

**b MELTEX**



**Flexible Pre-insulated Pipes**

Meltex pre-insulated pipes has been manufactured and sold for more than 20 years to Finland, Greenland and other Nordic countries.



# Flexible pre-insulated pipes

Since 1995, more than 1.7 million metres of flexible MX-Arctiflex-, MX-Radiflex and MX-Saniflex pipe systems have been manufactured and delivered to customers in Finland and the other Nordic countries.

## MX-Arctiflex

A thermally insulated pressure pipe with a self-regulating or standard-resistance heat tracer cable. The maximum assembly length for a self-regulating heat tracer cable with a single power supply is 100 m. A standard-resistance cable enables assembly lengths of up to several hundred metres with a single power supply. Also available without a heat tracer cable.

**Applications:** As a water pipe or pressure drain in locations with a risk of freezing. Without a heat tracer cable, the pipe is also an excellent fit for geothermal heating systems.

**Materials:** PE pressure pipe Ø 25-110 mm, pressure class PN 10 (1.0 MPa), cross-linked PEX foam insulation, flexible PE casing pipe Ø 70-200 mm.

**Accessories:** Electrical cable connection and end kit, pipe fittings, end cap, branching chambers.



## MX-4-Flex PN 6 / PN 10

A four-pipe thermal duct element for heating pipes and domestic water. Thanks to the four-pipe structure, the pre-insulated pipe system can be installed in a smaller space with less effort.

**Materials:** PEX-A domestic water pipes (Sani) Ø 28 mm + 22 mm. Oxygen diffusion protected PEX-A heating water pipes (Radi) 2 x 25 mm or 2 x 32 mm. Cross-linked PEX foam insulation, flexible PE casing pipe Ø 160 mm.

**Accessories:** Pipe fittings, branching chambers.



## MX-Radiflex and MX-Saniflex

Thermally insulated, cross-linked PEX-A pipes. Single- or twin-flow pipe elements. The PEX-A flow pipe has excellent thermal properties. Thermoflex pipe systems have high chemical resistance and are corrosion-free.

**Applications:** Heating and domestic water pipe systems outside buildings. Heating and domestic water pipe systems for blocks of flats, terraced houses, detached houses and farms. Also well suited for industrial applications thanks to its high chemical resistance.

**MX-Radiflex for heating water:** Oxygen diffusion protected, cross-linked red PEX-A pipe Ø 25-110 mm, pressure class PN 6 (0.6 MPa), continuous operation temperature 90 °C, cross-linked PEX foam insulation, flexible PE casing pipe Ø 110-200 mm.

**MX-Saniflex for domestic water:** Cross-linked white PEX-A pipe Ø 22-90 mm, pressure class PN 10 (1.0 MPa), continuous operation temperature 70 °C (peak temperatures up to 95 °C), cross-linked PEX foam insulation, flexible PE casing pipe Ø 110-200 mm.

**Accessories:** Pipe fittings, end cap, branching chambers.

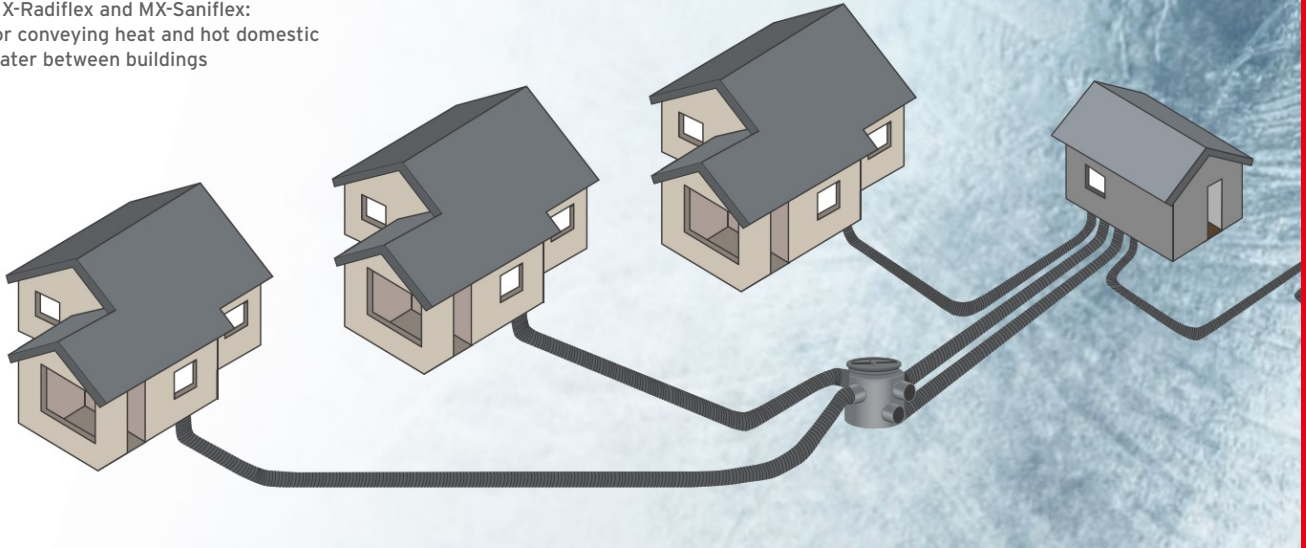


- Easy to install and handle
- Durable materials
- Sold in specific lengths
- Extensive applications





MX-Radiflex and MX-Saniflex:  
for conveying heat and hot domestic  
water between buildings



## A high-quality, durable structure

The cross-linked, closed-cell PEX foam insulation provides the pipes with high thermal insulation (0.037 W/mK) and a flexible and durable structure. The PEX foam quickly restores its shape after deformation, and the closed-cell structure prevents the absorption of water. The pipes are easy to install and handle, thanks to their flexibility. The pipe can be installed in long sections, easily going around obstacles without making unnecessary joints. As the PEX foam insulation is not fastened to the casing or flow pipe, thermal expansion of the pipe causes no problems. The structure ensures that the pipe remains straight after disassembly, and also easily withstands installation in sub-zero temperatures.

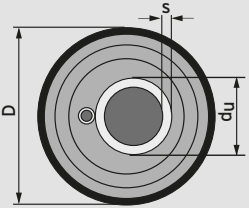
The corrugated casing pipe protects the flow pipe and provides high ring stiffness. The durable pre-insulated pipes can be installed at shallow depths, decreasing the need for earth-moving work.

## Installation

Pre-installed pipes must not be handled at temperatures below -15 °C, and the coils must be unwound by rotating. When unwinding the coil, you should also check the pipe condition after transport and handling. The pipe installation pit must be underlaid with fine earth, and the use of drain pipes for the pit is recommended.

After successful pressure testing of the pipe system, the space around the pipe should be filled with fine earth. Mechanical packing of earth must not be started before there is at least 0.3 m of earth on top of the pipe. The recommended minimum installation depth is 0.5 m. For underpassing roads, the pipe system must be installed in a casing pipe or the load must be distributed using concrete slabs.

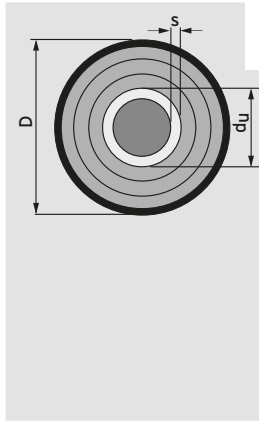
### MX-Arctiflex



Size du x s / D (mm)	HVAC number		Max. coil length (m) *	Weight without heat tracer cable (kg/m)	Bending radius (mm)
	With heat tracer cable	Without heat tracer cable			
25 x 2,3 / 75	1842099	1843525	200	0,7	450
32 x 3,0 / 75	1842100	1843532	200	0,8	500
40 x 3,7 / 75	1842101	1843540	200	1,0	550
25 x 2,3 / 110	1843025	1843525	200	1,1	450
32 x 2,9 / 110	1843032	1843532	200	1,2	580
40 x 3,7 / 110	1843040	1843540	200	1,4	720
50 x 4,6 / 160	1843050	1843550	100	2,3	900
63 x 3,8 / 160	1843064	1843564	100	2,5	1140
75 x 4,5 / 200	1843070	1843570	100	3,2	1350
90 x 5,4 / 200	1842102	1842104	100	3,6	1620
110 x 8,1 / 200	1842103	1842105	100	4,7	1980

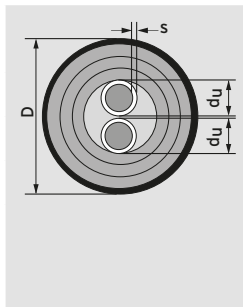
\*Without the heating cable, it is also possible to deliver the pipe in 200 m coils when the protective pipe diameter is 110 mm.

### MX-Radiflex Single



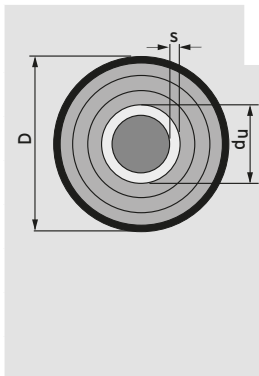
Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
25 x 2,3 / 110	3011604	200	1,0	350
32 x 2,9 / 110	3011606	200	1,1	400
40 x 3,7 / 110	3011608	200	1,3	400
50 x 4,6 / 160	3011610	100	2,3	500
63 x 5,8 / 160	3011614	100	2,7	600
75 x 6,8 / 200	3011616	100	3,5	800
90 x 8,2 / 200	3018012	100	4,1	1200
110 x 10,0 / 200	3018013	100	5,0	1200

### MX-Radiflex Twin



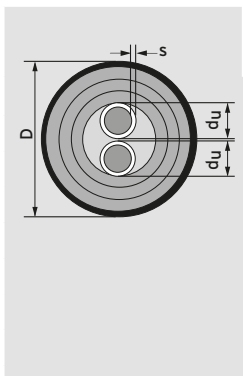
Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
2 x 25 x 2,3 / 160	3011654	100	2,1	500
2 x 32 x 2,9 / 160	3011656	100	2,2	600
2 x 40 x 3,7 / 160	3011658	100	2,5	800
2 x 50 x 4,6 / 200	3011660	100	3,4	1000
2 x 63 x 5,8 / 200	3018014	100	4,1	1200

### MX-Saniflex Single



Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
22 x 3,0 / 110	3011502	200	1,0	350
28 x 4,0 / 110	3011504	200	1,1	350
32 x 4,4 / 110	3011506	200	1,2	400
40 x 5,5 / 110	3011508	200	1,4	400
50 x 6,9 / 160	3011510	100	2,6	500
63 x 8,7 / 160	3011514	100	3,1	700
75 x 10,9 / 200	3011516	100	4,2	900

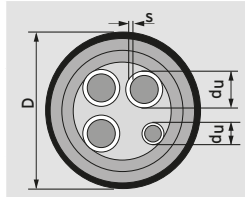
### MX-Saniflex Twin



Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
22 x 3,0 + 22 x 3,0 / 160	3018015	100	2,1	500
28 x 4,0 + 22 x 3,0 / 160	3011554	100	2,2	600
28 x 4,0 + 28 x 4,0 / 160	3018016	100	2,3	600
32 x 4,4 + 22 x 3,0 / 160	3011556	100	2,3	600
32 x 4,4 + 28 x 4,0 / 160	3011557	100	2,4	800
32 x 4,4 + 32 x 4,4 / 160	3018017	100	2,5	800
40 x 5,5 + 22 x 3,0 / 160	3018018	100	2,5	800
40 x 5,5 + 28 x 4,0 / 160	3011558	100	2,6	800
40 x 5,5 + 32 x 4,4 / 160	3011559	100	2,7	900
40 x 5,5 + 40 x 5,5 / 160	3018019	100	2,9	900
50 x 6,9 + 22 x 3,0 / 160	3018020	100	2,8	900
50 x 6,9 + 28 x 4,0 / 160	3011561	100	2,9	900
50 x 6,9 + 32 x 4,4 / 160	3011560	100	3,0	900
50 x 6,9 + 40 x 5,5 / 200	3011562	100	3,7	1000
50 x 6,9 + 50 x 6,9 / 200	3011563	100	4,0	1000

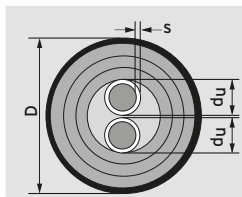


### MX-4-Flex PN 6 / PN 10



Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
2 x 25 x 2,3 / 28 x 4,0 + 22 x 3,0 / 160	3011665	100	2,5	500
2 x 32 x 2,9 / 28 x 4,0 + 22 x 3,0 / 160	3011670	100	2,7	600
2 x 32 x 2,9 / 32 x 4,4 + 22 x 3,0 / 160	3011675	100	2,8	600

### MX-Geothermal heat transfer pipe



Size du x s / D (mm)	HVAC number	Max. coil length (m)	Weight (kg/m)	Bending radius (mm)
40 x 2,4 / 75 PN10	3018021	200 m	0,8	550
50 x 4,6 / 110 PN10	3018022	200 m	1,4	720
63 x 3,8 / 110 PN10	3018023	200 m	1,5	900
90 x 5,4 / 160 PN10	3018024	100 m	3	1350



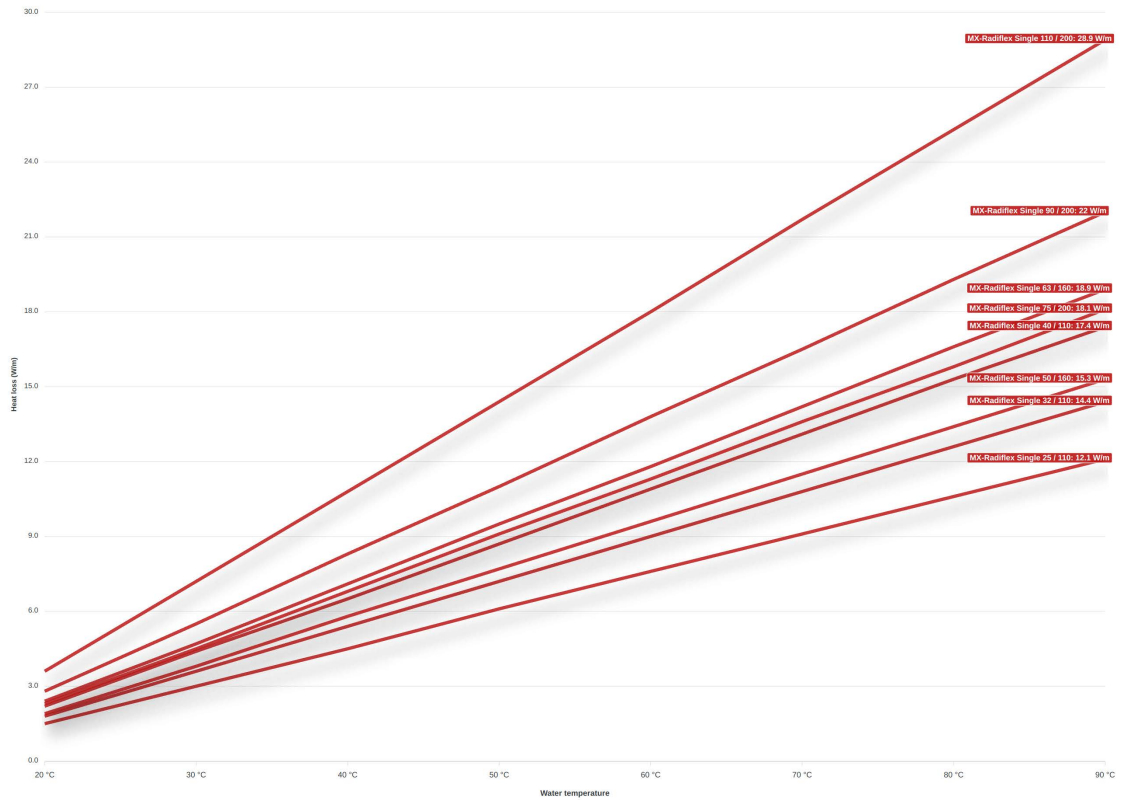


## Flexible Pre-insulated Pipes heat loss

The values are for pre-insulated pipes. Outside temperature: 10 °C, Coverage depth: 1m, Soil thermal conductivity: 2,4 W/mK

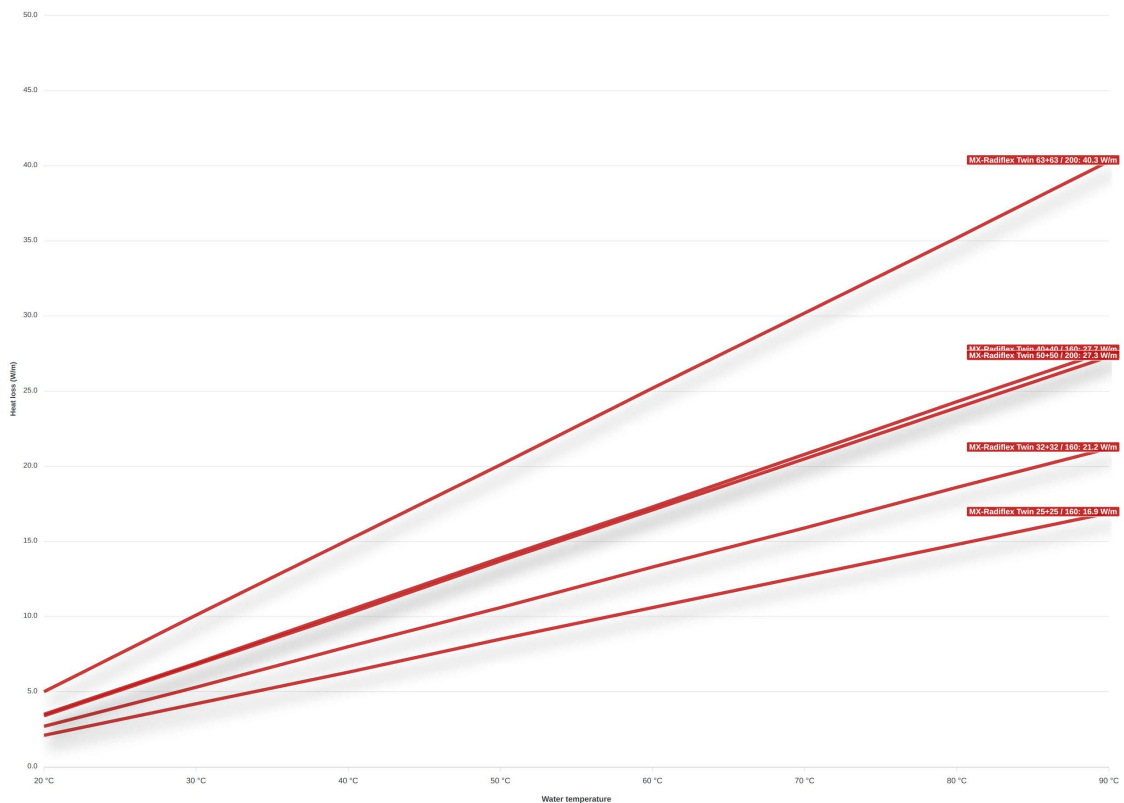
### Heat loss: MX-Radiflex Single

Heat loss: Coverage depth: 1 m, Soil temperature: 10 °C, Soil thermal conductivity: 2.4 W/mK



### Heat loss: MX-Radiflex Twin

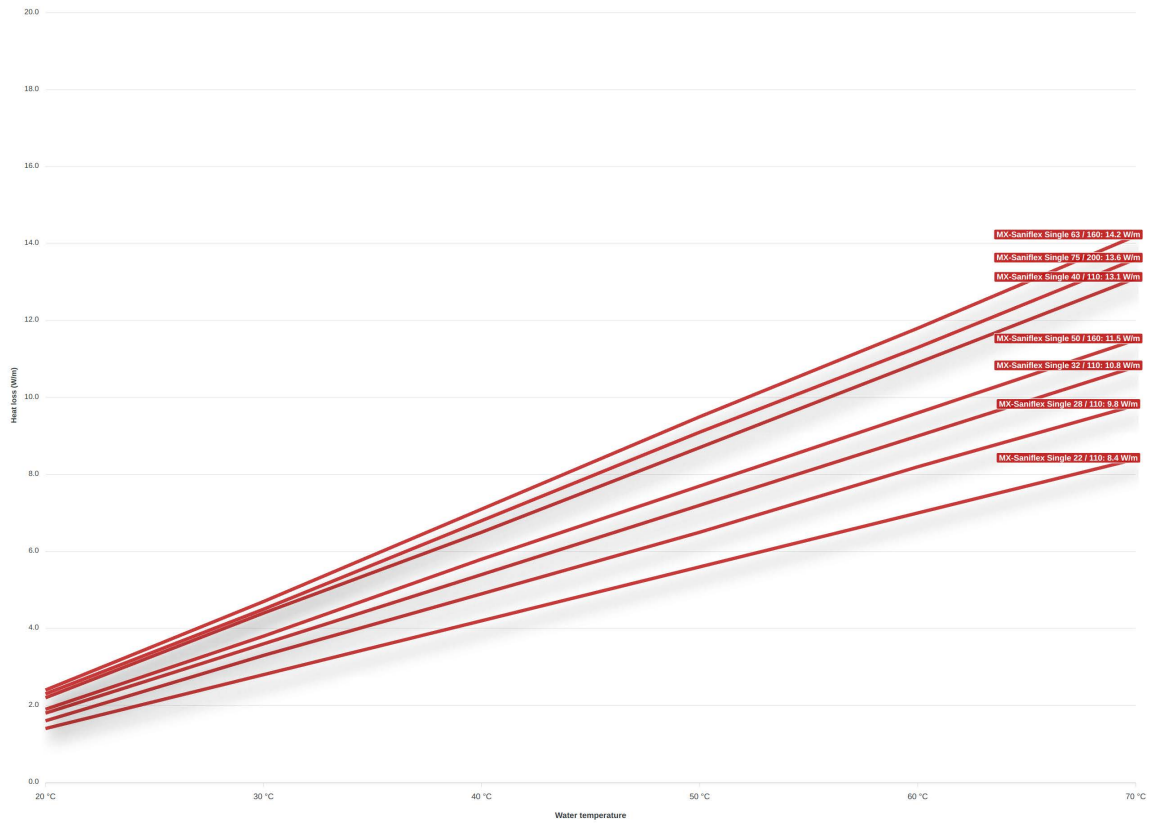
Heat loss: Coverage depth: 1 m, Soil temperature: 10 °C, Soil thermal conductivity: 2.4 W/mK





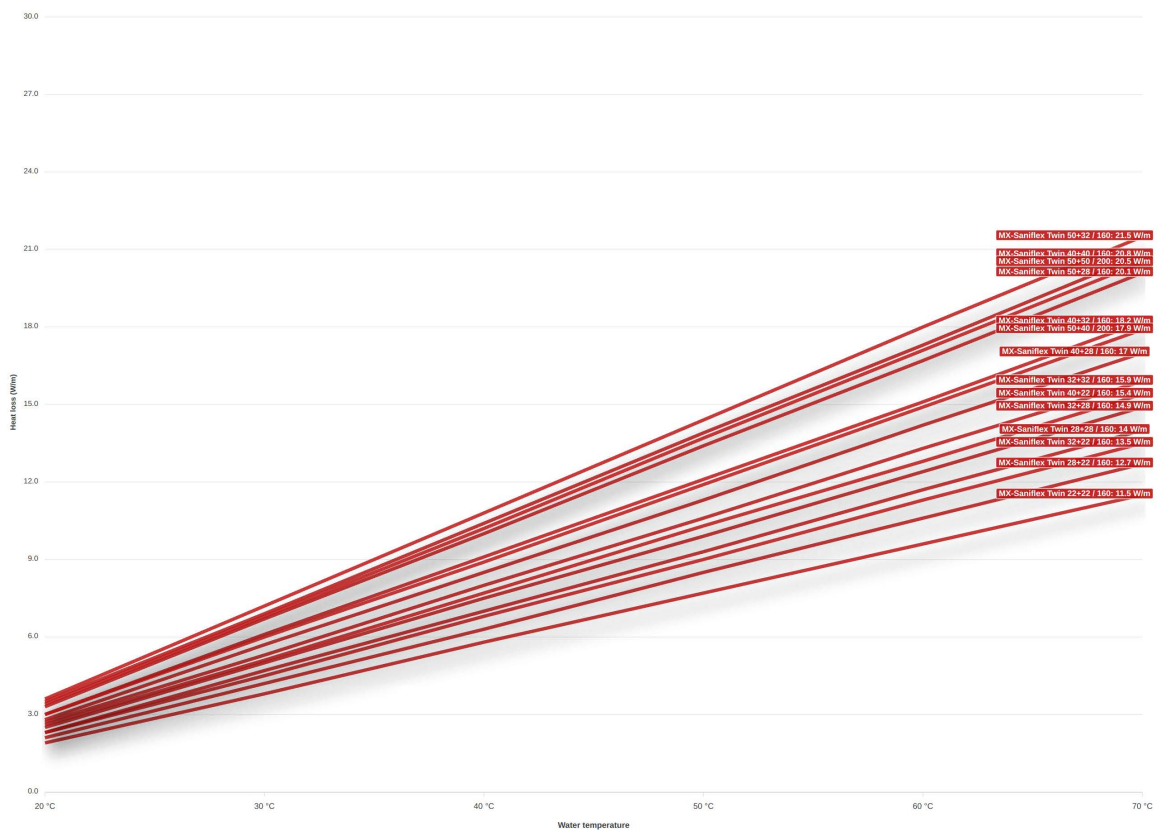
### Heat loss: MX-Saniflex Single

Heat loss: Coverage depth: 1 m, Soil temperature: 10 °C, Soil thermal conductivity: 2.4 W/mK



### Heat loss: MX-Saniflex Twin

Heat loss: Coverage depth: 1 m, Soil temperature: 10 °C, Soil thermal conductivity: 2.4 W/mK

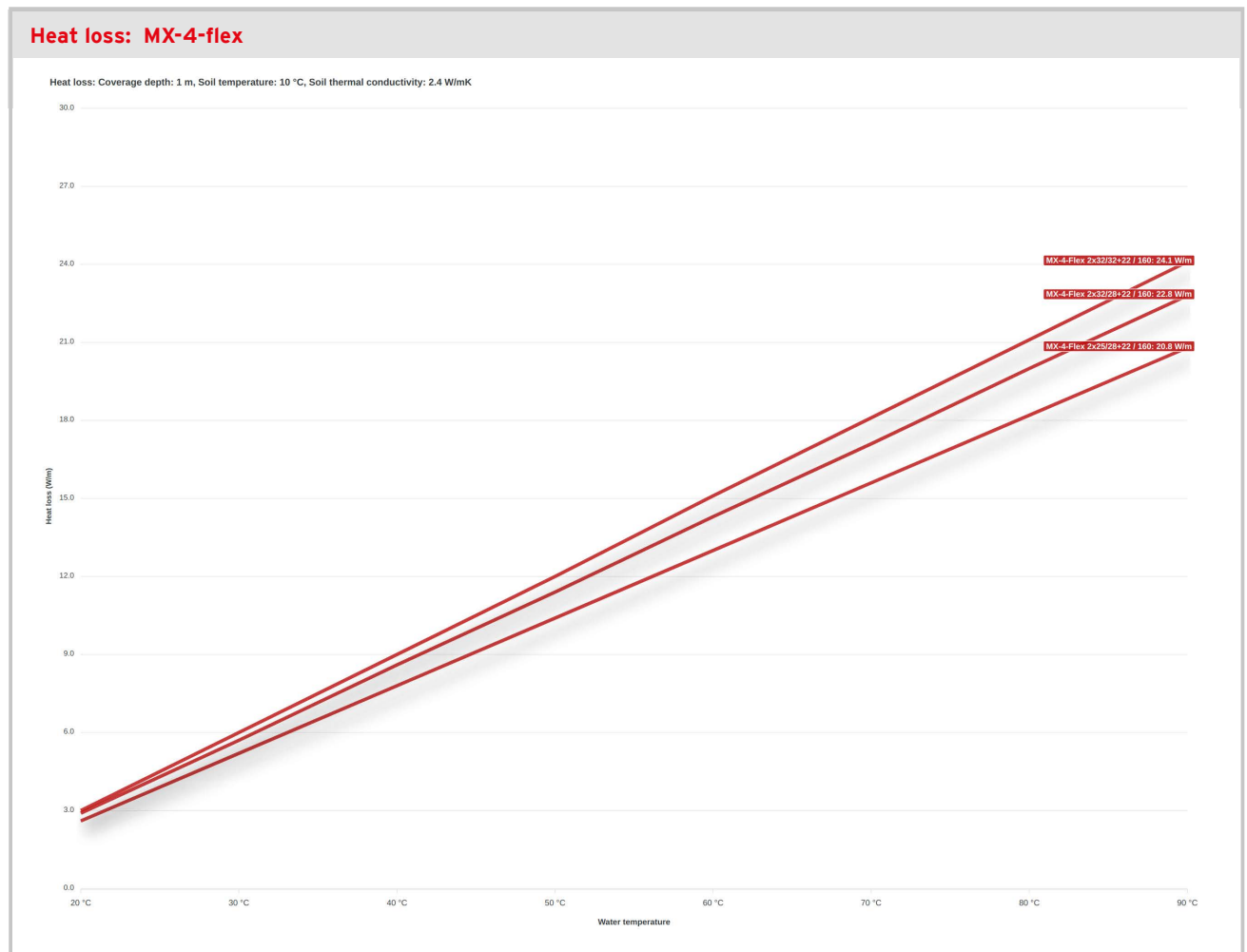






## Flexible Pre-insulated Pipes heat loss

The values are for pre-insulated pipes. Outside temperature: 10 °C, Coverage depth: 1m, Soil thermal conductivity: 2,4 W/mK



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