Sound Attenuators - Semi Flexible

For use with Titon's HRV Q Plus Range

Titon's Semi Flexible Sound Attenuators consists of a strong multiple layered corrugated perforated aluminium inner duct with an aluminium/polyester laminated outer jacket.

The space between the inner and outer duct is filled with 25mm sound absorbing material which is protected by a vaper barrier. The duct is fitted with galvanised metal sleeves at both ends to fit to duct work - Female spigots for direct connection to MVHR's or duct connectors.

Our Semi Flexible Sound Attenuators fulfil all the requirements and are classified as specified within EN 13180: Ventilation for buildings – Duct work - Dimensions and mechanical requirements for flexible ducts.

Features & Benefits

- **High-flow performance and low resistance**
- **Reducing in-duct noise**
- **Reduces cross talk attenuation**
- **Available in 204 x 60mm and 220 x 90mm**
- **Lengths available 500mm, 1000mm and 1500mm**
- **Lightweight and easy to install**
- **Anti-corrosive**

Sielncers

Specification

Product Code	Product Type
89720	125mm ø Flexible Silencer 0.5m length F-F
89721	125mm ø Flexible Silencer 1m length F-F
89722	150mm ø Flexible Silencer 0.5m length F-F
89723	150mm ø Flexible Silencer 1m length F-F
89725	200mm ø Flexible Silencer 1m length F-F
89728	200mm ø Flexible Silencer 1m length F-F

Temperature range:

Inner duct:	-30°C to 250°C
Outer jacket	-30°C to 140°C
Operating pressure:	up to +2000 Pa
Operating air velocity:	max. 10 m/s
Min. bending radius:	1 x Ø + 25 mm
Standard length:	0.5 & 1.0 metres

Other diameters available to order.

Construction

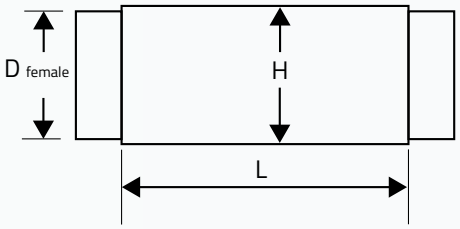
Inner duct:	Aluminium
Barrier	Nonwoven cloth
Glass wool blanket:	25mm, 16kg/m³
Outer jacket:	Alu/poly laminate
R-value glass wool:	0.65 m² K/W
Thermal Conductivity	0.0385w/(m.k)
Appearance:	Aluminium

Classification

EU (EN 13501-1):

Inner duct:	A1
Outer Jacket:	B-s1,d0 mode

Drawing and Dimensions

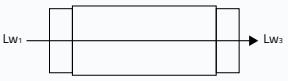


According to EN-1506		
D_{nom} (mm)	D_{female} (mm)	Tol.
125	125.5	+0 ; -0.5
150	150.6	+0 ; -0.6
200	200.7	+0 ; -0.7

Sound Attenuation

Length 500mm

Dn (mm)	H (mm)	L (mm)	L Compressed (mm)	Attenuation, dB - Mid-frequency, Hz							
				63	125	250	500	1000	2000	4000	8000
125	175	500	390	6.3	7.1	15.2	19.9	20.3	26.1	17.1	12.9
150	200	500	390	8.3	9.3	17.8	19.4	16.7	25	19.8	13.8
200	250	500	390	9.2	10	17.3	14.3	12.9	15.8	12	8.2

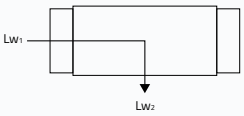


Length 1000mm

Dn (mm)	H (mm)	L (mm)	L Compressed (mm)	Attenuation, dB - Mid-frequency, Hz							
				63	125	250	500	1000	2000	4000	8000
125	175	1000	580	12.4	20.1	33.6	29.8	29.5	33.6	32.1	23.6
150	200	1000	580	11.1	11.8	34.2	28.5	26.3	34.9	27.2	21.8
200	250	1000	580	11.1	14.6	29.5	20.7	21	30	17.7	13.2

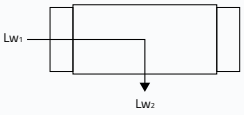
Attenuation Through The Duct Wall (Breakout) - Length 500mm

Dn (mm)	H (mm)	L (mm)	L Compressed (mm)	Attenuation, dB - Mid-frequency, Hz							
				63	125	250	500	1000	2000	4000	8000
125	175	500	390	25.3	22.5	17.2	11.9	11.2	11.5	13	18
150	200	500	390	24.8	19.6	14.2	9.6	8.9	10.3	12.6	18.1
200	250	500	390	22.8	17.2	11.9	8	7.2	6.9	9.5	13.7

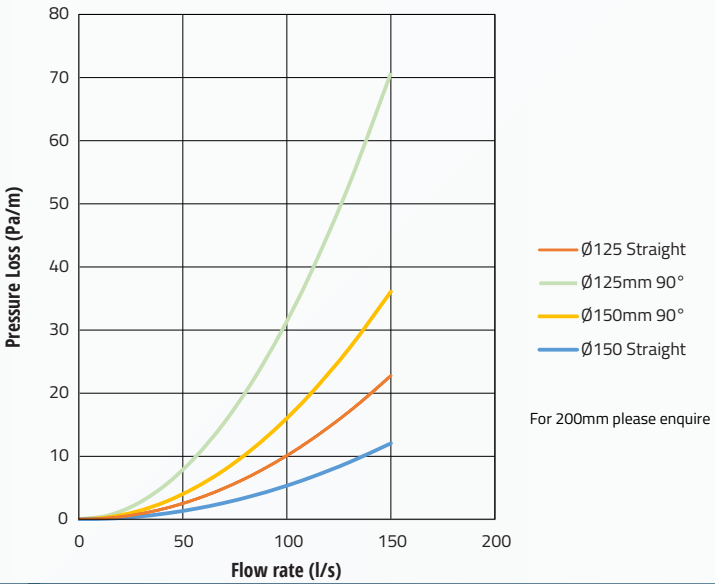


Attenuation Through The Duct Wall (Breakout) - Length 1000mm

Dn (mm)	H (mm)	L (mm)	L Compressed (mm)	Attenuation, dB - Mid-frequency, Hz							
				63	125	250	500	1000	2000	4000	8000
125	175	1000	580	25.2	21.6	18.7	13.2	12.2	12.5	14	17.5
150	200	1000	580	23.9	19.4	12.7	9	8	9.1	11.6	14.6
200	250	1000	580	21.8	17.8	12.9	9.3	8.4	8	10.5	13.9



Pressure Loss



For 200mm please enquire