



DOUBLE HEATING PIPE

 **AUTONOM**

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Highly flexible, pre-insulated pipe systems, combining both the flow and the return carrier pipes in the same jacket pipe, primarily intended for the transport of heating water, or other heat-transfer media, in underground distribution networks.

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

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

The high-grade, double walled, corrugated HDPE sleeve shields the pre-insulated pipe system against mechanical impacts and moisture, whilst maintaining maximum flexibility.

Art. No.	Jacket Pipe d _{out} [mm]	Medium Pipe d _{out} /s/d _{in} [mm]	DN	Bending Radius [m] ⁽¹⁾	Water Content [l/m] ⁽²⁾	Heat Capacity avg [kW] ⁽³⁾	U Value [W/(mK)] ⁽⁴⁾
AHD14025	140	25/2.3/20.4	20	0.35	0.654	30	0.243
AHD16025	160	25/2.3/20.4	20	0.50	0.654	30	0.210
AHD14032	140	32/2.9/26.2	25	0.40	1.078	60	0.306
AHD16032	160	32/2.9/26.2	25	0.50	1.078	60	0.253
AHD16040	160	40/3.7/32.6	32	0.60	1.670	90	0.316
AHD16050	160	50/4.6/40.8	40	0.60	2.614	140	0.442
AHD20050	200	50/4.6/40.8	40	0.80	2.614	140	0.320
AHD20063	200	63/5.8/51.4	50	1.20	4.150	220	0.481
AHD22563	225	63/5.8/51.4	50	1.20	4.150	220	0.420

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

(2) The Water Content is expressed in liters per meter length of pre-insulated pipe, including flow + return volume
(gal.us / 100' : 3/4" = 5.3 1" = 8.7 1-1/4" = 13.4 1-1/2" = 21.0 2" = 33.4)

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

(4) 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 (typical at wall penetrations) is mandatory. This to secure the connected plumbing against the potential impact of the system's dilatation forces (thermal expansion/retraction). Failing to do so involves a genuine damage risk, and automatically voids the system warranty.

To prevent ingress of (ground)water, the EN 15632-3 standard prescribes the usage of Shrink End Caps to seal the non-bonded system layers at underground connections.

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

- ✓ Carrier pipes: PE-Xa/SDR 11/PN6
- ✓ EVOH Oxygen barrier in accordance with DIN 4726
- ✓ Max fluid temperature: + 95 °C
- ✓ PE-X insulation foam: < 1% water absorption
- ✓ Full coil length, all dimensions: 100 m
- ✓ Designed in accordance with European standard EN 15632-1&3
- ✓ CFC-free production process



CONNECTORS & ACCESSORIES



**PE-X Terminal
Connectors**



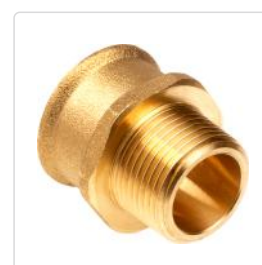
**PE-X x PE-X
Couplings**



Dust End Cap



Shrink End Cap



Fix Points

Art. No.	Thread [inch]
AHC25M	1" M
AHC32M	1 1/4" M
AHC40M	1 1/2" M
AHC50M	2" M

Art. No.
AHC25C
AHC32C
AHC40C
AHC50C

Art. No.
ADECD14032
ADECD14040
ADECD16050
ADECD20063

Art. No.
ASECD30
ASECD40
ASECD50
ASECD60

Art. No.	Thread M+F [inch]
AFP1	1" M
AFP114	1 1/4" M
AFP112	1 1/2" M
AFP2	2" M


Please, contact us for other dimensional combinations or for the integration of specific pipes and/or components.





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