

CIRCULAR DUCT ATTENUATORS



C Series



CP Series

DESCRIPTION

Fantech Circular duct attenuators are designed to be directly attached to fans or in-line with circular ductwork.

The range of circular attenuators is as follows:

C Series - Open Circular Attenuators

Ideal for most HVAC and industrial applications. Available in fixed internal diameters with two lengths, nominally one or two times the inner diameter of the attenuator. They produce nominal increases in air flow pressure drop over plain duct. This range is suitable for dry applications. Refer to the C..QS and C.P.QS Series for applications where moisture may be present in the air stream.

C.P Series - Padded Circular Attenuators

The C Series circular attenuator can be fitted with a full length acoustically absorptive pod. Ideal for applications where additional acoustic performance is required over the C Series and higher air flow pressure loss can be accepted (see *H-10*).

C..QS and C.P.QS Series - Circular Q-Seal Attenuators

The Circular Q-Seal attenuators include the qualities of the C and C.P series attenuators and incorporate an infill system fully wrapped in an impermeable plastic membrane/film. The C..QS and C.P.QS Series are suitable in medical and clean room applications and any sensitive ventilation systems requiring a wrapped infill material to prevent the possibility of insulation fibre ingress into the airstream. They are also suitable where the insulation medium is directly exposed to weather, grease, liquid or dusts. Attenuators of these model types may also be cleaned periodically by low-pressure steam or pressure washer equipment.

CONSTRUCTION

- Casing and structure made from Z275 zinc coated galvanized steel.
- Alternative material of construction available including SS304, SS316 and 5000 Series Aluminium.
- Infill from bio-soluble acoustic grade glasswool or mineral wool.
- C Series has a fiberglass membrane to minimize fibre egress from the infill into the air stream.
- Q-Seal variants have infill material fully wrapped in PET plastic film.

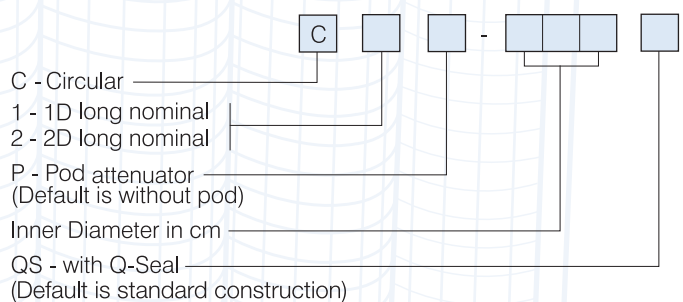
PERFORMANCE DATA

Acoustic and Performance Datasheets based on Testing to BS4718:1971 may be accessed by using the 'Fans By Fantech' Product Selection Program.

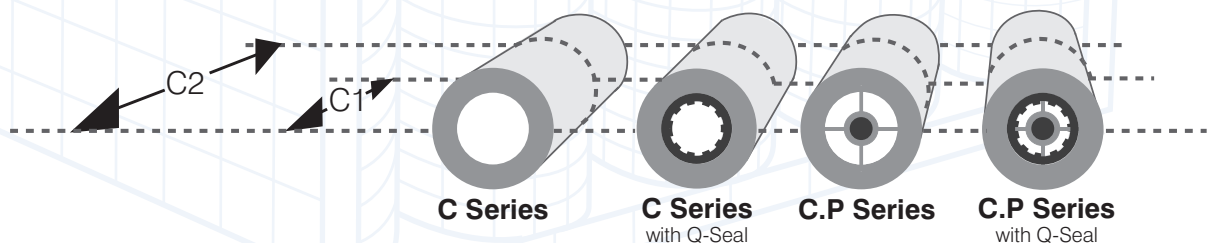
SUGGESTED SPECIFICATION

Circular attenuators shall be of the C Series as designed and manufactured by Fantech Pty. Ltd. and shall have the dimensions, acoustic insertion losses and pressure losses as scheduled. Casing and end flanges shall be constructed from forming grade zinc-coated mild steel sheet. The infill material shall be either rockwool or fibreglass as specified by the manufacturer. The infill material shall be covered with a gauze scrim to prevent erosion of the fibres, then encased in galvanised perforated sheet metal.









HOW TO ORDER



RANGE AVAILABLE



ACOUSTIC PERFORMANCE DATA

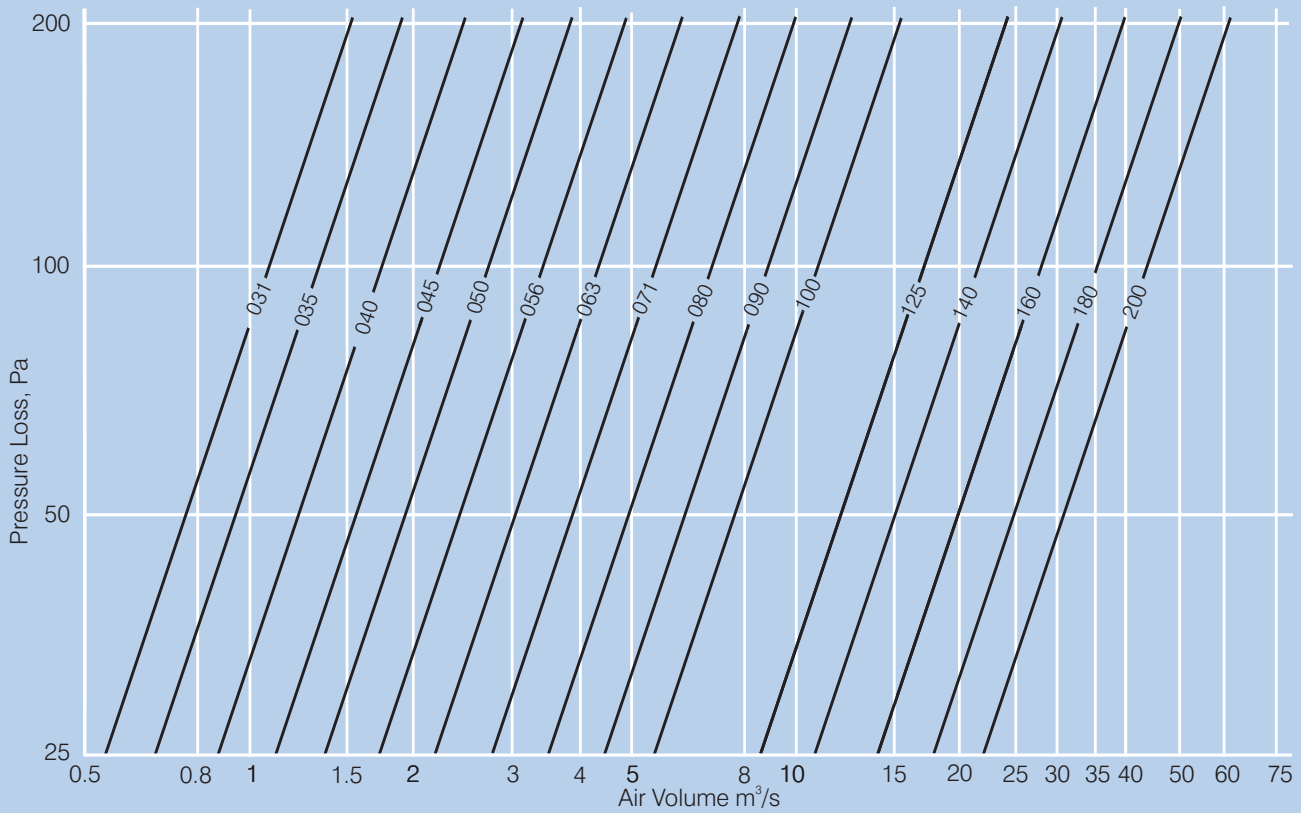
	General fan noise dB(A) reduction*				Low Frequency biased noise dB(A) reduction*			
	 C1... Standard Series	 C1P... Standard with Pod Series	 C2... Standard Series	 C2P... Standard with Pod Series	 C1... Standard Series	 C1P... Standard with Pod Series	 C2... Standard Series	 C2P... Standard with Pod Series
Standard Series								
Models C1... C1P... C2... C2P...								
...-031	9	14	14	20	5	8	8	12
...-035	9	14	15	20	5	8	9	12
...-040	9	15	15	20	5	8	9	12
...-045	9	15	15	20	5	8	9	12
...-050	9	15	15	21	5	8	9	13
...-056	9	15	16	21	6	8	10	13
...-063	10	15	16	23	6	9	10	14
...-071	10	15	16	23	7	9	11	14
...-080	10	15	16	23	7	9	11	14
...-090	9	15	14	23	7	10	11	15
...-100	9	15	15	23	7	10	11	15
...-125	9	15	14	22	8	10	11	15
...-140	9	14	14	22	8	10	13	16
...-153	8	13	13	22	9	10	12	18
...-160	8	13	13	22	9	10	12	18
...-180	8	13	12	22	9	10	12	18
...-200	8	13	12	22	9	10	12	18
Q-Seal Series								
Models C1...QS C1P...QS C2...QS C2P...QS								
...-031	6	12	12	17	4	7	7	10
...-035	6	12	12	17	4	7	7	10
...-040	6	12	12	17	4	7	7	10
...-045	7	12	12	17	4	7	7	10
...-050	7	12	12	18	4	7	7	10
...-056	7	12	13	18	4	7	8	10
...-063	7	13	13	20	5	7	8	12
...-071	7	13	13	20	5	7	9	12
...-080	7	12	13	20	5	7	9	12
...-090	7	12	12	19	6	8	9	12
...-100	7	12	12	19	6	8	9	13
...-125	6	12	12	18	6	8	9	13
...-140	6	11	11	18	6	8	10	14
...-153	6	10	10	18	7	8	10	15
...-160	6	10	10	18	7	8	10	15
...-180	6	10	10	18	6	8	10	15
...-200	6	10	10	18	6	8	10	15

* See pages H-2 and H-3 for more information on general fan noise reduction and low frequency bias noise reduction.

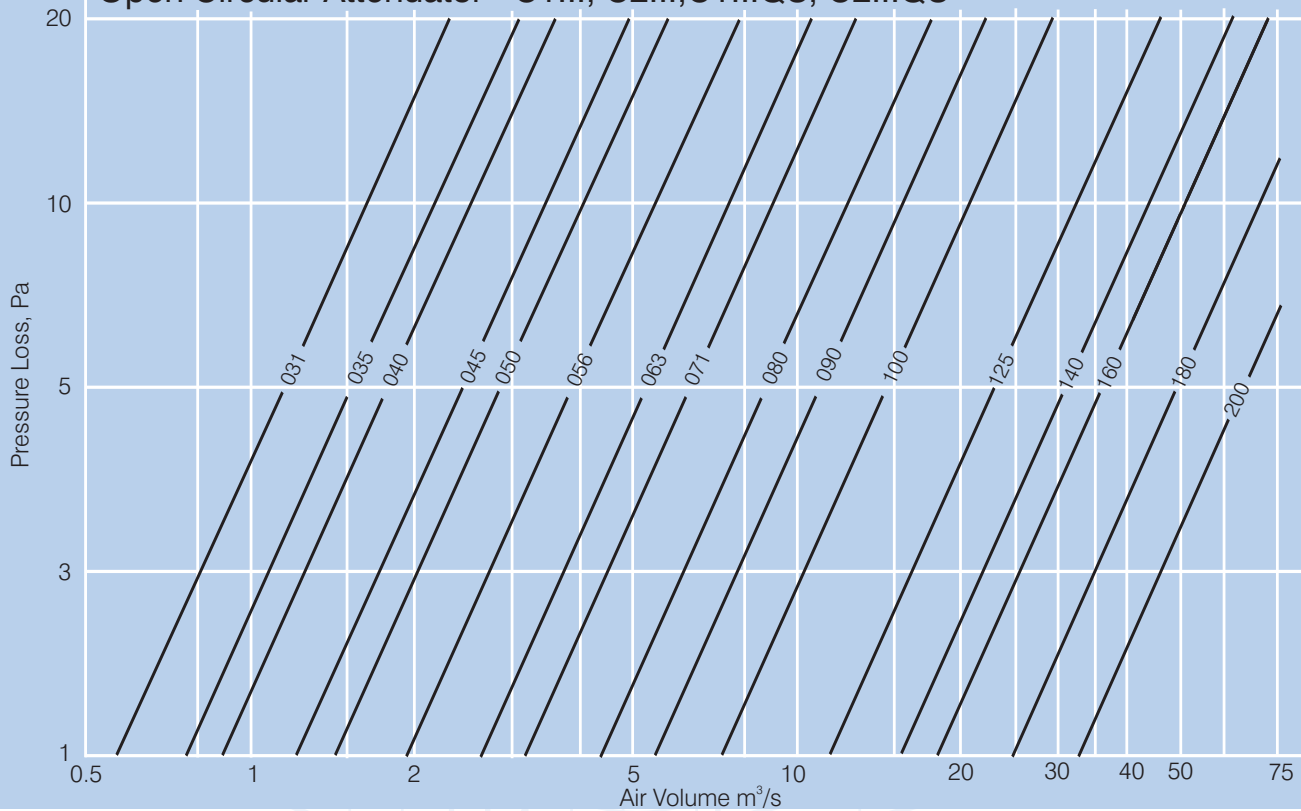
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PRESSURE DROP GRAPHS

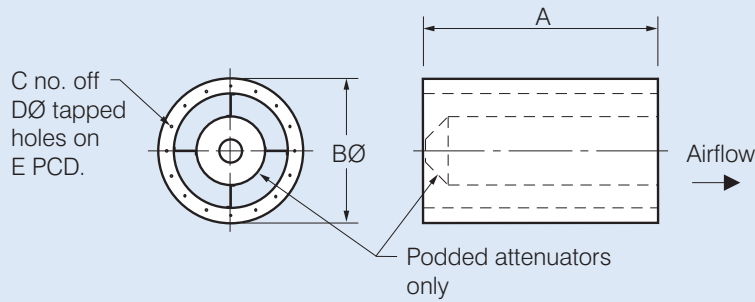
Podded Circular Attenuator - C1P..., C2P..., C1P...QS, C2P...QS



Open Circular Attenuator - C1..., C2..., C1...QS, C2...QS



DIMENSIONS & WEIGHTS



Model	A		Dimensions, mm				Approx. weight, kg*			
	Type C1	Type C2	BØ	C	DØ	E	Open		Pod	
C1-Dia.	C1	C2					C1	C2	C1P	C2P
-031	300	600	481	8	M6	355	13	26	15	30
-035	300	600	521	8	M6	395	14	28	16	32
-040	600	900	566	8	M8	450	23	34	25	38
-045	600	900	616	8	M8	500	25	38	33	50
-050	600	1150	666	12	M8	560	27	52	36	70
-056	600	1150	730	12	M8	620	30	57	41	75
-063	600	1150	800	12	M8	690	34	64	47	90
-071	900	1500	880	16	M8	770	50	83	70	116
-080	900	1500	970	16	M8	860	55	92	78	130
-090	1150	1800	1070	16	M8	970	74	116	106	166
-100	1150	1800	1220	16	M10	1070	90	140	127	198
-125	1150	2400	1470	20	M10	1320	110	229	158	329
-140	1150	2400	1620	20	M10	1470	122	254	177	369
-160	1800	3600	1820	24	M12	1680	195	389	286	571
-180	1800	3600	2020	24	M12	1880	217	434	321	642
-200	1800	3600	2220	24	M12	2080	241	482	357	713

*To determine weights of Q-Seal attenuators multiply the weights shown above by 0.85