

# Airflex Ducting Solutions

Semi-Flexible Insulated Sound Attenuator



## KEY FEATURES

- Suitable for all ventilation systems
- Reduces noise by up to 29 dB
- Insulation class complies with Building Regulations Part F
- Zero Leakage ensures highest performance
- Extremely low pressure loss
- 100mm - 250mm diameter as standard
- 2 male/male spigots with double lip seal
- Suitable for pressure up to +2000 Pa
- Temperature range from -30°C - +140°C

## AIRFLEX ROUND SEMI FLEXIBLE INSULATED SOUND ATTENUATORS

Airflex round semi flexible insulated sound attenuators can be used in conjunction with any ventilation system to help reduce noise ingress. The construction of these units consists of a multi layered, corrugated, perforated aluminium inner duct and an aluminium / polyester outer jacket.

Positioned between the two layers is a 25mm thick sound absorbing material. A membrane is fitted specifically to not let any condensation pass through the wall of the inner

duct. This eliminates any condensation build up between the inner duct and outer jacket. Male galvanised steel connections fitted on each end have a rubber double lip seal fitted, enabling easy leak free joints.

Due to its flexibility they can be used as a flexible connection between two ducts that are misaligned. They can also be used to helping minimise transferred mechanical vibration down ducting systems.



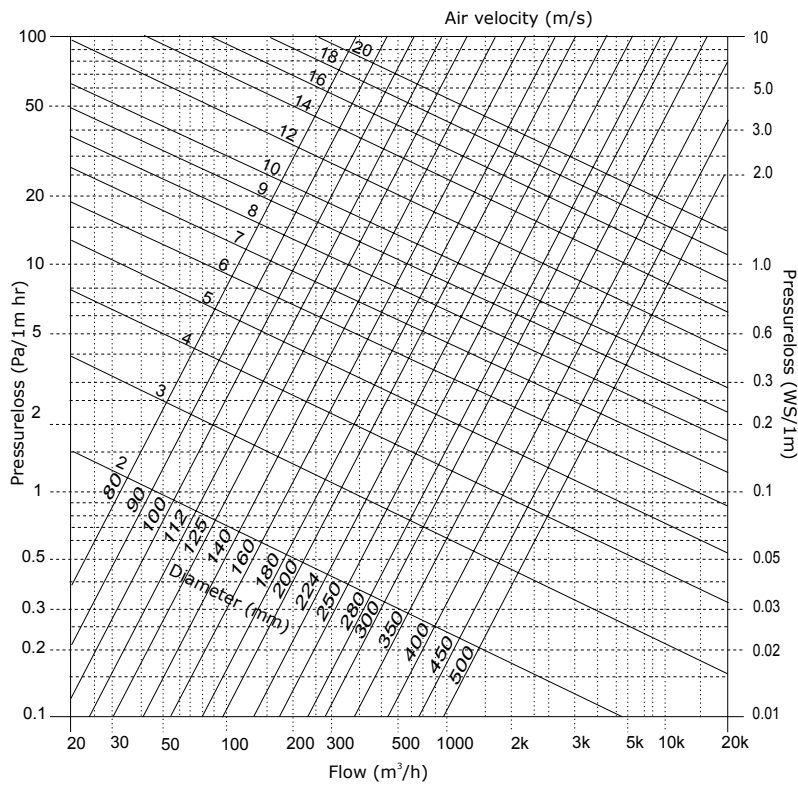
### Specification

Temperature Range	°C	-30 to 140
Operating Pressure	Pa	up to 2000
Operating Air Velocity	m/s	10 (max.)
Min. Bending Radius	mm	1 x Ø + 25mm
Inner Duct Material		Perforated Aluminium
Membrane		Non-woven cloth
Outer Jacket Material		Alu/Poly laminate

## TECHNICAL DATA

Part Number	Diameter of Duct (mm)	Length of Duct (mm)	Diameter Male Connection (mm)	Attenuation, dB - Mid-frequency, Hz this is the header for the next 8 columns								Di (dB)
				63	125	250	500	1000	2000	4000	8000	
90000642	100	500	99.3	11.9	11.4	22.6	26.8	22.1	29.2	25.8	16.7	26
90000643	125	500	124.3	6.3	7.1	15.2	19.9	20.3	26.1	17.1	12.9	22
90000644	150	500	149.3	8.3	9.3	17.8	19.4	16.7	25	19.8	13.8	21
90000645	160	1000	159.3	14.6	19.1	31.1	27	24.7	32.5	24	18.7	29
90000646	200	1000	199.3	11.1	14.6	29.5	20.7	21	30	17.7	13.2	23
90000947	250	1000	249.3	14.2	21.7	23.1	18.9	18.4	25.7	11.4	10.1	20

## SYSTEM PRESS LOSS



Further assistance is available from our technical support team

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