

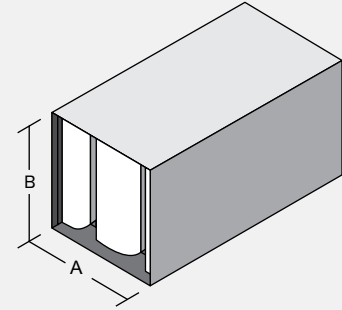
## RNM-MV-F1

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

32 X 21 RNM-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	3	5	17	16	12	10	9	10
	0	1	4	12	11	9	9	8	8
	+ 1250	3	5	15	15	10	9	8	6
60	- 1250	8	8	20	18	13	12	11	10
	0	4	5	13	13	11	10	9	8
	+ 1250	4	7	18	17	12	11	9	7
84	- 1250	9	10	23	22	15	13	12	11
	0	6	6	15	15	12	11	10	9
	+ 1250	6	8	21	21	14	12	10	9
108	- 1250	11	12	26	26	16	14	13	11
	0	9	7	16	17	14	12	12	10
	+ 1250	8	10	23	25	16	13	12	10

### 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	0.08	0.15	0.24	0.34	0.46	0.60
60	0.04	0.08	0.15	0.23	0.33	0.45	0.58
84	0.04	0.09	0.15	0.24	0.35	0.47	0.62
108	0.04	0.09	0.16	0.25	0.36	0.50	0.65

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	- 1250	55	53	51	50	55	61	57	45
	- 750	50	43	43	46	50	52	42	30
	+ 750	47	41	38	40	50	49	42	31
	+ 1250	56	54	47	45	55	59	58	48

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.)

15-16  
29-32  
58-64  
87-96  
116-128  
145-160  
174-192  
203-224  
232-240

##### "B" dimension ANY SIZE

Approx. weight 4.1 lbs/cu.ft.

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

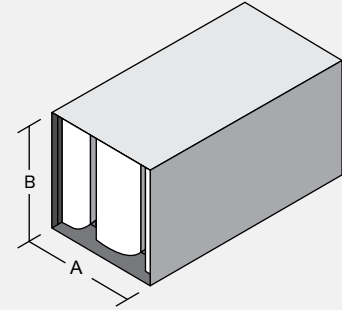
## RNM-MV-F2

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

27 X 22 RNM-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	4	5	16	16	11	10	9	9
	0	3	4	11	12	9	9	8	8
	+ 1250	4	5	14	15	10	9	8	7
60	- 1250	9	8	19	18	13	12	10	9
	0	6	5	12	14	10	10	9	8
	+ 1250	6	7	17	18	12	11	9	8
84	- 1250	10	10	21	21	14	13	11	10
	0	7	6	13	16	12	11	10	9
	+ 1250	8	8	19	21	14	12	11	9
108	- 1250	12	12	23	24	15	14	12	10
	0	9	8	15	18	13	12	11	10
	+ 1250	8	10	21	24	15	13	12	10

### 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	0.08	0.15	0.23	0.33	0.45	0.58
60	0.04	0.08	0.14	0.22	0.32	0.43	0.56
84	0.04	0.09	0.16	0.24	0.35	0.48	0.62
108	0.04	0.09	0.16	0.25	0.36	0.48	0.63

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	- 1250	55	53	51	50	56	62	58	46
	- 750	49	43	43	46	51	53	43	31
	+ 750	47	41	39	41	50	50	42	32
	+ 1250	56	54	47	46	55	59	58	49

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  
27-28  
54-57  
81-86  
108-115  
135-144  
162-173  
189-202  
216-231

**"B" dimension**  
ANY SIZE

**Approx. weight**  
4.0 lbs/cu.ft.

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

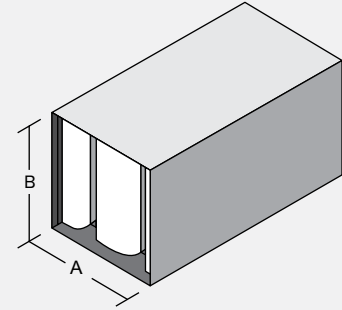
## RNM-MV-F3

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

25 X 21 RNM-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	6	6	14	16	11	10	8	8
	0	4	4	10	13	9	9	8	8
	+ 1250	5	5	12	16	10	10	8	7
60	- 1250	11	8	17	18	12	11	9	8
	0	7	5	11	15	10	10	9	7
	+ 1250	7	7	15	18	12	11	9	8
84	- 1250	11	10	18	21	13	12	10	9
	0	7	6	12	16	11	11	10	8
	+ 1250	9	9	17	21	13	13	11	9
108	- 1250	12	12	21	23	15	13	11	10
	0	9	8	13	18	13	12	11	10
	+ 1250	9	11	19	22	15	14	12	10

### 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	0.08	0.14	0.22	0.32	0.43	0.56
60	0.03	0.08	0.14	0.21	0.30	0.41	0.54
84	0.04	0.09	0.16	0.25	0.36	0.48	0.63
108	0.04	0.09	0.15	0.24	0.35	0.47	0.62

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	- 1250	55	53	51	50	57	62	58	47
	- 750	49	43	43	47	52	53	44	31
	+ 750	47	41	39	42	50	50	43	32
	+ 1250	56	53	47	46	55	60	58	49

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  
25-26  
50-53  
75-80  
100-107  
125-134  
150-161  
175-188  
200-215  
225-240

##### "B" dimension ANY SIZE

Approx. weight  
4.2 lbs/cu.ft.

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

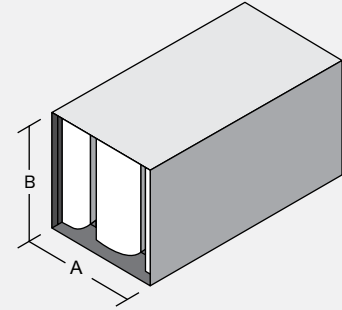
## RNM-MV-F4

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

47 X 22 RNM-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	8	6	13	16	10	9	7	7
	0	6	4	9	14	8	9	8	8
	+ 1250	6	5	11	16	10	10	8	7
60	- 1250	13	9	16	19	12	11	9	7
	0	9	5	11	16	10	10	9	7
	+ 1250	8	7	14	18	12	12	9	8
84	- 1250	12	11	16	20	13	12	9	8
	0	7	7	10	17	11	11	10	8
	+ 1250	10	9	15	20	13	13	11	10
108	- 1250	13	12	18	21	14	13	10	9
	0	9	8	11	18	12	12	10	10
	+ 1250	9	11	17	21	14	14	12	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](#).

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.08	0.14	0.21	0.30	0.41	0.54
60	0.03	0.07	0.13	0.20	0.29	0.40	0.52
84	0.04	0.09	0.16	0.25	0.36	0.49	0.64
108	0.04	0.08	0.15	0.23	0.34	0.46	0.60

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	- 1250	55	52	50	51	57	63	59	47
	- 750	49	43	43	47	53	54	44	31
	+ 750	47	41	39	42	50	50	43	32
	+ 1250	56	53	47	47	55	60	59	50

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  
23-24  
46-49  
69-74  
92-99  
115-124  
138-149  
161-174  
184-199  
207-224  
230-240

**"B" dimension**  
ANY SIZE

**Approx. weight**  
4.3 lbs/cu.ft.

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

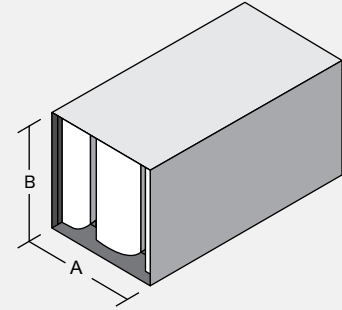
## RNM-MV-F5

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

**44** X **22** **RNM-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	7	6	12	16	12	10	8	7
	0	6	4	9	14	10	9	8	8
	+ 1250	6	5	11	16	12	10	8	8
60	- 1250	12	9	15	18	14	12	9	7
	0	8	5	10	15	12	11	9	8
	+ 1250	7	7	13	18	14	12	10	9
84	- 1250	12	10	16	19	15	12	9	8
	0	7	6	9	16	13	12	10	8
	+ 1250	10	8	14	19	15	14	11	10
108	- 1250	13	11	18	20	16	14	10	9
	0	9	7	11	17	14	13	11	10
	+ 1250	9	10	16	20	16	15	12	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](#).

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.08	0.14	0.21	0.31	0.42	0.55
60	0.03	0.07	0.13	0.21	0.30	0.40	0.53
84	0.04	0.09	0.16	0.24	0.35	0.47	0.62
108	0.04	0.09	0.15	0.24	0.34	0.46	0.61

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	- 1250	55	52	50	51	58	63	60	48
	- 750	48	43	43	48	54	54	45	31
	+ 750	47	41	39	43	51	50	43	32
	+ 1250	56	53	47	47	55	60	59	50

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  
21-22  
42-45  
63-68  
84-91  
105-114  
126-137  
147-160  
168-183  
189-206  
210-229  
231-240

**"B" dimension**  
ANY SIZE

**Approx. weight**  
4.5 lbs/cu.ft.

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

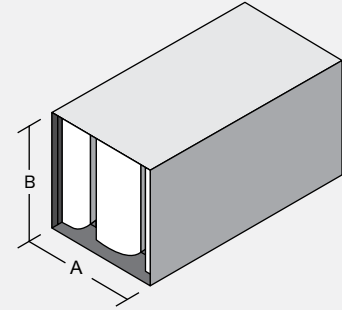
## RNM-MV-F6

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

40 X 21 RNM-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	7	6	12	16	14	10	8	7
	0	5	4	8	14	12	10	8	8
	+ 1250	6	5	10	15	14	11	9	8
60	- 1250	11	9	15	18	16	12	9	8
	0	7	5	10	15	14	11	9	8
	+ 1250	7	7	13	17	16	12	10	9
84	- 1250	11	9	15	19	16	13	9	8
	0	7	6	9	16	15	12	10	9
	+ 1250	10	8	13	19	17	14	11	10
108	- 1250	13	11	17	20	18	15	11	9
	0	9	7	10	16	15	14	11	10
	+ 1250	9	10	15	19	18	16	12	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](#).

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.08	0.14	0.22	0.31	0.42	0.55
60	0.03	0.08	0.13	0.21	0.30	0.41	0.53
84	0.04	0.08	0.15	0.23	0.34	0.46	0.60
108	0.04	0.09	0.15	0.24	0.35	0.47	0.61

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	- 1250	55	52	50	51	59	63	60	49
	- 750	48	43	43	48	55	54	45	31
	+ 750	47	41	39	44	51	51	43	32
	+ 1250	57	53	47	47	55	60	59	50

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  
19-20  
38-41  
57-62  
76-83  
95-104  
114-125  
133-146  
152-167  
171-188  
190-240

##### "B" dimension ANY SIZE

Approx. weight  
4.7 lbs/cu.ft.

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

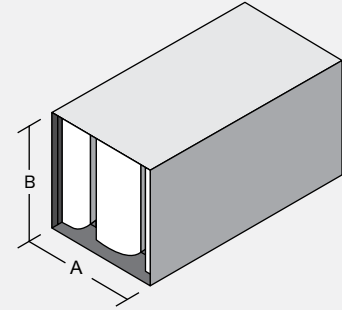
## RNM-MV-F7

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

**37** × **21** **RNM-MV-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	- 1250	7	6	12	16	16	11	8	7
	0	5	4	8	13	13	10	8	8
	+ 1250	5	4	10	15	16	11	9	8
60	- 1250	10	8	14	18	18	12	9	8
	0	6	5	9	15	16	11	9	8
	+ 1250	6	7	12	17	18	13	10	9
84	- 1250	11	9	14	18	18	13	9	8
	0	7	5	8	15	17	13	10	9
	+ 1250	9	7	13	18	18	14	11	10
108	- 1250	13	10	16	19	19	15	11	9
	0	9	6	9	15	17	15	11	10
	+ 1250	9	9	14	18	19	17	13	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](#).

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.04	0.08	0.14	0.22	0.32	0.43	0.56
60	0.03	0.08	0.14	0.21	0.30	0.41	0.54
84	0.04	0.08	0.15	0.23	0.33	0.44	0.58
108	0.04	0.09	0.16	0.24	0.35	0.47	0.62

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	- 1250	55	51	49	52	59	64	61	50
	- 750	48	43	43	49	56	55	46	32
	+ 750	47	41	39	44	51	51	44	32
	+ 1250	57	52	47	48	55	61	59	51

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  
17-18  
33-37  
50-56  
66-75  
83-94  
99-113  
116-240

**"B" dimension**  
ANY SIZE

**Approx. weight**  
4.9 lbs/cu.ft.

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

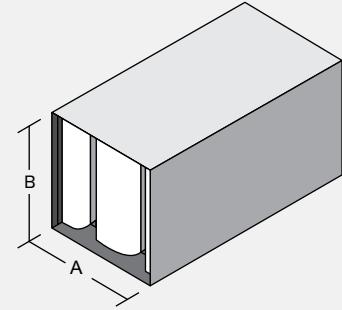
## RNM-MV-F8

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

14 X 22 RNM-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	5	6	12	22	17	10	10	10
	0	2	3	8	19	10	8	10	9
	+ 1250	2	5	10	21	16	9	10	8
60	- 1250	7	9	14	24	19	12	12	11
	0	2	5	9	20	14	11	11	10
	+ 1250	1	7	12	22	19	11	11	9
84	- 1250	9	10	14	25	23	14	13	12
	0	4	6	9	21	17	12	11	10
	+ 1250	4	8	12	23	22	13	12	10
108	- 1250	10	10	15	25	26	16	14	12
	0	6	6	9	21	20	13	12	11
	+ 1250	7	8	13	24	25	15	13	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](#).

Length (in.)	Face Velocity (ft. per min) / Pressure Drop (in.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.04	0.08	0.15	0.24	0.34	0.46	0.60
60	0.04	0.08	0.15	0.23	0.33	0.45	0.58
84	0.04	0.08	0.15	0.24	0.34	0.46	0.60
108	0.04	0.09	0.16	0.24	0.35	0.47	0.62

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	- 1250	55	51	49	52	59	64	61	50
	- 750	48	43	43	49	56	55	46	32
	+ 750	47	41	39	44	51	51	44	32
	+ 1250	57	52	47	48	55	61	59	51

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.)**  
7-8  
14-16  
27-32  
41-49  
54-65  
68-240

**"B" dimension**  
ANY SIZE

**Approx. weight**  
5.5 lbs/cu.ft.

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



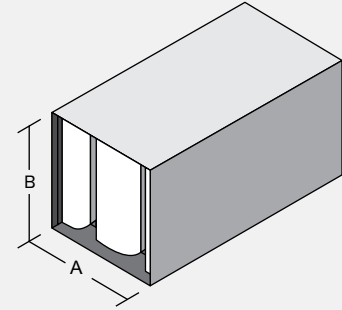
## RNM-MV-F9

Rectangular No-Media  
Medium velocity silencer  
(<1250 fpm)

How to Specify Example:

21 X 21 RNM-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	6	6	11	15	22	12	8	7
	0	4	3	7	12	18	10	9	8
	+ 1250	4	4	9	14	21	12	10	9
60	- 1250	7	8	13	17	24	14	10	8
	0	4	5	8	14	22	13	10	9
	+ 1250	4	6	11	16	24	14	11	10
84	- 1250	10	7	12	16	24	15	9	8
	0	7	3	7	13	23	14	10	10
	+ 1250	8	5	10	15	24	15	11	11
108	- 1250	13	9	14	17	24	18	12	10
	0	8	5	8	13	23	18	12	11
	+ 1250	10	7	11	16	24	20	13	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	750	1000	1250	1500	1750	2000
36	0.04	0.08	0.15	0.23	0.33	0.44	0.58
60	0.04	0.08	0.14	0.22	0.32	0.43	0.56
84	0.03	0.07	0.13	0.20	0.29	0.40	0.52
108	0.04	0.09	0.16	0.25	0.36	0.49	0.64

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	- 1250	55	51	48	52	62	65	63	52
	- 750	47	42	43	50	58	56	47	32
	+ 750	47	41	39	46	51	52	45	32
	+ 1250	57	52	47	49	55	61	60	52

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  
10-13  
20-26  
30-240

"B" dimension  
ANY SIZE

Approx. weight  
6.2 lbs/cu.ft.

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