

## PRODUCT DATA SHEET

### Heat pump HP

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

### Heat pump HP

Art. No.	Jacket pipe	Medium pipe		Bending radius	Water content	Heating capacity		Weight
		d <sub>out</sub> [mm]	d <sub>out</sub> x s [mm]			[m] <sup>(1)</sup>	[l/m]	
<b>HP14032E32</b>	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
<b>HP16040E32</b>	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
<b>HP16050E32</b>	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

<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)

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.

## PRODUCT DATA SHEET

### Heat pump HPW

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 HPW pipe has been designed to connect air/water heat pumps with houses and residential buildings.

The medium pipes is made from corrugated stainless steel 1.4404 (AISI 316L) tubes for the heating flow and return lines. 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:  
Stainless steel 1.4404/PN10
- 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

### Heat pump HPW

	Jacket pipe	Medium pipe	Bending radius	Water content	Heating capacity		Weight
Art. No.	d <sub>out</sub> [mm]	d <sub>out</sub> [mm]	[m] <sup>(1)</sup>	[l/m]	[kW] <sup>(2)</sup>	m/s	kg/m
<b>HPW14032E32</b>	140	(2x) 32 32 32	0.40	1.12	6 - 15	0.6 - 1.3	2.56
<b>HPW16040E32</b>	160	(2x) 40 32 32	0.60	1.95	10 - 28	0.6 - 1.5	2.98

<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)

## PRODUCT DATA SHEET

### Single heat pump HW

Hyper flexible, pre-insulated piping system with a single medium pipe, primarily intended for the transport of heating water in buried distribution networks.

The medium pipes is made from corrugated stainless steel 1.4404 (AISI 316L).

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: corrugated stainless steel 1.4404/PN10
- 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
- CFC-free production process

### Single heat pump HW

	Jacket pipe	Medium pipe	Bending radius	Water content	Heating capacity		Weight
Art. No.	d <sub>out</sub> [mm]	d <sub>out</sub> [mm]	[m] <sup>(1)</sup>	[l/m]	[kW] <sup>(2)</sup>	m/s	kg/m
<b>HW7532</b>	75	32	0.40	0.56	6 - 15	0.6 - 1.3	0.93
<b>HW9040</b>	90	40	0.50	0.975	10 - 28	0.6 - 1.5	1.16

<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)

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.