

PRODUCT DATA SHEET

Double heating

Hyper flexible, pre-insulated piping system, combining both the flow and the return medium pipes in the same jacket pipe, primarily intended for the transport of heating water in buried distribution networks.

The medium pipes are made from cross-linked polyethylene PE-Xa with an orange coloured oxygen-diffusion barrier for the flow line and a blue coloured one for the return. The colour code enables easy identification of flow and return during installation, even with mounted dust or shrink end caps.

The multilayer thermal insulation is made from cross-linked, microcellular polyethylene PE-X foam with a water-repellent closed cell structure, characterized by its durable, non-ageing insulation performance, and its permanent elasticity, maximizing and maintaining the thickness of the insulation layer, even after bending multiple times.

The high-grade, black coloured UV-resistant, double walled, corrugated HDPE jacket pipe shields the pre-insulated piping system against mechanical impacts and moisture, whilst maintaining maximum flexibility.



- Medium pipes: PE-Xa/SDR 11/PN 6
- EVOH Oxygen barrier in accordance with ISO 17455
- Continuous operating temperature: 80°C
- Max. operating temperature: 95°C
- PE-X insulation foam: < 1% water absorption in accordance with ISO 2896
- Full coil length, all dimensions: 100 m
- Designed in accordance with European standard EN 15632-1&3
- CFC-free production process

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Art. No.	Jacket pipe	Medium pipe		Bending radius	Water content	Heating capacity		U-value	Weight
	d _{out} [mm]	d _{out} x s [mm]	d _{in} [mm]	[m] ⁽¹⁾	[l/ml]	[kW] ⁽²⁾	m/s	[W/mK] ⁽³⁾	kg/m
HD14025	140	25 x 2,3	20,4	0,35	0,654	10 - 30	0,5 - 1,1	0,211	1,9
HD16025	160	25 x 2,3	20,4	0,50	0,654	10 - 30	0,5 - 1,1	0,190	2,1
HD14032	140	32 x 2,9	26,2	0,40	1,078	30 - 60	0,6 - 1,3	0,262	2,1
HD16032	160	32 x 2,9	26,2	0,50	1,078	30 - 60	0,6 - 1,3	0,228	2,2
HD14040	140	40 x 3,7	32,6	0,60	1,670	40 - 100	0,6 - 1,5	0,345	2,1
HD16040	160	40 x 3,7	32,6	0,60	1,670	40 - 100	0,6 - 1,5	0,286	2,6
HD16050	160	50 x 4,6	40,8	0,60	2,614	70 - 180	0,6 - 1,7	0,400	3,0
HD20050	200	50 x 4,6	40,8	0,80	2,614	70 - 180	0,6 - 1,7	0,278	3,9
HD20063	200	63 x 5,8	51,4	1,20	4,150	100 - 350	0,6 - 2,0	0,409	4,5
HD22563	225	63 x 5,8	51,4	1,20	4,150	100 - 350	0,6 - 2,0	0,312	4,8
HD22575	225	75 x 6,8	61,4	1,40	5,922	150 - 450	0,6 - 2,0	0,460	5,9

⁽¹⁾ The indicated minimum bending radius can be applied permanently without affecting the system's quality or performance

⁽²⁾ Heat capacity in kW for the carrier pipe (at T_{water} of 80°C with a ΔT of 20°C)

⁽³⁾ The U-value enables easy heat loss calculation, as a function of the driving temperature difference

The installation of adequately anchored fix points at the system's extremities (typically at wall penetrations) is mandatory. This is to secure the connected piping against the potential impact of the system's dilatation forces (thermal expansion/retraction).

To prevent ingress of (ground) water, the EN 15632-3 standard prescribes the usage of shrink end caps to seal the extremities of the non-bonded piping system.

Failing to do so involves a genuine damage risk and automatically voids the system warranty.