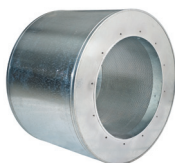# Circular Sound Attenuators
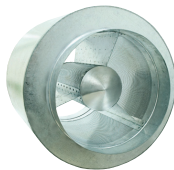
Circular passive attenuators

SAR 100
Spigot connection

SAR 100
Flange connection

SARP 100 *

Advantages
- Low pressure loss.
- Easy installation.

APPLICATION
- Attenuation of fan / AHU noises propagated through air ducting.
- Air exhaust and air supply.

DESCRIPTION
- Prefabricated sections of double walled round duct with solid outer shell and perforated inner shell with acoustic infill in between both shells.
- Designed to reduce fan noise meeting required noise levels such as NC and NR levels.

CONSTRUCTION
- Standard type SAR and podded type SARP available in different size range. Standard attenuator casing is manufactured from galvanized sheet metal in accordance to BS 2989 grade Z2 G275, casing are constrcuted with full seam welding, casing thickness complies with DW 144 Class B duct work code.
- Contains acoustic infill which complies with Class O building regulation. The infill has black glass tissue coating contained behind perforated sheet of 0.7mm thickness. This dual protection prevent damage and fibre erosion up to 30 m/s air way velocity.
- Available in diameter from 100 to 630 mm and incorporating absorbing partitions available in two densities.
- SAR 100: 100 mm thickness.

INSTALLATION
- Directly installed on a duct section.
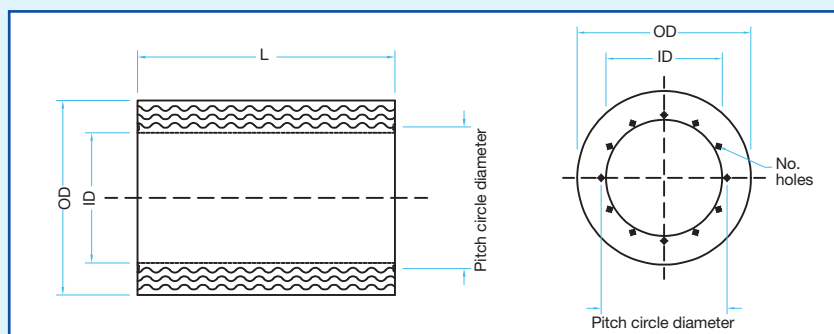- Horizontal / vertical installation.
- Indoor / outdoor.

RANGE

Description	Code
SAR 100 - Ø 100 mm	
SAR 100 - Ø 125 mm	
SAR 100 - Ø 160 mm	
SAR 100 - Ø 200 mm	
SAR 100 - Ø 250 mm	
SAR 100 - Ø 315 mm	
SAR 100 - Ø 400 mm	
SAR 100 - Ø 500 mm	
SAR 100 - Ø 630 mm	

* SARP 100 and other sizes of SAR 100 are also available upon request.

DIMENSIONS (mm)
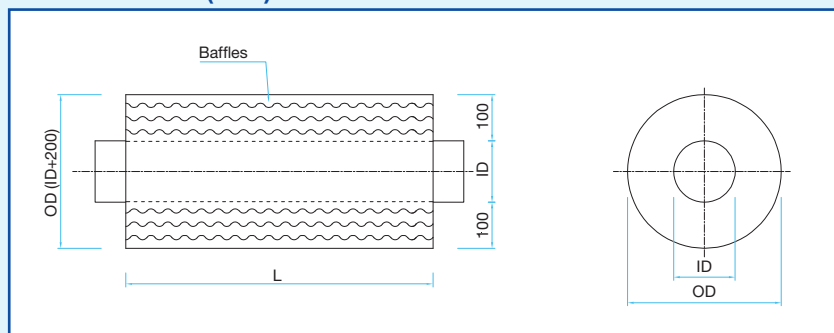
SAR 100 (spigot connection)

SAR 100 (flange connection)

INSERTION LOSS (dB)

Model	Length L	Octave centre frequency in Hz							
		63	125	250	500	1k	2k	4k	8k
100	300	6	8	13	20	26	30	30	24
125	300	6	7	12	19	24	29	28	21
160	300	5	6	9	14	20	22	22	16
200	600	6	9	13	22	27	32	21	18
250	600	6	7	12	21	26	29	19	17
315	600	5	7	10	16	20	22	16	15
400	900	3	5	9	19	26	20	13	10
500	900	3	4	9	15	23	17	12	8
630	1200	5	7	12	16	16	16	12	8