

Pressure Drop (PD)

Pressure drops are reported in accordance with ASTM E477 methods and are based upon **ideal** flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See [Silencer System Effects Data](#).

- Acceptable (0 - 0.35")
- Caution (>0.35") Pressure Drop may be too high for certain applications

DC Size (in.)	SO Dia. (in.)	SL (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
			2000	3000	4000	6000	7000	8000	0
12	28	24	0.01	0.03	0.04	0.10	0.14	0.18	0.00
		36	0.02	0.04	0.07	0.15	0.21	0.27	0.00
24	40	48	0.01	0.02	0.04	0.08	0.11	0.15	0.00
		72	0.01	0.03	0.06	0.13	0.18	0.23	0.00
36	52	72	0.01	0.02	0.03	0.08	0.10	0.13	0.00
		108	0.01	0.03	0.05	0.12	0.16	0.20	0.00
48	64	96	0.01	0.02	0.03	0.07	0.10	0.13	0.00
		144	0.01	0.03	0.05	0.11	0.15	0.19	0.00
60	76	120	0.01	0.02	0.03	0.07	0.09	0.12	0.00
		180	0.01	0.03	0.04	0.10	0.14	0.18	0.00

Generated Noise (GN) @ 3 sq.ft. face area

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Generated Noise (dB re 10 ⁻¹² watts)							
		63	125	250	500	1000	2000	4000	8000
All	- 7000	81	74	69	76	77	77	66	63
	- 5000	71	64	59	66	67	67	56	53
	+ 5000	70	63	59	65	64	64	54	51
	+ 7000	80	73	69	75	74	74	64	61

GN correction chart at right must be used to correct GN to other face areas. →

Face Area (sq.ft.)	1.5	3	6	12	24	48
dB	-3	0	+3	+6	+9	+12

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12	20	24	0.01	0.03	0.04	0.07	0.10	0.14	0.18
		36	0.02	0.04	0.07	0.11	0.15	0.21	0.27
24	32	48	0.01	0.02	0.04	0.06	0.08	0.11	0.15
		72	0.01	0.03	0.06	0.09	0.13	0.18	0.23
36	44	72	0.01	0.02	0.03	0.05	0.08	0.10	0.13
		108	0.01	0.03	0.05	0.08	0.12	0.16	0.20
48	56	96	0.01	0.02	0.03	0.05	0.07	0.10	0.13
		144	0.01	0.03	0.05	0.08	0.11	0.15	0.19
60	68	120	0.01	0.02	0.03	0.05	0.07	0.09	0.12
		180	0.01	0.03	0.04	0.07	0.10	0.14	0.18

Generated Noise (GN)

@ 3 sq.ft. face area

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All	- 7000	81	74	69	76	77	77	66	63
	- 5000	71	64	59	66	67	67	56	53
	+ 5000	70	63	59	65	64	64	54	51
	+ 7000	80	73	69	75	74	74	64	61

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