

## RMB-HV-F1

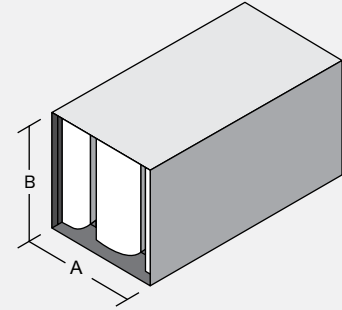
Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

**32** X **21** **RMB-HV-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	- 2000	3	8	11	12	14	13	12	10
	+ 2000	2	5	9	11	13	11	10	8
60	- 2000	5	11	17	19	19	16	14	11
	+ 2000	4	8	14	17	19	15	13	10
84	- 2000	7	15	23	26	25	19	15	13
	+ 2000	5	11	20	23	25	18	16	13
108	- 2000	8	19	29	33	31	22	17	14
	+ 2000	7	14	25	29	31	21	18	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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.17	0.22	0.28	0.34
84	0.02	0.07	0.16	0.21	0.28	0.35	0.44
108	0.02	0.09	0.19	0.26	0.34	0.43	0.53

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	58	55	54	54	54	56	48	38
	- 1250	54	49	47	46	46	43	32	27
	+ 1250	57	47	40	39	41	39	28	26
	+ 2000	60	55	50	48	49	52	45	33

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  
87–93  
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.

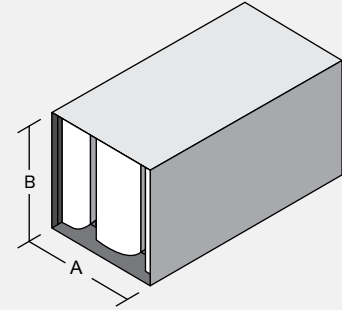
## RMB-HV-F2

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

27 X 22 RMB-HV-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	- 2000	4	7	11	13	14	12	11	8
	+ 2000	2	5	9	12	13	11	10	7
60	- 2000	5	10	16	22	20	16	13	10
	+ 2000	3	7	14	19	19	15	13	10
84	- 2000	7	15	22	29	27	20	15	11
	+ 2000	5	10	19	26	27	20	15	12
108	- 2000	8	19	28	36	33	23	16	13
	+ 2000	6	13	25	32	34	23	17	14

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.16	0.21	0.27	0.33
84	0.02	0.07	0.16	0.21	0.28	0.35	0.44
108	0.02	0.08	0.18	0.24	0.32	0.41	0.50

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	57	56	54	54	55	56	49	38
	- 1250	53	49	47	46	47	44	32	27
	+ 1250	56	48	41	39	41	40	28	26
	+ 2000	59	56	50	49	49	52	46	34

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

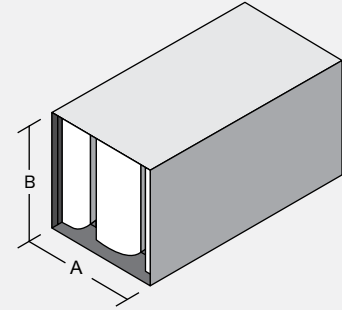
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

## RMB-HV-F3

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

25 X 21 RMB-HV-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	- 2000	4	6	10	14	14	12	10	7
	+ 2000	3	5	8	13	14	11	9	6
60	- 2000	4	9	15	24	20	15	12	9
	+ 2000	3	6	13	22	20	16	12	9
84	- 2000	7	15	22	32	30	20	14	10
	+ 2000	6	10	19	28	29	22	15	11
108	- 2000	7	18	27	40	36	23	16	12
	+ 2000	5	13	24	36	37	25	16	13

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.16	0.21	0.26	0.32
84	0.02	0.07	0.16	0.21	0.28	0.35	0.44
108	0.02	0.08	0.17	0.23	0.30	0.38	0.47

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	56	55	54	55	56	49	38
	- 1250	53	49	47	47	47	44	32	26
	+ 1250	56	48	41	39	41	40	29	26
	+ 2000	59	57	51	49	49	53	47	36

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.

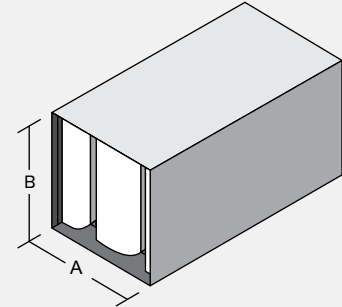
## RMB-HV-F4

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

47 X 22 RMB-HV-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	- 2000	4	6	10	16	14	11	8	5
	+ 2000	3	5	8	14	14	11	8	5
60	- 2000	4	8	15	27	21	15	11	7
	+ 2000	3	6	12	25	21	17	12	8
84	- 2000	7	15	21	35	32	21	14	9
	+ 2000	6	10	18	31	32	23	15	10
108	- 2000	6	18	27	43	39	24	15	10
	+ 2000	4	13	24	39	40	26	15	12

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.11	0.15	0.20	0.25	0.31
84	0.02	0.07	0.16	0.21	0.28	0.35	0.44
108	0.02	0.07	0.16	0.21	0.28	0.35	0.44

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	56	55	55	55	57	49	38
	- 1250	53	50	47	47	47	44	32	26
	+ 1250	55	49	42	39	41	40	29	26
	+ 2000	59	58	52	49	49	53	47	37

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.

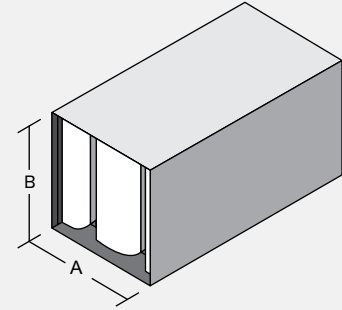
## RMB-HV-F5

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

44 X 22 RMB-HV-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	- 2000	4	6	10	15	17	12	9	6
	+ 2000	3	5	8	14	16	13	9	6
60	- 2000	4	8	14	26	24	17	12	8
	+ 2000	3	6	11	23	24	19	13	9
84	- 2000	7	15	21	35	36	26	16	10
	+ 2000	6	10	18	31	36	28	18	11
108	- 2000	6	17	26	42	42	29	17	11
	+ 2000	4	13	22	38	43	31	18	13

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.16	0.21	0.26	0.32
84	0.02	0.08	0.17	0.23	0.31	0.39	0.48
108	0.02	0.07	0.16	0.22	0.29	0.37	0.46

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	56	55	55	55	57	50	38
	- 1250	53	50	47	47	48	45	32	26
	+ 1250	55	49	42	39	41	40	29	26
	+ 2000	59	58	52	49	49	53	47	37

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.

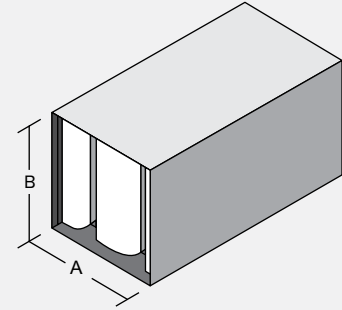
## RMB-HV-F6

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

40 X 21 RMB-HV-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	- 2000	4	6	9	15	19	14	10	6
	+ 2000	3	4	7	13	18	14	10	6
60	- 2000	4	8	13	25	28	20	13	8
	+ 2000	3	5	11	22	27	21	15	10
84	- 2000	7	14	21	36	40	30	18	11
	+ 2000	6	10	17	31	41	33	21	13
108	- 2000	6	17	25	41	45	33	19	12
	+ 2000	4	13	21	37	47	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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.16	0.21	0.27	0.33
84	0.02	0.08	0.19	0.26	0.33	0.42	0.52
108	0.02	0.08	0.17	0.23	0.31	0.39	0.48

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	56	55	54	55	57	50	38
	- 1250	53	50	47	47	48	46	33	26
	+ 1250	55	49	42	39	41	40	29	26
	+ 2000	59	58	52	48	48	52	47	37

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.

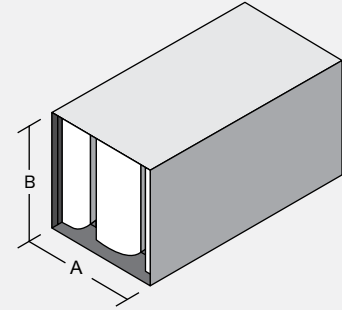
## RMB-HV-F7

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

**37** × **21** **RMB-HV-F7** × **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	- 2000	4	5	11	18	20	15	10	7
	+ 2000	3	4	9	16	19	15	11	7
60	- 2000	4	7	16	29	30	21	13	9
	+ 2000	3	5	13	26	29	23	16	11
84	- 2000	7	13	27	43	42	33	20	12
	+ 2000	6	8	21	38	43	36	23	15
108	- 2000	6	15	30	49	46	35	21	13
	+ 2000	4	11	25	44	48	39	24	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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.01	0.05	0.12	0.17	0.22	0.28	0.34
84	0.02	0.09	0.20	0.28	0.36	0.46	0.56
108	0.02	0.08	0.18	0.24	0.32	0.40	0.50

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	56	55	54	54	58	50	38
	- 1250	53	50	47	47	49	47	34	26
	+ 1250	55	49	42	39	40	40	29	26
	+ 2000	59	58	52	48	48	52	47	37

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

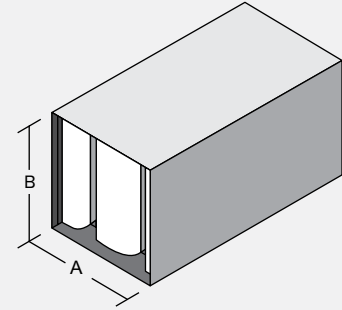
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

## RMB-HV-F8

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

14 X 22 RMB-HV-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	- 2000	3	5	9	16	20	16	14	12
	+ 2000	2	3	7	14	19	16	14	11
60	- 2000	6	7	16	28	33	23	17	14
	+ 2000	4	5	13	24	32	24	18	14
84	- 2000	8	10	23	39	46	30	20	16
	+ 2000	6	7	18	35	44	33	23	18
108	- 2000	11	13	29	50	55	37	23	18
	+ 2000	8	9	24	45	55	42	27	21

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.05	0.10	0.14	0.18	0.23	0.28
60	0.02	0.07	0.15	0.21	0.27	0.34	0.42
84	0.02	0.09	0.20	0.28	0.36	0.46	0.56
108	0.03	0.11	0.25	0.34	0.45	0.57	0.70

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	58	55	54	54	55	57	49	39
	- 1250	54	48	47	48	48	46	34	27
	+ 1250	56	48	40	39	40	38	28	26
	+ 2000	60	56	51	47	48	50	44	32

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.



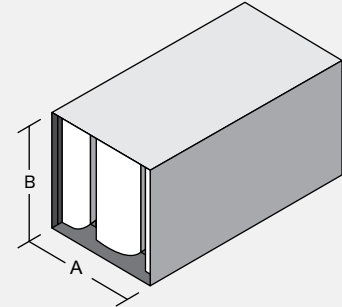
## RMB-HV-F9

Rectangular MoldBlock  
High velocity silencer  
(<2000 fpm)

How to Specify Example:

21 X 21 RMB-HV-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	- 2000	4	4	9	17	27	19	13	8
	+ 2000	3	3	7	14	25	19	14	8
60	- 2000	4	6	14	25	40	28	16	11
	+ 2000	4	5	10	22	38	29	19	13
84	- 2000	7	12	28	44	53	45	27	16
	+ 2000	6	8	19	39	55	49	32	20
108	- 2000	7	13	27	46	54	47	27	16
	+ 2000	4	10	19	41	55	52	32	21

### 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	1000	1500	1750	2000	2250	2500
36	0.01	0.04	0.09	0.12	0.16	0.20	0.25
60	0.02	0.06	0.13	0.18	0.24	0.30	0.37
84	0.03	0.11	0.25	0.34	0.44	0.56	0.69
108	0.02	0.09	0.20	0.28	0.36	0.46	0.56

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 <sup>-12</sup> watts)							
		63	125	250	500	1K	2K	4K	8K
All	- 2000	56	55	54	53	54	58	51	39
	- 1250	53	50	46	47	51	49	36	27
	+ 1250	56	49	41	38	39	40	30	26
	+ 2000	58	57	52	47	47	51	46	36

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.)  
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.