

## 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

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Art. No.	Jacket pipe	Medium pipe		Bending radius	Water content	Heating capacity	
	d <sub>out</sub> [mm]	d <sub>out</sub> x s [mm]	d <sub>in</sub> [mm]	[m] <sup>(1)</sup>	[l/m]	[kW] <sup>(2)</sup>	m/s
<b>HP14032E3225</b>	140	(2x) 32 x 2.9 32 25	2 x 26.2 25 18	0.40	1.078	6 - 15	0.6 - 1.3
<b>HP16040E4040</b>	160	(2x) 40 x 3.7 40 40	2 x 32.6 32 32	0.60	1.670	10 - 28	0.6 - 1.5

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

<sup>(2)</sup> Heat capacity in kW for the carrier pipe (at T<sub>water</sub> 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.
Art. No.	[inch]		
<b>HP14032E3225</b>	<b>HC32/1M</b>	<b>1" M</b>	<b>SECQ/10</b>
<b>HP16040E4040</b>	<b>HC40/1.25M</b>	<b>1 ¼" M</b>	<b>SECQ/10</b>

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.