

CP01 - M10 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 100mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



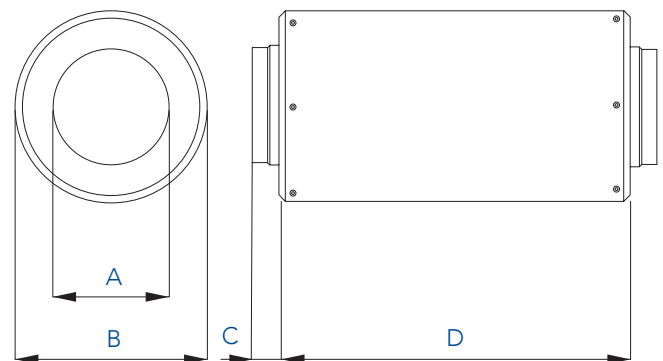
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M10 - 030	3	4	9	17	23	26	25	14
CP01 - M10 - 060	5	8	15	33	39	40	36	20
CP01 - M10 - 090	10	13	21	40	45	40	36	24
CP01 - M10 - 120	12	15	23	42	47	42	38	26

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M10 - 030	98	203	35	300	3
CP01 - M10 - 060	98	203	35	600	5
CP01 - M10 - 090	98	203	35	900	7
CP01 - M10 - 120	98	203	35	1200	9



CP01 - M12 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 125mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



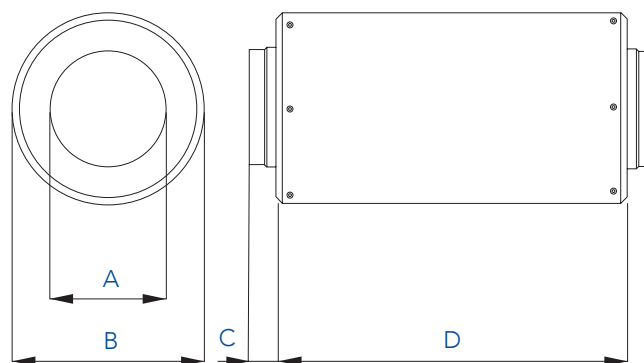
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M12 - 030	3	3	8	16	21	24	22	12
CP01 - M12 - 060	4	8	13	30	35	35	31	15
CP01 - M12 - 090	9	12	18	37	41	38	34	20
CP01 - M12 - 120	11	15	21	40	46	41	36	23

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M12 - 030	123	230	35	300	3
CP01 - M12 - 060	123	230	35	600	6
CP01 - M12 - 090	123	230	35	900	8
CP01 - M12 - 120	123	230	35	1200	10



CP01 - M15 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 150mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



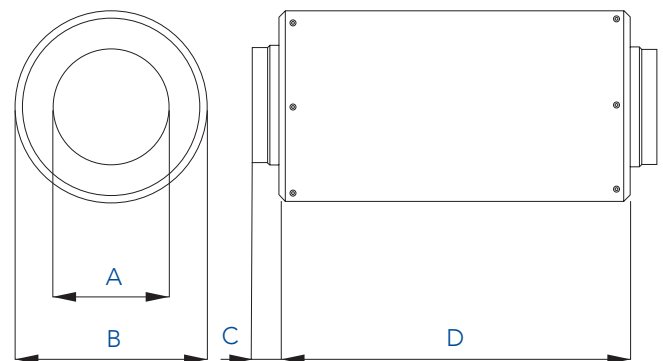
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M15 - 030	3	3	6	13	19	23	22	11
CP01 - M15 - 060	4	7	12	23	30	36	31	15
CP01 - M15 - 090	8	9	15	31	37	37	34	18
CP01 - M15 - 120	10	14	17	34	41	40	36	20

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M15 - 030	148	254	35	300	4
CP01 - M15 - 060	148	254	35	600	6
CP01 - M15 - 090	148	254	35	900	9
CP01 - M15 - 120	148	254	35	1200	11



CP01 - M20 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 200mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



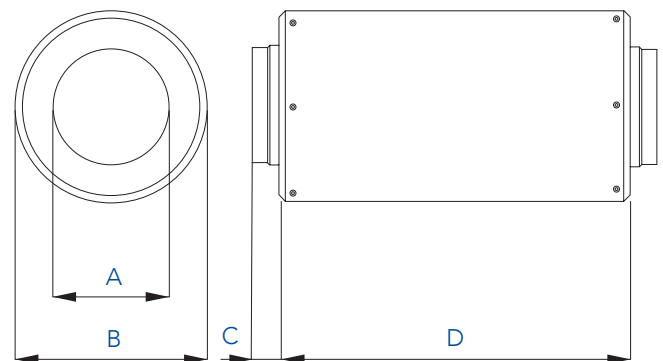
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M20 - 030	2	3	6	13	17	20	18	9
CP01 - M20 - 060	4	6	10	20	27	32	20	11
CP01 - M20 - 090	7	9	14	32	39	36	26	15
CP01 - M20 - 120	10	12	17	35	41	44	28	16

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M20 - 030	198	302	35	300	4
CP01 - M20 - 060	198	302	35	600	8
CP01 - M20 - 090	198	302	35	900	11
CP01 - M20 - 120	198	302	35	1200	15



CP01 - M25 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 250mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



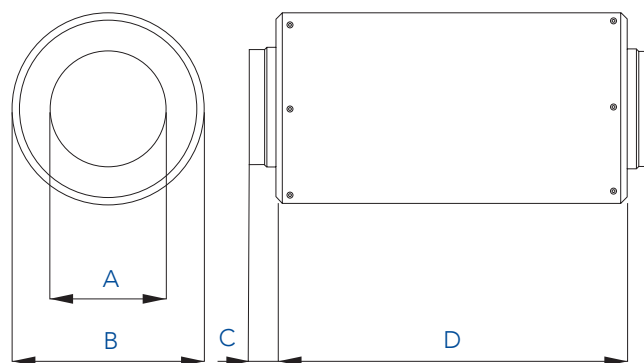
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M25 - 030	2	3	6	12	16	19	17	8
CP01 - M25 - 060	3	6	10	19	25	29	18	10
CP01 - M25 - 090	5	8	12	24	30	30	22	14
CP01 - M25 - 120	7	10	15	31	37	38	26	15

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M25 - 030	248	352	35	300	5
CP01 - M25 - 060	248	352	35	600	9
CP01 - M25 - 090	248	352	35	900	13
CP01 - M25 - 120	248	352	35	1200	17



CP01 - M30 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 300mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



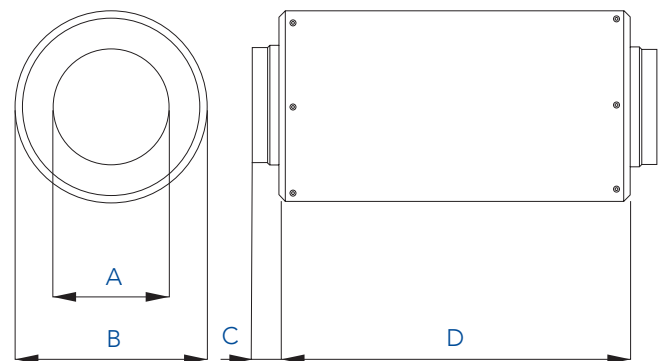
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M30 - 030	2	3	6	12	15	18	16	8
CP01 - M30 - 060	3	5	9	16	22	24	16	14
CP01 - M30 - 090	4	7	10	20	31	28	17	14
CP01 - M30 - 120	6	9	14	23	32	32	18	15

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M30 - 030	298	401	35	300	6
CP01 - M30 - 060	298	401	35	600	11
CP01 - M30 - 090	298	401	35	900	15
CP01 - M30 - 120	298	401	35	1200	20



CP01 - M31 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 315mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



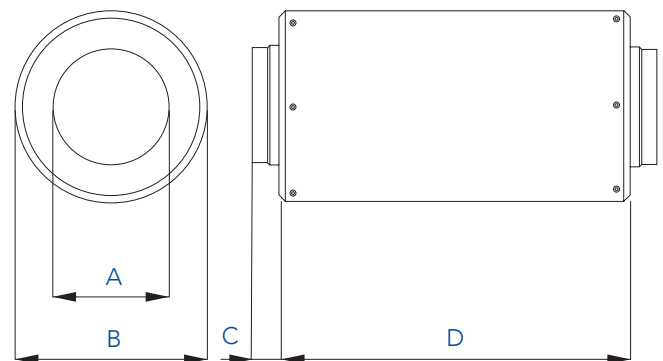
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M31 - 030	1	3	6	12	15	18	16	8
CP01 - M31 - 060	3	5	8	16	21	22	16	14
CP01 - M31 - 090	4	7	10	20	31	28	17	14
CP01 - M31 - 120	6	9	14	23	32	32	18	15

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M31 - 030	313	418	35	300	6
CP01 - M31 - 060	313	418	35	600	11
CP01 - M31 - 090	313	418	35	900	15
CP01 - M31 - 120	313	418	35	1200	20



CP01 - M35 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 355mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



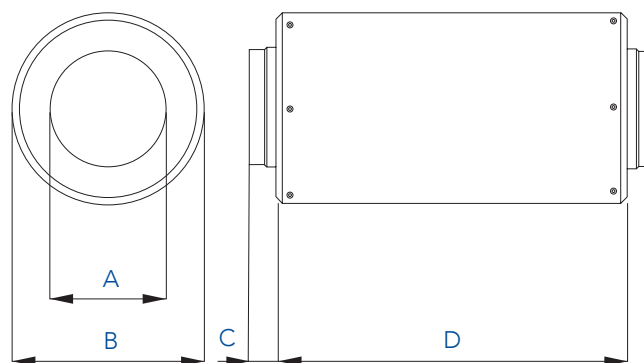
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M35 - 030	1	3	6	12	15	18	16	8
CP01 - M35 - 060	3	5	8	16	21	22	16	14
CP01 - M35 - 090	4	7	10	20	31	28	17	14
CP01 - M35 - 120	6	9	14	23	32	32	18	15

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M35 - 030	353	458	35	300	7
CP01 - M35 - 060	353	458	35	600	12
CP01 - M35 - 090	353	458	35	900	18
CP01 - M35 - 120	353	458	35	1200	23



CP01 - M40 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 400mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



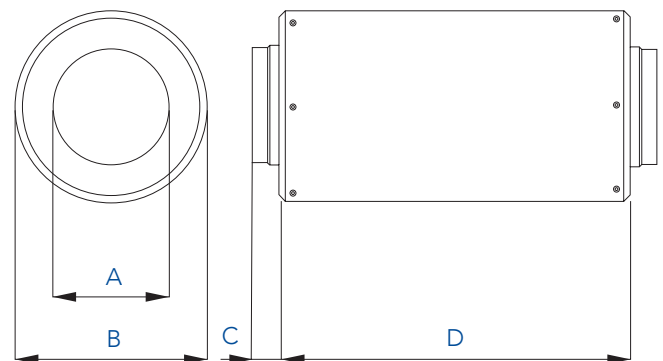
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M40 - 030	1	2	4	11	15	15	12	8
CP01 - M40 - 060	2	4	7	14	17	18	14	11
CP01 - M40 - 090	3	6	9	18	26	23	15	12
CP01 - M40 - 120	5	8	13	22	30	27	17	12

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M40 - 030	398	502	35	300	7
CP01 - M40 - 060	398	502	35	600	12
CP01 - M40 - 090	398	502	35	900	18
CP01 - M40 - 120	398	502	35	1200	23



CP01 - M45 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 450mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



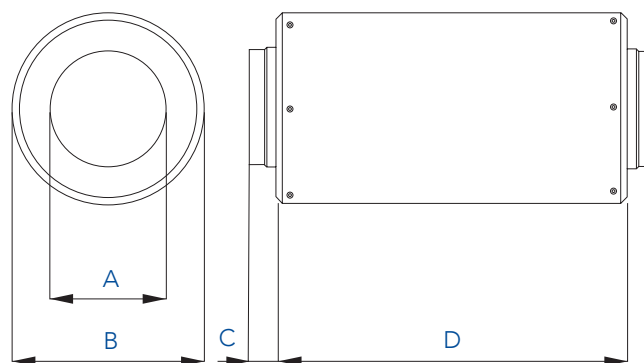
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M45 - 030	1	1	4	10	14	15	12	7
CP01 - M45 - 060	2	4	6	14	16	16	13	11
CP01 - M45 - 090	3	6	8	17	24	21	15	11
CP01 - M45 - 120	4	8	13	20	29	25	16	11

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M45 - 030	448	552	35	300	8
CP01 - M45 - 060	448	552	35	600	15
CP01 - M45 - 090	448	552	35	900	22
CP01 - M45 - 120	448	552	35	1200	32



CP01 - M50 Silencer

Available in four standard lengths, M-Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated galvanised steel liner.

- Fits directly into 500mm diameter ducting
- Standard lengths 300, 600, 900 & 1200mm
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



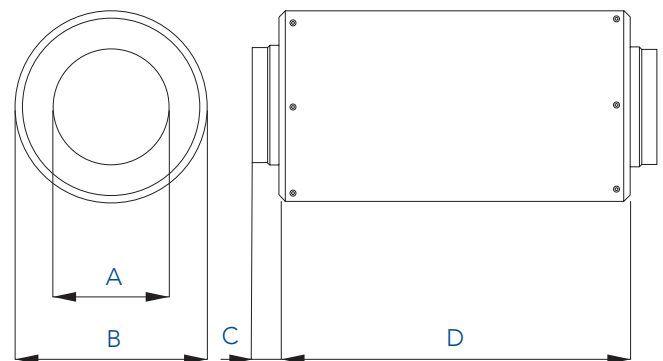
Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M50 - 030	1	1	3	10	14	14	11	7
CP01 - M50 - 060	2	4	6	14	16	16	13	11
CP01 - M50 - 090	3	6	8	17	24	21	15	11
CP01 - M50 - 120	4	8	12	19	28	23	16	12

Typical noise reduction data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Dimensional Data

Product Code	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
CP01 - M50 - 030	498	602	35	300	9
CP01 - M50 - 060	498	602	35	600	16
CP01 - M50 - 090	498	602	35	900	24
CP01 - M50 - 120	498	602	35	1200	32



Material & Finish

All casings are manufactured from mill finish hot dip galvanised mild steel conforming to EN10327 (BS2989) including the flow formed one piece end fittings. To prevent erosion of absorbing materials the M Series Silencers are fitted with a perforated liner manufactured from galvanised mild steel conforming to EN10327 (BS2989). The M Series Silencers utilise acoustic grade mineral fibre absorbing infill and are manufactured to the HVCA specification DW144 class B and M&E 100 for sheet steel thickness and stiffening.

Pressure Up to 1000 Pascals positive and negative.

Temperature -12° to +70°C.

Location Internally & externally mountable.

Melinex Lining (Optional)

Where moist conditions exist (e.g. process systems) or for critically clean applications (e.g. hospitals) the sound absorbing material may be required to be fully sealed by Melinex lining to prevent fibre migration. This will however, effect the acoustic performance of the silencer. Please contact us to discuss your requirements.

Alternative Specification

The above specification refers to our standard stock range. We can also supply custom made M Series Silencers with alternative dimensions, temperature ratings, construction materials and product finishes. Please contact us for further information and advice.

Example CP01 - M10 - 030. **CP01** Product group code.

M10 Diameter code (10 = 100mm). **030** Length code (030 = 300mm)

Cleaning & Maintenance

Should the airways require routine cleaning we recommend low-pressure air blasting, vacuuming or wiping the exposed surfaces with a damp cloth. It is not unusual for "White Zinc Oxide" to develop on galvanised silencers when the zinc in the galvanising reacts electrolytically with moisture. Silencers are of a passive nature and as such require no routine maintenance or lubrication.

Installation

For recommendations for the support of the silencer the principles of Part Six (pages 43-46) of the HVCA DW144 standard should be followed. It is important that the recommendations in the table are adhered to when locating the silencer in relation to other duct-mounted equipment. If the silencers are to be used in conjunction with equipment not listed please enquire for advice.

Equipment	Location
Centrifugal Fans	Direct couple only at the same size; use an inlet cone if open after silencer.
Axial Fans	Direct couple only at the same size. Use an inlet cone if open after silencer.
Mixed Flow Fans	Direct couple only at the same size. Use an inlet cone if open after silencer.
Ductwork Bends	Direct couple only at the same size.
Ductwork Reducers	Direct couple only with reducers of maximum 15° cheek slope.
Finned Coils & Filters	Leave 200mm plenum between silencer and coil or filter, and suitable reducer as specified in HVCA DW/144 1998.

Inspection

For inspection access the recommendations set out in Heating & Ventilating Contractors Association specification DW144 1998, appendix M – Guidance Notes for Inspection, Servicing and Cleaning Access Openings, should be followed. We would suggest Level 2 one 300mm x 200mm-inspection panel downstream or Level 3 one 300mm x 200mm inspection door each side of the silencer. Refer to table 25 of DW144 or Section 2 of HVCA specification TR17 for further recommendations.

It is our recommendation that the silencers are inspected periodically to ensure that the airways are free from obstructions and no dust or foreign matter has collected and blocked the holes in the perforated liner elements.