

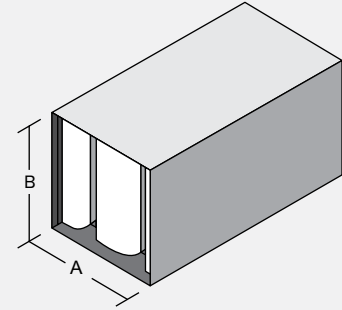
RFL-ULV-F1

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

32 × **21** **RFL-ULV-F1** × **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	- 500	10	14	15	14	22	25	19	12
	0	11	14	15	14	21	28	20	12
	+ 500	9	13	14	13	21	29	21	13
60	- 500	12	16	23	24	31	33	23	12
	0	12	15	22	23	30	35	26	14
	+ 500	11	15	22	23	30	35	27	15
84	- 500	14	17	31	34	40	41	28	13
	0	13	16	30	33	40	41	31	16
	+ 500	12	16	30	32	40	41	33	16
108	- 500	17	20	39	39	46	51	32	15
	0	15	19	37	41	49	49	37	19
	+ 500	14	19	37	39	46	50	39	19

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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.12	0.26	0.46	0.72	1.04	1.41
60	0.04	0.16	0.35	0.63	0.98	1.41	1.92
84	0.05	0.20	0.45	0.80	1.24	1.79	2.43
108	0.06	0.24	0.54	0.96	1.50	2.17	2.95

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	- 750	60	41	39	40	46	52	43	36
	- 500	56	43	34	36	40	39	29	34
	+ 500	62	41	38	36	34	27	26	34
	+ 750	59	46	44	44	43	40	36	35

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 6.7 lbs/cu.ft.

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

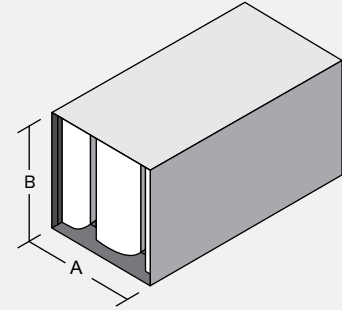
RFL-ULV-F2

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

27 X 22 RFL-ULV-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	- 500	10	13	15	15	23	27	18	11
	0	11	13	14	15	22	29	19	12
	+ 500	10	12	14	14	22	29	20	12
60	- 500	12	15	23	25	32	35	23	12
	0	12	15	22	25	32	37	25	13
	+ 500	11	14	21	24	32	38	26	14
84	- 500	14	17	30	36	42	44	28	12
	0	13	16	30	35	42	46	32	15
	+ 500	12	16	29	34	42	47	33	16
108	- 500	16	20	37	39	46	55	33	14
	0	15	18	36	41	49	55	38	18
	+ 500	14	18	36	39	46	55	40	19

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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.11	0.26	0.45	0.71	1.02	1.39
60	0.04	0.15	0.34	0.61	0.95	1.37	1.86
84	0.05	0.20	0.44	0.78	1.22	1.76	2.39
108	0.06	0.22	0.50	0.90	1.40	2.01	2.74

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	- 750	59	43	41	42	47	52	43	36
	- 500	56	43	36	37	42	40	30	33
	+ 500	61	41	39	37	35	28	26	33
	+ 750	59	47	45	45	43	41	36	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 6.7 lbs/cu.ft.

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

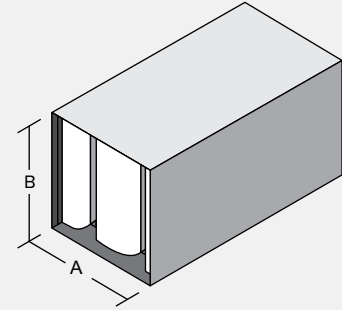
RFL-ULV-F3

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

25 X 21 RFL-ULV-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	- 500	10	12	15	16	23	28	17	10
	0	11	12	14	16	23	29	18	11
	+ 500	10	11	14	15	23	30	19	11
60	- 500	12	14	22	27	34	38	22	11
	0	12	14	22	27	34	40	25	13
	+ 500	11	14	21	26	34	41	26	13
84	- 500	14	17	30	37	44	48	28	11
	0	13	16	29	37	44	51	32	14
	+ 500	12	16	28	37	44	52	34	15
108	- 500	16	19	36	39	46	55	34	14
	0	15	18	35	41	48	55	38	17
	+ 500	14	18	34	39	46	55	40	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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.11	0.25	0.45	0.70	1.01	1.37
60	0.04	0.15	0.33	0.59	0.92	1.33	1.80
84	0.05	0.19	0.43	0.77	1.20	1.72	2.34
108	0.05	0.21	0.47	0.83	1.29	1.86	2.53

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	- 750	58	44	43	43	48	52	43	35
	- 500	55	44	39	39	43	42	30	33
	+ 500	59	41	40	37	35	28	26	32
	+ 750	59	48	46	45	43	41	37	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
25-26
50-53
75-80
100-107
125-134
150-161
175-188
200-215
225-240

"B" dimension
ANY SIZE

Approx. weight
6.8 lbs/cu.ft.

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

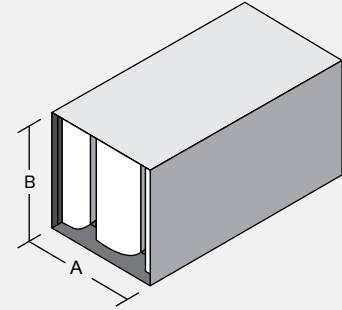
RFL-ULV-F4

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

47 X 22 RFL-ULV-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	- 500	10	11	14	18	24	30	16	9
	0	11	11	14	17	24	30	17	10
	+ 500	10	11	13	17	24	31	18	10
60	- 500	12	14	22	28	35	40	22	10
	0	12	14	21	28	35	43	25	12
	+ 500	11	13	21	28	35	44	26	12
84	- 500	14	17	29	39	46	51	28	11
	0	13	16	28	40	47	55	33	14
	+ 500	13	15	28	39	46	55	34	14
108	- 500	15	19	35	39	46	55	35	13
	0	14	17	34	41	47	55	39	15
	+ 500	13	17	33	39	46	55	41	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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.11	0.25	0.44	0.69	0.99	1.35
60	0.04	0.14	0.32	0.57	0.89	1.28	1.75
84	0.05	0.19	0.42	0.75	1.17	1.69	2.30
108	0.05	0.19	0.43	0.76	1.19	1.71	2.33

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	- 750	57	45	45	45	48	53	44	35
	- 500	55	44	41	40	44	43	31	32
	+ 500	58	41	41	38	36	29	25	31
	+ 750	59	49	46	46	44	42	37	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.)
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
6.9 lbs/cu.ft.

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

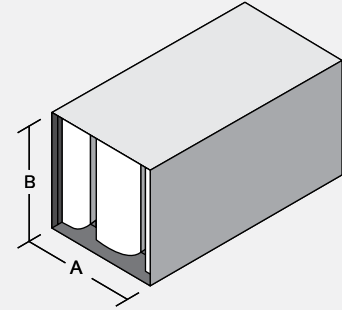
RFL-ULV-F5

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

44 X 22 RFL-ULV-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	- 500	10	11	14	19	26	30	18	9
	0	10	10	14	18	25	31	19	10
	+ 500	9	10	13	17	25	31	20	10
60	- 500	12	14	21	29	37	41	25	10
	0	11	13	21	29	37	44	28	12
	+ 500	11	13	20	28	37	45	29	13
84	- 500	14	17	29	39	48	52	31	12
	0	13	16	28	40	48	55	36	14
	+ 500	12	15	27	39	48	55	37	15
108	- 500	16	20	35	40	48	55	39	14
	0	15	18	34	41	48	55	42	16
	+ 500	13	18	33	40	48	55	43	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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.12	0.26	0.47	0.73	1.06	1.44
60	0.04	0.15	0.34	0.60	0.94	1.36	1.85
84	0.05	0.19	0.44	0.78	1.22	1.75	2.38
108	0.05	0.20	0.46	0.82	1.27	1.83	2.50

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	- 750	57	46	46	46	49	53	44	35
	- 500	55	45	42	41	44	42	30	32
	+ 500	57	42	41	39	36	29	25	31
	+ 750	59	49	47	46	43	41	36	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.)
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
6.7 lbs/cu.ft.

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

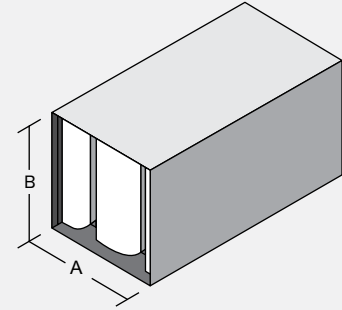
RFL-ULV-F6

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

40 X 21 RFL-ULV-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	- 500	9	10	14	19	27	31	20	9
	0	9	9	13	18	27	32	22	10
	+ 500	8	9	13	18	27	32	22	10
60	- 500	11	14	21	29	38	43	27	11
	0	11	13	20	29	38	45	30	13
	+ 500	10	12	20	28	38	45	31	13
84	- 500	14	17	28	40	49	54	35	13
	0	13	16	27	40	50	55	39	15
	+ 500	12	15	26	39	49	55	40	16
108	- 500	16	21	35	40	49	55	42	15
	0	15	19	34	42	49	55	45	17
	+ 500	13	18	32	41	49	55	46	19

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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.13	0.28	0.50	0.78	1.13	1.53
60	0.04	0.16	0.36	0.64	0.99	1.43	1.95
84	0.05	0.20	0.45	0.81	1.26	1.82	2.47
108	0.05	0.22	0.49	0.87	1.36	1.96	2.66

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	- 750	57	47	47	47	49	53	44	36
	- 500	55	45	42	42	44	42	30	32
	+ 500	57	43	42	40	36	28	25	31
	+ 750	59	50	47	46	43	41	35	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.)
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
6.8 lbs/cu.ft.

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

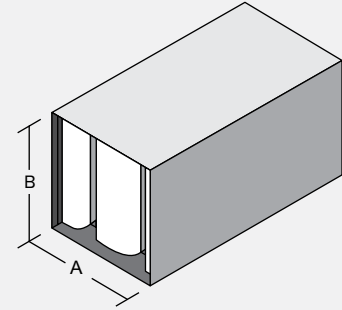
RFL-ULV-F7

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

37 X 21 RFL-ULV-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	- 500	8	10	14	19	28	32	23	9
	0	8	9	13	19	28	33	24	10
	+ 500	8	8	12	18	28	33	24	11
60	- 500	11	14	21	30	40	44	30	11
	0	10	12	20	29	40	46	33	13
	+ 500	10	12	19	29	39	46	34	14
84	- 500	14	18	28	40	51	55	38	14
	0	12	16	27	40	51	55	41	16
	+ 500	12	15	26	40	51	55	43	17
108	- 500	16	21	35	41	51	55	45	17
	0	15	19	33	42	51	55	48	18
	+ 500	13	19	32	41	51	55	48	19

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.)						
	250	500	750	1000	1250	1500	1750
36	0.03	0.13	0.30	0.53	0.83	1.19	1.62
60	0.04	0.17	0.38	0.67	1.05	1.51	2.05
84	0.05	0.21	0.47	0.84	1.30	1.88	2.56
108	0.06	0.23	0.52	0.93	1.45	2.08	2.83

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	- 750	56	47	48	48	50	53	45	36
	- 500	54	46	43	43	45	42	30	32
	+ 500	56	43	42	40	36	28	25	31
	+ 750	59	50	47	46	43	41	34	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.)
9
17-18
33-37
50-56
66-75
83-94
99-113
116-240

"B" dimension
ANY SIZE

Approx. weight
6.9 lbs/cu.ft.

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

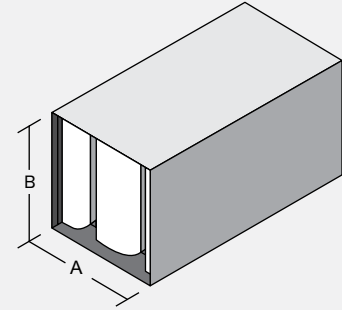
RFL-ULV-F8

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

14 X 22 RFL-ULV-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	- 500	6	9	13	20	26	30	29	12
	0	5	6	13	19	25	30	28	11
	+ 500	5	6	12	19	25	30	28	12
60	- 500	9	14	20	31	41	45	31	14
	0	8	12	19	30	41	46	31	13
	+ 500	7	12	19	30	41	45	32	14
84	- 500	13	19	27	43	55	55	34	15
	0	11	18	26	41	55	55	35	16
	+ 500	10	17	25	41	55	55	36	15
108	- 500	16	24	34	44	55	55	39	18
	0	13	23	32	51	55	55	41	19
	+ 500	12	22	31	44	55	55	42	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.)						
	250	500	750	1000	1250	1500	1750
36	0.04	0.16	0.35	0.63	0.98	1.42	1.93
60	0.05	0.19	0.42	0.76	1.18	1.70	2.31
84	0.06	0.22	0.50	0.88	1.38	1.98	2.70
108	0.06	0.25	0.57	1.01	1.57	2.26	3.08

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	- 750	55	46	49	51	49	51	42	37
	- 500	56	46	44	46	43	38	26	34
	+ 500	55	45	43	44	36	26	26	34
	+ 750	60	51	45	43	39	36	26	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.)

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

"B" dimension
ANY SIZE

Approx. weight
7.2 lbs/cu.ft.

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

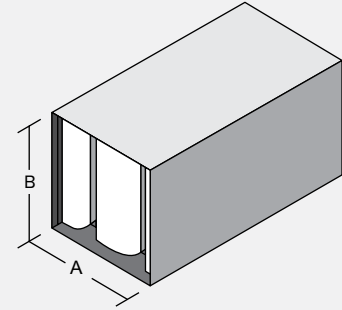
RFL-ULV-F9

Rectangular Film Lined
Ultra low velocity silencer
(<500 fpm)

How to Specify Example:

21 × **21** **RFL-ULV-F9** × **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	- 500	7	8	13	21	33	35	29	9
	0	6	6	12	20	32	35	30	10
	+ 500	5	6	11	19	32	35	31	11
60	- 500	10	13	20	31	44	47	39	13
	0	9	11	19	30	44	49	40	14
	+ 500	8	10	18	30	44	47	41	15
84	- 500	13	19	27	41	55	55	48	17
	0	12	17	25	40	55	55	50	18
	+ 500	11	15	24	40	55	55	52	19
108	- 500	17	24	34	43	55	55	55	20
	0	16	21	32	44	55	55	55	21
	+ 500	13	20	30	44	55	55	55	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.)						
	250	500	750	1000	1250	1500	1750
36	0.04	0.16	0.35	0.62	0.97	1.40	1.90
60	0.05	0.19	0.43	0.77	1.20	1.73	2.36
84	0.06	0.23	0.52	0.92	1.44	2.07	2.82
108	0.07	0.27	0.61	1.09	1.70	2.45	3.34

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	- 750	55	49	51	52	51	54	45	37
	- 500	54	47	46	45	45	40	28	32
	+ 500	55	45	44	43	37	27	25	31
	+ 750	58	51	48	47	43	39	30	30

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
7.5 lbs/cu.ft.

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