

INDOOR CLIMATE SOLUTIONS
PRODUCT CATALOG 2011

Uponor Underfloor Heating Home Comfort System

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Abbreviations

Shortcut	unit	Description
A/F	[mm]	across flats
A	[m²]	square measure
c/c	[mm]	centre - centre distance
c/c1	[mm]	centre - centre distance 1
colour	[-]	colour
Con.	[l/m²]	consumption
d	[mm]	diameter
d1	[mm]	diameter 1
d2	[mm]	diameter 2
DT	[d]	drying time in days
EP/a	[W]	effective power per actuator
FT	["]	female thread
FT m	[-]	female thread (metric)
G	[kN/m²]	load bearing capacity
h	[mm]	height
h1	[mm]	height 1
h2	[mm]	height 2
I	[mm]	length
I	[m]	length in meter
11	[mm]	length 1
MT	["]	male thread
MT	[-]	male thread (metric)
outlets	[-]	Number of outlets
OV	[V]	operating voltage
р	[bar]	pressure
Р	[W]	effective power
Q	[kW]	nominal power
r	[mm]	radius
R-value	[m²K/W]	thermal resistance
S	[mm]	strength / wall thickness
Туре	[-]	Туре
V	[l/m]	volume
W	[mm]	width
W	[m]	width in meter
w1	[mm]	width 1
Z	[mm]	z-value
ΔLw	[dB]	impact noise improvement

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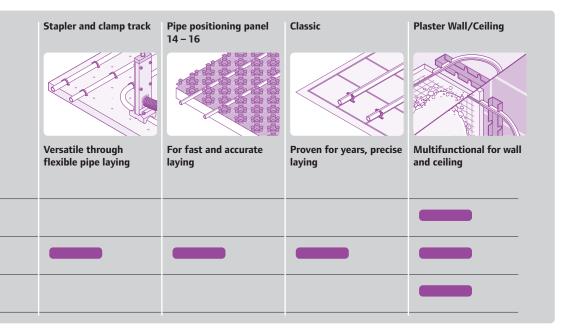
Uponor tools

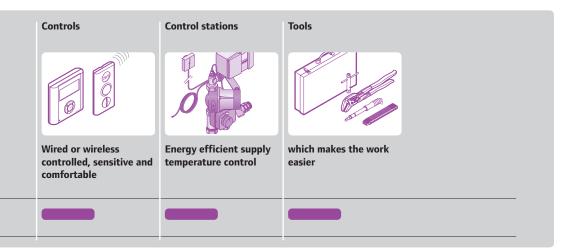
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Radiant heating and cooling systems - for all areas of application the right system

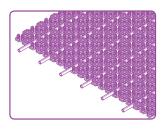
Radiant heating and cooling systems	Minitec	Siccus	Tecto	Self attaching system
	Minimum height, maximum comfort	The lightweight for renovation	For fast and accurate laying	Micro interlocking for maximum holding force
Floor – Renovation				
Floor – new build, SFH, MFH, public buildings				
Wall/Ceiling - new build and renovation				

Accessory systems	Fittings	UFH accessories	Manifolds	Cabinets
	For each pipe a save connection	To have the right accessories is what matters	Balanced distribution of heat into the last corner	For surface and flush installation





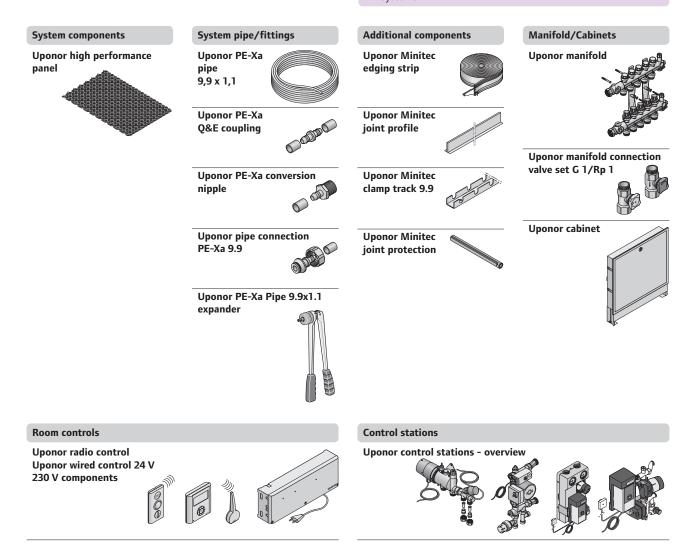
Uponor renovationsystem Minitec



Fast installation, short heat-up time: the Uponor renovationsystem Minitec offers you a range of advantages. The Uponor minitec foil element for the laying of the PE-Xa pipes measures 9.9 x 1.1 mm and can be installed on any existing

screed, timber of tiled floor. Thanks to this small element height of around one centimetre, the system is particularly suitable for integration into existing buildings.

- Ideal for retrofitting in existing buildings during renovations
- Suitable for direct installation on screed or tiled floors
- Elements height only 12 milimeter
- Low-cost installation of foil elements and pipe
- Foil elements can be walked over immediately after installation
- Short heat-up times
- Low heating water temperatures
- Can be connected directly to existing radiant heating systems



		-		l h ►
		b		
Item no.	h [mm]	l [mm]	w [mm]	A [m ²]
1005261	12	1120	720	0.77



V [l/m] Item no. s [mm] |[m] d [mm] 1033024 9.9 1.1 120 0.047 1033026 0.047 99 1.1 240 1033025 9.9 1.1 480 0.047

CODDO

d [mm]

9.9

I [mm]

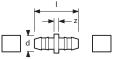
34

z [mm]

4

Item no.

1005264



Description	unit
Uponor PE-Xa Q&E coupling 9.9-9.9 with two PEX rings	10 pcs

Uponor PE-X ring for PE-Xa pipes

For Uponor Minitec PE-Xa pipe 9.9 x 1.1 mm; for secure fixture to Minitec fittings

Material: High-pressure cross-linked polyethylene (PE-Xa)

Item no.	d [mm]	Description	unit
1005263	9.9	Uponor PE-X ring for PE-Xa pipes 9.9 x 1.1	10 pcs

Uponor Minitec high-performance panel

Designed as sturdy pipe fixing panel of minimum height, with integrated pipe laying channels for correct pipe laying distances; designed for Uponor Minitec PE-Xa pipes 9.9 x 1.1 mm; allowing for straight and diagonal pipe laying; with undercut, deep pipe fixing studs; overlap on both sides with triangular studs; perforated panel for installation between levelling compound and substructure; with self-adhesive back for proper fixture to screed and tiled floors Material: Polystyrene DIN 4102 building material class: B2

Pipe spacing: Vz 5, 10, 15 Colour: traffic black (near RAL 9017)

Description	unit
Uponor Minitec high performance panel with,self-adhesive layer for pipes 9.9mm	15.4 m²

Uponor PE-Xa pipes

PE-Xa pipe with an oxygen diffusion barrier manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with e.g. prENISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene" with an oxygen diffusion barrier of EVOH (ethyl vinyl alcohol). Uponor pipes fulfil the requirements for oxygen diffusion resistance as per DIN 4726. Malfunction temperature 95°C. Design pressure 8,8 bar (at 70°C).

Description	unit
Uponor eval PE-Xa pipe 9.9x1.1 120 m coil	120 m
Uponor eval PE-Xa pipe 9.9x1.1 240 m coil	240 m
Uponor eval PE-Xa pipe 9.9x1.1 480 m coil	480 m

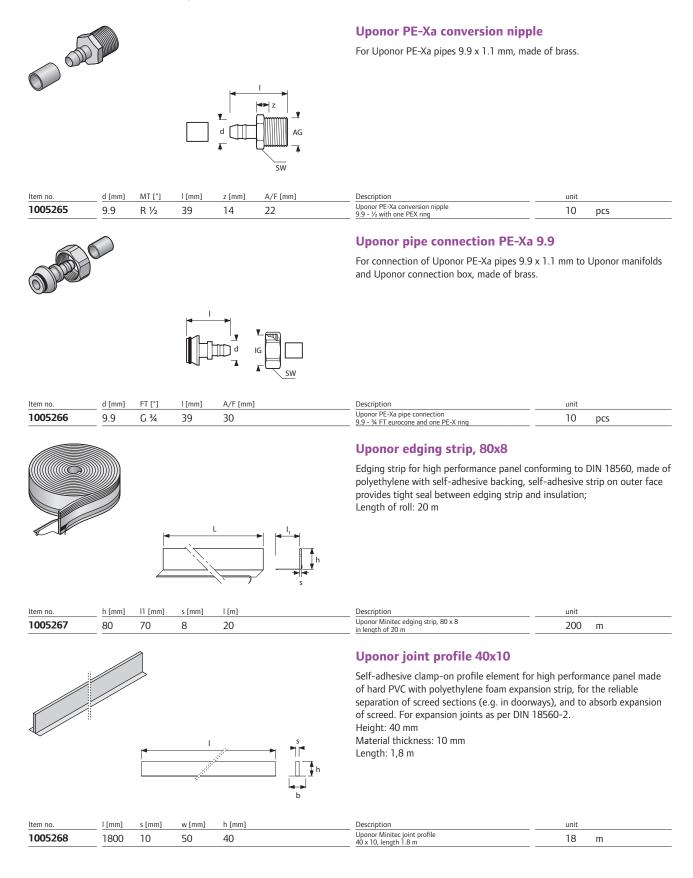
Uponor PE-Xa Q&E coupling 9.9

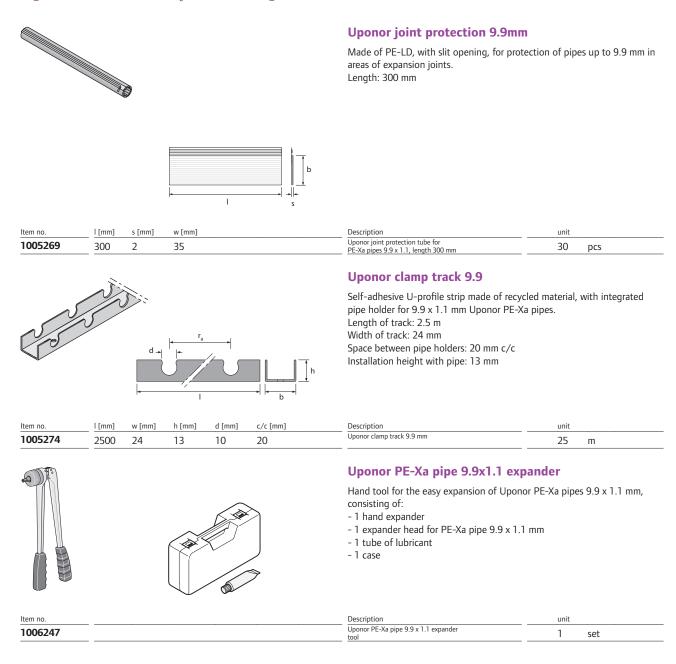
For Uponor PE-Xa pipe 9.9 x 1.1 mm, consisting of:

- 1 coupling

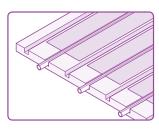
- 2 PEX Q&E rings for secure connection

Material: Coupling made in brass; PEX Q&E rings made in high-pressure cross-linked polyethylene





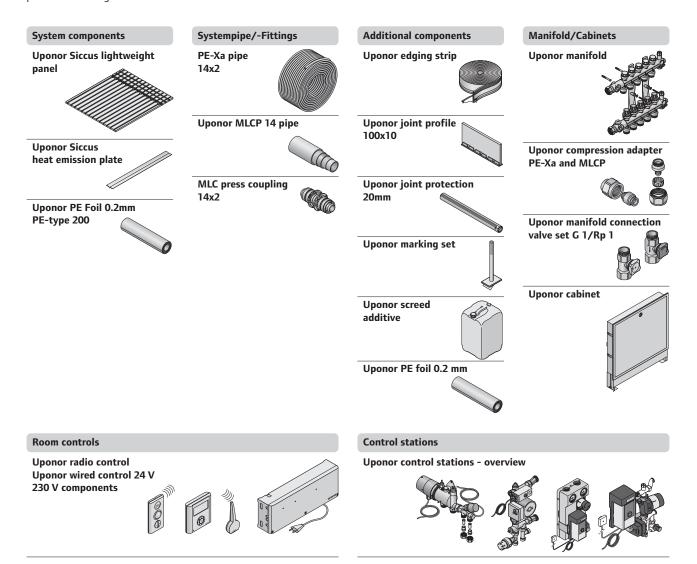
Uponor lightweight panel Siccus

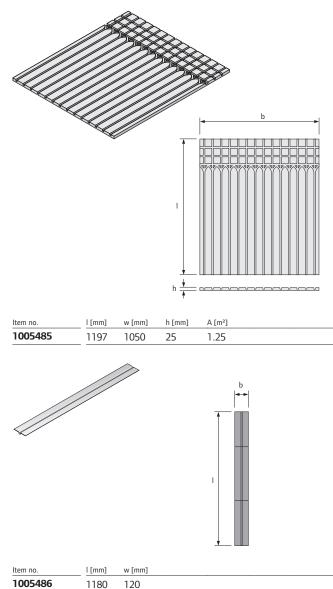


The Uponor lightweight panel Siccus has been specially designed as a universal solution for the restoration of old buildings where a low construction height and low weight are very important. The panels are installed on the

floor below the load distribution layer consisting of dry screed panels or heating screeds.

- Minimum floor construction height from 50 mm
- Short installation time, immediately accessible if installed with dry screed
- Low static weight from 25 kg/m² Last with dry screed panels
- Specially devised installation panel for universal use





PE-LD <

Uponor Siccus lightweight panel

Pipe fixing panel for butt joint installation; with pipe channels for the installation of heat emission plates or Uponor PE-Xa pipes 14 x 2 mm and Uponor MLCP RED radiant heating pipes 14 x 1.6 mm Material: Expanded polystyrene rigid foam according to DIN EN 13163 DIN 4102 building material class: B1 Application type according to DIN 4108-10: DEO Compressive strength: = 150 kPa Technical data Plate size: 1197 x 1050 mm Plate thickness: 25 mm Thermal resistance: 0.622 m² K/W Payload: 7.5 kN/m² Pipe spacing: 15 cm, 22.5 cm or 30 cm

Description	unit
Uponor Siccus lightweight panel	12.5 m²

Uponor heat emission plate 14 mm

For installation on Uponor lightweight panel; ensures uniform heat distribution and proper fixture of Uponor PE-Xa pipes 14 x 2 mm and Uponor MLCP RED radiant heating pipes 14 x 1.6 mm; with double perforations for easy cutting to size. Material: Aluminium Plate size: 120 x 1180 mm Plate thickness: 0.45 mm Material requirement: Pipe spacing Va 15 = 5.6 plates/m² Pipe spacing Va 22.5 = 3.7 plates/m² Pipe spacing Va 30 = 2.8 plates/m²

Description	unit
Uponor Siccus heat emission plate 14 mm for lightweight panel, 1180 x 120 mm	48 pcs

Uponor PE foil 0.2mm

For installation on Uponor insulation or on standardised insulating material approved for the intended purpose for areas without stud foil. Prevents screed penetrating the underlying insulation. Dimensions: 4 m x 2.5 m Thickness: 0.2 mm

Item no.	l [m]	w [m]	s [mm]	Description	unit	
1005049	60	1.25	~0.2	Uponor PE foil 0.2 mm thickness 60 x 1.25 m	75	m²



Uponor PE-Xa pipe

as coil, for use as radiant heating pipe, connected by press-fitting or with clamp fittings.

Material: Uponor PE-Xa pipe made in high-pressure cross-linked polyethylene (Engel method), conforming to DIN 16892 and DIN ISO 15875, oxygen-tight according to DIN 4726 Colour: white with black and red longitudinal stripes

Uponor PE-Xa pipe Max. operating temperature: 90°C Max. operating pressure: 6 bar at 70 °C Application class: 4 / 6 bar

Item no.	d [mm]	s [mm]	l [m]	Description	unit	
1048290	14	2	240	Uponor eval PE-Xa Q&E pipe 14x2.0 240 m coil	240	m
1048291	14	2	640	Uponor eval PE-Xa Q&E pipe 14x2.0 640 m coil	640	m



Uponor MLCP white in coils

Diffusion-tight multi-layer composite pipe (PE-RT - adhesive longitudinally welded aluminium - adhesive - PE-RT) for distribution conduits, rising mains and connection lines for plumbing, radiator connection and fancoil connection. Fire classification E according to DIN EN 13501-1. Pipe end caps as hygienic seal according EN 806. Resistance of temperature:

Tap water: The maximum permanent operating temperature exists between $0^{\circ}C$ and $70^{\circ}C$ at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95°C of a maximum of 100 hours in the operating lifetime.

Heating: The maximum permanent operating temperature is 80° C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95° C of a maximum of 150 hours in the operating time per year.

Item no. 1013366	d [mm] s [mm] 14 2.0	l [m] 200	Description Uponor MLCP 14x2 white in coils 200m	<u>unit</u> 200 m
	ò		Uponor press coupling Made of tin-plated brass, with fi identification, colour code and to	xed press sleeve, stop ring, pressed
ltem no.	d [mm]		Description	unit
1015154	14		Uponor press coupling MLC 14-14	10 pcs
			Uponor polystyrene cut	tter tool for lightweight system
5			For cutting of individual pipe cu cutting to size of polystyrene ite	rves and guides. And also for the smooth ms. 230 V connection.
Item no.	OV [V]		Description	unit

Uponor polystyrene cutting tool for lightweight system

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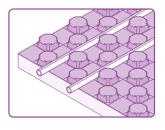
1

pcs

1006290

230

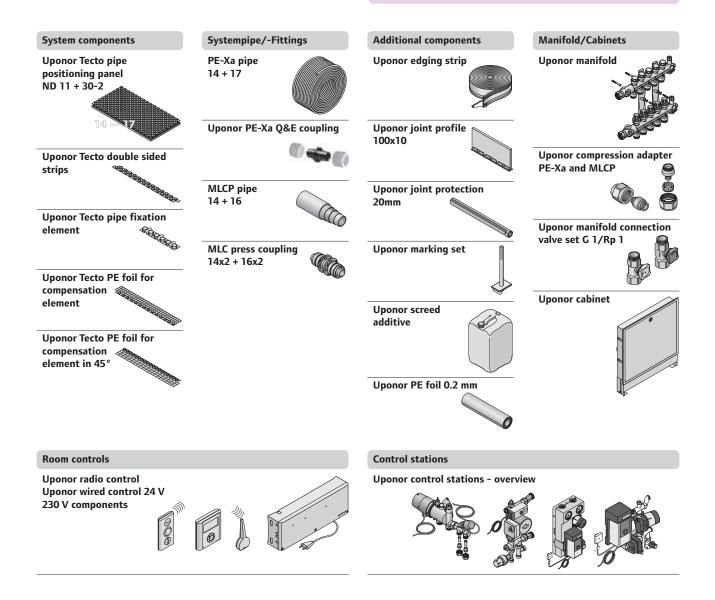
Uponor pipe positioning panel Tecto

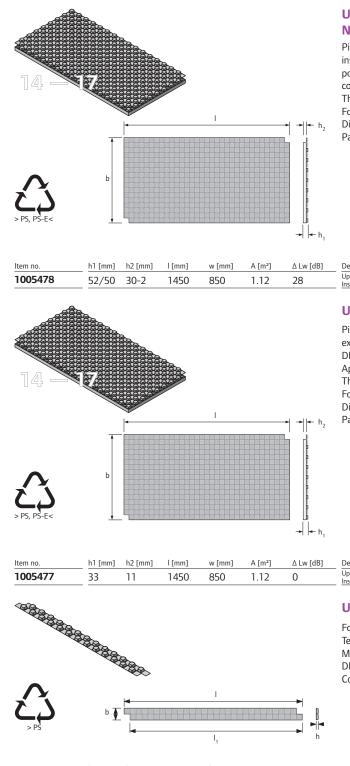


The Uponor Tecto pipe positioning panel has been specially developed for the installation of underfloor heating/cooling systems in residential and non-residential buildings. The panels are installed in the floor below the

cement or anhydrite screed load distribution layer. Uponor Tecto panels are available in two different thicknesses (ND 30-2 and ND 11), catering for various floor constructions and load-bearing requirements.

- Cost-efficient one-man installation
- Easy laying thanks to large panels (1450 x 850 mm)
- Compensation elements for doors, movements joints and wall joints available
- Double-sided strips for easy connection of element cut-offs with minimum waste
- Diagonal pipe fixture for installation at 45° angles
- Suitable pipe sizes from 14 to 17 mm
- Ensures standardised pipe spacing due to forced pipe paths
- Proper covering of the insulating layer thanks to integrated sturdy deep-drawn foil
- Suitable for a wide range of applications thanks to high strength properties (ND 30-2: 500 kg/m²; ND 11: 3.0 t/m²)





Uponor Tecto pipe positioning panel with insulation ND 30-2

Pipe fixing panel ND 30-2 for pipes 14 - 17 mm with heat and sound insulation. Made of expanded polystyrene insulation covered by a black polystyrene foil acc. to DIN EN 13163. Building-material class B2 conforming to DIN 4102. Approved for moving loads of up to 5.0 kN/m². Thermal resistance: 0.75 m²K/W. For pipe spacing in cm: 10, 15, 20, 25, 30. Dimensions: 1.45 m x 0,85 m Panel height: 52 mm

Description	unit
Uponor Tecto pipe positioning panel incl. Insulation for dim. 14-17, thickness 30mm	8.96 m²

Uponor pipe positioning panel with insulation ND 11

Pipe fixing panel ND 11 for pipes 14 - 17 mm with heat insulation. Made of expanded polystyrene insulation covered by a black polystyrene foil acc. to DIN EN 13163. Building-material class B2 conforming to DIN 4102. Approved for moving loads of up to 30 kN/m². Thermal resistance: 0.275 m²K/W. For pipe spacing in cm: 10, 15, 20, 25, 30. Dimensions: 1.45 m x 0,85 m

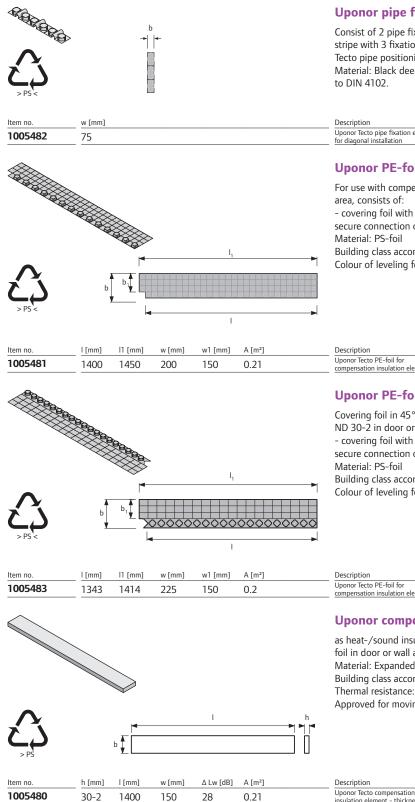
Panel height: 33 mm

Description	unit
Uponor Tecto pipe positioning panel incl. Insulation for dim. 14-17, thickness 11mm	15.68 m²

Uponor double-sided strip

Foil strips with pipe fixing studs in two rows for the proper connection of Tecto elements ND 11 or ND 30-2 (butt joints) Material: Deep drawn PS foil DIN 4102 building material class: B2 Colour of cover foil: traffic black (near RAL 9017)

ltem no.	l [mm]	l1 [mm]	w [mm]	h [mm]	Description	unit
1005484	1350	1400	100	22	Uponor Tecto double sided strips to connect panels	33.75 m



Uponor pipe fixation element 45°

Consist of 2 pipe fixing naps connected with one pipe fixation element as stripe with 3 fixations for diagonal installation of Uponor pipes on Uponor Tecto pipe positioning panel. Each stripe is separable in 3 fixation elements. Material: Black deep drawing PS foil. Building-material class B2 conforming

Description	unit		
Uponor Tecto pipe fixation element for diagonal installation	10	pcs	

Uponor PE-foil for compensation element

For use with compensation-insulation ND 11 or ND 30-2 in door or wall

- covering foil with cutter raster, single overlapping, pipe fixing foil for secure connection of compensation elements on the Tecto elements

Building class according to DIN 4102: B2

Colour of leveling foil: black, approx. RAL 9017

Description	unit		
Uponor Tecto PE-foil for compensation insulation element	28	m	

Uponor PE-foil for compensation element in 45°

Covering foil in 45° version for use with compensation-insulation ND 11 or ND 30-2 in door or wall area, consists of:

- covering foil with cutter raster, single overlapping, pipe fixing foil for secure connection of compensation elements on the Tecto elements

Building class according to DIN 4102: B2 Colour of leveling foil: black, aprox. RAL 9017

Description	unit	
Uponor Tecto PE-foil for compensation insulation element in 45°	26.8 m	

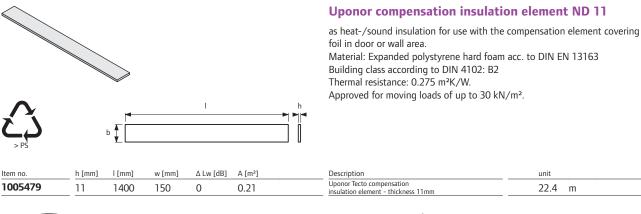
Uponor compensation insulation element ND 30-2

as heat-/sound insulation for use with the compensation element covering foil in door or wall area.

Material: Expanded polystyrene hard foam acc. to DIN EN 13163 Building class according to DIN 4102: B2 Thermal resistance: 0.75 m²K/W.

Approved for moving loads of up to 5.0 kN/m^2 .

Item no.	h [mm]	l [mm]	w [mm]	∆ Lw [dB]	A [m ²]	Description	unit	
1005480	30-2	1400	150	28	0.21	Uponor Tecto compensation insulation element - thickness 30-2mm	8.4	m





Uponor PE-Xa pipe

as coil, for use as radiant heating pipe, connected by press-fitting or with clamp fittings.

unit

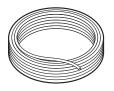
22.4

m

Material: Uponor PE-Xa pipe made in high-pressure cross-linked polyethylene (Engel method), conforming to DIN 16892 and DIN ISO 15875, oxygen-tight according to DIN 4726 Colour: white with black and red longitudinal stripes

Uponor PE-Xa pipe Max. operating temperature: 90°C Max. operating pressure: 6 bar at 70 °C Application class: 4 / 6 bar

d [mm]	s [mm]	l [m]	Description	unit	
14	2	240	Uponor eval PE-Xa Q&E pipe 14x2.0 240 m coil	240	m
14	2	640	Uponor eval PE-Xa Q&E pipe 14x2.0 640 m coil	640	m



Item no.

1048290

1048291

Uponor PE-Xa pipes

PE-Xa pipe with an oxygen diffusion barrier manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with e.g. prENISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene" with an oxygen diffusion barrier of EVOH (ethyl vinyl alcohol). Uponor pipes fulfil the requirements for oxygen diffusion resistance as per DIN 4726. Malfunction temperature 95°C. Design pressure 8,8 bar (at 70°C).

Item no.	d [mm]	s [mm]	l [m]	V [l/m]	Description	unit	
1034535	17	2.0	120	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 120 m coil	120	m
1009226	17	2.0	240	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 240 m coil	240	m
1009227	17	2.0	640	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 640 m coil	640	m



Uponor MLCP white in coils

Diffusion-tight multi-layer composite pipe (PE-RT - adhesive longitudinally welded aluminium - adhesive - PE-RT) for distribution conduits, rising mains and connection lines for plumbing, radiator connection and fancoil connection. Fire classification E according to DIN EN 13501-1. Pipe end caps as hygienic seal according EN 806. Resistance of temperature:

Tap water: The maximum permanent operating temperature exists between 0°C and 70°C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95°C of a maximum of 100 hours in the operating lifetime.

Heating: The maximum permanent operating temperature is 80°C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95°C of a maximum of 150 hours in the operating time per year.

Item no.	d [mm]	s [mm]	l [m]	Description	unit	
1013366	14	2.0	200	Uponor MLCP 14x2 white in coils 200m	200	m
1013378	16	2.0	100	Uponor MLCP 16x2 white in coils 100m	100	m
1013371	16	2.0	200	Uponor MLCP 16x2 white in coils 200m	200	m
1013380	16	2.0	500	Uponor MLCP 16x2 white in coils 500m	500	m



Uponor PE-Xa Q&E coupling

For connection of Uponor PE-Xa pipes, made of brass.

		For connection of Uponor PE-Xa pipe	es, made of brass.
ltem no.	d [mm]	Description	unit
1025883	17	Uponor PE-Xa Q&E coupling 17-17 with two PEX rings	5 pcs
		Upopor pross coupling MI	C up to 22

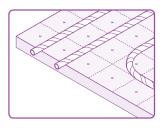


Uponor press coupling MLC up to 32

Made of tin-plated brass, with fixed press sleeve, stop ring, pressed identification, colour code and test safety. Press without bevel.

ltem no.	d [mm]	Description	unit	
1015154	14	Uponor press coupling MLC 14-14	10	pcs
1015164	16	Uponor press coupling MLC 16-16	10	pcs

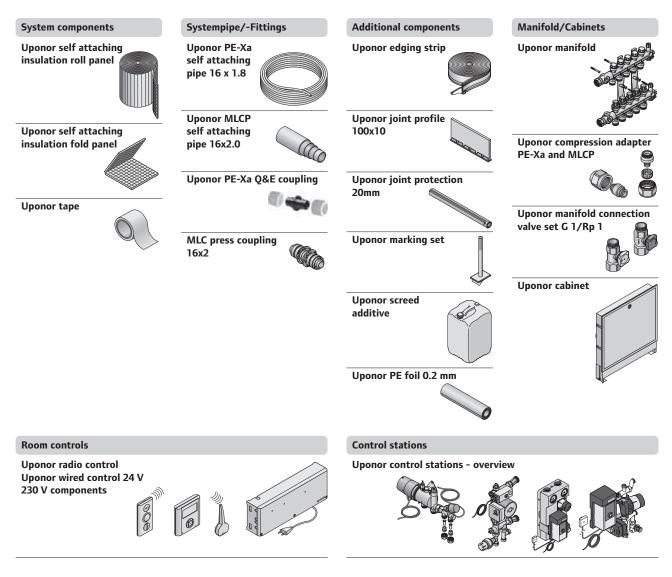
Uponor self attaching system



With its self attaching system, Uponor offers installers an innovating pipe laying system for underfloor heating pipes. At the factory, hook fasting tape is wound around the oxygentight pipes conforming to DIN 4726. The system

insulating panel, which can also be used as a stapler panel, is completely covered with the matching laminated loop foil. The pipe can be reeled off and laid on the floor as usual and only needs to be pressed at the correct position against the laminated insulating panel. The hooks on the tape around the pipe catch the loops on the foil and thus secure the pipe to the surface. Both the hook take and the loop foil are designed to guarantee maximum fixture.

- Easy pipe laying without any special tools
- For cost-efficient one-man installation
- Installed pipes can be repositioned at any time
- System panels available in various thicknesses to suit individual insulation needs
- Roll-out insulation for fast installation
- Ideal for flexible pipe spacing in rooms of any shape
- Thanks to the large number of fastening points, the pipe is firmly placed against the surface along its entire length



Uponor self attaching system - System components and accessories

							Uponor self attaching insulation Pipe fixing panel in roll form, for thermal and according to DIN EN 13163 and DIN 4108-1 with laminated textile adhesive foil for overla on one side to cover insulating layer accordi Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E	d impact no 0; made fro ap installati	oise insulation om EPS rigid foam ion; foil extending
ltem no.		l [mm]	w [mm]		R-value [m ² K/W		Description	unit	
1007228	30-3	12000	1000	4	0.67	29	Uponor self attaching insulation roll panel 30-3 EPS 045 DES SM	12	m²
)			Uponor self attaching insulation Pipe fixing panel , for thermal and impact no DIN EN 13163 and DIN 4108-10; made from textile adhesive foil for overlap installation; for cover insulating layer according to DIN 1856 Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E	oise insulati n EPS rigid foil extendi	ion according to foam with laminated
Item no.	h [mm] l	l [mm]	w [mm]	G [kN/m²]	R-value [m ² K/W	/] A Lw [dP]	Description	unit	
1007232	30-3 2	2000	1000	4	0.67	29	Uponor self attaching insulation fold panel 30-3	10	m²
	30-3	2000	1000					10 n fold pa ording to D th laminated	anel 15mm DIN EN 13163 and d textile adhesive
Item no.			w [mm]	4	0.67 R-value [m²K/W	29	Uponor self attaching insulation fold panel 30-3 Uponor self attaching insulation Pipe fixing panel , for thermal insulation acc DIN 4108-10; made from EPS rigid foam wit foil for overlap installation; foil extending or layer according to DIN 18560. Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E Description	10 n fold pa ording to D th laminated o one side to	anel 15mm DIN EN 13163 and d textile adhesive o cover insulating
				4	0.67	29	Uponor self attaching insulation fold panel 30-3 Uponor self attaching insulation Pipe fixing panel , for thermal insulation acc DIN 4108-10; made from EPS rigid foam wit foil for overlap installation; foil extending or layer according to DIN 18560. Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E	10 n fold pa ording to D th laminated o one side to	anel 15mm DIN EN 13163 and d textile adhesive
Item no.			w [mm]	4	0.67 R-value [m²K/W	29	Uponor self attaching insulation fold panel 30-3 Uponor self attaching insulation Pipe fixing panel , for thermal insulation acc DIN 4108-10; made from EPS rigid foam wit foil for overlap installation; foil extending or layer according to DIN 18560. Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E Description Uponor self attaching insulation fold panel 15mm	10 n fold pa ording to D th laminated o one side to unit 20	mel 15mm DIN EN 13163 and d textile adhesive o cover insulating
Item no.			w [mm]	4	0.67 R-value [m²K/W	29	Uponor self attaching insulation fold panel 30-3 Uponor self attaching insulation Pipe fixing panel , for thermal insulation acc DIN 4108-10; made from EPS rigid foam wit foil for overlap installation; foil extending or layer according to DIN 18560. Foil raster: 100 x 100 mm Building material class: DIN 4102-B2 DIN EN 13501-1 fire classification: class E Description Uponor self attaching insulation fold panel 15mm EPS 040 DE0 Uponor tape Tape for the sealed joining of Uponor insulation	10 n fold pa ording to D th laminated o one side to unit 20	mel 15mm DIN EN 13163 and d textile adhesive o cover insulating

Uponor self attaching system - System components and accessories



Uponor PE-Xa self attaching pipes

PE-Xa pipe with an oxygen diffusion barrier of EVOH manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with DIN 16892 and DIN ISO 15875, oxygen tight according to DIN 4726.

Max. operating temperature: 70°C Application class 4 / 6 bar.

Item no.	d [mm]	s [mm]	l [m]	Description	unit	
1047624	16	1.8	240	Uponor self attaching eval PE-Xa pipe 16x1.8 240 m coil	240	m
1047625	16	1.8	640	Uponor self attaching eval PE-Xa pipe 16x1.8 640 m coil	640	m



Uponor MLCP UFH/C self attaching pipes

Diffusion-tight multi layer composite pipe (PE-RT - adhesive agent longitudinally welded aluminium - adhesive agent - PE-RT) for radiant heating / cooling applications. Normally inflammable, materials classification B2 according to DIN 4102. Max. continuous operation pressure: 4 bar at continuous operating temperature 60°C.

Item no.	d [mm]	s [mm]	l [m]	Description	unit	
1048249	16	2	200	Uponor MLCP self attaching red heating UFH/C 16x2.0 200m pipe with oxygen barrier	200	m
1048395	16	2	500	Uponor MLCP self attaching red heating UFH/C 16x2.0 500m pipe with oxygen barrier	500	m

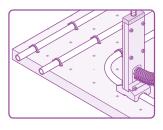


Uponor press coupling MLC up to 32

Made of tin-plated brass, with fixed press sleeve, stop ring, pressed identification, colour code and test safety. Press without bevel.

ltem no.	d [mm]	Description	unit
1015164	16	Uponor press coupling MLC 16-16	10 pcs
		Uponor Q&E brass couplin	g equal
		Made of DR brass.	
		Note: Uponor Q&E Ring must be ord	ered separately!
em no.	d [mm] p [bar]	Description	unit
047193	16 6+10	Uponor Q&E coupling 16-16 16-16	5 pcs
T		Uponor Q&E ring natural	
-1-		Made of PE-X. Uponor Q&E rings nat fittings. For PE-Xa pipe dimensions 1	· •
tem no.	d [mm] colour [-] p [bar]	Description	unit
042388	16 natural 6+10	Uponor Q&E ring natural with stop edge for Uponor PE-Xa dim 16 mm	20 pcs

Uponor stapler and clamp track system

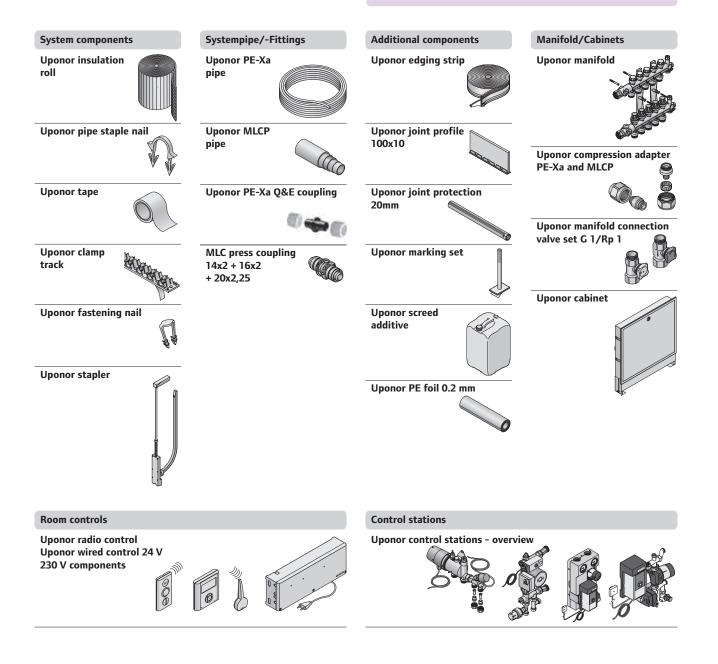


All components of the Uponor stapler and clamp track system are designed to perfectly match each other.

The panels with thermal and impact noise insulation are equipped with a tear-proof surface and a printed

installation grid. They allow for easy installation of the system pipe. These and all other components are designed to ensure optimum safety and reliable operation of the system.

- Flexible pipe laying
- Available as composite panels or rolls with a range of different thermal and impact noise insulation layers
- Suitable for all types of screeds
- Large pipe coils reel for minimum cut-offs and twist-fee installation
- Fast to install thanks to the integrated insulation layer cover
- Universal staple nail for pipe thickness of 14 20 mm
- Easy installation with ergonomically designed Uponor system stapler





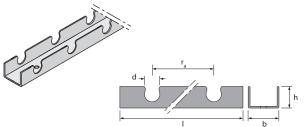
Uponor insulation roll panel with texture foil

Ready-to-lay heat/sound insulation roll, consisting of: tear-resistant texture foil laminated onto 25-2 EPS 045 DES sm as per DIN EN 13163 and DIN V 4108-10 (WLG 045). Standard flammability, building-material class B2, conforming to DIN 4102. Suitable for use in area between floors, where rooms on either side are heated to same level. With printed-on grid pattern for ease of cutting and alignment. Approved for moving loads of up to 4.0 kN/m². Thermal resistance: 0,56 (m² x K/W).

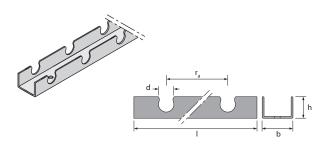
Item no.	h [mm]	l [mm]	w [mm]	G [kN,	/m²] R-value [m²	K/W] ∆ Lw [dB]	Description	unit	
1000002	30-2	12000	1000	5	0.75	28	Uponor insulation roll panel with texture foil typ 30-2	12	m²
1000003	30-3	12000	1000	4	0.67	29	Uponor insulation roll panel with texture foil typ 30-3	12	m²



Item no.	d [mm]	De
1000013	14-20	Up



			1		b	
ltem no.	l [mm]	w [mm]	h [mm]	d [mm]	c/c [mm]	
1005498	2500	38	17	14	50	



Uponor insulation roll panel with texture foil typ 30-2	12	m²	
Uponor insulation roll panel with texture foil typ 30-3	12	m²	

Uponor pipe staple nail

Pipe staple in red made of PA, loaded into magazine for securing heating-system pipes onto insulation roll with texture foil. For Uponor pipes 14 - 20 mm.

Installation height with pipe: 20 mm.

Description	unit
Uponor pipe staple nail 14-20mm	1000 pcs

Uponor clamp track 14

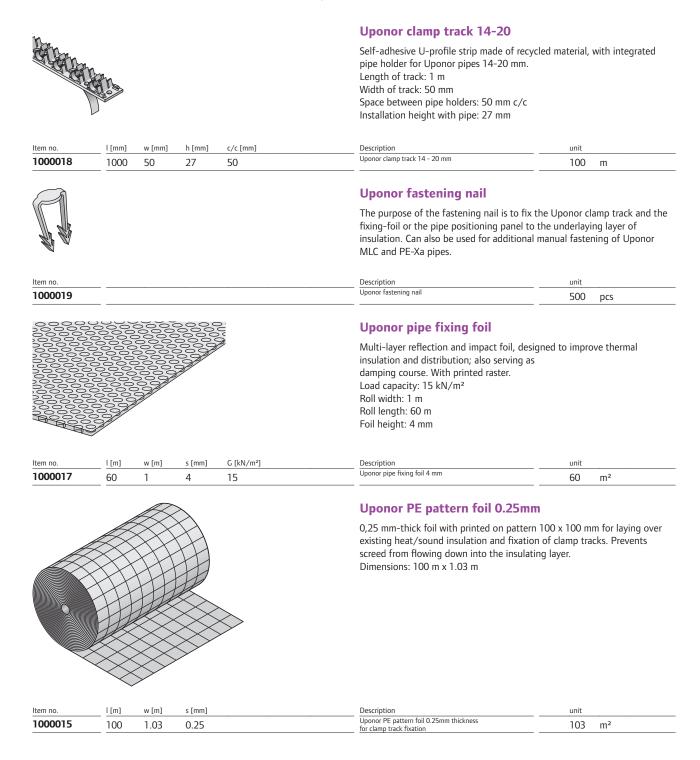
Self-adhesive U-profile strip made of recycled material, with integrated pipe holder for 14 x 2 mm Uponor pipes. Rated break points are provided every 100 mm for easy separation. Length of track: 2.5 m Width of track: 38 mm Space between pipe holders: 50 mm c/c Installation height with pipe: 17 mm

Description	unit	
Uponor clamp track 14 mm	25 m	-

Uponor clamp track 16

Self-adhesive U-profile strip made of recycled material, with integrated pipe holder for 16 x 2 mm Uponor pipes. Rated break points are provided every 100 mm for easy separation. Length of track: 2 m Width of track: 40 mm Space between pipe holders: 25 mm c/c Installation height with pipe: 25 mm

ltem no.	l [mm]	w [mm]	h [mm]	d [mm]	c/c [mm]	Description	unit	
1013127	2000	40	25	16	25	Uponor clamp track 16 mm	100	m





Uponor PE-Xa pipe

as coil, for use as radiant heating pipe, connected by press-fitting or with clamp fittings.

Material: Uponor PE-Xa pipe made in high-pressure cross-linked polyethylene (Engel method), conforming to DIN 16892 and DIN ISO 15875, oxygen-tight according to DIN 4726 Colour: white with black and red longitudinal stripes

Uponor PE-Xa pipe Max. operating temperature: 90°C Max. operating pressure: 6 bar at 70 °C Application class: 4 / 6 bar

Item no.	d [mm]	s [mm]	[m]	Description	unit	
1048290	14	2	240	Uponor eval PE-Xa Q&E pipe 14x2.0 240 m coil	240	m
1048291	14	2	640	Uponor eval PE-Xa Q&E pipe 14x2.0 640 m coil	640	m



Uponor eval PE-Xa Q&E pipe in coils

Pipes manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method, complying with e.g. EN ISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene". Includes an ethylene vinyl alcohol (EVOH) oxygen barrier layer, complying with DIN 4726, to prevent corrosion of system components. This barrier has been specially developed to work together with Uponor Q&E fitting technology. Classification of service conditions (including typical field of application): Application class 4 - Underfloor heating and low temperature radiators, malfunction temperature 95 °C. Design pressure 6 bar. Application class 5 - high temperature radiators, malfunction temperature 95 °C. Design pressure 6 bar.

Item no.	d [mm]	s [mm]	l [m]	p [bar]	Description	unit	
1047610	16	2.0	120	6	Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 120 m	120	m
1047611	16	2.0	240	6	Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 240 m	240	m
1047612	16	2.0	640		Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 640 m	640	m



Uponor PE-Xa pipes

PE-Xa pipe with an oxygen diffusion barrier manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with e.g. prENISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene" with an oxygen diffusion barrier of EVOH (ethyl vinyl alcohol). Uponor pipes fulfil the requirements for oxygen diffusion resistance as per DIN 4726. Malfunction temperature 95°C. Design pressure 8,8 bar (at 70°C).

Item no.	d [mm]	s [mm]	l [m]	V [l/m]	Description	unit	
1034535	17	2.0	120	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 120 m coil	120	m
1009226	17	2.0	240	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 240 m coil	240	m
1009227	17	2.0	640	0.13	Uponor pe PE-Xa Q&E pipe 17x2.0 640 m coil	640	m
1009228	20	2.0	120	0.2	Uponor pe PE-Xa Q&E pipe 20x2.0 120 m coil	120	m
1009230	20	2.0	240	0.2	Uponor pe PE-Xa Q&E pipe 20x2.0 240 m coil	240	m
1009231	20	2.0	480	0.2	Uponor pe PE-Xa Q&E pipe 20x2.0 480 m coil	480	m



Uponor MLCP white in coils

Diffusion-tight multi-layer composite pipe (PE-RT - adhesive longitudinally welded aluminium - adhesive - PE-RT) for distribution conduits, rising mains and connection lines for plumbing, radiator connection and fancoil connection. Fire classification E according to DIN EN 13501-1. Pipe end caps as hygienic seal according EN 806. Resistance of temperature:

Tap water: The maximum permanent operating temperature exists between 0°C and 70°C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95°C of a maximum of 100 hours in the operating lifetime.

Heating: The maximum permanent operating temperature is 80° C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95° C of a maximum of 150 hours in the operating time per year.

ltem no.	d [mm]	s [mm]	l [m]	Description	unit	
1013366	14	2.0	200	Uponor MLCP 14x2 white in coils 200m	200	m
1013378	16	2.0	100	Uponor MLCP 16x2 white in coils 100m	100	m
1013371	16	2.0	200	Uponor MLCP 16x2 white in coils 200m	200	m
1013380	16	2.0	500	Uponor MLCP 16x2 white in coils 500m	500	m
1013392	20	2.25	200	Uponor MLCP 20x2,25 white in coils 200m	200	m



Uponor Q&E brass coupling equal

Made of DR brass. Note: Uponor Q&E Ring must be ordered separately!

Item no.	d [mm]	p [bar]	Description	unit	
1047193	16	6+10	Uponor Q&E coupling 16-16 16-16	5	pcs



Uponor Q&E ring natural

Made of PE-X. Uponor Q&E rings natural intended for Uponor Q&E fittings. For PE-Xa pipe dimensions 16, 20, 25, 32, 40, 50 and 63 mm.

Item no.	d [mm]	colour [-]	p [bar]	Description	unit	
1042388	16	natural	6+10	Uponor Q&E ring natural with stop edge for Uponor PE-Xa dim 16 mm	20	pcs



Uponor PE-Xa Q&E coupling

For connection of Uponor PE-Xa pipes, made of brass.

ltem no.	d [mm]	Description	unit	
1025883	17	Uponor PE-Xa Q&E coupling 17-17 with two PEX rings	5	pcs
1008440	20	Uponor PE-Xa Q&E coupling 20-20 with two PEX rings	1	pcs

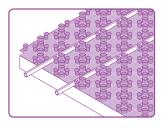


Uponor press coupling MLC up to 32

Made of tin-plated brass, with fixed press sleeve, stop ring, pressed identification, colour code and test safety. Press without bevel.

Item no.	d [mm]	Description	unit	
1015154	14	Uponor press coupling MLC 14-14	10	pcs
1015164	16	Uponor press coupling MLC 16-16	10	pcs
1015187	20	Uponor press coupling MLC 20-20	10	pcs

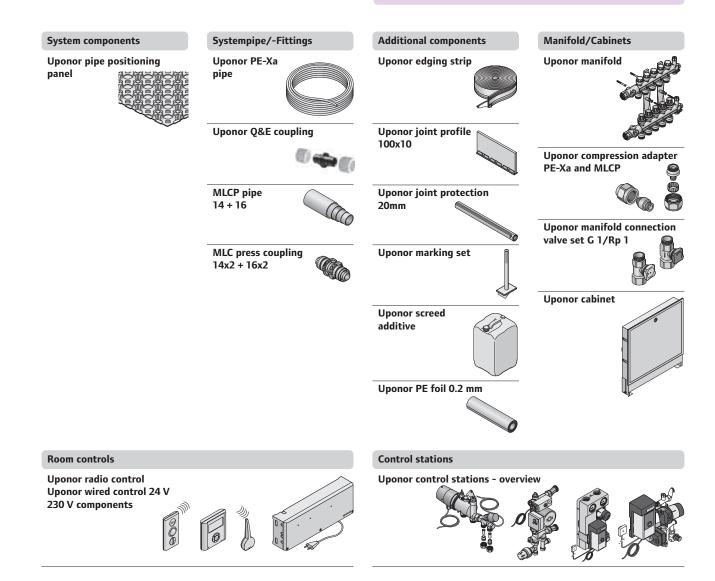
Uponor pipe positioning panel 14-16



The Uponor installation panel has been specially developed for the installation of underfloor heating/cooling systems in residential and non-residential buildings. The panels are installed in the floor below the cement or anhydrite

screed load distribution layer. Uponor installation panels are available in two different thicknesses with insulation (ND30-2) and without insulation (ND11), catering for various floor constructions and load-bearing requirements.

- Cost-efficient one-man installation
- Easy laying thanks to large panels (1447 x 900 mm)
- Compensation elements for doors, movements joints and wall joints available
- Suitable pipe sizes from 14 to 16 mm
- Ensures standardised pipe spacing due to forced pipe paths
- Proper covering of the insulating layer thanks to integrated sturdy deep-drawn foil
- Suitable for a wide range of applications thanks to high strength properties (ND 30-2: 5 kN/m²; ND 11: 30 kN/m²)



Uponor pipe positioning panel - System components and accessories

						Uponor pipe positioning panel Pipe fixing panel made of polystyrene for laying pipes 14 - 16 mm, supplied in black. For insulation supplied on-site. Dimensions: 0,72 m x 1,14 m Height of moulded pattern: 20 mm Each pack (16,4 m ²) contains sufficient material to cover 14,2 m ² .			
ltem no.	h [mm] l	[mm]	w [mm]	A [m²]		Description	unit		
1000020	20	1140	720	0.82		Uponor pipe positioning panel 14 - 16 mm	16.4	m²	
						Uponor pipe positioning p Clip for diagonal installation of Upo panel.	-	or pipe positioning	
ltem no.	d [mm]					Description	unit		
1000022	14-16					Uponor clip for pipe positioning panel for diagonal installation	100	pcs	
						Uponor PE-Xa pipe as coil, for use as radiant heating pip clamp fittings. Material: Uponor PE-Xa pipe made i polyethylene (Engel method), confor DIN ISO 15875, oxygen-tight accord Colour: white with black and red lon Uponor PE-Xa pipe Max. operating temperature: 90°C Max. operating pressure: 6 bar at 70 Application class: 4 / 6 bar	in high-pressure cro prming to DIN 1689 ding to DIN 4726 igitudinal stripes	oss-linked	
ltem no.	d [mm] s	s [mm]	l [m]			Description	unit		
1048290	14 2	2	240			Uponor eval PE-Xa Q&E pipe 14x2.0 240 m coil	240	m	
1048291	14 2	2	640			Uponor eval PE-Xa Q&E pipe 14x2.0 640 m coil	640	m	
						Uponor eval PE-Xa Q&E p Pipes manufactured from peroxide of the Engel method, complying with e systems for hot and cold water insta Includes an ethylene vinyl alcohol (E with DIN 4726, to prevent corrosion been specially developed to work to technology. Classification of service	cross-linked polyeth e.g. EN ISO 15875 " Illations - Cross-link EVOH) oxygen barri of system compon gether with Upono conditions (includii	Plastics piping ed polyethylene". er layer, complying ents. This barrier has r Q&E fitting ng typical field of	

Description Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 120 m Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 240 m Uponor eval PE-Xa Q&E pipe 16x2.0 mm in coils of 640 m Item no. d [mm] s [mm] l [m] p [bar] unit 1047610 16 2.0 120 6 120 m 1047611 16 2.0 240 6 240 m 1047612 16 2.0 640 640 m

95 °C. Design pressure 6 bar.

application): Application class 4 - Underfloor heating and low temperature radiators, malfunction temperature 95 °C. Design pressure 6 bar. Application class 5 - high temperature radiators, malfunction temperature

Uponor pipe positioning panel - System components and accessories



Uponor MLCP white in coils

Diffusion-tight multi-layer composite pipe (PE-RT - adhesive longitudinally welded aluminium - adhesive - PE-RT) for distribution conduits, rising mains and connection lines for plumbing, radiator connection and fancoil connection. Fire classification E according to DIN EN 13501-1. Pipe end caps as hygienic seal according EN 806. Resistance of temperature:

Tap water: The maximum permanent operating temperature exists between 0°C and 70°C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95°C of a maximum of 100 hours in the operating lifetime.

Heating: The maximum permanent operating temperature is 80° C at a maximum permanent operating pressure of 10 bars. The short-term malfunction temperature is 95° C of a maximum of 150 hours in the operating time per year.

Item no.	d [mm]	s [mm]	l [m]	Description	unit	
1013366	14	2.0	200	Uponor MLCP 14x2 white in coils 200m	200	m
1013378	16	2.0	100	Uponor MLCP 16x2 white in coils 100m	100	m
1013371	16	2.0	200	Uponor MLCP 16x2 white in coils 200m	200	m
1013380	16	2.0	500	Uponor MLCP 16x2 white in coils 500m	500	m



Uponor Q&E brass coupling equal

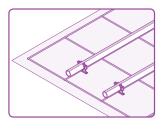
Made of DR brass.

Note: Uponor Q&E Ring must be ordered separately!

Item no.	d [mm]	p [bar]	Description	unit	
1047193	16	6+10	Uponor Q&E coupling 16-16 	5 pcs	
T			Uponor Q&E ring natural		
-			Made of PE-X. Uponor Q&E rings na fittings. For PE-Xa pipe dimensions 1	1 6	
Item no.	d [mm]	colour [-] p [bar]	Description	unit	
1042388	16	natural 6+10	Uponor Q&E ring natural with stop edge for Uponor PE-Xa dim 16 mm	20 pcs	
			Uponor press coupling ML	C up to 32	
YAA			Made of tin-plated brass, with fixed press sleeve, stop ring, pressed identification, colour code and test safety. Press without bevel.		

ltem no.	d [mm]	Description	unit
1015154	14	Uponor press coupling MLC 14-14	10 pcs
1015164	16	Uponor press coupling MLC 16-16	10 pcs

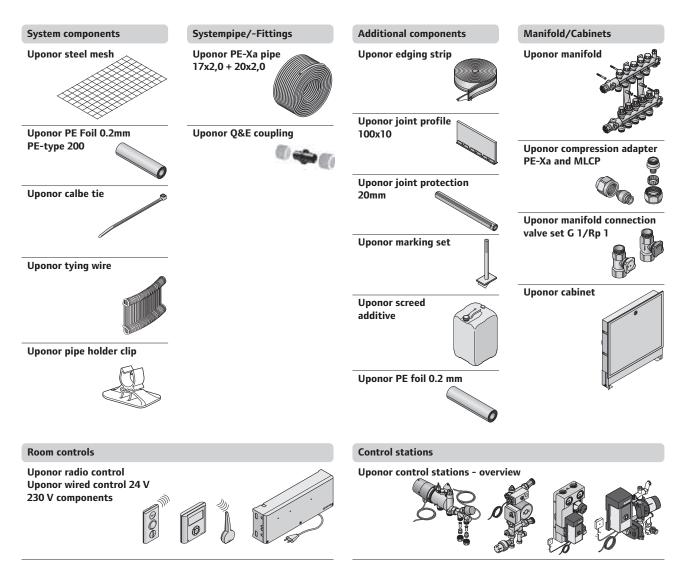
Uponor steel mesh system Classic



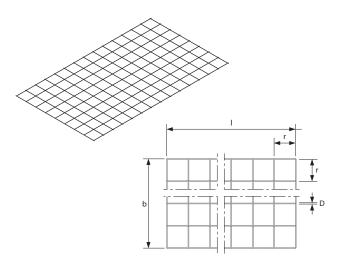
The Uponor steel mesh system Classic is the ideal solution for underfloor heating/cooling systems on virtually all floors in new residential and commercial buildings. Available in three raster sizes, Uponor Classic allows you to

optimise the pipe spacing to meet the actual heating needs. As the heating layer is separated from the insulation layer(s), the system, in combination with high-payload insulation, is also ideally suited for areas with high traffic and payload, such as garage showrooms, production halls, retail outlets, etc.

- Exact pipe laying: the steel mesh and pipe holders ensure standardized pipe distances – along both horizontal and vertical.
- Sturdy clamping: the pipe clips secure the pipe firmly on the carrier element.
- No damage to insulation covering
- Free hand when choosing your insulating material.
- Cost-efficient one-man installation: flexible, fast and easy to install, saving you time and money.



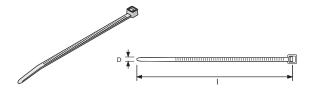
Uponor Classic - System components and accessories



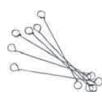
ltem no.	l [mm]	w [mm]	d [mm]	r [mm]	A [m ²]	Description
1005087	2100	1200	3	150	2.5	Uponor Classic element 15cm grid 15 and 30, corrosion protected
1005084	2100	1200	3	100	2.5	Uponor Classic element 10cm grid 10 and 20, corrosion protected







ltem no. w [mm] l [mm] 1005287 5 200



Uponor cable tie

Uponor pipe holder clip for pipes 15-20mm

on steel mesh below or equal 6mm

Description

For fastening Uponor pipes on reinforcement steel meshed. Made of polyamide.

Description	unit
Uponor cable ties, length 200 mm	100 pcs

Uponor tying wire

For fastening Uponor pipes on reinforcement steel meshes. Made of steel. 250 pcs per bag.

 Item no.
 Description
 unit

 1009222
 Uponor tying wire, 150 x 1.25
 250 pcs

Uponor Classic steel mesh

For stable attachment of pipe fixations and standard installation of underfloor heating pipes. Dim. 2100mm x 1200mm. Material: corrosion protected steel.

Uponor Classic element 10cm grid 10 and 20, corrosion protected	25	m²
Unonor nino holdor clin		

Uponor pipe holder clip

Plastic clip for fixation of 15-20mm pipes on steel mesh below or equal 6mm.

unit 25

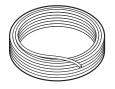
unit

100

pcs

m²

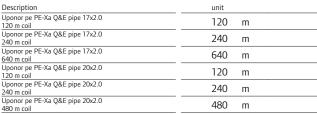
Uponor Classic - System components and accessories



Uponor PE-Xa pipes

PE-Xa pipe with an oxygen diffusion barrier manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with e.g. prENISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene" with an oxygen diffusion barrier of EVOH (ethyl vinyl alcohol). Uponor pipes fulfil the requirements for oxygen diffusion resistance as per DIN 4726. Malfunction temperature 95°C. Design pressure 8,8 bar (at 70°C).

Item no.	d [mm]	s [mm]	l [m]	V [l/m]	Des
1034535	17	2.0	120	0.13	Upo 120
1009226	17	2.0	240	0.13	Upo 240
1009227	17	2.0	640	0.13	Up0 640
1009228	20	2.0	120	0.2	Upo 120
1009230	20	2.0	240	0.2	Up 240
1009231	20	2.0	480	0.2	Upi



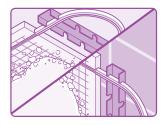


Uponor PE-Xa Q&E coupling

For connection of Uponor PE-Xa pipes, made of brass.

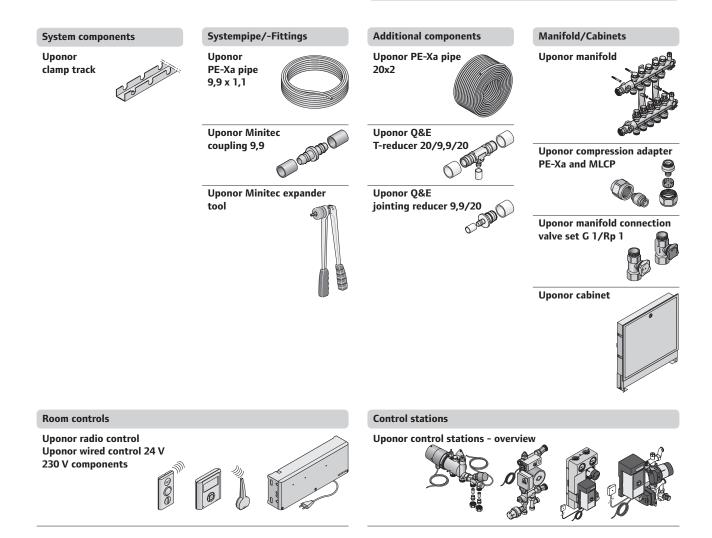
Item no.	d [mm]	Description	unit	
1025883	17	Uponor PE-Xa Q&E coupling 17-17 with two PEX rings	5	pcs
1008440	20	Uponor PE-Xa Q&E coupling 20-20 with two PEX rings	1	pcs

Uponor plaster ceiling cooling system

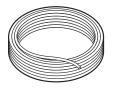


When it comes to managing room temperature with comfort and cost in mind, the Uponor plaster system is truly multitalented as it can be used in ceilings or walls and for cooling as well as heating.

- Minimum installation height
- A universal system for ceilings and walls mounting
- Very few, optimally interacting system components
- Choice of preference for decades Uponor PE-Xa pipe 9,9 x 1,1 mm
- Q&E fitting system for fast, economical installation
- Quick reaction time thanks to slim plaster coverage
- Saves energy thanks to optimum operating temperatures



Uponor Plaster Wall/Ceiling H/C - System components and accessories



Item no.

1005274

Uponor PE-Xa pipes

PE-Xa pipe with an oxygen diffusion barrier manufactured from peroxide cross-linked polyethylene (PE-Xa) using the Engel method complying with e.g. prENISO 15875 "Plastics piping systems for hot and cold water installations - Cross-linked polyethylene" with an oxygen diffusion barrier of EVOH (ethyl vinyl alcohol). Uponor pipes fulfil the requirements for oxygen diffusion resistance as per DIN 4726. Malfunction temperature 95°C. Design pressure 8,8 bar (at 70°C).

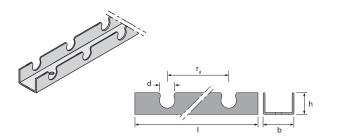
unit

120 m

240 m

480 m

1033024 9.9 1.1 120 0.047 120 m coil 1033026 9.9 1.1 240 0.047 Uponor eval	I
	PE-Xa pipe 9.9x1.1
240 m coil	PE-Xa pipe 9.9x1.1
1033025 9.9 1.1 480 0.047 Upponor eval 480 m coil	PE-Xa pipe 9.9x1.1



h [mm]

13

d [mm]

10

c/c [mm]

20

w [mm]

24

l [mm]

2500

Uponor clamp track 9.9

Self-adhesive U-profile strip made of recycled material, with integrated pipe holder for 9.9 x 1.1 mm Uponor PE-Xa pipes. Length of track: 2.5 m Width of track: 24 mm Space between pipe holders: 20 mm c/c Installation height with pipe: 13 mm

Description		unit		
Uponor clamp track 9.9 mm		25	m	



For connection of Uponor PE-Xa pipes, made of brass.

ltem no.	d [mm]	d1 [mm]	Description	unit	
1020518	9.9	20	Uponor PE-Xa Q&E jointing reducer 20 x 9.9 incl. 1 PEX ring 9.9 and 1 PEX ring 20	5	pcs

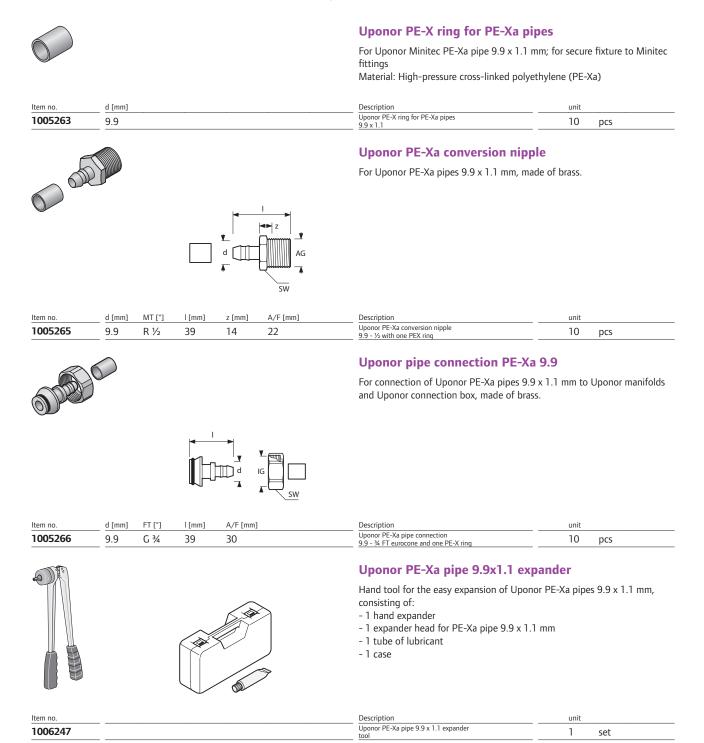


For connection of Uponor PE-Xa pipes, made of brass.

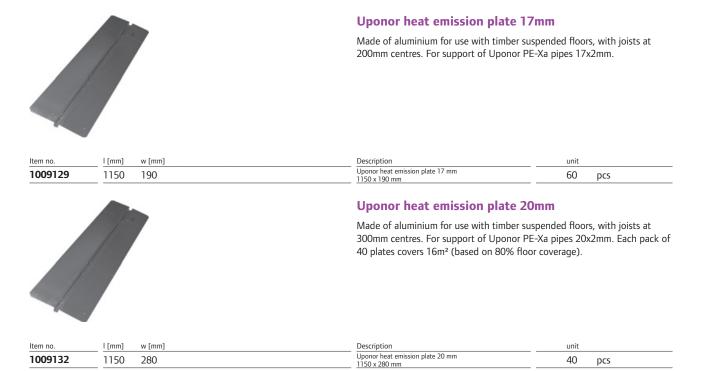
tem no.	d [mm]	d1 [mm]	d2 [mm]	Description	unit		
1020524	20	9.9	20	Uponor PE-Xa Q&E tee reducer 20 X 9.9 X 9.9 incl. 1 PEX ring 9.9 and 2 PEX rings 20	5 pcs		
				Uponor PE-Xa Q&E coupling 9	9.9		
	DO			For Uponor PE-Xa pipe 9.9 x 1.1 mm, consisting of: - 1 coupling - 2 PEX Q&E rings for secure connection Material: Coupling made in brass; PEX Q&E rings made in high-pressure cross-linked polyethylene			

Item no.	d [mm]	l [mm]	z [mm]	Description	unit	
1005264	9.9	34	4	Uponor PE-Xa Q&E coupling 9.9-9.9 with two PEX rings	10 pcs	

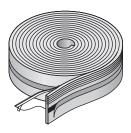
Uponor Plaster Wall/Ceiling H/C - System components and accessories



Uponor heat emission plate



Uponor underfloor heating accessories



Uponor edging strip 150x10

For installation between screed and adjacent building parts for floor constructions according to DIN 18560 and DIN EN 1264; with multiple tear perforation, laminated PE foil, self-adhesive sealing strips, particularly suitable for self-levelling screeds; bottom side adhesive for attachment to wall and exact installation in wall corners Material: Closed-cell polyethylene PE-LD Building material class: B2 Colour: blue

ltem no.	h [mm]	s [mm]	l [m]	colour [-]	Description	unit	
1000080	150	10	50	blue	Uponor edging strip 150x10 in length of 50 m	200 m	



Uponor edging strip 150x8

Edging strip conforming to DIN 18560, made of polyethylene with self-adhesive strip on outer face provides tight seal between edging strip and insulation. Length of roll: 50 m

ltem no.	h [mm]	s [mm]	l [m]	Description	unit
1000079	150	8	50	Uponor edging strip 150x8 in length of 50 m	200 m



l [mm]

300

w [mm]

80

s [mm]

 \bigcap

5

Item no.

1000082

Uponor joint profile 100x10

Self-adhesive clamp-on profile element made of hard PVC with polyethylene foam expansion strip, 10 mm thick, for the reliable separation of screed sections (e.g. in doorways), and to absorb expansion of screed. For expansion joints as per DIN 18560-2. Height: 100 mm Material thickness: 10 mm Length: 2 m

Item no.	h [mm]	s [mm]	l [m]	Description	unit	
1000081	100	10	2	Uponor joint profile/self-adhesive strip length 2 m, height 100mm, thickness 10mm	30	m



Made of PE-LD, with slit opening, for protection of pipes up to 20 mm in areas of expansion joints. Length: 300 mm

Description	unit
Uponor joint protection tube for pipes	30 pcs

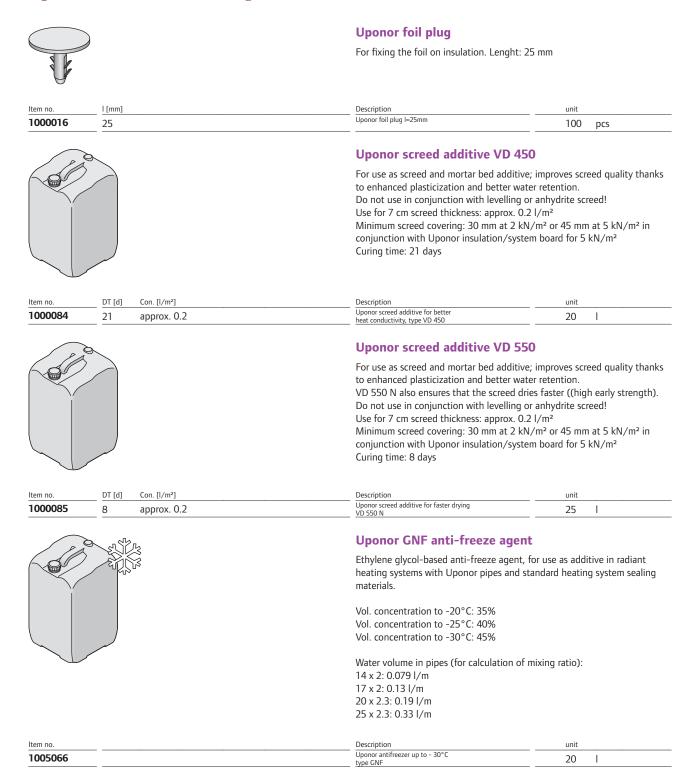


For installation on Uponor insulation or on standardised insulating material approved for the intended purpose for areas without stud foil. Prevents screed penetrating the underlying insulation. Dimensions: 4 m x 2.5 m Thickness: 0.2 mm

ltem no.	l [m]	w [m]	s [mm]	Description	unit	
1005049	60	1.25	~0.2	Uponor PE foil 0.2 mm thickness 60 x 1.25 m	75	m²

в

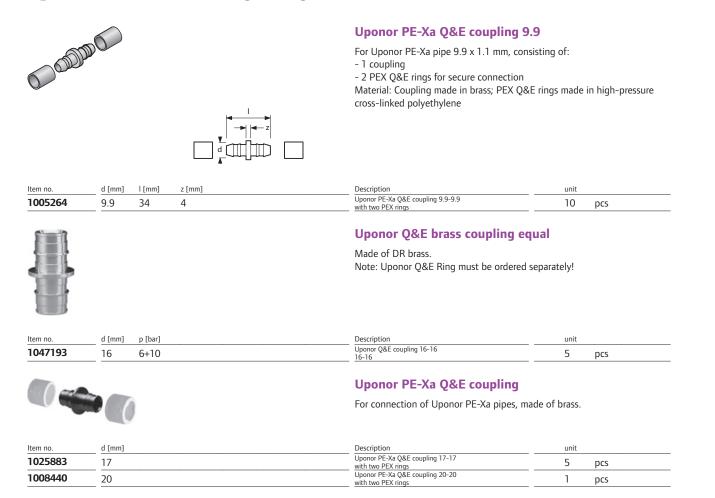
Uponor underfloor heating accessories



Uponor underfloor heating accessories

		with red marker end. The marker is s adhesive tape to the cover layer. The marker. A minimum distance from th heating pipe of 10 cm must be obse	e cover layer is not destroyed by the e measuring point to the nearest rved. oom; for areas larger than 50 m ² , more
Item no. 1000083	h [mm] 100	Description Uponor marking set height 100 mm	unit 10 pcs
		Uponor tape Tape for the sealed joining of Uponor roll device. Roll length 66m.	r insulation, applied with hand-held
ltem no.	l [m]	Description	unit
1000012	66	Uponor tape 50 mm	1 pcs

Uponor underfloor heating fittings



Uponor underfloor heating fittings

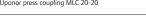


Uponor press coupling MLC up to 32

Made of tin-plated brass, with fixed press sleeve, stop ring, pressed identification, colour code and test safety. Press without bevel.

Item no.	d [mm]	Description	unit
1015154	14	Uponor press coupling MLC 14-14	10 pcs
1015164	16	Uponor press coupling MLC 16-16	10 pcs
1015187	20	Uponor press coupling MLC 20-20	10 pcs





Uponor coupling nipple

Made of tin-plated brass. Male thread acc.to DIN EN ISO 228-1.

Item no.	MT ["]	Description Uponor eurocone nipple MLC %MT-%MT	unit
1006641	3⁄4		10 pcs
-		Uponor PE-Xa conversion nip	ple
		For Uponor PE-Xa pipes 9.9 x 1.1 mm, n	nade of brass.
~ ⁰¹			
0	≪ ≫ 		
	* z ▼		
	SW		
Item no. 1005265	<u>d [mm] MT ["] I [mm] z [mm] A/F [mm]</u> 9.9 R 1⁄2 39 14 22	Description Uponor PE-Xa conversion nipple	unit 10 pcs
		9.9 - ½ with one PEX ring	
		Uponor PE-Xa Q&E jointing r	educer 20x9.9
		For connection of Uponor PE-Xa pipes, 1	made of brass.
Sol M			
0			
Item no.	d [mm] d1 [mm]	Description	unit
1020518	9.9 20	Uponor PE-Xa Q&E jointing reducer 20 x 9.9 incl. 1 PEX ring 9.9 and 1 PEX ring 20	5 pcs
		Uponor PE-Xa Q&E tee reduc	er 20x9.9x20
		For connection of Uponor PE-Xa pipes, i	made of brass.
	R - 28		
	WE		
\bigcirc	9		
ltem no.	d [mm] d1 [mm] d2 [mm]	Description	unit
1020524	20 9.9 20	Uponor PE-Xa Q&E tee reducer 20 X 9.9 X 9.9 incl. 1 PEX ring 9.9 and 2 PEX rings 20	5 pcs
\frown		Upopor DE V ring for DE Vo	vinos
$\langle \rangle$		Uponor PE-X ring for PE-Xa p	-
U		For Uponor Minitec PE-Xa pipe 9.9 x 1.1 fittings	mm; for secure fixture to Minitec
		Material: High-pressure cross-linked poly	yethylene (PE-Xa)
Itom no	d [mm]	Description	unit
Item no. 1005263	<u>d [mm]</u> 9.9	Description Uponor PE-X ring for PE-Xa pipes	unit 10 pcs
. 303203	J.J 	<u>9.9 x 1.1</u>	

Uponor underfloor heating fittings

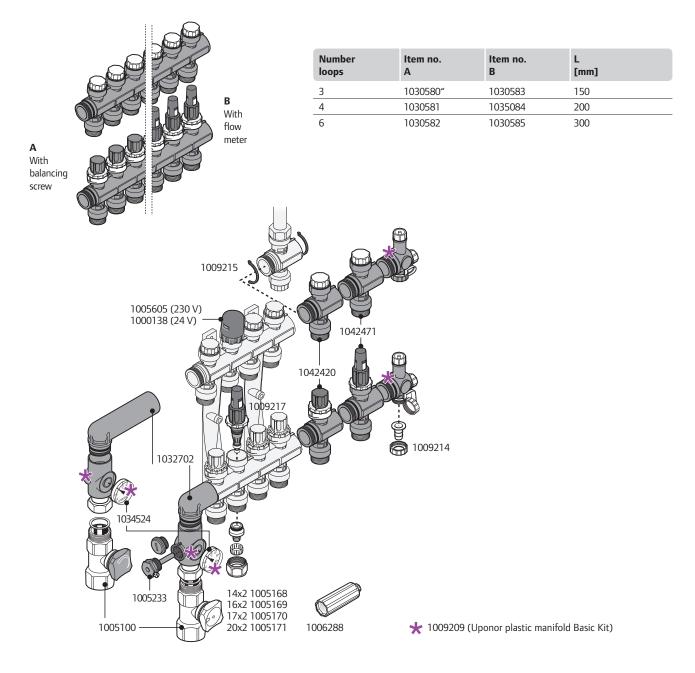


Uponor Q&E ring natural

Made of PE-X. Uponor Q&E rings natural intended for Uponor Q&E fittings. For PE-Xa pipe dimensions 16, 20, 25, 32, 40, 50 and 63 mm.

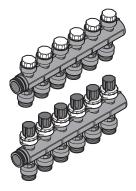
Item no.	d [mm]	colour [-]	p [bar]	Description	unit	
1042388	16	natural	6+10	Uponor Q&E ring natural with stop edge for Uponor PE-Xa dim 16 mm	20	pcs
1042836	20	natural	6+10	Uponor Q&E ring natural for Uponor PE-Xa dim 20 mm	20	pcs

Uponor modular plastic manifold



Manifold loops	2	3	4	5	6	7	8	9	10	11	12
1042420 Uponor plastic manifold single segment	2			1						1	
1030580 Uponor plastic manifold 3 way		1				1		1			
1030581 Uponor plastic manifold 4 way			1	1		1	2		1	1	
1030582 Uponor plastic manifold 6 way					1			1	1	1	2
1009209 Uponor plastic manifold basic kit	1	1	1	1	1	1	1	1	1	1	1

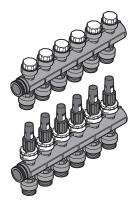
Uponor modular plastic manifolds



Uponor modular plastic manifold with balancing screw

Pack includes supply and return manifolds made of fibreglass reinforced polyamid. Heating loop connections $\frac{3}{4}$ MT euro-cone compatible with Uponor compression adapters. Spacing of individual outlets 50 mm. Manifolds can be joined to make the required number of ports. Uponor actuators can be mounted on the return manifold. In each flow manifold there are balancing valves for adjusting the supply in each loop. Max. operating temperature: 60° C; Max. operating pressure: 6 bar.

ltem no.	outlets	;[-] [mm]	Description	unit	
1030580	3	150	Uponor modular plastic manifold with balancing srew, 3 way	1	pcs
1030581	4	200	Uponor modular plastic manifold with balancing srew, 4 way	1	pcs
1030582	6	300	Uponor modular plastic manifold with balancing srew, 6 way	1	pcs



Uponor modular plastic manifold with flow meter

Pack includes supply and return manifolds made of fibreglass reinforced polyamid. Heating loop connections $\frac{3}{4}$ MT euro-cone compatible with Uponor compression adapters. Spacing of individual outlets 50 mm. Manifolds can be joined to make the required number of ports. Uponor actuators can be mounted on the return manifold. Supply manifold with adjustable and shut-off inserts (flow meter inspection window with scale of 0 - 4 l/min) for flow adjustment of individual heating loops. Max. operating temperature: 60° C; Max. operating pressure: 6 bar.

Item no.	outlets	;[-] [mm]	Description	unit	
1030583	3	150	Uponor modular plastic manifold with flow meter, 3 way	1 pcs	
1030584	4	200	Uponor modular plastic manifold with flow meter, 4 way	1 pcs	_
1030585	6	300	Uponor modular plastic manifold with flow meter. 6 way	1 pcs	

Uponor accessories for plastic manifolds



Uponor plastic manifold basic kit

For Uponor modular plastic manifold including brackets, flat sealing screw connection pieces with swivel nut, thermometer and end pieces with air vent, filling and draining tap and a by-pass.

J	ро	onor	Plastic	manifold	Basic	kit
-	1 *					

Description

set

unit

1

Item no.

1009209

I [mm]

150

63

AG

Uponor accessories for plastic manifolds



Item no. 1032702

Item no.

Item no.

1042471

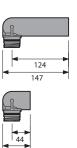
1042420

MT ["]

G ¾

MT ["]

G ¾



Uponor plastic manifold elbow connection set

For connection of supply/return pipes to Uponor modular plastic manifold from the bottom. Made of fibreglass reinforced polyamid. Max. operating temperature: 60°C; Max. operating pressure: 6 bar.

[Description		unit	
	Uponor plastic manifold elbow connection set for connection from below		1	set

Uponor Provario single segment kit

For Uponor plastic manifold with balancing screw for additional heating loop extension. Supply segment with regulating valve, return segment with thermostat upper section incl. cap for locking. Made of fibreglass reinforced polyamid.

Max. operating temperature: 60°C; Max. operating pressure: 6 bar.

Description	unit		
Uponor plastic manifold single segment set with balancing screw	1	set	

Uponor plastic manifold single segment set

For Uponor modular plastic manifold with topmeter for additional heating loop extension. Supply segment with adjustable and shut-off inserts (topmeter inspection window with scale of 0 - 4 l/min) for flow adjustment of individual heating loops. Return segment with thermostat upper section incl. cap for locking. Made of fibre-glass reinforced polyamid. Max. operating temperature: 60° C; Max. operating pressure: 6 bar.

Description	unit
Uponor plastic manifold single segment with flow meter	1 set

Uponor plastic manifold retaining ring set

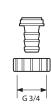
For connection of Uponor plastic manifold single segments to the manifold in case of heating loop connection from top and bottom.

ltem no.	Description	unit	
1009215	Uponor plastic manifold retaining ring set	1	set

120

Uponor accessories for plastic manifolds



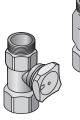


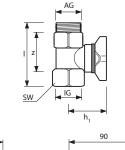
Uponor hose connection for plastic manifold

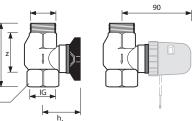
For connection of refill/drainage hose $\frac{1}{2}$ " to Uponor plastic manifold.

Description	unit		
Uponor hose connection for plastic manifold to refill and drainage valve	1 set		



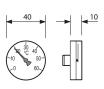




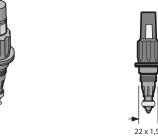


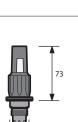
Item no.	l [mm]	h1 [mm]	z [mm]	MT ["]	FT ["]	A/F [mm]
1005100	80	50	45	G 1	Rp 1	38





Item no. 1034524





Uponor plastic manifold connection valve kit

For the hydraulic balancing and shut-off of the Uponor plastic manifold, consisting of:

- G 1/Rp 1 inlet control valve for the hydraulic balancing and independent shutt-off of the manifold, including hand wheel and display for settings/closing

kvs value: 5.4 m³/h

 - G 1/Rp 1 return valve for the shut-off of the manifold, including hand wheel and display for closing; adaptable for Uponor plastic manifold actuators.

kvs value: 6.4 m³/h

In conjunction with Uponor plastic manifold actuators, the kvs value is 4.8 $\mbox{m}^3/\mbox{h}.$

The connecting valve can be used to control individual zones.

Material: Housing made in brass, hand wheels made in polyamide Max. testy pressure: 10 bar (water)

Description	unit	
Uponor plastic manifold connection valve G-1/Rp 1	1 set	

Uponor thermometer for plastic manifold

For indication of the supply- and return temperature of the Uponor plastic manifold. For mounting at the connection pieces. Consisting of 2 Click-thermometer. Made of polycarbonate.

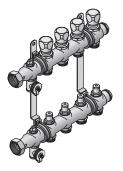
Description		unit		
Uponor click-thermometer 0-60°C for Uponor plastic manifolds		1	set	

Uponor flow meter for plastic manifold

For adjusting the water quantity of the individual heating loops in a range of 0 -4 I/min. Water quantity is indicated in the inspection window. With shut-off function. Made of fibre-glass reinforced polyamid.

Item no.	Description	unit
1009217	Uponor flow meter 0-41/min for Uponor plastic manifolds	1 pcs

Uponor stainless steel manifolds



Uponor stainless steel manifold with balancing screw

Manifold bar with flat-sealing screw connection and 1" FT with flat gasket, one side with air vent, filling and drain tap, revolvable for pipe connection and a 3^{4} " stop at the end. Heating loop connections 3^{4} " MT eurocone according to DIN V 3838 compatible with all Uponor compression adapters eurocone.

Spacing of individual outlets 50 mm.

Supply manifold with control valves, manual screws for preadjustment of valves by an allen key.

Return manifold with valves incl. cap for locking. Uponor actuators can be screwed directly on the return valves.

Fastener with sound-absorbing element included. Without ball valves and Uponor compression adapters.

Made of stainless steel.

Max. operating temperature: 60°C

Max. operating pressure: 6 bar.

ltem no.	outlets	[-] [mm]	Description	unit	
1013062	2	200	Uponor stainless steel UFH-manifold 1" with balancing screw, 2 way	1	pcs
1013063	3	255	Uponor stainless steel UFH-manifold 1" with balancing screw, 3 way	1	pcs
1013064	4	310	Uponor stainless steel UFH-manifold 1" with balancing screw, 4 way	1	pcs
1013065	5	365	Uponor stainless steel UFH-manifold 1" with balancing screw, 5 way	1	pcs
1013066	6	420	Uponor stainless steel UFH-manifold 1" with balancing screw, 6 way	1	pcs
1013067	7	475	Uponor stainless steel UFH-manifold 1" with balancing screw, 7 way	1	pcs
1013068	8	530	Uponor stainless steel UFH-manifold 1" with balancing screw, 8 way	1	pcs
1013069	9	585	Uponor stainless steel UFH-manifold 1" with balancing screw, 9 way	1	pcs
1013070	10	640	Uponor stainless steel UFH-manifold 1" with balancing screw, 10 way	1	pcs
1013071	11	695	Uponor stainless steel UFH-manifold 1" with balancing screw, 11 way	1	pcs
1013072	12	750	Uponor stainless steel UFH-manifold 1" with balancing screw, 12 way	1	pcs

Uponor stainless steel manifold with flow meter

Manifold bar with flat-sealing screw connection and 1" FT with flat gasket, one side with air vent, filling and drain tap, revolvable for pipe connection and a ¾" stop at the end. Heating loop connections ¾" MT eurocone according to DIN V 3838 compatible with all Uponor compression adapters eurocone.

Spacing of individual outlets 50 mm.

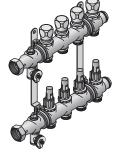
Supply manifold with adjustable and shut-off inserts (flow meter inspection window with scale of 0 - 4 l/min) for flow adjustment of individual heating loops. Return manifold with valves incl. cap for locking. Uponor actuators can be screwed directly on the return valves.

Fastener with sound-absorbing element included. Without ball valves and Uponor compression adapters.

Made of stainless steel.

Max. operating temperature: 60°C Max. operating pressure: 6 bar.

outlets [-] | [mm] Item no. Description unit Uponor stainless steel UEH-manifold 1 1013051 2 200 1 with flow meter, 2 way Uponor stainless steel UFH-manifold 1" with flow meter, 3 way pcs 1013052 3 255 1 pcs Uponor stainless steel UFH-manifold 1 1013053 1 4 310 pcs with flow meter, 4 way Uponor stainless steel UFH-manifold 1 with flow meter, 5 way Uponor stainless steel UFH-manifold 1 1013054 1 5 365 pcs 1013055 420 1 6 pcs with flow meter. 6 way Uponor stainless steel UFH-manifold 1 with flow meter, 7 way 1013056 7 475 1 pcs Uponor stainless steel UFH-manifold 1 1013057 8 530 1 pcs with flow meter, 8 way Upopor staipless steel UEH-manifold 1 1013058 1 9 585 pcs with flow meter, 9 way Uponor stainless steel UFH-manifold 1 1013059 10 640 1 pcs with flow meter, 10 way Uponor stainless steel UFH-manifold 1' 695 1013060 11 1 pcs with flow meter, 11 way Uponor stainless steel UFH-manifold 1' 1013061 12 750 1 pcs with flow meter, 12 way



Uponor manifold accessories



Item no.

Item no.

1005168

1057368

1005170

1057370

1005266

d [mm]

9.9

FT ["]

G ¾

FT ["]

G ¾

G ¾

G ¾

G ¾

d [mm]

14

16

17

20

l [mm]

ണ

A/F [mm]

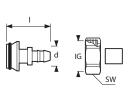
30

30

30

30

39



A/F [mm]

SW

SW

30

Uponor pipe connection PE-Xa 9.9

For connection of Uponor PE-Xa pipes 9.9 x 1.1 mm to Uponor manifolds and Uponor connection box, made of brass.

Description	unit
Uponor PE-Xa pipe connection 9.9 - ¾ FT eurocone and one PE-X ring	10 pcs

Uponor compression adapter

Compression adapter made of brass, for connection of Uponor PE-Xa pipes to manifolds. Female thread 34"" eurocone acc. to DIN EN ISO 228-1. Material: Brass

Description	unit	
Uponor PE-Xa compression adapter with eurocone, 14x2.0 x ¾ FT	10	pcs
Uponor PE-Xa compression adapter with eurocone, 16x1.8/2.0 x ¾ FT	10	pcs
Uponor PE-Xa compression adapter with eurocone, 17x2.0 x ¾ FT	10	pcs
Uponor PE-Xa compression adapter with eurocone, 20x1.9/2.0x ³ /k FT	10	pcs

Uponor plated compression adapter

Made of plated brass, for connection of Uponor PE-Xa pipes to manifolds. Female thread 3^{4} eurocone acc. to DIN EN ISO 228-1.

ltem no.	d [mm]	FT ["]	A/F [mm]	p [bar]	Description	unit	
1057441	16	G ¾	30	6	Uponor compression adapter S5.0 16x1.8/2.0x¾ Eurocone plated	10	pcs
1057442	20	G ¾	30	6	Uponor compression adapter S5.0 20x1.9/2.0x¾ Eurocone plated	10	pcs



Uponor compression adapter MLC

One-piece compression adapter made of brass, union nut nickel plated, inner sleeve made of PPSU and clamp ring made of PA. For connection of Uponor MLC pipes to manifolds. Female thread $\frac{1}{2}$ " and $\frac{3}{4}$ " eurocone acc. to DIN EN ISO 228-1.

ltem no.	d [mm]	FT ["]	Description	unit	
1013982	14	G¾	Uponor eurocone compr.adap. MLC 14-%FT	10	pcs
1013989	16	G ¾	Uponor eurocone compr.adap. MLC 16-%FT	10	pcs
1014004	20	G¾	Uponor eurocone compr.adap. MLC 20-¾FT	10	pcs

Uponor manifold accessories



Uponor pipe bend support



Uponor pipe bend support

Made of galvanized steel as bend support for the pipes in the manifold area.

Item no.	d [mm]	Description	unit
1009004	16	Uponor pipe bend support 14-16 mm	50 pcs
1033975	17-18	Uponor pipe bend support 17-18 mm	50 pcs
1009233	20	Uponor pipe bend support 20 mm	50 pcs



Uponor pipe bend support plastic

Made of impact resistant plastic to support 90° bends.

Item no. 1047000	d [mm] 9.9	Description Uponor pipe bend support plastic 9.9 mm	unit 50 pcs		
		Uponor pipe bend support p	lastic		
	$\mathbf{\tilde{>}}$	Made of impact resistant plastic as bend support 90° bends in the manifold area.			
ltem no.	d [mm]	Description	unit		
1000118	14-17	Uponor pipe bend support plastic 14-17 mm	50 pcs		
1000119	20	Uponor pipe bend support plastic	50 pcs		

<u>20 mm</u>

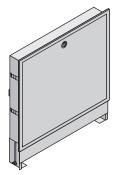
20

1000119

50

pcs

Uponor manifold cabinets



Manifold cabinet concealed version

For attachment of Uponor manifolds, Uponor controller and Uponor pump control stations on universal rail fixation incl. fixation set. Made of galvanized steel. All visible parts are powder coated in white colour (RAL 9010). Cabinet width (with frame): 555-950mm

Cabinet installation depth: 120-180mm Cabinet installation high: 820-910mm

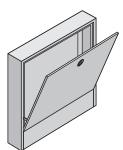
Item no.	w [mm]	h [mm]	Description	unit	
1046991	555	820-910	Uponor cabinet concealed version, UFH1 width 555mm, colour white	1	pcs
1046992	710	820-910	Uponor cabinet concealed version, UFH2 width 710mm, colour white	1	pcs
1046993	785	820-910	Uponor cabinet concealed version, UFH3 width 785mm, colour white	1	pcs
1046994	950	820-910	Uponor cabinet concealed version, UFH4 width 950mm, colour white	1	pcs



For attachment of Uponor manifolds, Uponor controller and Uponor pump control stations on universal rail fixation incl. fixation set. Made of galvanized steel. All visible parts are powder coated in white colour (RAL 9010). Cabinet width (with frame): 555-950mm

Cabinet installation depth: 160mm Cabinet installation high: 820mm

Item no.	w [mm]	h [mm]	Description	unit	
1046996	555	820	Uponor cabinet on-wall version, UFH1 width 555mm, colour white	1	pcs
1046997	710	820	Uponor cabinet on-wall version, UFH2 width 710mm, colour white	1	pcs
1046998	785	820	Uponor cabinet on-wall version, UFH3 width 785mm, colour white	1	pcs
1046999	950	820	Uponor cabinet on-wall version, UFH4 width 950mm, colour white	1	pcs

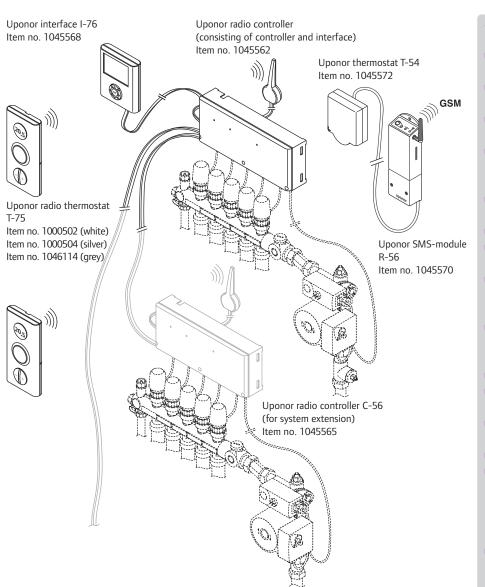


Uponor individual radio room temperature control with Dynamic Energy Management (DEM)

The Uponor individual radio room temperature control system with DEM has been developed on the basis of the existing individual radio room temperature control. Apart from the colour of the controller (previously white, now grey), there are many more differences between the two versions. The advanced system comes with a range of features that make installation even easier. Apart from the great energy efficiency during operation, fast installation and user-friendly operation that are standard features of all Uponor systems, the new k room temperature control makes

heating and cooling even more comfortable.

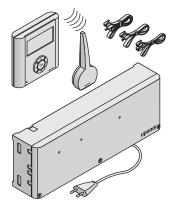
The automatic balancing function does away with time-consuming manual hydraulic balancing. In most cases, there is no need for recalculation of the valve settings, which is normally required after a change of the room layout or the floor covering. The heat distribution in the room is evaluated by a bespoke software solution. The relevant values are stored and the system is automatically balanced at regular intervals. This guarantees optimum energy distribution! The comfort setting prevents that heating surfaces become too cool when the room is heated with an alternative source (e.g. open fireplace). The supply diagnosis monitors the heat performance in all rooms and signals any insufficient or excess supply to the I-76 interface. The room bypass function is particularly suitable for systems with specific minimum flow requirements. Incorrectly assigned thermostats are automatically detected and rectified by the room check function.

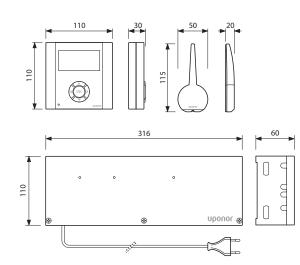


Your benefit

- Energy savings up to 12 % thanks to greater efficiency
- No need for manual hydraulic balancing
- High time saving during installation
- More accurate and faster control, up to 25% faster response time
- Higher comfort through improved heat distribution
- Easy to operate
- Reliable operation with minimum support
- No need for recalculation after change to heating circuit layout/size
- System not affected by subsequent change of floor covering
- Easy troubleshooting
- "Clean solution" for renovation
- Remote control via SMS connection possible
- Easy, well-tried handling
- Optional automatic switch over to heating-/ or cooling mode with the Uponor heating/cooling controller C-46
- Operation of up to three controller C-56 from one interface I-76

Uponor Radio control





EP/a [W]

>2

colour [-]

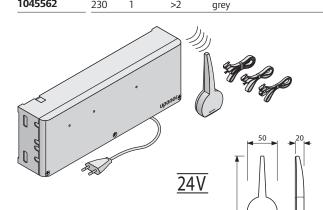
24V

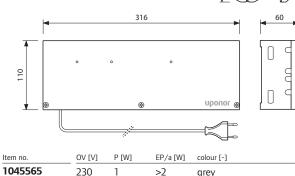
Item no. 1045562 OV [V]

230

P [W]

1





Uponor controller with interface C-56+I-76 radio

For receiving and transforming of radio signals from the thermostats, with integrated DEM functions

consisting of:

- Controller C-56 with - Electronic control
- Reception of max. 12 room-thermostats
- Connection of max. 14 actuators 24 Volt
- Heating/Cooling function switched by external contact
- Pump relay
- Valve exercise, pump exercise
- Interface I-76 with
- Display, back lighted, new look, blue full dot matrix
- Menu in English,

Integrated functions:

- Five temperature setback progams,
- Max/min temperature limitations,
- Holiday temperature
- Automatic summer/wintertime change
- Auto adapt function
- Room check function
- Room bypass function

- The Interface can control up to 3 controllers Accessories

External Antenna, cables for connections, mounting material

Mark of conformity: CE Operational voltage: 230 V / 50 Hz

Max. power input per actuator: 0,2 A Protection class: IP 30 (EN 60 529)

Colour: grey (RAL 7015)

Description	unit	
Uponor controller with interface C-56+I-76 radio, grey	1	set

Uponor controller C-56 radio

For receiving and transforming of radio signals from the thermostats, to use the DEM function with the I-76. consisting of:

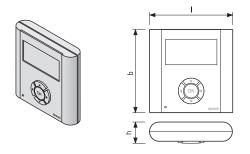
Controller C-56 with

- Electronic control
- Reception of max. 12 room-thermostats
- Connection of max. 14 actuators 24 Volt
- Heating/Cooling function switched by external contact - Pump relay
- Valve exercise, pump exercise
- Plastic color grey (RAL 7015)
- Protection rating IP 30
- Accessories

External Antenna, cables for connections, mounting material

	0V [V]	P [W]	EP/a [W]	colour [-]	Description	unit	
565	230	1	>2	grey	Uponor controller C-56 radio grey	1	pcs

Uponor Radio control



l [mm]

110

w [mm]

b

110

h [mm]

30

Uponor interface I-76

For combination with the controller C-56 to use the DEM function Interface I-76 with

- Display, back lighted, new look, blue full dot matrix
- Menu in English,
- Integrated functions:
- Five temperature setback progams,
- Max/min temperature limitations,
- Holiday modus
- Automatic summer/wintertime change
- Auto adapt function
- Room check function
- Room bypass function
- For controling of up to 3 controllers
- Protection class: IP 30 (EN 60 529)

Colour: grey (RAL 7015)

Description	unit
Uponor interface I-76	1 pcs
grey	i pes

Uponor thermostat display T-75 radio

Designed as a wireless single room temperature sensor, measuring the perceived room temperature and transmitting the values to the wireless base unit or wireless control module, with display showing the set and measured room temperature, consisting of:

Housing with

- Temperature programming buttons

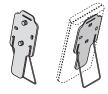
- Control electronics

Signal range: max. 30 m Signal frequency: 868 MHz

Power supply: Alkaline battery, service life approx. 5 years, size AAA Transmission power: approx. 1 mW Set temperature range: 5 - 30 °C

Colour: pure white (near RAL 9010) or silver (near RAL 9006)

ltem no.	l [mm]	w [mm]	h [mm]	colour [-]	Description	unit	
1000502	124	66	16	white	Uponor thermostat display T-75 radio white	1	pcs
1000504	124	66	16	silver	Uponor thermostat display T-75 radio silver	1	pcs
1046114	124	66	16	grey	Uponor thermostat display T-75 radio grey	1	pcs



Item no.

1045568

Uponor thermostat mounting kit

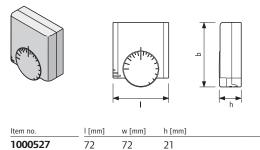
Accessory for wireless room sensor; use this kit to position and/or secure the room sensor anywhere in the room on the wall; with removal/child safety device, consisting of:

- Mounting plate with clip
- Bracket
- Adhesive pads for fixture to smooth surfaces (tiles, etc.)

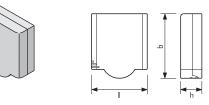
Colour: pure white (near RAL 9010) or silver (near RAL 9006) or grey

Item no.	colour [-]	Description	unit	
1000503	white	Uponor thermostat mounting kit for T-75 radio, white	1	pcs
1000505	silver	Uponor thermostat mounting kit for T-75 radio, silver	1	pcs
1046115	grey	Uponor thermostat mounting kit for T-75 radio, grey	1	pcs

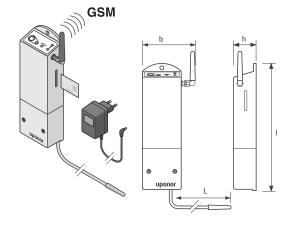
Uponor Radio control



1000527



Item no.	l [mm]	w [mm]	h [mm]	Description
1045572	72	72	21	Thermostat Public T-54 Radio



Uponor thermostat T-55 radio

Radio thermostat, including batteries and screws for mounting. Operating distance: max. 30 m. Set point range 6 – 30°C.

Description	unit
Uponor thermostat T-55 Radio	1 pcs

Uponor thermostat public T-54

Radio thermostat with inside setting, including batteries and screws for mounting. Operating distance: max. 30 m. Set point range 6 – 30°C. SMS module R-56 can be connected.

Floor sensor for min/max limitation of floor temperature can be connected.

Description	unit
Thermostat Public T-54 Radio	1 pcs

Uponor SMS module R-56

For connection with the thermostat T-54, to activate and control the system settings and monitor the actual room temperature in a reference room via SMS.

Item no.	l [mm]	w [mm]	h [mm]	Description	unit
1045570	185	75	28	Uponor SMS module R-56	1 pcs
				Uponor floor sensor	tate (radio and wired) with
C D		Ŋ		Floor sensor for connection to the thermos external input with sensor attached to 4m	
		-			
Item no.	d [mm]	l [mm]	l1 [mm]	Description	unit
1000538	5	4000	25	Uponor floor sensor for T-33, T-37	1 pcs

Uponor outdoor sensor

						Uponor outdoor sensor Outdoor sensor for connection to the Thermostats with e with Sensor box and seperate 5 m cable Has to be connected to thermostat T-54 Interface I-76 to display outdoor tempera - IP65 - Plastic color 7035	in a system wi	th
ltem no.	colour [-]					Description	unit	
1000529	light gr	ey				Uponor outdoor sensor for T-33, T-37, T-53	1	pcs
		» 	// // 15 m	W		Uponor installation cable Twisted pairs cable to connect: - Interface to Controller - Controller to Controller - Extension for Antenna cable		
Item no.	l [m]					Description Uponor installation cable	unit	
1000515	15					15m	1	pcs
						Uponor repeater To solve problems with radio transmission	ı, for on-wall ı	nounting.
ltem no.	OV [V]	P [W]	l [mm]	w [mm]	h [mm]	Description	unit	<u> </u>
1000518	230	<1	160	75	26	Uponor repeater 230 V	1	pcs

Uponor 24 V individual room climate control system

Wired individual room temperature control system with wide range of components.

The Uponor 24 V individual room climate control system consists of electronic components that have been specially devised for combination with each other (3 thermostat models, 2 controllers and optional timer). As soon as a thermostat detects that heating or cooling in a room must be adjusted, the controller operates the 24 V thermo drives accordingly. The three thermostat models available for this system can be freely combined with each other and are connected to the controllers through non-polarity 2-core cables (6-12 V) that cannot be confused.

Choose between two controller types

Depending on the size of the heating system and the specific requirements, you can install a 6-channel (C-33) or 12-channel (C-35) controller. The 12-channel controller caters for maximum 12 thermostats and 14 thermal actuators plus an optional timer I-36. The 12-channel C-35 controller also provides the option to switch over between heating and cooling.

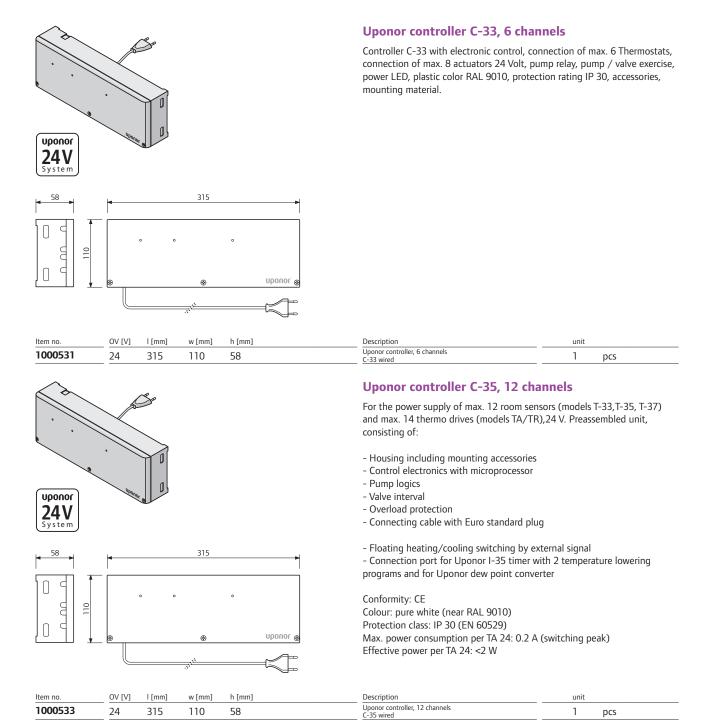
The device is wired in such a way that several thermal actuators can be combined with a single thermostat without the need for wired bridges. Thermostats and thermal actuators are connected to the controller through easy-to-use plug-in wiring terminals.

Important: The Uponor 24 V individual room climate control system

room climate control system is a stand-alone system of tailor-made components that cannot be replaced with third-party devices.

Your benefit

- Low-cost and safe thermostat wiring (6-12 V)
- Choice of three thermostat models
- Connection of optional floor sensors
- Room temperature lowering with Uponor timer and two timer zones
- Optional limitation of set point temperature settings
- Also suitable for surface cooling systems with dew point monitoring
- Optional automatic switching over between heating/cooling with Uponor heating/cooling controller C-46





l [mm]

uponor

24 V

System

81

w [mm]

81

h

1

Item no.

Item no.

1048010



0

Uponor Thermostat T-34

Wired flush mounted thermostat for room temperature control

Consisting of:

- Flush thermostat T34 with
 - Dial for settings
 - Sensor for air temperature
 - LED for indication
 - Two wires
 - Plastic color RAL 9010

General functions

- Setpoint range 6-30°C - Setting range can be limited mechanically by moving pins under the dial

h [mm]	Description	ι	unit	
14.7	Uponor thermostat flush T-34 wired		1	pcs

Uponor thermostat T-35

For connection to Uponor controller C-33 or C-35 with:

- Dial for settings

- Sensor for air temperature

- LED for indication
- Two wires
- Plastic color RAL 9010

Functions

Description Uponor thermostat

T-35 wired

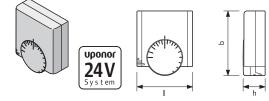
- Setpoint range 6-30°C, mark at 21°C
- Setting range can be limited mechanically by moving pins under the dial

unit

pcs

1

Item no.	l [mm]	w [mm]	h [mm]
1000535	72	72	21



Uponor thermostat T-37 for external sensor

For connection to Uponor controller C-33 or C-35 with:

- Dial for settings
- Sensor for air temperature
- LED for indication
- Terminal for Floor Sensor
- Two wires
- Plastic color RAL 9010

Functions

- Setpoint range 6-30°C, mark at 21°C
- Setting range can be limited mechanically by moving pins under the dial
- Internal setting for the Floor Senor, range print on circuit board

Item no.	l [mm]	w [mm]	h [mm]	Description		u	nit	
1000536	72	72	21	Uponor thermo T-37 wired	ostat f. external sensor	1	pcs	
				 Uponor	wall frame			
				 	e to cover standard wall ostats, size 90*90, plast			of

ltem no.	l [mm]	w [mm]	h [mm]	Description	unit
1000539	90	90	8	Uponor wall frame for T-33, T-35, T-37	1 pcs



Uponor digital thermostat T-36

- Consisting of: - Digital thermostat T36
- Options:
- Floor sensor (1000538) (sold seperately)
- General functions
- Room temperature regulation with internal sensor
- Room or remote temperature display
- Room temperature, Room and max/min floor temp (heating/cooling),
- remote sensor regulation selectable. Automatic or Manual balancing
- Comfort / ECO mode.
- Lock indication
- Standby/OFF mode
- Modes displayed on LCD: Heating, Cooling, ECO, Lock, Standby,
- Comfort/ECO, Auto/Man balancing.
- Displayed temperature calibration
- Window open function
- 3 button keyboard +/-/OK

Uponor digital thermostat T-36 wired

- Hidden reset

Description

it		
	ncc	

un

1

Uponor programmable digital thermostat T-38

Consisting of:

- Programmable digital thermostat T38

Options:

- Floor sensor (1000538) (sold seperately)

General functions

- Room or remote temperature display.
- Room temperature, Room and max/min floor temp (heating/cooling),
- remote sensor regulation selectable.
- Automatic or Manual balancing
- Comfort / ECO mode.
- Lock indication.
- Standby/OFF mode
- 4 Pre pre-recorded modifiable programs for working days / week-end / week
- Date and time, with summer/winter change, power failure proof
- Hidden reset
- Temporary or permanent override mode

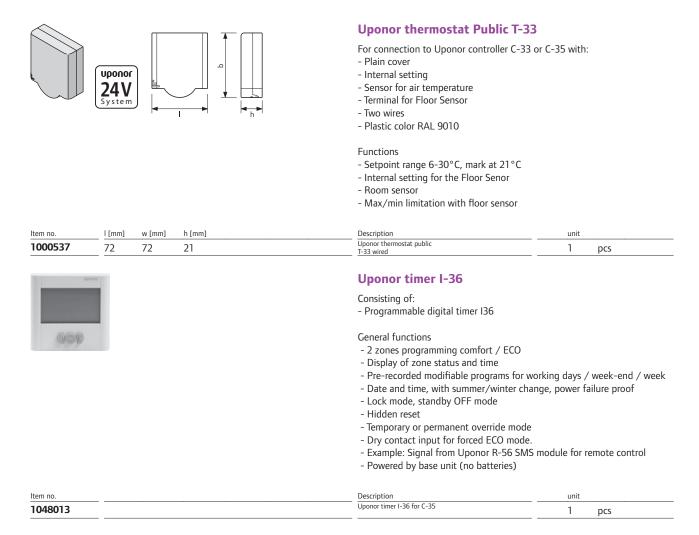
- Modes displayed on LCD: Heating, Cooling, Lock, Standby, Holiday,

- Comfort/ECO
- Displayed temperature calibration - Window open function
- Powered by base unit (no batteries)

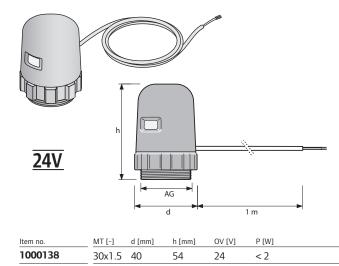
Item no.	Description	unit	
1048012	Uponor programmable digital thermostat T-38 wired	1	pcs

Item no. 1048011





Uponor control accessories



Uponor actuator 24V

24 V, with open/closed indicator, suitable for use with Uponor plastic manifolds in connection with Uponor radio or wired control system. Closes when idle. With all-round shower protection (IP 54). Suitable for operation at ambient temperature of up to 60° C. Threaded connector M 30 x 1.5 mm MT. Height: 54 mm.

Description	unit
Uponor actuator 24V for plastic manifold, 30 x 1.5 MT	1 pcs

Uponor control accessories

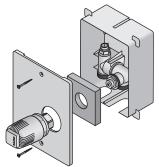


Uponor actuator 24V

24 V, with open/closed indicator, suitable for use with Uponor stainless steel manifolds in connection with Uponor control system. Closes when idle. With all-round shower protection (IP 54). Suitable for operation at ambient temperature of up to 60°C. Threaded connector M 30 x 1.5 mm FT.

Height: 56 mm

Item no.	FT m [-] d [mm]	h [mm]	0V [V]	P [W]	Description	unit
1013008	30x1.5 40	56	24	~ 2	Uponor actuator 24V for stainless steel manifold, 30 x 1,5 FT	1 pcs



Uponor return temperature limiter

For use in low-temperature range for combined underfloor/ radiator heating systems respectively wall-radiator heating systems for the regulation of the return temperature of small heating areas up to max. 15 m². Consists of installation casing with cover, fast-action air vent valve, thermostat for return temperature limiting set between 25 and 65 °C. Factory-made limitation of return temperature approx. 50°C. Suitable for Uponor compression adapter with ³/₄" eurocone. Dimensions: (H x W x D) 150 x 122 x 65 mm D after installation: 5 mm

Description	unit	
Uponor return temperature limiter	1	pcs



Item no 1013005

VE 230

Uponor connection box 230 V

Uponor connection box 230 V Typ EV 230 For easy connection of max. 6 Uponor 230 V room thermostats and max. 14 Uponor 230 V actuators. Pre-assembled unit suitable for installation in Uponor manifold cabinets. With overload protection by fuse 230V/F4A and overvoltage protection. Supplied with connection lead and Euro plug. Mark of conformity: CE Colour: white, RAL 9010 Protection class: IP 30 (EN 60 529) Max. power input per actuator: 0,2 A Active power per actuator: < 3 W Dimensions (H x W x D): 110 x 314 x 56

ltem no.	l [mm]	w [mm]	h [mm]	OV [V]	Description	unit	
1022314	310	90	65	230	Uponor connection box 230 V Typ EV 230		ocs

Uponor pump module

as extension of the Uponor connection box 230 V Typ EV 230. Features:

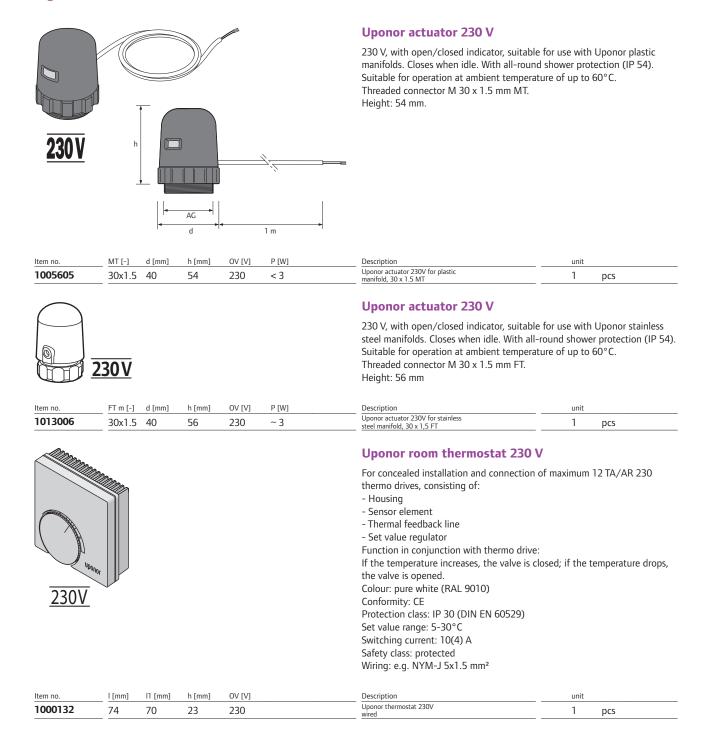
- For connecting to the Uponor connection box 230 V Typ EV 230

- Pump plugged in directly

- Pump logic (pump only runs if valve is open)
- Pump protection (pumps runs once daily)

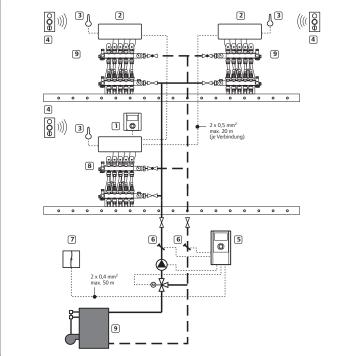
ltem no.	l [mm]	w [mm]	Description	unit
1022315	310	90	Uponor pump module for connection box 1022314	1 pcs

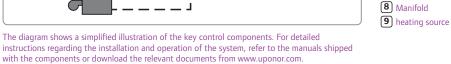
Uponor control accessories



Uponor Controls

Heating-supply temperature control with radio individual room temperature control





Functional description

The wireless room temperature sensor measures the operative room temperature. Through the wireless controller, the thermal actuators and manifold valves, it controls the heat release from the respective room heating surface. The wireless basic control unit allows for individual room temperature control. It is thus for example possible to assign different temperature lowering times to different rooms. Together with the remote control system, the C-46 heating controller adjusts the supply temperature depending on the actual weather conditions and the programmed heating times.

Components

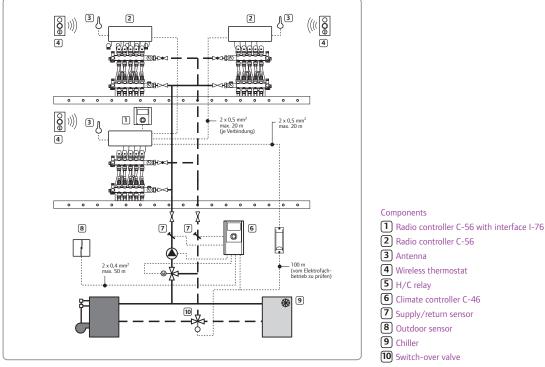
3 Antenna

2 Radio controller C-56

Wireless thermostat
Climate controller C-46
Supply/return sensor
Outdoor sensor

1 Radio controller C-56 with interface I-76

Uponor Controls



heating/cooling - supply temperature control with automatic H/C switchover valve powerd by boiler and chiller

The diagram shows a simplified illustration of the key control components. For detailed instructions regarding the installation and operation of the system, refer to the manuals shipped with the components or download the relevant documents from www.uponor.com.

Functional description

Depending on the outdoor and room temperature, the C-46 heating/cooling controller switches the switchover valve installed by the operator from the heating to the cooling source. The H/C switching module switches the C55/C56 wireless controller from heating to cooling mode, as the manifold valves must be opened as the room temperature increases (reverse operation of thermal actuators). For cooling, the relative air humidity in the room must also be measured, in addition to the room temperature. This is done through the humidity sensor H-56. It is important to prevent that the temperature drops below the dew point, as this would lead to condensation on cold system components. The C-46 heating/cooling controller regulates the cooling water supply temperature through the control valve to keep it above the dew point temperature. This ensures that the system components from the control valve downwards are protected against damage from condensation that tends to occur when the actual temperature drops below the dew point. Depending on the cooling water temperature, the system components from the chiller to the control valve must be insulated with diffusion-tight material.

Uponor climate controller



Uponor climate controller C-46

Weather compensator controlling supply water in heating. Can be integrated in the C-56 system via bus connection. Consisting of:

- Climate Controller C-46
- Wired Outdoor sensor
- Wired Supply sensor

Options:

- Antenna Module for connection to wireless Thermostats
- Wired Indoor sensor
- Wired Return sensor.

General functions

- Installation wizard gives easy and fast installation & set-up
- Quick menu system gives easy access to basic settings
- Integration with C-56 system via bus gives CC access to zone data from C-56.
- System information, $\mathsf{H}/\mathsf{C}\xspace$ state, ECO-mode etc are also shared on the bus.
- Automatic summer/wintertime change
- ECO/Comfort timer in CC if no I-76 in the system.
- Clock backup 8 hours
- Alarm at disturbance
- Pumpmanagement with internal fuse

- Supports 24V Thermal Actuator

- or 0-10V controlled rotating mixer motor,
- or variable speed pump
- General purpose input for Heating+Cooling switch
- or Snow detection
- General purpose output for Heating+Cooling command

or Dehumidification command

- or Error signalling
- Input indoor sensor
- Input outdoor sensor
- Input Supply Sensor
- Input Return Sensor
- Accessories

Outdoor sensor (5m cable), Supply sensor (4m cable), mounting material

ltem no.	l [mm]	w [mm]	h [mm]	Description	unit	
1047844	174	106	80	Uponor climate controller C-46	1	pcs

Uponor climate controller



Uponor climate controller C-46 extended

Weather compensator controlling supply water in heating + cooling Can be integrated in the C-56 system via bus connection.

Consisting of:

- Climate Controller C-46
- Antenna
- Wireless Humidity Sensor H-56
- Wired Outdoor sensor
- Wired Supply sensor

Options:

- Wired Indoor sensor
- Wired Return sensor
- Additional 5 RH-sensors

General functions

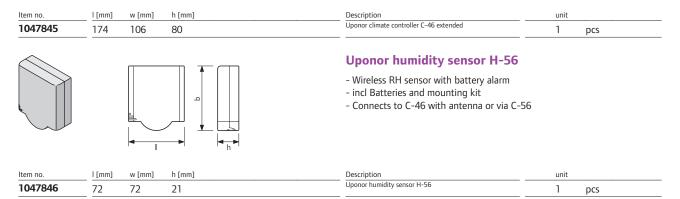
- Installation wizard gives easy and fast installation & set-up
- Quick menu system gives easy access to basic settings
- Integration with C-56 system via bus gives CC access to zone data from C-56.
- System information, H/C-state, ECO-mode etc are also shared on the bus.
- Automatic summer/wintertime change
- ECO/Comfort timer in CC if no I-76 in the system.
- Clock backup 8 hours
- Alarm at disturbance
- Pumpmanagement with internal fuse
- Supports 24V Thermal Actuator
- or 0-10V controlled rotating mixer motor,
- or variable speed pump
- General purpose input for Heating+Cooling switch
- or Snow detection
 - General purpose output for Heating+Cooling command
 - or Dehumidification command
 - or Error signalling
 - Input indoor sensor
- Input outdoor sensor
- Input supply sensor
- Input return sensor

Humidity Sensor H-56:

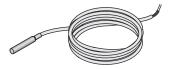
- Wireless RH sensor with battery alarm
- incl Batteries and mounting kit
- Connects to C-46 with antenna or via C-56

Accessories

Outdoor sensor (5m cable), Supply sensor (4m cable), mounting material , 3m Antenna cable



Uponor climate controller



Uponor supply or return sensor for C-46

- For connection directly to C-46
- Sensor with 4m wire.

Note: Return sensor only needed for average temperature control

For automatic heating/cooling switchover on external signal.

unit

pcs

1

Item no.	Description	unit
1047847	Uponor supply or return sensor for C-46	1 pcs
	Uponor outdoor or indoor s	sensor for C-46



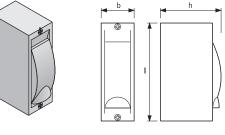


Description Uponor outdoor or indoor sensor

Uponor relay H/C, 24 V

- Additional connection wire needed.





ltem no.	OV [V]	l [mm]	w [mm]	h [mm]	Description	unit	
1000516	24	160	50	95	Uponor relay H/C 24 V	1	pcs
1000517	230	160	50	95	Uponor relay H/C 230 V	1	pcs

Uponor Mixer Motor 24V

For mounting on a mixing valve and used in combination with the C-46. Including a 24V thermal actuator. Signal ranges from 0-10V. Externally powerd.

Item no.	Description	unit
1002356	Uponor Mixer motor 24V with 0-10V signal	1 pcs
	Uponor Wall Power Supply	



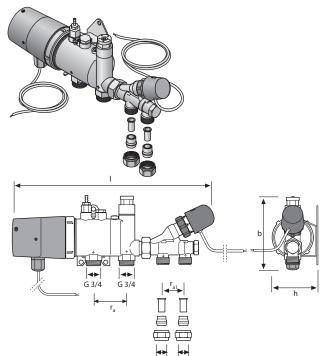
230V/24V Power supply with Euro-plug for 0-10V controlled mixer motor.

Item no.	Description	unit
1048763	Uponor Power supply 230V/24V for C-46 mixer motor	1 pcs

Uponor control stations for heating/cooling

UFH systems	Minitec	Siccus	Tecto	Self attaching system	Tacker & Clamp track	Pipe positioning panel	Classic
RS2 Uponor room control station RS 2 up to 2 kW							
Unit set 6 Uponor constant tempera- ture control unit set 6 up to 6 kW							
Push 23 Uponor pump group up to 10 kW							
MPG 10 Uponor pump group 3 to 10 kW with controller							
Unit set type 1 Uponor pump group up to 12 kW	Some Some		S Mar Our	A CONTRACT	and some	A CONT	
CPG 15 Uponor central pump group 3 to 15 kW with controller							

Uponor control stations



Uponor room control station RS 2

Pumpgroup for control of UFH in single rooms, with brass-housing, bracket for front-or backside installation, integrated pump grundfos UP15-14B, venting screw, secondary max.- limiter 25-55°C, balancing valve, actuator 230V,

1-3 kW max. 90° primary, max. 55° secondary, max. 10 bar valve kvs 1,25 m³/h Pump 15-40 for 0,1-0,45 3/h 1,2-03, m, 230V, 30W,

connection: secondary loop 34"" eurocone

primary valves with clampconnection for CU-Pipe 15mm Pump needs 230V pump power supply with external switch.

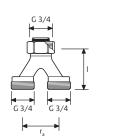
connectible to electrical thermostats no. 1000132

calculation example for RI,B 0,05m²K/W (tiles)

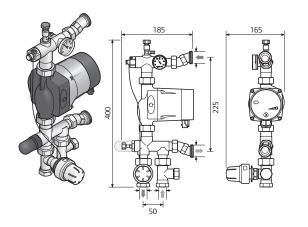
pipe 9,9x1,1	100mm	2 loops a'	60m, =2x 6m ²	0,96kW
pipe 14x2	150mm	2loops a'	$60m = 2x 9m^2$	1,8 kW
pipe 17x2	150mm	2loops a'	$90m = 2x14m^2$	2,8 kW
pipe 20x2,0	150mm	2loops a'	$105m = 2x16m^2$	3,2 kW

Item no.	Q [kW]	l [mm]	w [mm]	h [mm]	c/c [mm]	c/c1 [mm]
1005576	2	360	145	80	60	40





Item no. l [mm] c/c [mm] 1005675 50 40



Description	unit
Uponor Room control unit RS 2 up to 2 kW with actuator 230V FT	1 pcs

Uponor branch connection

For extension of RS 2 room control station to 2 heating circuits; direct connection of heating circuit G ¾ fitting with Euro cone Each kit includes 2 fittings. Material: Brass

Description	unit	
Uponor branch connection for connection of two loops to Uponor RS 2	1 set	

Uponor Push 23

Pumpgroup with thermostat and pump energy efficiency class A,

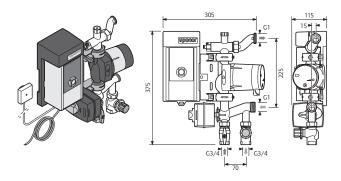
Thermostat with capillary sensor 20-55°C for supply temp., Pump Grundfos Alpha2L 15-60 0,1-2,4 m³/h, H: 4-0,9 m supply thermostat valve kvs 0,9 m³/h return balancing valve kvs 2,0 m³/h secondary connections G1A for connection to uponor UFHC manifolds,

10 kW

max. 90° primary, max. 55° secondary, max. 10 bar

Item no.	Description	unit
1046870	Uponor push 23 A, pump and mixing group for constant temperature control	1 pcs

Uponor control stations



Uponor Manifold Pump Group MPG 10

Pumpgroup for connection to Uponor UFHC-manifolds, installation with manifolds on-wall or in cabinets, pre-mounted with supply temperature control C-46 with integrated interface to uponor single room control C-56

3-way-mixing valve, motor drive kvs 4,0 pump energy efficiency class A (Grundfos alpha2L 25-60) 0,1 - 2,5 m³/h H: 6,0-1 m proportional pressure control

primary ballvalves, connection Rp1 (FT) secondary connection G1A (MT) supplytemperature sensor outdoor temperature sensor (install. on buildingsite)

3-10 kW

max. 90° primary, max. 60° secondary, max. 10 bar

Description	unit
Uponor Manifold Pump Group MPG 10 with controller	1 pcs

Uponor Central Pump group CPG 15

Pumpgroup for installation in boiler rooms or on-wall with Uponor UFHC-manifolds, pre-mounted with supply temperature control C-46 with integrated interface to Uponor single room control C-56

3-way-mixing valve, motor drive kvs 6,3 pump energy efficiency class A (Grundfos alpha2L 25-60) 0,1 - 2,5 m³/h H: 6,0-1 m proportional pressure control

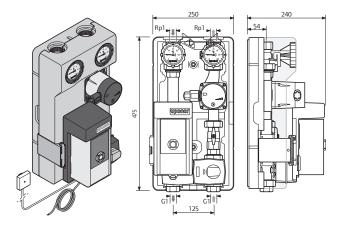
primary ball valves, connection Rp1 (FT) secondary connection G1A (MT) supply temperature sensor outdoor temperature sensor (install. on buildingsite)

3-15 kW

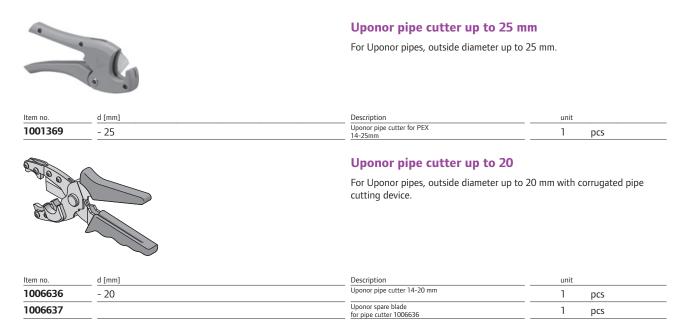
max. 90° primary, max. 60° secondary, max. 10 bar

Item no.	Description	unit
1048782	Uponor Central Pump group CPG 15 with controller	1 pcs

Item no. 1048780



Uponor cutting tools



Uponor bending tools

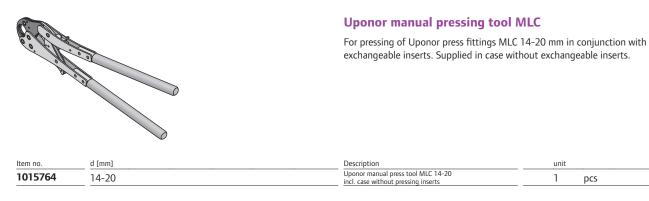


Uponor outside bending spring MLC

Special bending spring for Uponor MLC pipe.

Item no.	d [mm]	Description	unit	
1006639	14	Uponor bending spring outside MLC 14	1	pcs
1006640	16	Uponor bending spring outside MLC 16	1	pcs
1013790	18	Uponor bending spring outside MLC 18	1	pcs

Uponor pressing tools



Uponor pressing tools



Uponor manual pressing tool inserts MLC

For inserting into the manual pressing tool for pressing the Uponor press fittings MLCP 14/16/18/20 mm.

Item no.	d [mm]	Description	unit	
1015776	14	Uponor manual press tool insert MLC 14	1	set
1015777	16	Uponor manual press tool insert MLC 16	1	set
1015780	20	Uponor manual press tool insert MLC 20	1	set



Uponor press tool electric UP 75

Supplied in plastic case for the 230 V mains connection, without pressing jaws. Range of application up to 110 mm. Technical Specifications: Weight of the pressing tool: 3.30 kg Nominal voltage: 230 V DC / 50 Hz Nominal capacity: 200 Watt For dimensions: up to 110 mm Press power: ca. 32 kN Press duration: ca. 7 sec.

Item no.	d [mm]	OV [V]	Description	unit	
1007082	- 110	230	Uponor electric pressing tool UP 75 EL without pressing jaws	1	pcs

Uponor Q&E expander tools



Item no. 1006887

Uponor Q&E manual expander tool

Q&E manual expander tool without heads. To be used with manual heads.

Description	unit		
Uponor Q&E manual tool without heads	1	pcs	_
Uponor PE-Xa pipe 9.9x1.1 exp	ander		

Hand tool for the easy expansion of Uponor PE-Xa pipes 9.9 x 1.1 mm, consisting of:

- 1 hand expander

- 1 expander head for PE-Xa pipe 9.9 x 1.1 mm
- 1 tube of lubricant
- 1 case

ltem no.	Description	unit	
1006247	Uponor PE-Xa pipe 9.9 x 1.1 expander tool	1 set	

Uponor Q&E expander tools



Uponor Q&E heads

For use with Q&E hand and battery-powered expander Application class: 2+5 / 6 bar

ltem no.	d [mm]	s [mm]	Description	unit	
1006250	9.9	1.1	Uponor head 9.9	1	pcs
1004015	17	2.0	Uponor head 17	1	pcs



Uponor Q&E heads S 5.0

Q&E head for S5.0 pipes and S5.0 fittings.

All heads without marking "H" in the description are designed for the use with the manual and battery tool.

All heads with "H" marking are designed for the use with the battery and hydraulic tool.

Item no.	d [mm]	s [mm]	Type [-]	Description	unit	
1001372	16	2.0	16x2	Uponor head 16	1	pcs
1001373	20	2.0	20x2	Uponor head 20-2.0	1	pcs

Uponor special tools



Uponor polystyrene cutter tool for lightweight system

For cutting of individual pipe curves and guides. And also for the smooth cutting to size of polystyrene items. 230 V connection.

Item no.	OV [V]	Description	unit
1006290	230	Uponor polystyrene cutting tool for lightweight system	1 pcs

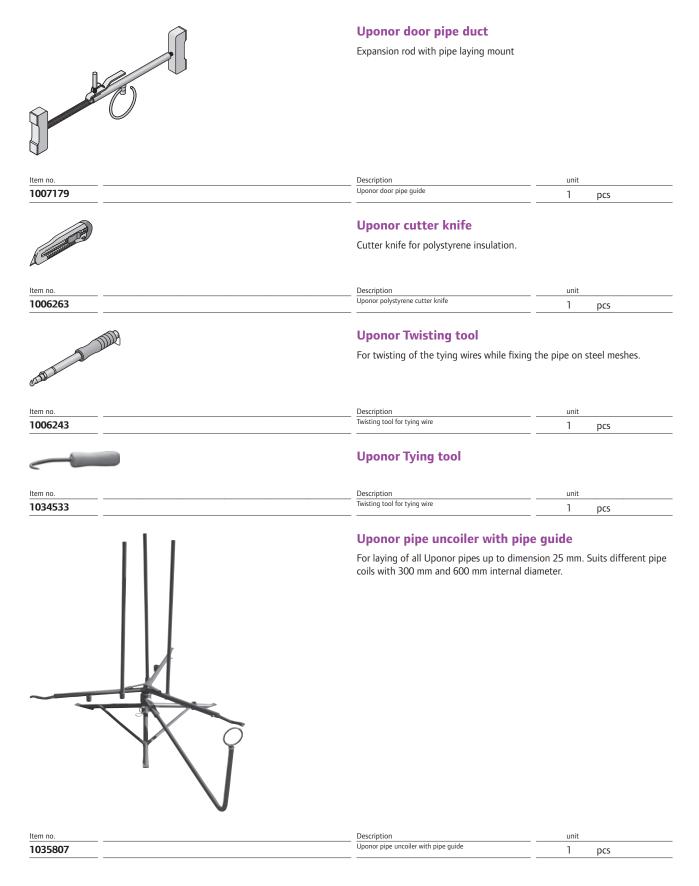


Uponor stapler

High-precision, wear-proof tool for pinning with staples in magazines, with curved magazine.

Item no.	Description	unit
1000141	Uponor stapler	1 pcs

Uponor special tools



Uponor special tools

	Uponor manual roller For sticking down of insulation sections and edges, takes a roll of tape.			
ltem no.	Description	unit		
1000142	Uponor manual roller	1 pcs		
ρ	Uponor ring spanner wrench			
	For swivel nut of the Uponor compression a	dapters		
Item no A/F [mm]	Description	unit		
1006265 30	Uponor ring spanner wrench for wrench size 30 mm	1 pcs		
	Uponor plastic manifold valve t For mounting and de-mounting the valves of			
Item no.	Description	unit		
1009216	Uponor plastic manifold valve tool	1 pcs		
	Uponor cutting aid			
	For the easy cutting of Uponor pipe fixing s	system panels.		
Item no.	Description	unit		
1016724	Uponor cutting tool for pipe positioning panel 14-16mm with insulation	1 pcs		

International sales and delivery terms

1 Interpretation

Hereinafter buyer ("Buyer") means an entity purchasing goods and services ("Goods") from the Uponor Group company ("Supplier") or whose order for the Goods is accepted by the Supplier.

2 Basis of the sale

- 2.1 The Supplier shall sell and supply the Goods to the Buyer subject to these terms and conditions ("Conditions"), which shall govern the contract ("Contract") for the sale of the Goods provided by the Supplier hereunder to the exclusion of any other terms and conditions.
- 2.2 No variation to these Conditions shall be binding unless agreed in writing by an authorised representative of the Supplier. Conditions shall include any special terms and conditions agreed in writing by the Supplier and the Buyer; any special terms shall prevail.

3 Orders and specifications

- 3.1 No order submitted by the Buyer is accepted by the Supplier unless confirmed in writing by the Supplier's authorised representative or delivery of the Goods by the Supplier.
- 3.2 The quantity, quality and description of and any specification for the Goods are those set out in the Supplier's quotation or the Buyer's order (to the extent accepted by the Supplier).
- 3.3 The Supplier may make changes to the specification of the Goods in order to conform with any statutory or EC requirements or if changes do not materially affect Goods quality or performance.
- 3.4 All drawings, designs, specifications and other information provided by the Supplier are confidential and all intellectual property rights in respect of them remain vested in the Supplier and shall not pass to the Buyer.

4 Price of Goods

- 4.1 The price of the Goods shall be the price specified in separate written agreement or, if none, on the Supplier's order acknowledgement or, if none, on the Supplier's quotation or, if none, on the Supplier's price list. All prices quoted are valid for 14 days only or until earlier acceptance by the Buyer.
- 4.2 The Supplier may vary the price at any time before delivery to reflect any change in the cost beyond the control of the Supplier (e.g. foreign exchange, costs of labour, materials or other costs of manufacture), any change in delivery dates, quantities or specifications for the Goods which is requested by the Buver.

4.3 All prices of the Goods are given on EXW, Incoterms 2000, basis. Prices exclude value added tax and other taxes and duties as well as any charges for transport, packaging and insurance.

5 Terms of payment

- 5.1 The Buyer shall pay the invoice (in full without any set off, deduction or counterclaim) in Euros, unless the Supplier specifies otherwise, other to the Supplier's bank account specified in the invoice within 14 days from the date of the invoice.
- 5.2 The Supplier is entitled to charge 16 % p.a. interest on the delayed payments.

6 Delivery and Performance

- 6.1 Term of delivery shall be EXW, Incoterms 2000.
- 6.2 Any dates quoted for delivery of the Goods are approximate only and the Supplier shall not be liable for any delay in delivery of the Goods unless being in delay more than two weeks from the agreed approximate delivery date and having received the Buyer's written notification.
- 6.3 If the Supplier fails to deliver the Goods for a reason not beyond the Supplier's control and not due to the Buyer, the Supplier shall pay to the Buyer a sum equal to 1% price of the delayed delivery for each week in delay up to maximum amount of 5% of the price of the delayed or non-delivered Goods, provided that the Buyer claims such amount within thirty days from the original date of delivery. This shall be Buyer's only and exclusive remedy in case of delay in delivery or non-delivery.
- 6.4 If the Buyer fails to take delivery of the Goods or fails to give the Supplier adequate delivery instructions then, without prejudice to any other right or remedy available to the Supplier, the Supplier may store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage and/or sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) account to the Buyer for the excess over the price under the Contract or charge the Buyer for any shortfall below the price under the Contract.
- 6.5 The Buyer shall comply with all laws governing the importation of the Goods into the country of destination.

International sales and delivery terms

7 Risk and property

- 7.1 Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery. The Buyer should insure the Goods accordingly.
- 7.2 The property in the Goods shall pass to the Buyer upon the payment in full of the price of the Goods.
- 7.3 Until the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Supplier's fiduciary agent, and shall keep the Goods separate and properly stored, protected and insured and identified as the Supplier's property, and shall not be entitled to dispose of the Goods.
- 7.4 Until such time as the property in the Goods passes to the Buyer, the Supplier may at any time require the Buyer to deliver up the Goods to the Supplier and, if the Buyer fails to do so forthwith, enter upon any premises of the Buyer or any third party where the Goods are stored and repossess the Goods.

8 Liability

- 8.1 The Buyer shall inspect the Goods upon the delivery. Any claim for any defect in the quality or condition of the Goods shall be notified in writing to the Supplier within eight days of delivery or, where the defect was not apparent, of discovery of the defect, but, in any event, within twelve months of delivery.
- 8.2 The Supplier does not warrant accuracy or otherwise of any design, drawing, specification, instructions, or information or advice it provides in relation to the Goods. All warranties in relation to the Goods whether express or implied are excluded to the fullest extent permitted by law including but not limited to warranties with regard to fitness for the purpose and merchantability.
- 8.3 In case of defective Goods, the Supplier may, at its option, replace or repair the Goods free of charge or refund the price of the Goods, but the Supplier shall have no further liability to the Buyer.
- 8.4 Under no circumstances the Supplier shall be liable to the Buyer for loss of contracts, profits, revenue, business, or other indirect or consequential loss howsoever caused.
- 8.5 The Supplier's entire liability under the Contract shall not exceed the price of the Goods which are the subject of the claim by the Buyer.

9 Insolvency of Buyer

9.1 Without prejudice to any other right or remedy available to the Supplier, the Supplier may cancel the Contract or suspend any further deliveries without any liability to the Buyer, if: (I) the Buyer is in breach of a payment to the Supplier or any other company within the Uponor Group; (II) makes any voluntary arrangement with its creditors or becomes bankrupt or goes into liquidation; or (III) the Buyer ceases, or threatens to cease, to carry on business; or (IV) the Supplier reasonably believes that any of the foregoing events is about to occur in relation to the Buyer and notifies the Buyer accordingly.

10 Packing

- 10.1 If the Supplier notifies that packing materials are returnable, the Buyer shall return them at its expense within three months of the delivery. Where not returnable, the Buyer will dispose of all packing in accordance with the applicable regulations.
- 10.2 The Supplier shall use reasonable endeavours to ensure, where necessary, the appropriateness of packing before despatch, but the Supplier shall not be liable for any damage to or loss of Goods between despatch from the Supplier and delivery in accordance with this Contract.

11 General

- 11.1 No waiver by the Supplier of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.
- 11.2 If any provision of the Contract is held to be invalid or unenforceable the validity of the other provisions of the Contract shall not be affected.
- 11.3 The Contract shall be governed by and construed in accordance with the laws of Sweden excluding UN Convention of International Sale of Goods.
- 11.4 Any dispute, controversy or claim arising out of or in connection with this contract shall be finally settled in accordance with the Rules of the Arbitration Institute of the Stockholm Chamber of Commerce. The arbitral tribunal shall be composed a sole arbitrator. The arbitration shall take place in Stockholm and the language shall be English.
- 11.5 Without prejudice to clause 11.4 above, the Supplier reserves the right, at its own choice, to sue the Buyer at the Buyer's general place of jurisdiction.

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