produced.

Valve insert with double disc. Prevents inadvertent overheating, with frost protection.

Page

2



2.p Components for concrete core activation

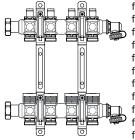
"Multidis SF" Stainless steel distributor/collector	2.86
PE-Xc "Copex" Plastic pipes	2.86
"Cofit S" Compression fittings	2.86
"Multidis SFI" Brass distributor/collector for industrial surface heating/concrete core activation	2.87
PE-Xc "Copex" Plastic pipes	2.87
"Cofit S" Compression fittings	2.87
"Optiflex" Ball valve	2.88

2017 2.85

Packing Article-No. Hint Article

"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



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

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 $\,^{3}\!\!\!/$ 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.

Further distributors/collectors for surface heating systems: page 2.58



PE-Xc "Copex" Plastic pipes

with oxygen barrier

rolls

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

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 2.49 Max. operating pressure ps:

6 bar at 90 °C 10 bar at 60 °C

"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

17 x 2.0 mm x G 3/4 collar nut

(10) 1507937

For the connection of the "Copex" PE-Xc plastic pipes to the distributor/collector and for couplings.



For closing the distributor/collector.

oventrop	Surface heating and cooling "Cofloor"		industrial surface heating/concrete core activatio PE-Xc "Copex" Plastic pipe "Cofit S" Compression fitting	
	Article	Packing 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:	
	for 2 circuits for 3 circuits for 4 circuits for 5 circuits for 6 circuits	1414452 1414453 1414454 1414455 1414456	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.	
	PE-Xc "Copex" Plastic pipes with oxygen barrier	3	Application: Surface heating and cooling. Pipes according to DIN 16892/DIN 16893/ DIN EN ISO 15875/EN 1264-4 (except for dimension 26).	
			Oxygen tight according to DIN 4726 (all dimensions).	
	Dimension 20 x 2 mm length per roll 240 m length per roll 600 m	(240) 1400352 (600) 1400354	Max. operating pressure p _{s:} 6 bar at 90 °C 8 bar at 70 °C	
	Dimension 26 x 3 mm		Max. operating pressure p _s :	
	length per roll 50 m length per roll 200 m length per roll 300 m	(50) 1400560 (200) 1400562 (300) 1400563	6 bar at 90 °C 10 bar at 60 °C	
	Dimension 32 x 3 mm		Max. operating pressure p _s : 6 bar at 90 °C	
	length per roll 50 m	(50) 1400660	8 bar at 60 °C 10 bar at 20 °C	
	"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 26 x 3.0 mm x G 1 collar nut	(10) 1507969 (10) 1507979		
	Console		Consoles with 2 pipe clamps each including sound insulation supports and quick acting	
	for "Multidis SFI" brass distributor/collector 2-fold, steel galvanised, adjustable height and depth	1414490	lock. Wall attachment included.	

2017 2.87

1414493

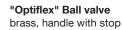
Cap G 2 female thread

for "Multidis SFI" brass distributor/collector, 2-fold, brass

For filling and venting.

OVENTROP Surface heating and cooling "Cofloor"

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.



self sealing, with coutnernut, with hose connection (soft seal) and cap

DN 15 (50) 1033314

