

TECHNICAL DATA SHEET

VALSIR® HRV SYSTEMS

FLEX

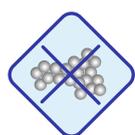


valsir®
QUALITY FOR PLUMBING

HRV bare flex hose

Flexible duct available in diameters 127, 160, 180 and 203 mm, made from additive polyolefin resin film, antibacterial and anti-mould and spiral in spring steel wire.

Suitable for controlled mechanical ventilation and air conditioning systems.



ANTIBACTERIAL



ANTIMOULD

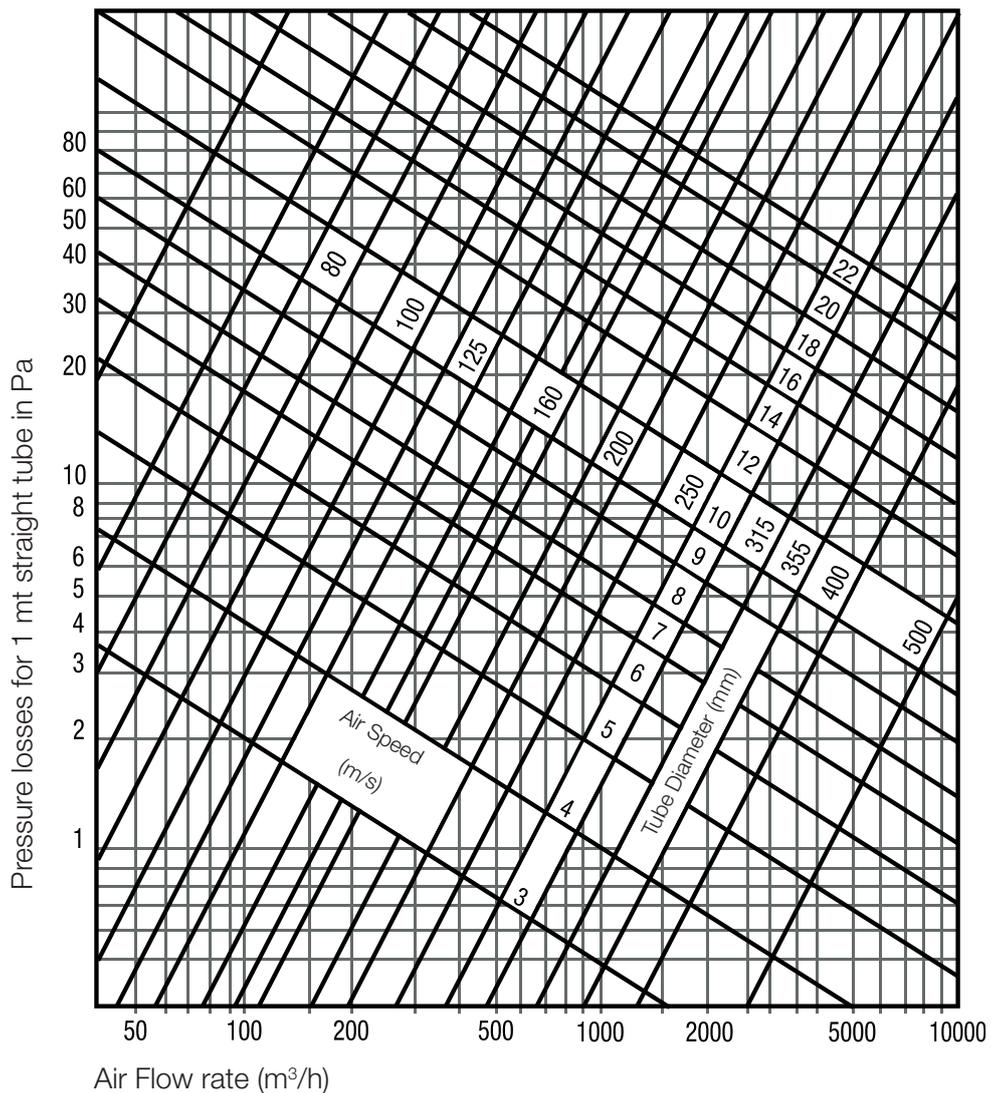
Table Hrv bare flex hose characteristics

Characteristics	
Raw material	additivated polyolefin resin film and antibacterial/anti-mould master, spring steel wire spiral.
Working temperature	min. -20° max. +90° (+110° peak)
Available diameters	127, 160, 180, 203
Available lenght	10 m
Bending radius	0,6 Ø
Fire resistance	Class B-s1, d0 (EN 13823:2010)
Transportable fluid	Air
Applications	Air-conditioning - Mechanical Ventilation
Maximum air speed	20 m/s
Maximum pressure	200 mm c.a.
Colour	Gray

Diameters	Air speed 2 m/s		Air speed 3 m/s		Air speed 4 m/s		Air speed 5 m/s	
	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)
127	91	0.7	137	1.6	182	2.8	228	4.4
160	145	0.5	217	1.2	290	2.1	362	3.2
180	183	0.4	275	1.0	366	1.8	458	2.8
203	233	0.4	350	0.8	466	1.5	583	2.4

For the pipes the pressure losses are referred to 1 m length pipe.

Figure Pressure losses graph (temperature 20° C)



Approvals:

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

HRV insulated flex hose

Flexible duct available in diameters 127, 160, 180 and 203 mm, made from additive polyolefin resin film, antibacterial and anti-mould and spiral in spring steel wire.

Thermally insulating cover in polyester fibre (thickness 25 mm/16 kg/m³). Exterior protection in aluminate film (flame retardant). The robust thermo-bonded polyester fibre avoids dispersion of the microfibers during the passage of air thus remaining intact over time. Suitable for controlled mechanical ventilation and air conditioning.

Reduction of condensation and heat loss.

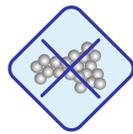


Table Insulated Flex characteristics

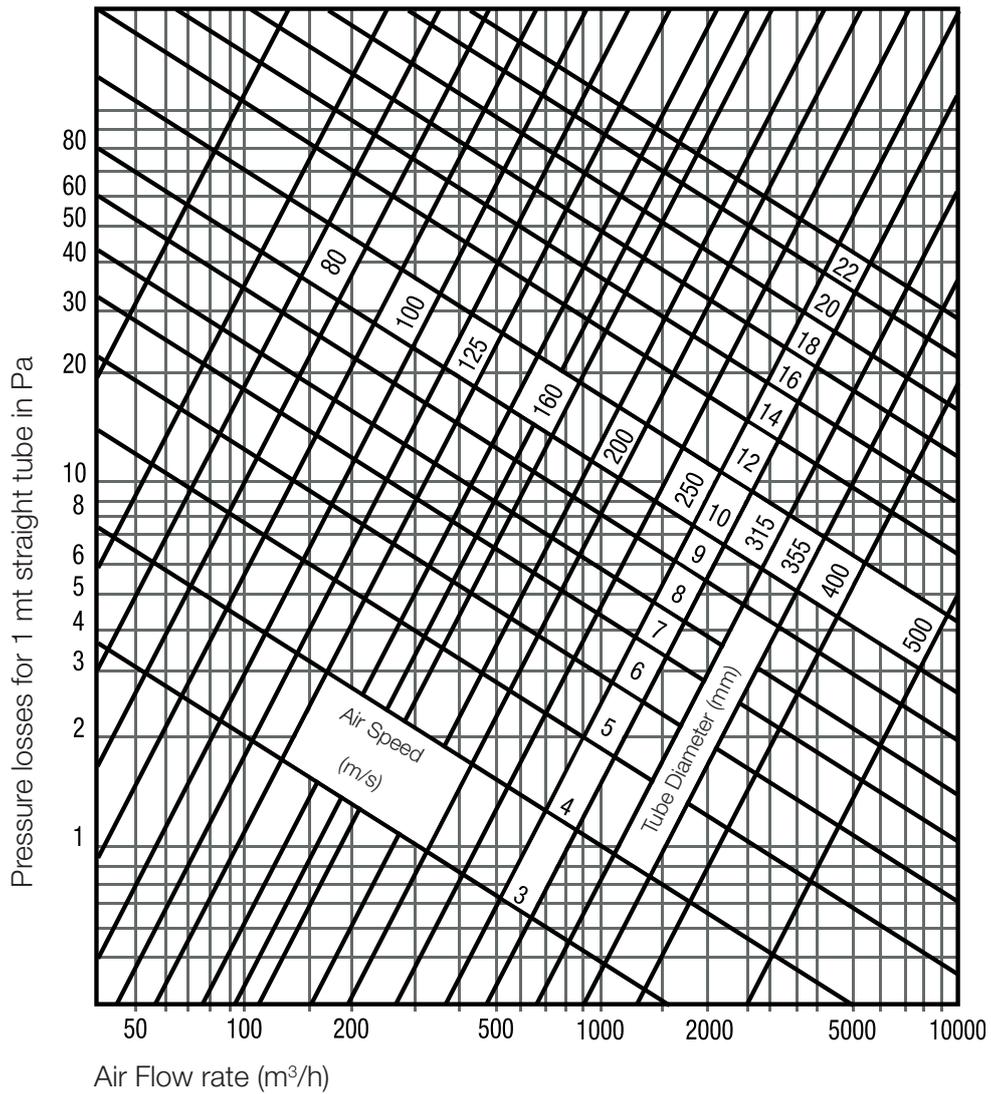
Characteristics	
Raw material	Polyolefin resin film and antibacterial/anti-mould master, spring steel wire spiral. Thermal insulation covering of polyester fibre.
Working temperature	min. -20° max. +90° (+110° peak)
Available diameters	127, 160, 180, 203
Available length	10 m
Bending radius	0,8 - 1.5 Ø
Fire resistance	Class B-s1, d0 (EN 13823:2010) - TUBE Class B-s2,d0 (UNI EN 13501-1:2009) - INSULATION
Transportable fluid	Air
Applications	Air-conditioning - Mechanical Ventilation
Maximum air speed	20 m/s
Maximum pressure	200 mm c.a.
Colour	Grey (tube); Aluminium (Insulation)

Table Flex System

Diameters	Air speed 2 m/s		Air speed 3 m/s		Air speed 4 m/s		Air speed 5 m/s	
	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)
127	91	0.7	137	1.6	182	2.8	228	4.4
160	145	0.5	217	1.2	290	2.1	362	3.2
180	183	0.4	275	1.0	366	1.8	458	2.8
203	233	0.4	350	0.8	466	1.5	583	2.4

For the pipes the pressure losses are referred to 1 m length pipe.

Figure Pressure losses graph (temperature 20° C)



Approvals:

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HRV insulated Al Phon flex hose

Flexible duct available in diameters 127, 160, 180 and 203 mm, made with a wall in AL/PET/AL (aluminium/polyester/aluminium), micro perforated to reduce air noise, and spiral in spring steel wire. Thermally insulating cover in polyester fibre (thickness 25 mm/16 kg/m³).

The robust thermo-bonded polyester fibre avoids dispersion of the microfibers during the passage of air thus remaining intact over time.

Exterior protection in aluminate polyolefin film (flame-retardant).

Ideal for controlled mechanical ventilation and air conditioning.

Reduction of condensation and heat loss.



Table Insulated Al phon Flex characteristics

Characteristics	
Raw material	Flexible duct made with AL/PET/AL micro-perforated walls to reduce air-flow noise and spring steel wire helix. Thermal insulation covering of polyester fibre. Aluminised polyolefin wire external protection.
Working temperature	min. -30° max. +140° (+180° peak)
Available diameters	127, 160, 180, 203
Available lenght	10 m
Bending radius	0,8 - 1.5 Ø
Fire resistance	Class 1 e M0 - M1 - M1
Transportable fluid	Air
Applications	Air-conditioning - Mechanical Ventilation
Maximum air speed	32 m/s
Maximum pressure	250 mm c.a.
Colour	Grey (tube); Alluminium (Insulation)

Table Insulated Al phon Flex Pressure losses

Diameters	Air speed 2 m/s		Air speed 3 m/s		Air speed 4 m/s		Air speed 5 m/s	
	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)	Flow rate m ³ /h	Pressure losses (Pa)
127	91	0.7	137	1.6	182	2.8	228	4.4
160	145	0.5	217	1.2	290	2.1	362	3.2
180	183	0.4	275	1.0	366	1.8	458	2.8
203	233	0.4	350	0.8	466	1.5	583	2.4

For the pipes the pressure losses are referred to 1 m length pipe.

Figure Pressure losses graph (temperature 20° C)

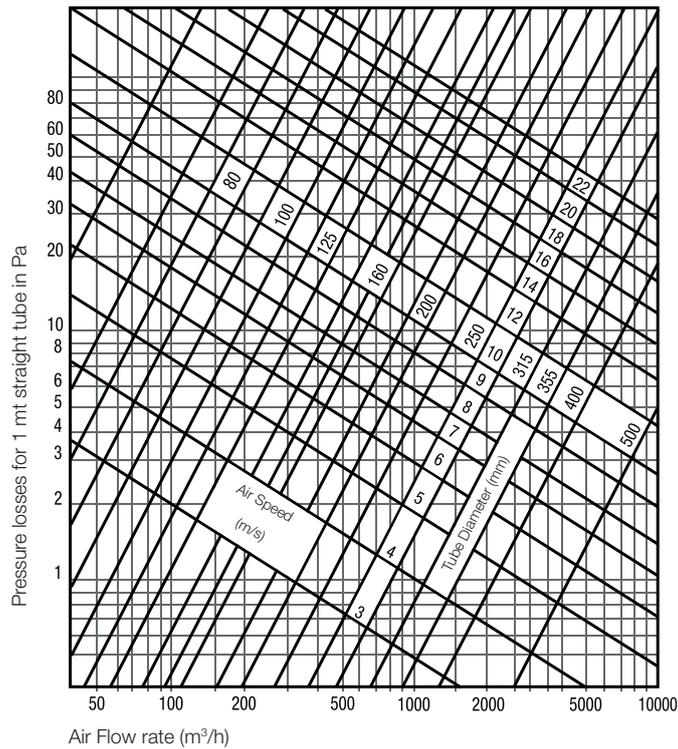
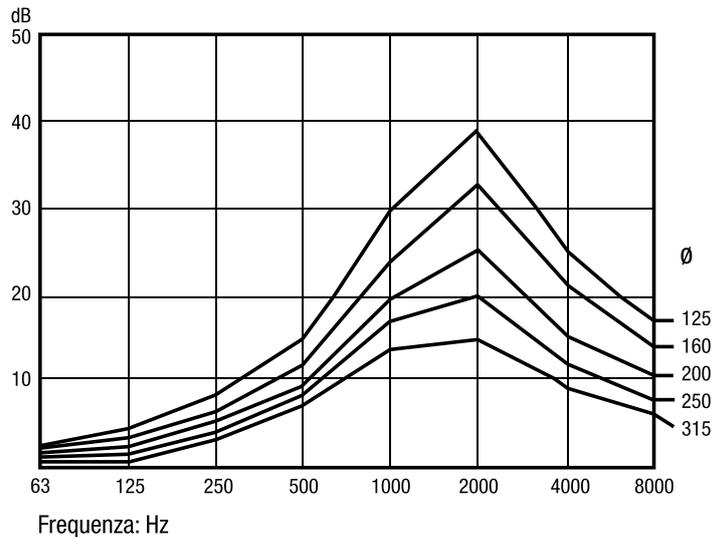


Figure Al phon Flex noise reduction (tube length 1 m)



Approvals:

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PLUMBING

WASTE SYSTEMS



SUPPLY SYSTEMS



GAS SYSTEMS



FLUSH SYSTEMS



BATHROOM SYSTEMS



TRAPS



RADIANT SYSTEMS



DRAINAGE SYSTEMS



HRV SYSTEM



ACADEMY



SEWER SYSTEMS



WATER TREATMENT



BUILDING

valsir[®]
QUALITY FOR PLUMBING

VALSIR S.p.A.
Località Merlaro, 2
25078 Vestone (BS) - Italy
Tel. +39 0365 877.011
Fax +39 0365 81.268
e-mail: valsir@valsir.it

www.valsir.com

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