

Vibro-Acoustics[®]

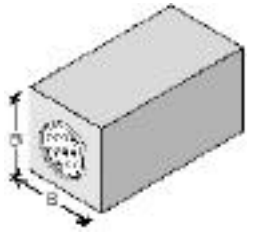
CERTIFIED PERFORMANCE DATA

8 CNM-MV-F1 CIRCULAR NO-MEDIA MEDIUM VELOCITY SILENCER (<1250 FPM)

**HOW TO SPECIFY:
EXAMPLE**

8 X CNM-MV-F1 X 72

Duct Connection Size Silencer Model Silencer Length



Insertion Loss (IL)

- + : "forward flow" where noise & airflow move in same direction (e.g. supply side)
- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/DYNAMIC INSERTION LOSS (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1000	9	16	34	12	10	15	14	10
	0	10	14	32	7	8	16	16	12
	+ 1000	10	17	35	11	10	18	17	12
48	- 1000	10	17	34	12	10	18	18	13
	0	12	14	31	8	8	19	19	13
	+ 1000	11	17	36	12	11	21	21	14
60	- 1000	11	17	35	13	11	21	22	15
	0	12	13	30	9	9	23	22	15
	+ 1000	13	18	36	13	12	25	24	16
72	- 1000	12	18	35	13	11	25	26	18
	0	12	13	29	10	9	26	25	17
	+ 1000	15	19	37	14	12	28	28	19

See pages 4.1 - 4.25 for selection information.

Pressure Drop (PD)

DUCT CONNECT. SIZE (in.)	B x B (in.)	SILENCER LENGTH (in.)	WEIGHT (lbs)	FACE VELOCITY (feet per minute) / Pressure Drop (in.w.g.)						
				500	750	1000	1250	1500	1750	2000
8	30x30	36	106	0.05	0.11	0.19	0.29	0.42	0.58	0.75
8	30x30	48	139	0.05	0.12	0.22	0.34	0.49	0.67	0.88
8	30x30	60	172	0.06	0.14	0.25	0.39	0.56	0.76	1.00
8	30x30	72	204	0.07	0.16	0.28	0.44	0.63	0.86	1.12

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 on page 4.19.

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

Generated Noise (GN) @ 0.35 sq.ft. face area

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/GENERATED NOISE (dB re 10 ⁻¹² watts)							
		63	125	250	500	1000	2000	4000	8000
ALL	- 1250	56	50	49	47	49	52	51	41
	- 750	55	45	44	41	45	46	41	26
	+ 750	54	49	43	40	43	46	40	24
	+ 1250	56	53	50	46	47	50	47	36