

C series Cylindrical Attenuators

A comprehensive range of cylindrical attenuators, matched to fit directly to all types of metric axial fan flanges or to ducting via optional matching flanges. Two alternative sets of threaded inserts are incorporated into the end faces of each attenuator to match most fan mounting requirements (see drawing for A and B hole patterns).

Available as standard in lengths of one x diameter (suffix 1) or two x diameter (suffix 2).

Excellent attenuation properties are achieved using sound absorbing acoustic infill, which is glass tissue faced as standard to minimise fibre migration and retained within the attenuator casing by a perforated liner.

- Standard sizes 250mm to 1000mm diameter
- Special sizes on request
- Supplied fully packaged, boxed or palletised
- Maximum temperature 200°C (standard construction)
- Maximum pressure 1500 Pa

Material and finish

Casing; galvanised mild steel (BS2989), seams are sealed lockformed type with spun galvanised steel end rings.

Inner lining; perforated galvanised mild steel (BS2989).

Sound absorbing material; mineral fibre slabs, faced with glass tissue.

Manufactured to HVCA specification DW142 class B and M&E 100 for sheet steel thickness and stiffening.

Pod kits – optional (can be retro-fitted)

Centrally mounted into the C series attenuators, with aerodynamic profile on each end. They substantially improve acoustic performance across the entire sound spectrum - refer to Attenuation Data. Supplied with all required fittings, installation is quick and easy.

Material and finish

Central duct; perforated galvanised mild steel (BS2989).

End cones; spun, galvanised steel.

Melinex lining – optional

Where moist or greasy ambient conditions exist (e.g. kitchen 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 any fibre migration. This will however, affect the acoustic performance of the silencer.

Please contact Stuart Acoustics to discuss your requirements.

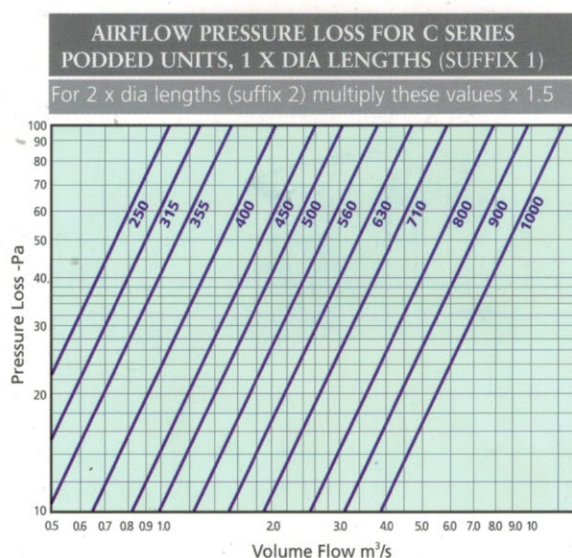
Accessories

An extensive range of matching flanges, mounting feet/plates, flexible connectors, anti-vibration mounts are available to complement the attenuators.

Please contact Stuart Acoustics for further details.

Alternative product specifications

The above specification refers to our standard, stock range. We can also supply custom made C series attenuators with alternative dimensions, flange specification, temperature ratings, construction materials and product finishes. Please contact our Technical Department for further information.



C SERIES STANDARD UNITS, INSERTION LOSS PERFORMANCE DATA

C SERIES STANDARD UNITS, INSERTION LOSS PERFORMANCE DATA															
EXCLUDING POD KIT								INCLUDING FITTED POD KIT							
CENTRE BAND FREQUENCY								CENTRE BAND FREQUENCY							
63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	2	2	8	10	8	8	7	2	6	8	13	21	24	22	18
1	3	4	13	18	12	12	10	3	12	13	23	29	29	19	20
1	2	4	9	11	10	9	7	2	7	8	14	22	25	22	19
2	2	5	13	18	12	11	10	3	13	14	23	30	30	20	25
2	3	5	11	13	11	10	8	2	6	8	11	22	24	21	16
3	4	7	14	18	15	11	10	3	10	15	22	29	30	29	22
2	3	5	10	13	11	9	8	2	7	9	15	23	25	21	17
3	4	8	14	18	14	11	9	3	10	14	24	30	29	28	21
2	3	6	12	13	11	9	7	2	6	8	16	23	23	21	16
3	4	8	17	18	15	11	10	3	7	12	22	29	29	25	20
2	3	6	14	14	12	10	5	2	7	9	17	24	24	20	16
3	7	8	19	20	17	14	11	4	10	16	26	29	29	29	20
2	4	7	14	14	9	9	7	3	7	9	18	24	24	20	15
3	6	10	19	20	14	12	10	4	9	17	27	29	28	23	23
2	5	7	15	13	9	9	8	3	5	9	18	25	22	18	13
4	7	13	21	21	14	13	12	5	9	18	28	30	29	24	19
3	5	9	15	14	10	9	8	3	5	10	19	25	22	18	14
4	9	16	22	23	17	13	9	5	9	17	28	29	30	26	20
3	5	9	16	14	10	8	8	4	5	10	15	25	22	19	14
4	6	10	21	23	17	12	10	5	8	18	29	30	29	27	19
3	5	10	17	15	11	9	8	5	6	11	21	23	22	17	13
4	6	13	22	21	14	12	11	5	11	18	29	30	26	19	16
4	6	11	17	15	11	9	8	5	6	13	22	25	21	17	14
5	10	16	23	23	16	13	11	5	10	19	29	30	27	22	18
															C SERIES EXCLUDING POD
															1100-C*1-0250
															1100-C*2-0250
															1100-C*1-0315
															1100-C*2-0315
															1100-C*1-0355
															1100-C*2-0355
															1100-C*1-0400
															1100-C*2-0400
															1100-C*1-0450
															1100-C*2-0450
															1100-C*1-0500
															1100-C*2-0500
															1100-C*1-0560
															1100-C*2-0560
															1100-C*1-0630
															1100-C*2-0630
															1100-C*1-0710
															1100-C*2-0710
															1100-C*1-0800
															1100-C*2-0800
															1100-C*1-0900
															1100-C*2-0900
															1100-C*1-1000
															1100-C*2-1000

The figures shown are derived from Stuart Acoustics ongoing test programme in accordance with BS 4718:1971 static test procedures which are considered more reliable than dynamic tests which can be affected by external variables. Please note that 63Hz figures are for guidance only as they are not covered by the BS4718 test procedure.