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## Technical data sheet

PE-RT pipes

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## PE-RT pipes

## PE-RT pipes



### DESCRIPTION

PE-RT and PE-RT/Al/PE-RT pipes are particularly suitable for use in radiant heating systems.

#### PE-RT PIPE

The PE-RT plastic pipe is extremely solid and resistant and consists of a 5-layer structure with an oxygen barrier.

The EVOH layer provides a good barrier to oxygen and completely protects the structure from external influences.

The structure and composition ensures good thermal stability at high temperatures up to 90 °C.

#### PE-RT/Al/PE-RT PIPE

PE-RT / Al / PE-RT pipe is a five-layer pipe that combines the advantages of a metal and plastic pipe.

Both the inside and the outside layer are made of PERT material, the aluminum core in the middle layer is absolutely diffusion-tight, which can reliably prevent oxygen permeation into the tube.

## ADVANTAGES

- High flexibility: easy to install
- Lightness
- Evoh barrier
- Corrosion resistance

## PE-RT PIPE TECHNICAL FEATURES

### Dimensions

NOMINAL DIAMETER OF THE PIPE	12x1.4	16x2.0	17	20x2.0
TYPE OF PLASTIC MATERIAL (5 layers)	PE-RT			
EXTERNAL DIAMETER mm	12	16	17	20
INTERNAL DIAMETER mm	9.2	12	13	16
THICKNESS mm	1.4	2.0		

### Volume and weight

NOMINAL DIAMETER OF THE PIPE	12x1.4	16x2.0	17	20x2.0
VOLUME CONTENT OF WATER l / m	0.066	0.113	0.133	0.201

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### Conductivity and expansion

NOMINAL DIAMETER OF THE PIPE	12x1.4	16x2.0	17	20x2.0
COEFFICIENT OF THERMAL CONDUCTION w / mk	0.4			
COEFFICIENT OF LINEAR THERMAL EXPANSION m / m • k	0.195			
INNER PIPE SURFACE ROUGHNESS mm	0.007			

## Temperature and pressure

NOMINAL DIAMETER OF THE PIPE	12x1.4	16x2.0	17	20x2.0
maximum working pressure bar °C	70			
MINIMUM OPERATING TEMPERATURE °C	-20(with a concentration of 40% of glycol in water)			
PEAK TEMPERATURE (of malfunction) °C	95			
MAXIMUM WORKING PRESSURE bar	6	8		6

## PE-RT/AL/PE-RT TECHNICAL FEATURES

### Dimensions

NOMINAL DIAMETER OF THE PIPE	11.6x1.5
TYPE OF MATERIAL (5 layers)	PE-RTII / al / PE-RTII
EXTERNAL DIAMETER mm	11.6
INTERNAL DIAMETER mm	8.6
THICKNESS mm	1.5
ALUMINUM THICKNESS	0.2

### Volume and weight

NOMINAL DIAMETER OF THE PIPE	11.6x1.5
VOLUME CONTENT OF WATER l / m	0.058

## Temperature and pressure

NOMINAL DIAMETER OF THE PIPE	11.6x1.5
maximum working pressure bar °C	90
MINIMUM OPERATING TEMPERATURE °C	-20* (con concentrazione del 40% di glicole in acqua)
PEAK TEMPERATURE (of malfunction) °C	95
MAXIMUM WORKING PRESSURE bar	10



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