AERFOAM

Insulated ductwork system

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ZERO
Carbon Footprint

Introduction

Insulating ducts in air distribution systems used for ventilation, heating or cooling is often required to minimise heat loss or prevent condensation on or in the duct. Ubbink has developed a complete range of insulated ductwork, which are extremely easy to install and maintain. They are available in a large range of diameters and bends. Several accessories including terminals and airtight external duct seals complete the programme.

There is a risk of condensation in or on ductwork if the air in the duct is colder than the ambient air (or vice versa). Therefore, it is very important to use insulated ductwork if such conditions could occur.

Features & benefits

- Well-insulated
- Low pressure drop due to smooth inner surface
- Non-porous
- Airtight
- Doesn't rust
- Compact, mechanical connections (i.e. no tape or sealants required)
- Extremely light material
- Easy and safe to cut
- Pliable
- Impact resistant (i.e. no dents)
- Easy to dismantle for maintenance
- Zero carbon footprint
- BIM-ready

Specifications	
Material	EPE
Ductwork lengths	2.00 m
Density	30 kg/m³
Heat transfer coefficient	0.041 W/m.K (EN 12667)
Thermal resistance	R = 0.39 m² K/W
Temperature range	Min. -30°C I Max. +60°C
Wall thickness	16 mm
Fire class	B1 (DIN 4102)
Reaction to fire	Class E (EN 13501)
Function	Transport of air for ventilation and/or heating and/or cooling
Airtightness	D (EN 12237) = ATC 2 (EN 16798)
Material couplers and brackets	PP
Material Y-piece	EPP

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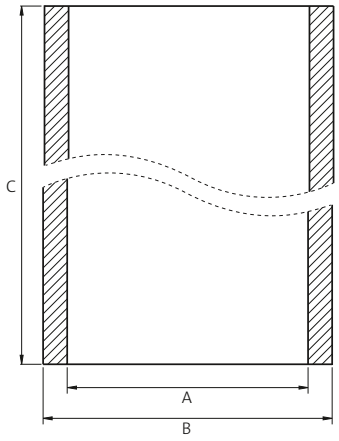
Technical details

Dimensions	125	150	160	180
A [mm]	125	150	160	180
B [mm]	157	182	192	212
C [mm]	2.000	2.000	2.000	2.000
m [kg]	0,48	0,56	0,53	0,67



Diameter [mm]	125	150	160	180
Qv (Volume) [m³/h]	Δp (Pressure loss) [Pa]			
100	1,0	1,0	1,0	1,0
200	2,7	1,1	1,0	1,0
300	6,1	2,5	1,8	1,0
400	10,8	4,5	3,1	1,6
500	16,9	7,0	4,9	2,5
600	24,3	10,1	7,0	3,6

Diameter [mm]	125	150	160	180
Qv (Volume) [m³/h]	v (Velocity) [m/s]			
100	2,3	1,6	1,4	1,1
200	4,5	3,1	2,8	2,2
300	6,8	4,7	4,1	3,3
400	9,1	6,3	5,5	4,4
500	11,3	7,9	6,9	5,5
600	13,6	9,4	8,3	6,5