

TECHNICAL DATA SHEET

VALSIR® HRV SYSTEMS

EPE TUBE



valsir®
QUALITY FOR PLUMBING

Insulated round EPE tube

Insulated pipe in polyethylene foam (EPE) available in diameters 125, 160 and 180 mm (thickness 16 mm/30 kg/m³).

Simple and rapid installation with a perfect seal, it is used to connect the fan unit to the outside to enable the flow of inbound and outbound air.

Ideal for controlled mechanical ventilation plants, thanks to the insulation reducing heat loss and avoiding condensation.

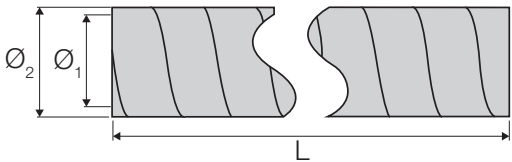


Table EPE system characteristics

Characteristics	
Raw material	EPE
Density	30 Kg/m ³
Thermal transmittance	0.041 W/mK (EN 12667)
Thermal resistance	R= 0.56 m ² K/W
Working temperature	min. -30° max. +60°
Thickness	16 mm
Fire resistance	B1 (DIN 4102)
Transportable fluid	Air
Air permeability	C (EN 12237:2003)
Colour	Grey
Clips and collars raw material	PP
Y fittings raw material	EPP

To clean the inner surface, only use brushes with soft bristles to avoid damage.

Table EPE tube characteristics



	125	160	180
$\varnothing_1$ (mm)	125	160	180
$\varnothing_2$ (mm)	157	192	212
L (mm)	2000	2000	2000
M (kg)	0.48	0.53	0.67

Flow rate	Pressure losses [Pa/m]		
100 m ³ /h	0.7	0.2	0.1
200 m ³ /h	2.7	0.7	0.4
300 m ³ /h	6.1	1.7	0.9
400 m ³ /h	10.8	3.1	1.6
500 m ³ /h	16.9	4.9	2.5

The pressure losses are calculated with air temperature T=20°.
For the pipes the pressure losses are referred to 1 m lenght pipe.

Figure Diagram of the load losses in function of the flow (L = 1 m)

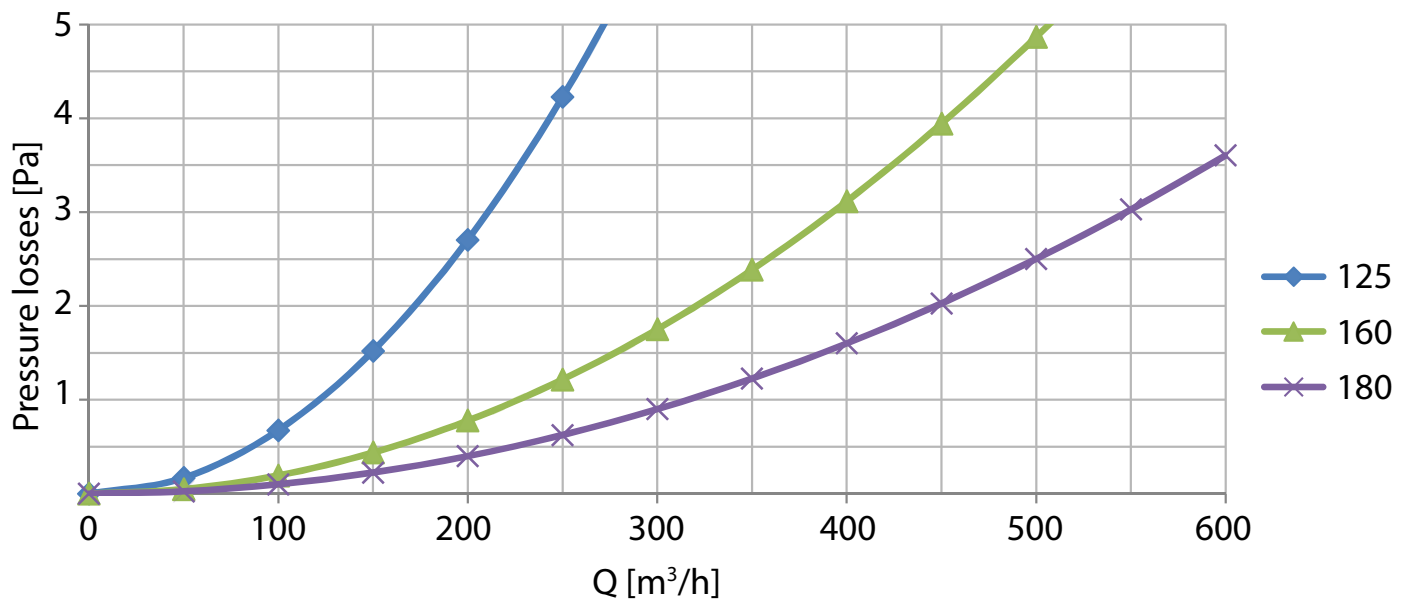


Table Air speed in function of the flow rate

Flow rate (m³/h)	125	160	180
100	2.3	1.4	1.1
200	4.5	2.8	2.2
300	6.8	4.1	3.3
400	9.1	5.5	4.4
500	11.3	6.9	5.5
600	13.6	8.3	6.5

Figure Air speed in function of the flow rate (L = 1 m)

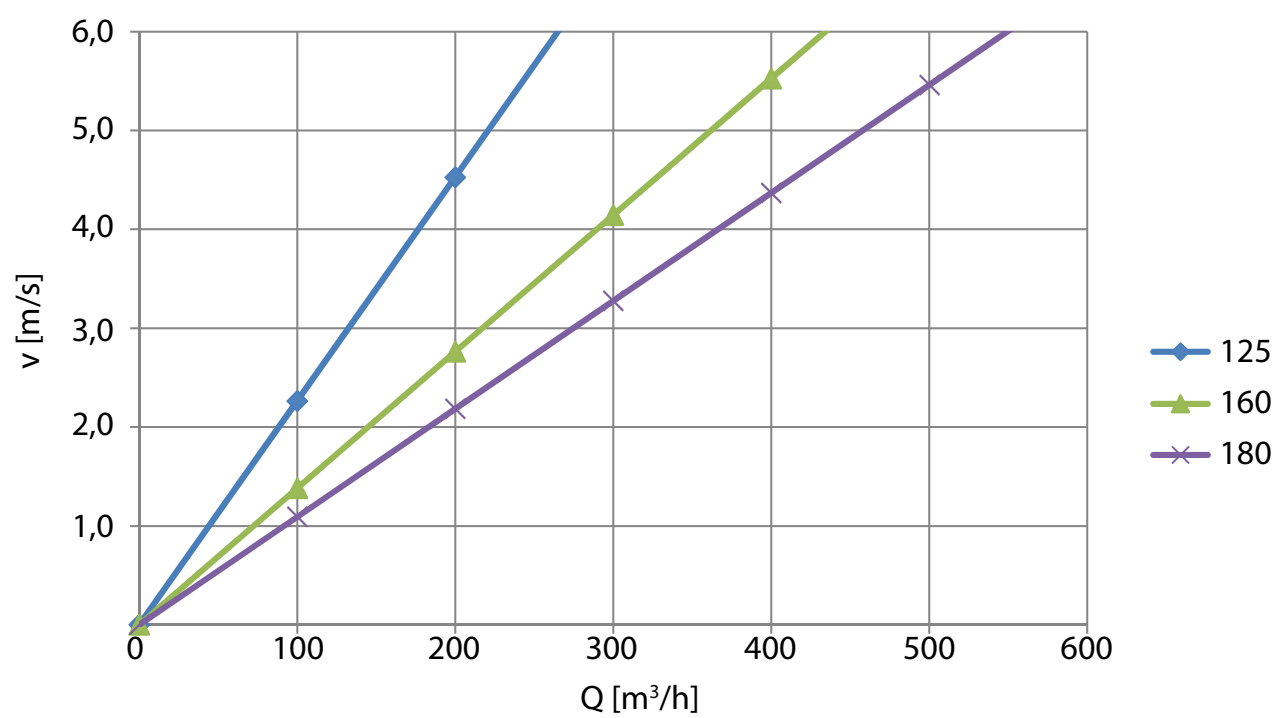
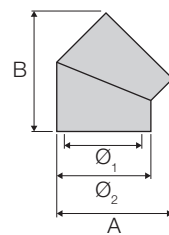
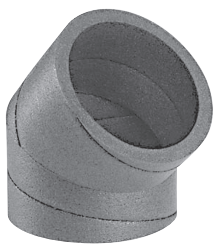
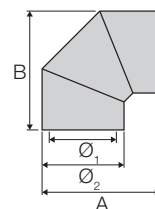


Table EPE 45° bend



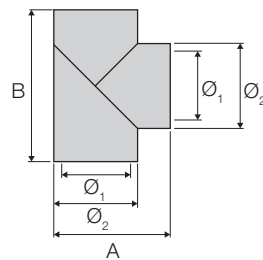
	125	160	180
$\varnothing_1$ (mm)	125	160	180
$\varnothing_2$ (mm)	157	192	212
A (mm)	199	235	258
B (mm)	213	239	261
Flow rate	Pressure losses [Pa/m]		
100 m ³ /h	1.6	0.5	0.3
200 m ³ /h	6.5	2.1	1.1
300 m ³ /h	14.7	4.7	2.6
400 m ³ /h	26.1	8.5	4.6
500 m ³ /h	40.7	13.3	7.1

Table EPE 90° bend



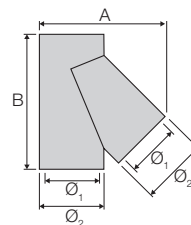
	125	160	180
$\varnothing_1$ (mm)	125	160	180
$\varnothing_2$ (mm)	157	192	212
A (mm)	238	274	298
B (mm)	238	274	298
Flow rate	Pressure losses [Pa/m]		
100 m ³ /h	2.7	1.0	0.6
200 m ³ /h	10.8	3.9	2.4
300 m ³ /h	24.3	8.8	5.4
400 m ³ /h	43.3	15.6	9.6
500 m ³ /h	67.6	24.3	15.0

Table EPE T 90° branch



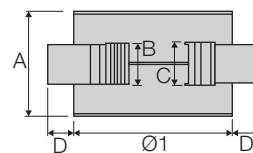
	125	160
$\varnothing_1$ (mm)	125	160
$\varnothing_2$ (mm)	157	192
A (mm)	216	254
B (mm)	276	316

Table EPE Y 45° branch



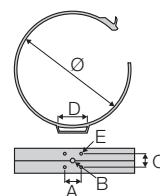
	180
$\varnothing_1$ (mm)	180
$\varnothing_2$ (mm)	212
A (mm)	410
B (mm)	440

Table EPE fitting for the tube



	125	160	180
$\varnothing 1$ (mm)	125	160	180
A (mm)	100	100	120
B (mm)	45	45	45
C (mm)	48	48	48
D (mm)	15	15	15

Table EPE tube collar



	125	160	180
Ø (mm)	125	160	180
A (mm)	30	30	30
B	M8	M8	M8
C (mm)	25	25	25
D (mm)	50	50	50
E	4,5	4,5	4,5

Approvals:

The approvals of Valsir® HRV systems are available on the website: www.valsir.com

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BUILDING

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