

HEAT PUMP

Hyper flexible, pre-insulated piping system, combining two heating pipes and two cable sleeves for powered sensor cable in the same jacket pipe. The Terrendis HP pipe has been designed to connect air/water heat pumps with houses and residential buildings.

The medium pipes are made from cross-linked polyethylene PE-Xa with an orange coloured oxygen-diffusion barrier for the heating flow line and a blue coloured one for the heating return. The cable sleeve pipes are made from polypropylene.

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.



- Heating 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
- Cable sleeves in polypropylene class 3422
- PE-X insulation foam: < 1% water absorption in accordance with ISO 2896
- Full coil length: 100 m
- CFC-free production process

PIPES

HEAT PUMP

	Jacket pipe	Medium pipe		Bending radius	Water content	Heating capacity		Weight
Art. No.	d _{out} [mm]	d _{out} x s [mm]	d _{in} [mm]	[m] ⁽¹⁾	[l/m]	[kW] ⁽²⁾	m/s	kg/m
HP14032E32	140	(2x) 32 x 2.9 32 32	2 x 26.2 25 25	0.40	1.078	6 - 15	0.6 - 1.3	2.3
HP16040E32	160	(2x) 40 x 3.7 32 32	2 x 32.6 25 25	0.60	1.670	10 - 28	0.6 - 1.5	3.0
HP16050E32	160	(2x) 50 x 4.6 32 32	2 x 40.8 25 25	0.60	2.614	15 - 50	0.6 - 1.8	3.2

⁽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 60°C and a ΔT of 5°C)

CONNECTORS & ACCESSORIES



	PE-X terminal connector		Dust end cap	Shrink end cap
		Thread		
Art. No.	Art. No.	[inch]	Art. No.	Art. No.
HP14032E32	HC32/1M	1" M	DECQ140/H32S3232	SECQ/10
HP16040E32	HC40/1.25M	1 1/4" M	DECQ160/H40S3232	SECQ/10
HP16050E32	HC50/1.5M	1 1/2" M	DECQ160/H50S3232	SECQ/10

To prevent ingress of (ground) water, Terrendis 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.