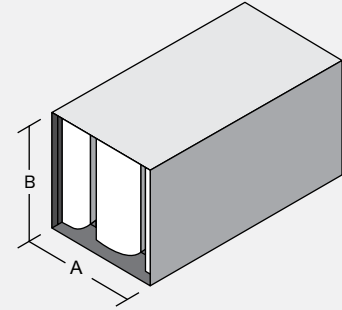


RD-HV-F1

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

32 X 21 RD-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
	0	3	6	10	11	12	11	10	8
	+ 2000	2	5	9	11	13	11	10	8
60	- 2000	5	11	17	19	19	16	14	11
	0	4	9	16	18	18	14	12	11
	+ 2000	4	8	14	17	19	15	13	10
84	- 2000	7	15	23	26	25	19	15	13
	0	5	12	22	24	23	17	15	13
	+ 2000	5	11	20	23	25	18	16	13
108	- 2000	8	19	29	33	31	22	17	14
	0	7	16	27	31	29	20	17	15
	+ 2000	7	14	25	29	30	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	0.06	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 ⁻¹² 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.)
 15-16
 29-32
 58-64
 87-96
 116-128
 145-160
 174-192
 203-224
 232-240

"B" dimension
 ANY SIZE

Approx. weight
 5.5 lbs/cu.ft.

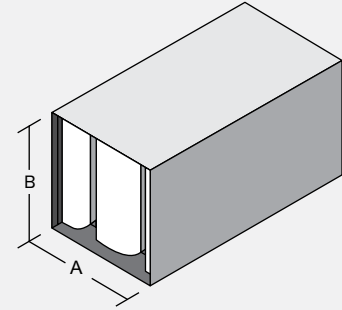
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F2

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

27 X 22 RD-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
	0	3	6	10	12	13	11	9	8
	+ 2000	2	5	9	12	13	11	10	7
60	- 2000	5	10	16	22	20	16	13	10
	0	4	8	15	20	19	15	12	10
	+ 2000	3	7	14	19	19	15	13	10
84	- 2000	7	15	22	29	27	20	15	11
	0	6	12	21	27	26	18	14	12
	+ 2000	5	10	19	26	27	20	15	12
108	- 2000	8	19	28	36	33	23	16	13
	0	6	15	27	34	32	21	16	14
	+ 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	0.25	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 ⁻¹² 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.)
 14
 27-28
 54-57
 81-86
 108-115
 135-144
 162-173
 189-202
 216-231

"B" dimension
 ANY SIZE

Approx. weight
 5.4 lbs/cu.ft.

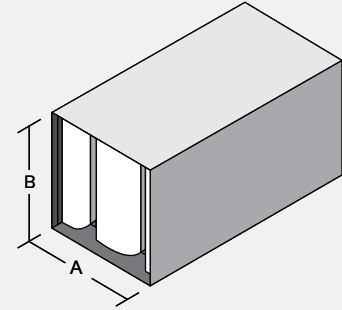
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F3

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

25 X 21 RD-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
	0	3	5	9	14	14	11	8	7
	+ 2000	3	5	8	13	14	11	9	6
60	- 2000	4	9	15	24	20	15	12	9
	0	4	7	14	23	20	15	11	10
	+ 2000	3	6	13	22	20	16	12	9
84	- 2000	7	15	22	32	30	20	14	10
	0	6	12	20	30	28	20	13	11
	+ 2000	6	10	19	28	29	22	15	11
108	- 2000	7	18	27	40	36	23	16	12
	0	6	15	26	38	35	23	15	13
	+ 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 ⁻¹² 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.)
 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 5.6 lbs/cu.ft.

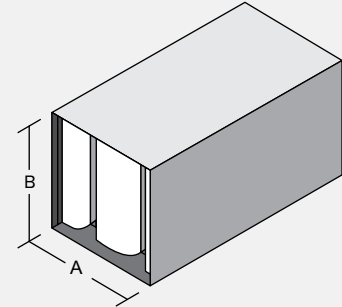
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F4

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

47 X 22 RD-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
	0	3	5	9	15	14	10	7	6
	+ 2000	3	5	8	14	14	11	8	5
60	- 2000	4	8	15	27	21	15	11	7
	0	3	7	13	26	20	15	10	9
	+ 2000	3	6	12	25	21	17	12	8
84	- 2000	7	15	21	35	32	21	14	9
	0	6	12	20	33	31	21	13	10
	+ 2000	6	10	18	31	32	23	15	10
108	- 2000	6	18	27	43	39	24	15	10
	0	5	15	26	41	39	25	14	12
	+ 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 ⁻¹² 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.)
 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
 5.7 lbs/cu.ft.

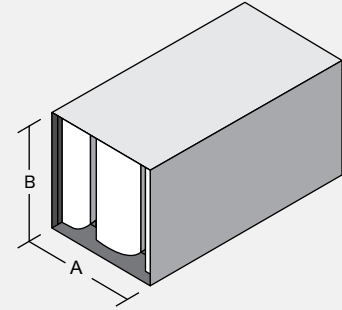
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F5

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

44 X 22 RD-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
	0	3	5	9	15	16	12	8	6
	+ 2000	3	5	8	14	16	13	9	6
60	- 2000	4	8	14	26	24	17	12	8
	0	4	6	12	25	24	18	11	9
	+ 2000	3	6	11	23	24	19	13	9
84	- 2000	7	15	21	35	36	26	16	10
	0	7	11	19	33	36	26	15	12
	+ 2000	6	10	18	31	36	28	18	11
108	- 2000	6	17	26	42	42	28	17	11
	0	5	14	24	40	43	29	16	12
	+ 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	0.17	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 ⁻¹² 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.)
 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
 5.5 lbs/cu.ft.

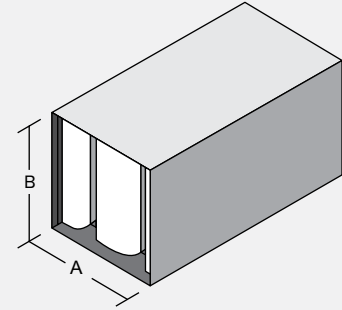
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F6

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

40 X 21 RD-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
	0	3	5	8	14	19	13	9	7
	+ 2000	3	4	7	13	18	14	10	6
60	- 2000	4	8	13	25	28	20	13	8
	0	4	6	12	24	27	20	13	10
	+ 2000	3	5	11	22	27	21	15	10
84	- 2000	7	14	21	36	40	30	18	11
	0	7	11	19	34	41	31	18	13
	+ 2000	6	10	17	31	41	33	21	13
108	- 2000	6	17	25	41	45	33	19	12
	0	6	14	23	40	46	34	19	13
	+ 2000	4	12	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 ⁻¹² 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.)
 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 5.6 lbs/cu.ft.

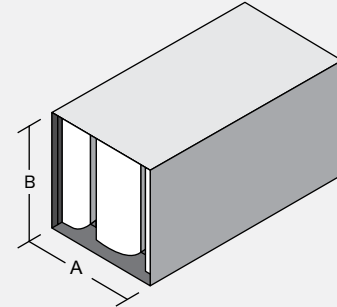
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F7

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

37 X **21** **RD-HV-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	- 2000	4	5	11	18	20	15	10	7
	0	3	4	10	17	20	14	9	7
	+ 2000	3	4	9	16	19	15	11	7
60	- 2000	4	7	16	29	30	21	13	9
	0	4	5	14	27	29	21	13	11
	+ 2000	3	5	13	26	29	23	16	11
84	- 2000	7	13	27	43	42	33	20	12
	0	7	10	24	41	43	34	20	14
	+ 2000	6	8	21	38	43	36	23	15
108	- 2000	6	15	30	49	46	35	21	13
	0	6	12	27	47	47	37	21	14
	+ 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	0.06	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	0.25	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 ⁻¹² 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.)
 9
 17-18
 33-37
 50-56
 66-75
 83-94
 99-113
 116-240

"B" dimension
 ANY SIZE

Approx. weight
 5.7 lbs/cu.ft.

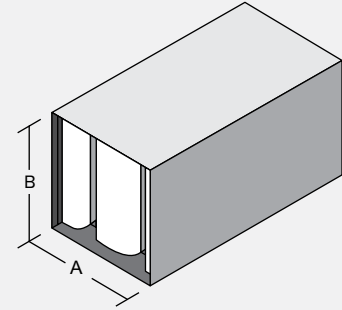
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F8

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

14 X 22 RD-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
	0	1	4	8	15	20	16	14	12
	+ 2000	2	3	7	14	19	16	14	11
60	- 2000	6	7	16	28	33	23	17	14
	0	4	6	14	26	32	24	18	15
	+ 2000	4	5	13	24	32	24	18	14
84	- 2000	8	10	22	39	46	30	20	16
	0	6	9	20	37	45	32	22	18
	+ 2000	6	7	18	35	44	33	23	17
108	- 2000	11	13	29	50	55	37	23	18
	0	9	11	27	48	55	40	26	21
	+ 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 ⁻¹² 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.)
7-8
14-16
27-32
41-49
54-65
68-240

"B" dimension
ANY SIZE

Approx. weight
6.0 lbs/cu.ft.

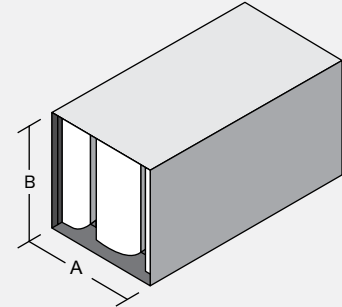
See [Rectangular Silencer Cross-Section Dimensions](#) to ensure selection matches ductwork dimensions.

RD-HV-F9

Rectangular Dissipative High velocity silencer (<2000 fpm)

How to Specify Example:

21 X 21 RD-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
	0	3	3	8	16	26	19	12	8
	+ 2000	3	3	7	14	25	19	14	8
60	- 2000	4	6	14	25	40	28	16	11
	0	5	5	11	24	39	28	17	12
	+ 2000	4	5	10	22	38	29	19	13
84	- 2000	7	12	28	44	53	45	27	16
	0	7	10	22	42	55	48	28	18
	+ 2000	6	8	19	39	55	49	32	20
108	- 2000	7	13	27	46	54	47	27	16
	0	7	11	22	44	55	49	28	17
	+ 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	0.14	0.18	0.24	0.30	0.38
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 ⁻¹² 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.)
6
10-13
20-26
30-240

"B" dimension
ANY SIZE

Approx. weight
6.3 lbs/cu.ft.

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