

AERFOAM

Insulated ductwork system

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
- BIM-ready



Specifications

Function	Transport of air for ventilation and/or heating and/or cooling
Material duct	EPE
Material connectors and wall brackets	PP
Material wall bracket 200	Aluminium
Ductwork length	2.00m
Density	30kg/m ³
Heat transfer coefficient	0.041W/m.K (EN 12667)
Thermal resistance	R = 0.39m ² K/W
Temperature range	Min. -30°C Max. +60°C
Wall thickness	16mm
Reaction to fire duct	Class B - s2, d0 (EN 13501-1:2018)
Reaction to fire connectors and wall brackets	Class E (EN 13501)
Airtightness	D (EN 12237) = ATC 2 (EN 16798)
Colour	Grey



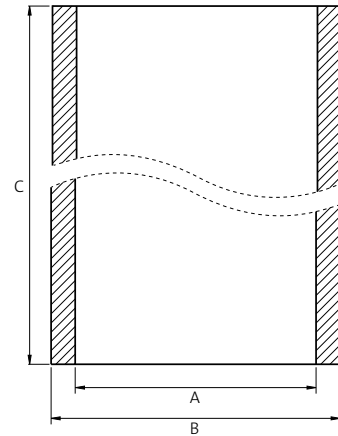
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Technical details

Dimensions	125	150	160	180	200
A [mm]	125	150	160	180	200
B [mm]	157	182	192	212	232
C [mm]	2.000	2.000	2.000	2.000	2.000
m [kg]	0,48	0,56	0,53	0,67	0,80



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

Diameter [mm]	125	150	160	180	200
Qv (Volume) [m³/h]	v (Velocity) [m/s]				
100	2,3	1,6	1,4	1,1	0,9
200	4,5	3,1	2,8	2,2	1,8
300	6,8	4,7	4,1	3,3	2,7
400	9,1	6,3	5,5	4,4	3,5
500	11,3	7,9	6,9	5,5	4,4
600	13,6	9,4	8,3	6,5	5,3

