

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.