CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

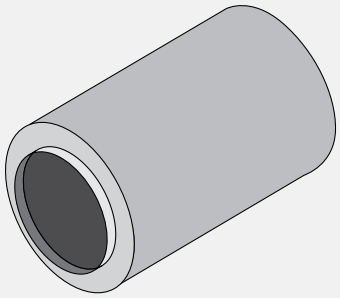
CMB-MV-F1

Circular MoldBlock
Medium velocity silencer
(<3000 fpm)

How to Specify Example:

24 X **CMB-MV-F1** X **72**

- **24**: Duct Connection Size
- **CMB-MV-F1**: Silencer Model
- **72**: 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)

DC Size - Duct Connection Size (in.)

SL - Silencer Length (in.)

FV - Face Velocity (ft. per min)

SO Dia. - Silencer Outer Diameter (in.)

See Silencer Selection Instructions. DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics representative or call **1-800-565-8401**.

DC Size (in.)	SL (in.)	FV (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
			63	125	250	500	1000	2000	4000	8000
12	24	- 1000	5	8	13	22	31	33	30	18
		+ 1000	5	8	13	20	27	33	32	22
24	48	- 1000	5	9	18	27	37	34	22	13
		+ 1000	5	9	18	25	33	34	24	17
36	72	- 1000	8	14	22	32	37	26	16	9
		+ 1000	8	14	22	30	33	26	18	13
48	96	- 1000	10	17	26	35	35	22	13	9
		+ 1000	10	18	26	33	31	22	15	13
60	120	- 1000	10	17	29	36	31	19	12	8
		+ 1000	10	17	29	34	27	19	14	12

DC Size (in.)	SL (in.)	FV (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
			63	125	250	500	1000	2000	4000	8000
12	36	- 1000	7	11	20	32	46	49	46	28
		+ 1000	7	11	20	30	42	49	48	32
24	72	- 1000	8	14	28	42	55	52	32	19
		+ 1000	8	14	28	40	51	52	34	23
36	108	- 1000	12	20	33	48	54	39	25	15
		+ 1000	12	20	33	46	50	39	27	19
48	144	- 1000	13	24	40	52	51	33	20	14
		+ 1000	13	24	40	50	47	33	22	18
60	180	- 1000	15	26	43	53	46	28	18	13
		+ 1000	15	26	43	51	42	28	30	17

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.)						
			1000	1500	2000	2500	3000	3500	4000
12	28	24	0.02	0.05	0.10	0.15	0.21	0.29	0.38
		36	0.04	0.09	0.16	0.24	0.35	0.48	0.63
24	40	48	0.02	0.05	0.10	0.15	0.21	0.29	0.38
		72	0.04	0.08	0.15	0.23	0.33	0.45	0.59
36	52	72	0.02	0.05	0.10	0.15	0.21	0.29	0.38
		108	0.03	0.07	0.13	0.20	0.29	0.40	0.52
48	64	96	0.02	0.05	0.09	0.14	0.20	0.28	0.36
		144	0.03	0.07	0.12	0.19	0.28	0.38	0.49
60	76	120	0.02	0.05	0.09	0.14	0.19	0.26	0.35
		180	0.03	0.07	0.12	0.18	0.26	0.36	0.47

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	- 3000	63	56	50	57	56	57	55	52
	- 1500	49	42	38	43	43	42	36	31
	+ 1500	48	41	38	42	40	39	34	29
	+ 3000	62	55	59	56	53	54	53	50

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

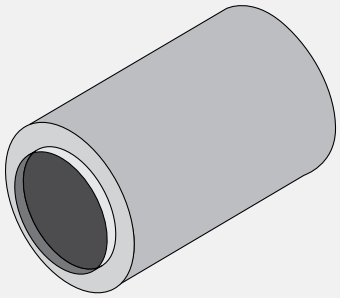
CMB-MV-F2

Circular MoldBlock
Medium velocity silencer
(<3000 fpm)

How to Specify Example:

24 X **CMB-MV-F2** X **72**

- **24**: Duct Connection Size
- **CMB-MV-F2**: Silencer Model
- **72**: Silencer Length



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