

Data Sheet

FH Composite Pipes

Application



The white Danfoss FH composite pipe is 100% impervious to air, temperature resistant and highly flexible. It consists of an aluminum pipe which is covered inside and out with a Polyethylene (PE-RT) layer. All layers are permanently bonded with each other through a layer of adhesive.

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 Danfoss FH composite pipes are manufactured in such a way that the aluminum layer prevents the pipe from going back to its original form. This makes the pipes easy to install and the aluminum core ensures a long lifetime of your floor heating installation due to oxygen tightness.

The Danfoss FH composite pipe is used, in accordance with ISO 21003

Ordering

Product	Size	Length [m]	Code no.
FH composite pipe	16 x 2mm	200 m	088X0001
FH composite pipe	18 x 2mm	200 m	088X0821
FH composite pipe	16 x 2mm	500 m	088X0003

Accessories

Product	Connection	Size	Code no.
	Fittings 3/4", internal thread	16 x 2 mm	013G4186
		18 x 2 mm	013G4188

Technical data

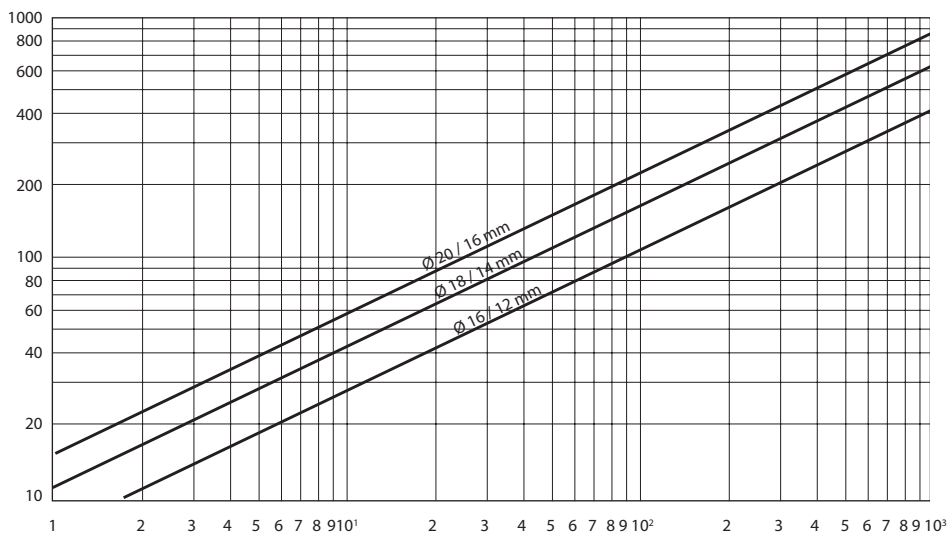
Materials	PE-RT / Aluminum / PE-RT
Max working pressure	6 bar
Test pressure	10 bar
Malfunction temperature (Tmal)	100 °C
Maximum design temperature (Tmax)	70 °C
Design temperature (Tdesign)	60 °C
Linear expansion coefficient	0.025 m/m°K
Thermal conductivity	0.43 W/m°K
Oxygen-tightness according to DIN 4726	< 0.0010 g/m3 x d

Minimum bending radius

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

Pressure loss

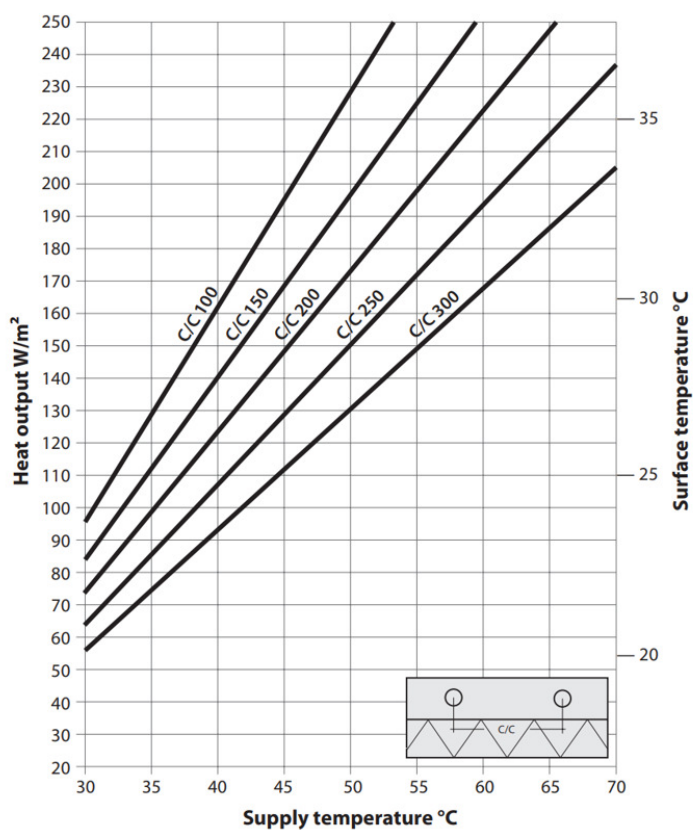
Mass flow, kg/h



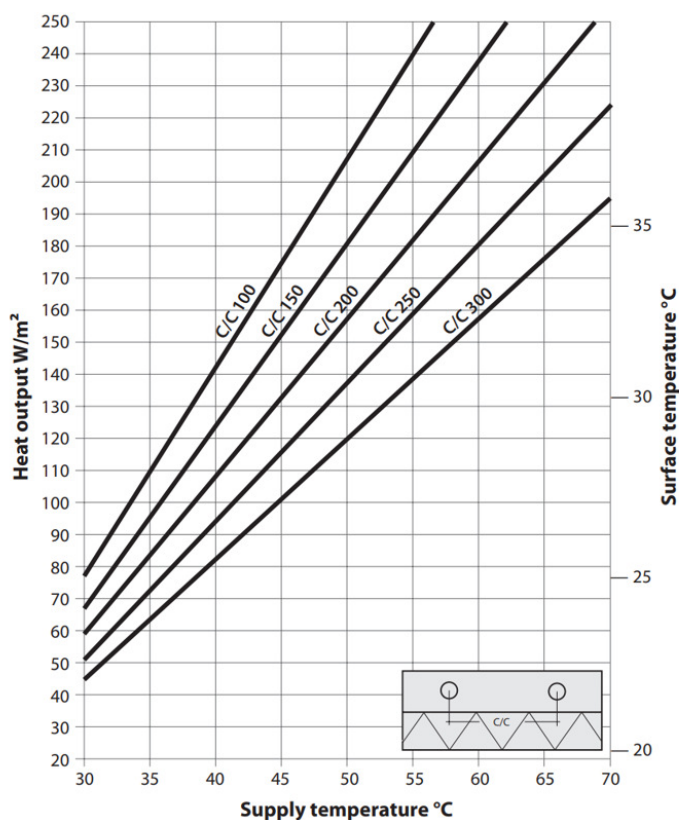
Pressure loss
kPa/m

Water temperature: 40 °C.

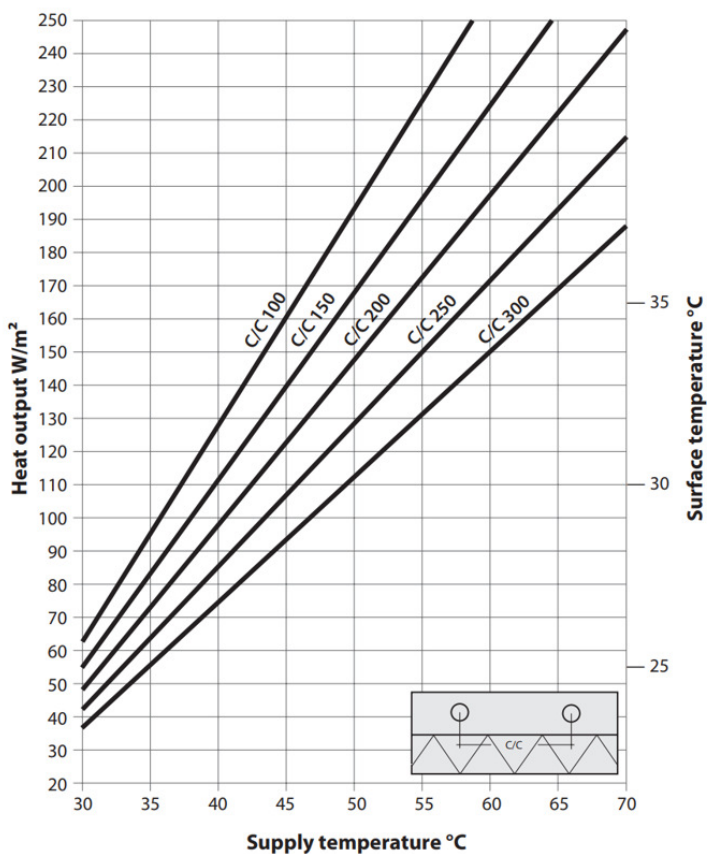
Heat Output
at room temp. 15 °C



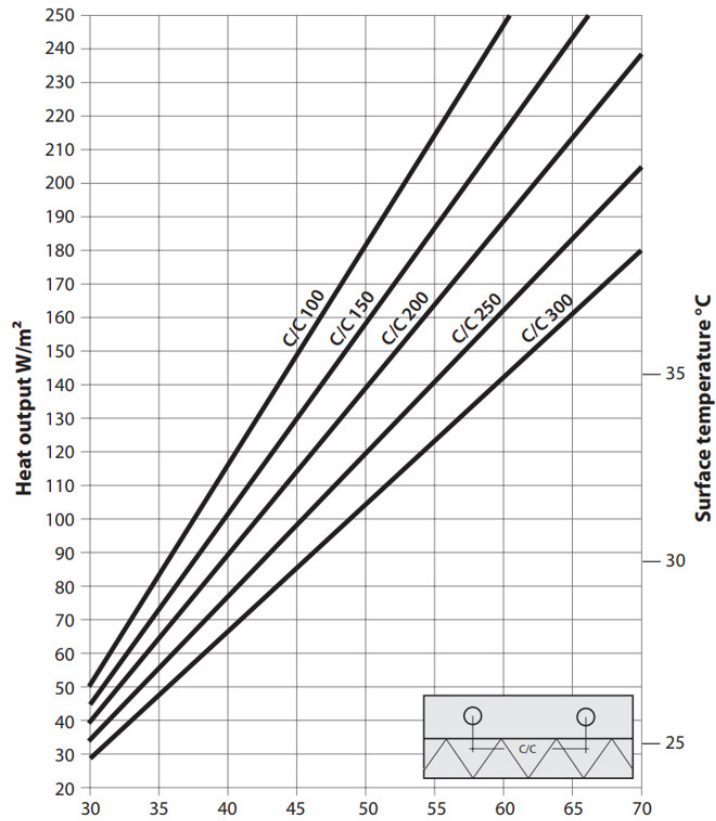
**Heat Output
at room temp. 18 °C**



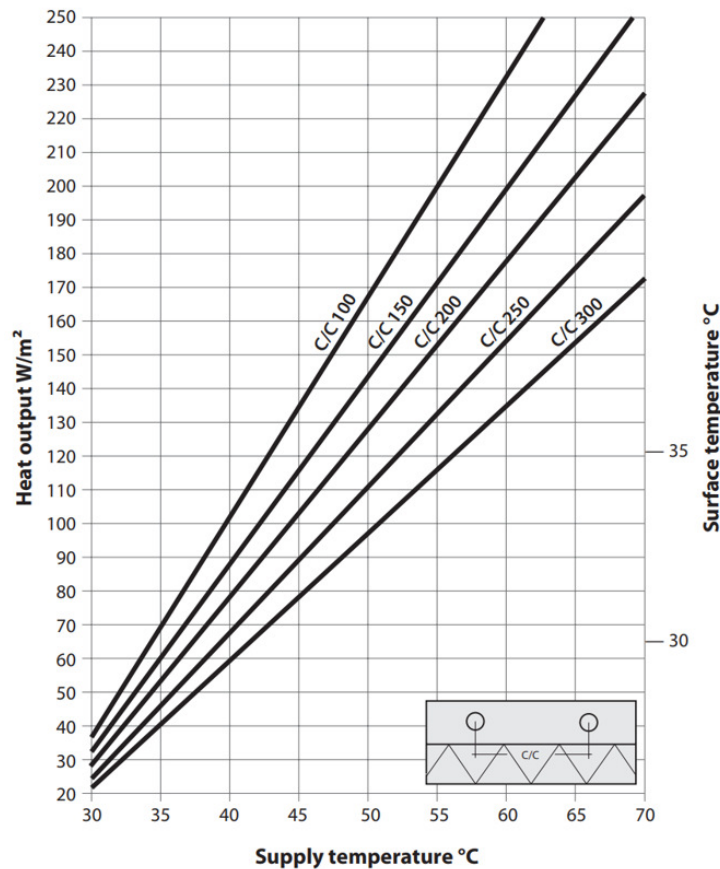
**Heat Output
at room temp. 20 °C**



Heat Output at room temp. 22 °C



Heat Output at room temp. 24 °C



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