CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

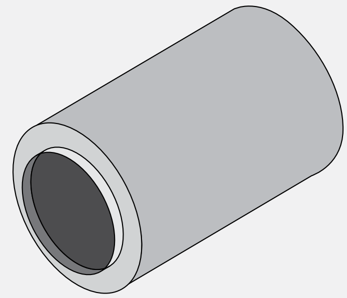
CFMB-UHV-F1

Circular Film MoldBlock
Ultra high velocity silencer
(<7000 fpm)

How to Specify Example:

24 X **CFMB-UHV-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)

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	- 6000	3	4	9	11	10	11	8	3
		+ 6000	0	1	5	8	13	15	10	6
24	48	- 6000	6	9	12	14	10	6	7	2
		+ 6000	3	7	9	12	13	10	9	5
36	72	- 6000	7	10	14	14	7	5	6	1
		+ 6000	4	8	11	11	10	9	8	4
48	96	- 6000	9	13	16	13	4	4	5	1
		+ 6000	6	10	12	10	7	8	7	3
60	120	- 6000	9	13	17	10	3	4	5	1
		+ 6000	6	10	13	7	6	8	7	3

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	- 6000	4	5	12	16	16	17	14	6
		+ 6000	1	3	9	13	19	21	16	9
24	72	- 6000	7	12	17	21	16	9	10	4
		+ 6000	4	9	13	18	19	13	12	7
36	108	- 6000	10	16	21	19	11	8	9	3
		+ 6000	7	13	18	17	14	12	11	6
48	144	- 6000	10	17	23	19	7	7	7	3
		+ 6000	7	14	19	16	10	11	9	5
60	180	- 6000	11	20	24	14	6	7	7	1
		+ 6000	9	17	20	12	9	11	9	4

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	5000	6000	7000	8000
12	28	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	40	48	0.01	0.02	0.03	0.05	0.08	0.10	0.13
		72	0.01	0.03	0.05	0.08	0.12	0.16	0.20
36	52	72	0.01	0.02	0.03	0.05	0.07	0.09	0.12
		108	0.01	0.03	0.04	0.07	0.10	0.14	0.18
48	64	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	76	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

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		65	64	64	54	51
	+ 7000	80	73	69	75	74	74	64	51

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-UHV-F2

Circular Film MoldBlock
Ultra high velocity silencer
(<7000 fpm)

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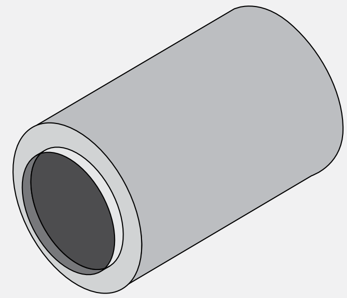
24 X **CFMB-UHV-F2** X **72**

Duct Connection Size — Silencer Model — Silencer Length



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12	24	- 6000	2	3	10	15	10	11	8	3
		+ 6000	0	1	5	8	13	15	10	6
24	48	- 6000	3	6	11	14	10	6	7	2
		+ 6000	2	4	8	12	13	10	9	5
36	72	- 6000	4	7	12	14	7	5	6	1
		+ 6000	3	5	9	11	10	9	8	4
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60	120	- 6000	5	9	15	10	3	4	5	1
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		144	0.01	0.03	0.05	0.08	0.11	0.15	0.19
60	76	120	0.01	0.02	0.03	0.05	0.07	0.10	0.13
		180	0.01	0.03	0.05	0.08	0.11	0.15	0.19

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		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