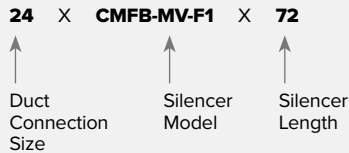


CFMB-MV-F1

Circular Film MoldBlock
Medium velocity silencer
(<3000 fpm)

How to Specify Example:



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	- 2000	4	7	10	16	24	33	34	12
		+ 2000	4	7	10	14	21	33	36	15
24	48	- 2000	4	8	14	19	29	34	25	9
		+ 2000	4	8	14	18	26	34	27	11
36	72	- 2000	7	12	17	23	29	26	18	6
		+ 2000	7	12	17	22	26	26	20	9
48	96	- 2000	9	14	20	25	27	22	15	6
		+ 2000	9	14	20	24	27	22	17	9
60	120	- 2000	9	14	22	26	24	19	14	5
		+ 2000	9	14	22	24	21	19	16	8

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	- 2000	6	9	15	23	36	49	52	18
		+ 2000	6	9	15	22	33	49	54	21
24	72	- 2000	7	12	21	30	43	52	36	13
		+ 2000	7	12	21	29	40	52	38	15
36	108	- 2000	10	17	26	35	42	39	28	10
		+ 2000	10	17	26	33	39	39	31	13
48	144	- 2000	11	21	31	37	40	33	23	9
		+ 2000	11	21	31	36	37	33	25	12
60	180	- 2000	13	22	33	38	36	28	20	9
		+ 2000	13	22	33	37	33	28	23	11

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

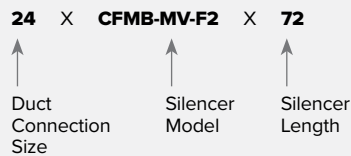
GN correction chart at right must be used to correct GN to other face areas. →

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

CFMB-MV-F2

Circular Film MoldBlock
Medium velocity silencer
(<3000 fpm)

How to Specify Example:



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- : “reverse flow” where noise & airflow move in opposite directions (e.g. return side)

DC Size - Duct Connection Size (in.)

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FV - Face Velocity (ft. per min)

SO Dia. - Silencer Outer Diameter (in.)

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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	- 2000	3	4	8	16	24	33	34	12
		+ 2000	3	4	8	14	21	33	36	15
24	48	- 2000	3	5	12	19	29	34	25	9
		+ 2000	3	5	12	18	26	34	27	11
36	72	- 2000	4	8	15	23	29	26	18	6
		+ 2000	4	8	15	22	26	26	20	9
48	96	- 2000	5	10	18	25	27	22	15	6
		+ 2000	5	10	18	24	27	22	17	9
60	120	- 2000	5	10	19	26	24	19	14	5
		+ 2000	5	10	19	24	21	19	16	8

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	- 2000	3	6	13	23	36	49	52	18
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		+ 2000	6	11	22	33	39	39	31	13
48	144	- 2000	7	14	27	37	40	33	23	9
		+ 2000	7	14	27	36	37	33	25	12
60	180	- 2000	8	15	28	38	36	28	20	9
		+ 2000	8	15	28	37	33	28	23	11

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	20	24	0.02	0.05	0.10	0.15	0.22	0.29	0.38
		36	0.04	0.09	0.16	0.24	0.35	0.48	0.62
24	32	48	0.02	0.05	0.10	0.15	0.22	0.29	0.38
		72	0.04	0.08	0.15	0.23	0.33	0.45	0.59
36	44	72	0.02	0.05	0.10	0.15	0.22	0.29	0.38
		108	0.03	0.07	0.13	0.21	0.28	0.40	0.53
48	56	96	0.02	0.05	0.09	0.14	0.21	0.28	0.37
		144	0.03	0.07	0.12	0.19	0.28	0.38	0.50
60	68	120	0.02	0.05	0.09	0.14	0.20	0.27	0.35
		180	0.03	0.07	0.12	0.18	0.26	0.36	0.46

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	50	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