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SILENCER

- Small metric range of attenuators with spigot connection
- Ideal for small fans
- Ideal for cross talk elimination
- Ideal for flexible or spiral ducting

Construction

Both types are rigidly constructed in galvanised sheet steel, with a highly absorbent sound attenuating lining between the outer casing and the inner perforated steel lining. The end faces of the silencer do not have threaded holes for fixings, but has a steel spigot for ease of mounting.

Silencer Attenuation

To determine the sound level of a fan fitted with a silencer, the dynamic insertion loss should be subtracted from the sound power level spectrum (dBW) of the fan. This should be done for the entire octave band mid-frequency spectrum. The fan dBW ratings and silencer attenuation apply equally to in duct applications, with a silencer connected between the fan and the duct system.

Dynamic Insertion Loss

The silencer attenuation is defined as the “dynamic insertion loss”. The values quoted in the tables represent the difference between the sound power level of a fan and silencer combination (dBW) and that of the fan alone (dBW). The dynamic insertion losses shown are the attenuations recorded under ideal working conditions. The achieved attenuation will vary according to the air velocity and flow pattern in the airways. Noise regeneration can occur at higher velocities, especially in EP silencers.

Square / Rectangular Silencers

In highly noise sensitive areas, where the circular silencers cannot achieve the necessary attenuation levels, we can design and build optional splitter silencers for greater effect.

SPIGOT SILENCER

Dynamic Insertion Loss

Spigot Ø100-500

Length	Insertion Loss @ Octave band (Hz)							
	63	125	250	500	1K	2K	4K	8K
300mm	-3	-4	-9	-17	-23	-26	-25	-14
600mm	-5	-8	-15	-33	-39	-40	-36	-20
900mm	-10	-13	-21	-40	-45	-40	-36	-24
1200mm	-12	-15	-23	-42	-47	-42	-38	-26
300mm	-3	-3	-8	-16	-21	-24	-22	-12
600mm	-4	-8	-13	-30	-35	-35	-31	-15
900mm	-9	-12	-18	-37	-41	-38	-34	-20
1200mm	-11	-15	-21	-40	-46	-41	-36	-23
300mm	-3	-3	-6	-14	-19	-23	-22	-11
600mm	-4	-7	-12	-23	-30	-36	-31	-15
900mm	-8	-9	-15	-31	-37	-37	-34	-18
1200mm	-10	-14	-17	-34	-41	-40	-36	-20
300mm	-3	-3	-6	-14	-19	-23	-22	-11
600mm	-4	-7	-12	-23	-29	-35	-30	-15
900mm	-8	-9	-15	-31	-37	-37	-34	-18
1200mm	-10	-14	-18	-33	-40	-39	-35	-18
300mm	-2	-3	-6	-13	-17	-20	-18	-9
600mm	-4	-6	-10	-20	-27	-32	-20	-11
900mm	-7	-9	-14	-32	-39	-36	-26	-15
1200mm	-10	-12	-17	-35	-41	-44	-28	-16
300mm	-2	-3	-6	-12	-16	-19	-17	-8
600mm	-3	-6	-10	-19	-25	-29	-18	-10
900mm	-5	-8	-12	-24	-30	-30	-22	-14
1200mm	-7	-10	-15	-31	-37	-38	-26	-15
300mm	-1	-3	-6	-12	-15	-18	-16	-8
600mm	-3	-5	-8	-16	-21	-22	-16	-14
900mm	-4	-7	-10	-20	-31	-28	-17	-14
1200mm	-6	-9	-14	-23	-32	-32	-18	-15
300mm	-1	-3	-6	-12	-15	-18	-16	-8
600mm	-3	-4	-7	-15	-19	-20	-15	-13
900mm	-4	-7	-9	-19	-28	-25	-16	-13
1200mm	-5	-8	-13	-22	-31	-29	-17	-14
300mm	-1	-2	-4	-11	-15	-15	-12	-8
600mm	-2	-4	-7	-14	-17	-18	-14	-11
900mm	-3	-6	-9	-18	-26	-23	-15	-12
1200mm	-5	-8	-13	-22	-30	-27	-17	-12
300mm	-1	-1	-3	-10	-14	-14	-11	-7
600mm	-2	-4	-6	-14	-16	-16	-13	-11
900mm	-3	-6	-8	-17	-24	-21	-15	-11
1200mm	-4	-8	-12	-19	-28	-23	-16	-12

SPIGOT SILENCER

Dimensional Data

Fan Dia.	A	B	C	D	Weight kg
100	98	204	300	40	2.5
100	98	204	600	40	4.6
100	98	204	900	40	6.7
100	98	204	1200	40	8.7
125	123	230	300	40	2.9
125	123	230	600	40	5.4
125	123	230	900	40	7.8
125	123	230	900	40	10.2
150	148	255	300	40	3.4
150	148	255	600	40	6.1
150	148	255	900	40	8.9
150	148	255	1200	40	11.6
160	158	265	300	40	3.5
160	158	265	600	40	6.4
160	158	265	900	40	9.3
160	158	265	1200	40	12.2
200	198	305	300	40	4.2
200	198	305	600	40	7.6
200	198	305	900	40	11.0
200	198	305	1200	40	14.5
250	248	355	300	40	5.0
250	248	355	600	40	9.1
250	248	355	900	40	13.2
250	248	355	1200	40	17.3
315	313	420	300	40	6.1
315	313	420	600	40	11.1
315	313	420	900	40	16.1
315	313	420	1200	40	21.0
355	353	460	300	40	6.8
355	353	460	600	40	12.3
355	353	460	900	40	17.8
355	353	460	1200	40	23.3
400	398	505	300	40	7.5
400	398	505	600	40	13.6
400	398	505	900	40	19.8
400	398	505	1200	40	25.9
500	498	654	300	40	13.2
500	498	654	600	40	26.4
500	498	654	900	40	39.6
500	498	654	1200	40	52.8