CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

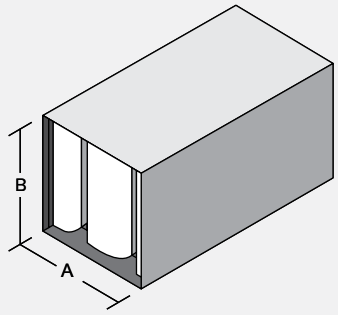
RMB-MV-F1

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

32 X **21** **RMB-MV-F1** X **60**

Duct Width	Duct Height	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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	5	10	14	15	18	14	13	11
	+ 1250	4	8	12	14	17	15	13	11
60	- 1250	7	13	22	24	27	20	16	13
	+ 1250	6	11	19	22	26	20	16	13
84	- 1250	10	17	29	33	36	26	18	15
	+ 1250	8	14	26	30	36	26	19	15
108	- 1250	12	21	37	41	45	32	21	17
	+ 1250	10	17	33	38	46	30	23	18

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.07	0.13	0.21	0.30	0.40	0.53
60	0.04	0.10	0.18	0.28	0.40	0.54	0.70
84	0.05	0.12	0.22	0.34	0.49	0.67	0.88
108	0.07	0.15	0.26	0.41	0.59	0.81	1.06

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	49	50	52	50	40	28
	- 750	50	43	42	41	41	34	22	26
	+ 750	51	39	35	33	37	33	23	26
	+ 1250	56	51	45	43	45	47	40	29

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
14.5-15.5
29-31
58-62
87-63
116-124
145-155
174-186
203-217
232-248

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

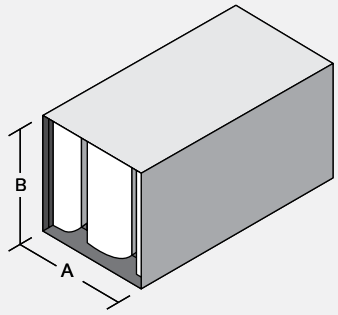
RMB-MV-F2

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

27 X **22** **RMB-MV-F2** X **60**

Duct Width	Duct Height	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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	5	9	14	16	18	14	12	10
	+ 1250	4	7	12	15	17	15	12	10
60	- 1250	6	13	22	26	28	20	15	12
	+ 1250	5	10	19	24	27	21	16	12
84	- 1250	11	17	28	36	38	26	18	14
	+ 1250	8	14	25	33	38	27	19	15
108	- 1250	12	21	35	42	48	32	20	15
	+ 1250	10	17	32	41	48	32	22	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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.07	0.12	0.19	0.27	0.37	0.49
60	0.04	0.09	0.16	0.26	0.37	0.50	0.66
84	0.05	0.11	0.20	0.31	0.45	0.61	0.80
108	0.06	0.13	0.24	0.37	0.54	0.73	0.96

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	48	50	52	51	40	28
	- 750	50	43	42	42	42	34	23	26
	+ 750	51	39	35	33	36	33	23	26
	+ 1250	56	51	45	43	45	47	39	29

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
13.5–14.5
27–29
54–58
81–87
108–116
135–145
162–174
189–203
216–232

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

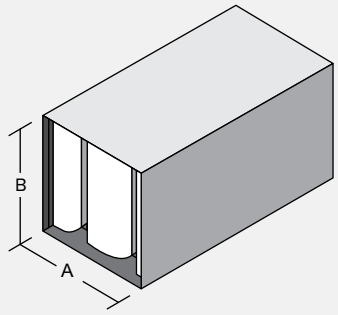
RMB-MV-F3

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

25 X **21** **RMB-MV-F3** X **60**

Duct Width | Duct Height | 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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	8	13	18	18	14	11	9
	+ 1250	4	7	12	16	18	15	12	9
60	- 1250	5	12	21	29	29	21	15	11
	+ 1250	4	10	19	26	29	22	16	12
84	- 1250	11	17	27	40	40	27	17	13
	+ 1250	9	13	24	37	40	29	19	14
108	- 1250	12	21	34	42	50	32	19	14
	+ 1250	9	17	31	43	50	34	22	16

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.11	0.17	0.25	0.34	0.44
60	0.04	0.09	0.15	0.24	0.34	0.47	0.61
84	0.05	0.10	0.18	0.28	0.41	0.55	0.72
108	0.05	0.15	0.21	0.34	0.48	0.66	0.86

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	48	50	52	51	41	29
	- 750	50	43	43	43	42	35	23	26
	+ 750	51	39	35	33	35	32	22	26
	+ 1250	56	51	44	42	45	47	39	29

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
12.5–13.5
25–27
50–54
75–81
100–108
125–135
150–162
175–189
200–216
225–243

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

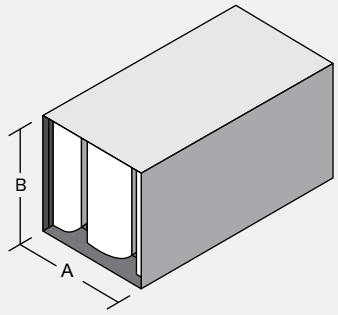
RMB-MV-F4

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

47 X **22** **RMB-MV-F4** X **60**

Duct Width	Duct Height	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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	7	13	19	18	14	10	7
	+ 1250	4	6	11	17	18	14	11	8
60	- 1250	4	12	20	32	30	21	14	10
	+ 1250	4	9	18	29	30	23	15	11
84	- 1250	12	16	26	43	41	27	16	11
	+ 1250	10	13	23	40	42	31	19	13
108	- 1250	12	21	32	42	52	33	19	12
	+ 1250	9	17	29	46	53	36	21	15

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.10	0.16	0.23	0.31	0.40
60	0.04	0.08	0.14	0.22	0.32	0.43	0.56
84	0.04	0.09	0.16	0.25	0.36	0.49	0.64
108	0.05	0.11	0.19	0.30	0.43	0.58	0.76

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	48	50	52	52	42	29
	- 750	50	43	43	43	43	35	23	26
	+ 750	51	39	35	33	35	31	22	26
	+ 1250	56	51	44	42	45	46	39	29

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
11.5–12.5
23–25
46–50
69–75
92–100
115–125
138–150
161–175
207–225

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

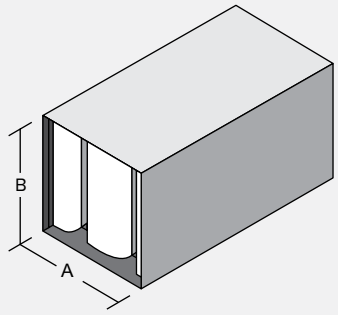
RMB-MV-F5

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

44 X **22** **RMB-MV-F5** X **60**

Duct Width | Duct Height | 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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	7	13	19	21	16	11	7
	+ 1250	4	6	11	17	21	16	12	8
60	- 1250	4	11	20	31	34	25	16	11
	+ 1250	3	9	17	28	34	27	18	12
84	- 1250	12	17	25	43	44	32	20	13
	+ 1250	9	13	22	40	44	36	23	16
108	- 1250	12	21	31	42	52	36	22	13
	+ 1250	8	17	28	45	54	40	25	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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.10	0.16	0.23	0.31	0.41
60	0.04	0.08	0.15	0.23	0.33	0.45	0.59
84	0.05	0.10	0.19	0.29	0.42	0.57	0.74
108	0.05	0.11	0.20	0.31	0.45	0.61	0.80

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	47	49	52	52	42	30
	- 750	50	43	43	44	43	36	24	26
	+ 750	51	40	35	33	34	31	22	26
	+ 1250	56	51	44	42	44	46	39	28

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
10.5–11.5
21–23
42–46
63–69
84–92
105–115
126–138
147–161
168–184
189–207

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

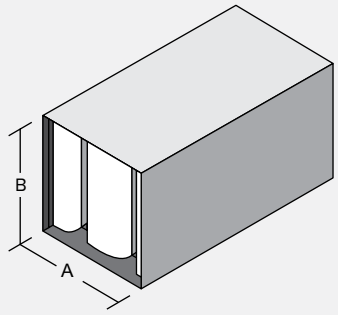
RMB-MV-F6

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

40 X **21** **RMB-MV-F6** X **60**

Duct Width | Duct Height | 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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	7	12	19	24	18	12	8
	+ 1250	3	6	10	17	23	18	13	9
60	- 1250	4	11	19	31	38	28	18	11
	+ 1250	3	9	16	28	38	31	20	13
84	- 1250	12	17	25	44	47	36	23	14
	+ 1250	9	13	22	40	47	40	27	18
108	- 1250	11	20	30	42	52	39	25	14
	+ 1250	8	17	27	45	55	44	30	20

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.10	0.16	0.23	0.32	0.41
60	0.04	0.09	0.16	0.24	0.35	0.48	0.63
84	0.05	0.12	0.21	0.33	0.47	0.64	0.84
108	0.05	0.12	0.21	0.33	0.47	0.64	0.84

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	47	49	52	53	43	30
	- 750	50	43	43	45	43	36	24	26
	+ 750	51	40	35	33	33	30	22	26
	+ 1250	56	51	44	42	44	46	38	28

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
9.5–10.5
19–21
38–42
57–63
76–84
95–105
114–126
133–147
152–168
171–189

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

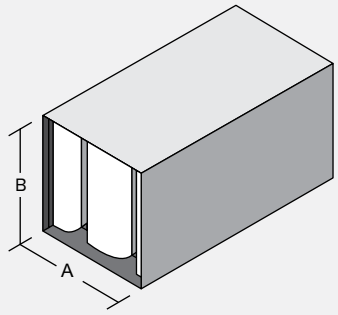
RMB-MV-F7

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

37 X **21** **RMB-MV-F7** X **60**

Duct Width	Duct Height	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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	6	15	23	25	19	13	8
	+ 1250	3	5	12	21	24	19	14	10
60	- 1250	4	10	23	37	39	30	19	12
	+ 1250	3	8	20	34	39	33	22	15
84	- 1250	12	15	32	53	47	39	26	16
	+ 1250	9	12	27	49	47	43	30	21
108	- 1250	11	18	37	50	50	40	28	16
	+ 1250	8	15	33	53	53	46	33	22

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.10	0.16	0.24	0.32	0.42
60	0.04	0.09	0.17	0.26	0.37	0.51	0.66
84	0.06	0.13	0.23	0.37	0.53	0.72	0.94
108	0.05	0.12	0.22	0.34	0.49	0.67	0.88

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	47	49	52	54	43	31
	- 750	50	42	43	45	44	37	24	26
	+ 750	51	40	35	33	32	29	22	26
	+ 1250	56	51	43	42	44	45	38	28

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
8.25–9.5
16.5–19
33–38
49.5–57
66–76
82.5–95
99–114
115.5–133
132–152
148.5–171

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

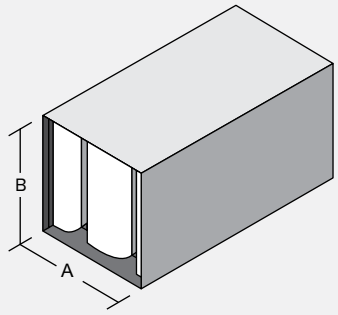
RMB-MV-F8

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

14 X **22** **RMB-MV-F8** X **60**

Duct Width | Duct Height | 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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	7	13	22	25	21	17	15
	+ 1250	2	5	11	20	24	21	17	14
60	- 1250	6	11	21	35	37	32	22	17
	+ 1250	5	9	18	32	37	34	24	18
84	- 1250	9	15	30	47	50	43	28	20
	+ 1250	7	12	25	44	49	46	30	22
108	- 1250	12	20	38	55	55	54	33	23
	+ 1250	9	15	32	55	55	55	37	27

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.04	0.09	0.16	0.24	0.35	0.47	0.62
60	0.05	0.12	0.21	0.33	0.47	0.64	0.83
84	0.07	0.15	0.26	0.41	0.59	0.80	1.05
108	0.08	0.18	0.32	0.49	0.71	0.97	1.26

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

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	53	50	47	49	52	54	43	31
	- 750	50	42	43	45	44	37	24	26
	+ 750	51	40	35	33	32	29	22	26
	+ 1250	56	51	43	42	44	45	38	28

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Cross Section Sizes*

"A" dimension (in.)
6.75–8.25
13.5–16.5
27–33
40.5–49.5
54–66
67.5–82.5
81–99
94.5–115.5
108–132
121.5–148.5

"B" dimension
ANY SIZE

See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

CERTIFIED PERFORMANCE DATA

VIBRO-ACOUSTICS®
A Swegon Group company

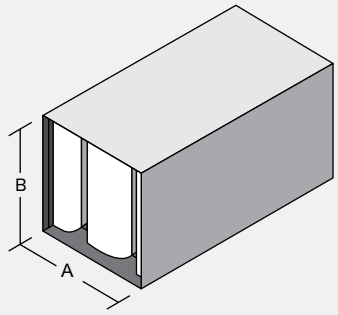
RMB-MV-F9

Rectangular MoldBlock
Medium velocity silencer
(<1250 fpm)

How to Specify Example:

21 X **21** **RMB-MV-F9** X **60**

Duct Width | Duct Height | 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)

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**.

Length (in.)	Face Velocity (ft. per min)	Octave Band - Hz/Dynamic Insertion Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	4	6	13	23	33	24	15	10
	+ 1250	3	4	10	2	32	25	17	12
60	- 1250	4	10	20	37	50	40	24	14
	+ 1250	2	7	16	33	50	43	28	19
84	- 1250	12	16	32	53	55	52	36	21
	+ 1250	8	12	26	49	54	55	42	28
108	- 1250	10	18	33	49	50	49	37	20
	+ 1250	7	14	28	51	55	55	46	29

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.

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.06	0.11	0.17	0.25	0.34	0.44
60	0.05	0.11	0.19	0.30	0.43	0.58	0.76
84	0.08	0.17	0.31	0.48	0.70	0.95	1.24
108	0.06	0.14	0.25	0.39	0.56	0.77	1.00

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

Cross Section Sizes*
"A" dimension (in.)
5–6.75
10–13.5
20–27
30–40.5
40–54
50–67.5
60–81
70–94.5
80–108
90–121.5
"B" dimension
ANY SIZE
See Rectangular Silencer Cross-Section Dimensions to ensure selection matches ductwork dimensions.

Generated Noise (GN)

@ 5 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	1K	2K	4K	8K
All	- 1250	54	51	46	49	52	56	45	32
	- 750	49	42	43	48	45	38	25	26
	+ 750	51	40	34	33	29	27	21	26
	+ 1250	56	50	43	42	43	44	37	28

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

Face Area (sq.ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12