

Data Sheet

# FH PE-RT pipes

## Application



The Danfoss PE-RT pipe is a high quality 5-layer floor heating pipe with an EVOH oxygen barrier. All layers are permanently bonded with each other during the production process.

The octene side chains of the molecular structure of the PE-RT give it a similar effect to that of the cross-linked PE, which provides excellent Long Term Hydrostatic Strength at high temperature without crosslinking the material.

The 5-layer built up means that the oxygen barrier is protected by an outer layer of PE-RT which prevents scratches during installation and ensures a long lifetime of your floor heating installation.

The unlinked polyethylene with its Raised Temperature resistance (PE-RT) is used, in accordance with ISO 22391.

## Ordering

Product	Size	Length	Code no.
FH PE-RT pipe	16 x 2mm	500 m	<b>088X0006</b>
FH PE-RT pipe	18 x 2mm	500 m	<b>088X0825</b>
FH PE-RT pipe	20 x 2mm	500 m	<b>088X0010</b>

## Accessories

Product	Connection	Size	Code no.
	Fittings 3/4", internal thread	16 x 2 mm	013G4156
		18 x 2 mm	013G4158
		20 x 2 mm	013G4160
	Screw coupling	16 x 2 mm	088X1030
		20 x 2 mm	088X1031
	Press coupling "TH" jaw profile	16 x 2mm	088X1032
		18 x 2 mm	088X1033
		20 x 2 mm	088X1034

## Technical data

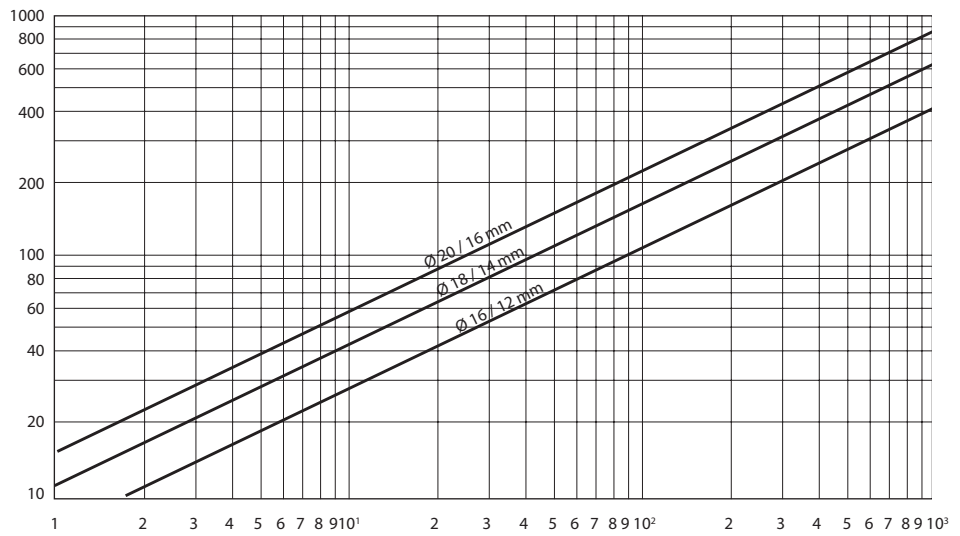
Materials	PE-RT / EVOH / PE-RT
Max working pressure	6 bar
Test pressure	10 bar
Malfunction temperature (Tmal)	100°C
Maximum design temperature (Tmax)	70°C
Design temperature (Tdesign)	60°C
Oxygen barrier	EVOH
Linear expansion coefficient	0,025 mm/m°K
Thermal conductivity	0,43 W/m°K
Oxygen-tightness according to DIN 4726	< 0,1 g/m <sup>3</sup> x d

## Minimum bending radius with bending springs

Pipe dimension [mm]	Manual pipe bender radius [mm]
16	80 (5 x outside diameter)
18	90 (5 x outside diameter)
20	100 (5 x outside diameter)

Pressure loss

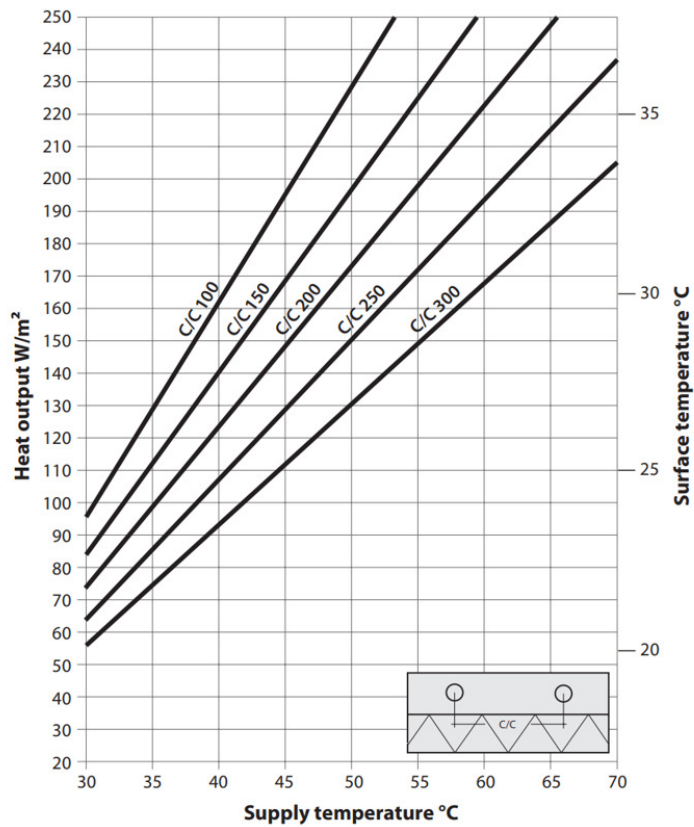
Mass flow, kg/h



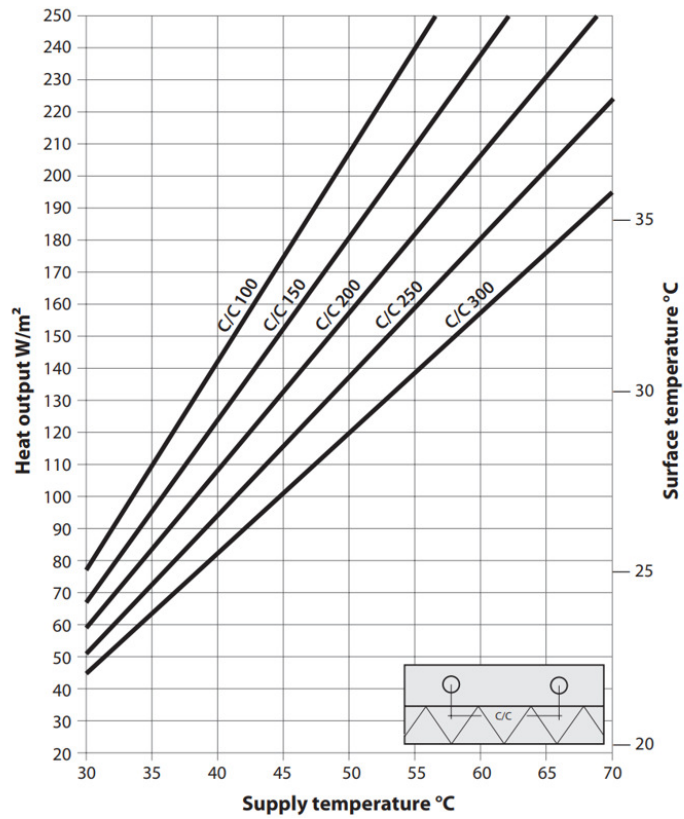
Pressure loss  
kPa/m

Water temperature: 40 °C.

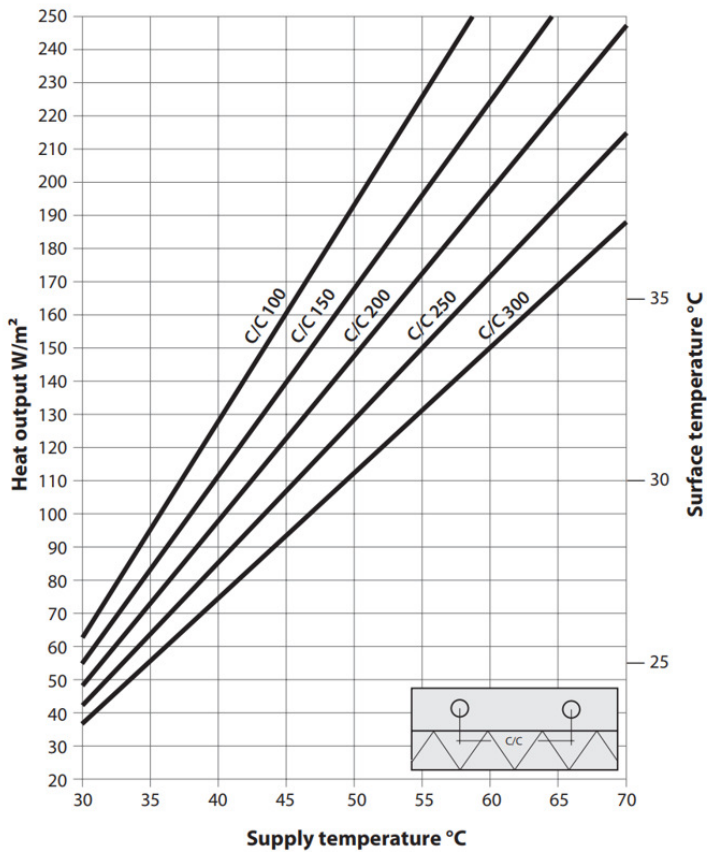
Heat Output  
at room temp. 15 °C



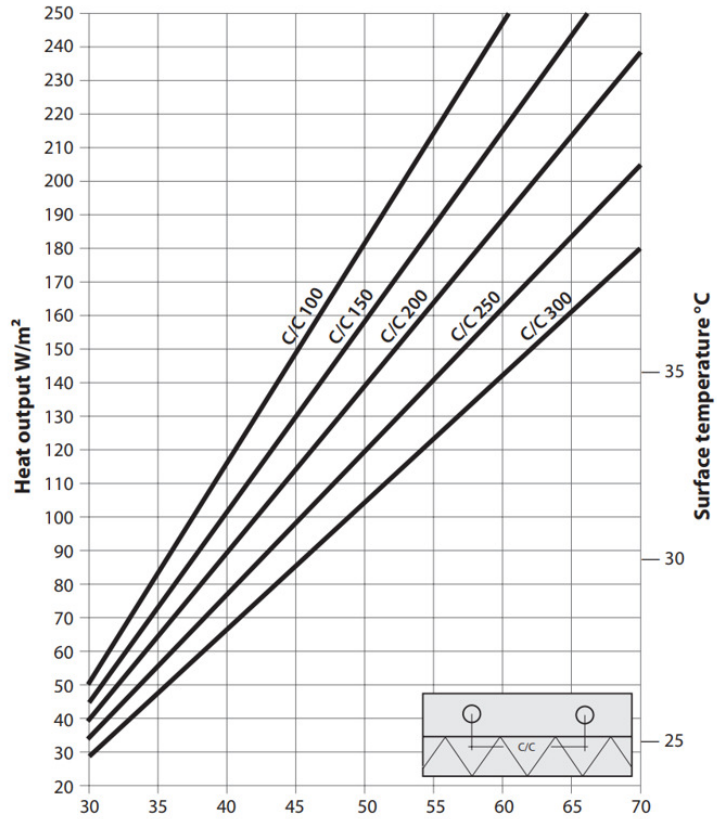
**Heat Output  
at room temp. 18 °C**



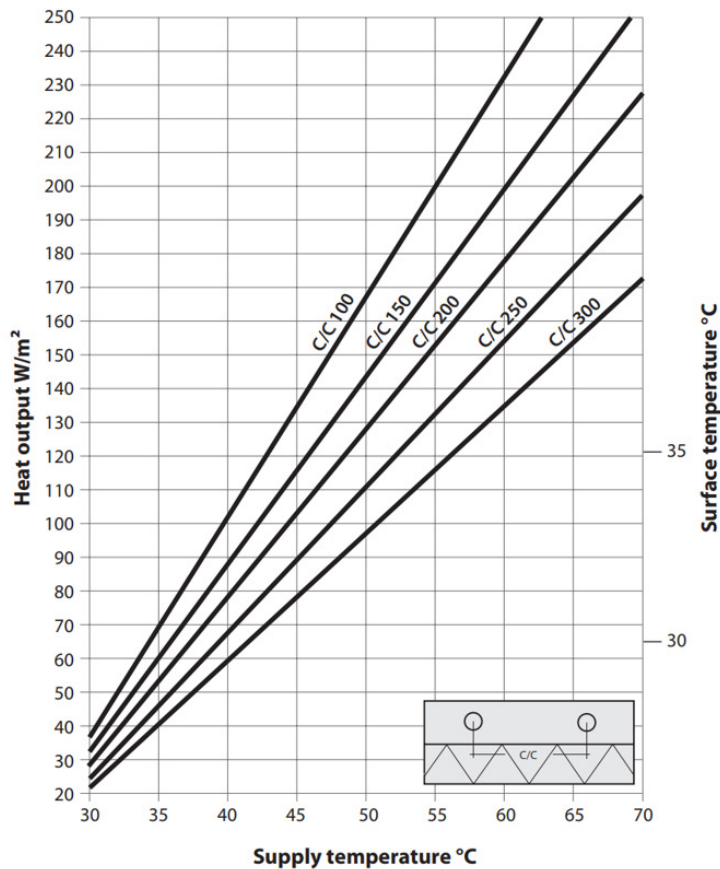
**Heat Output  
at room temp. 20 °C**



**Heat Output  
at room temp. 22 °C**



**Heat Output  
at room temp. 24 °C**



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