

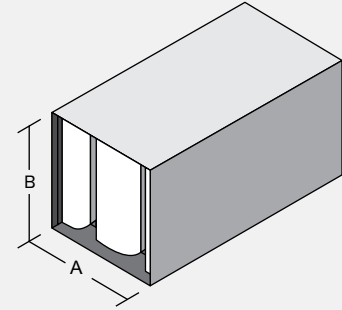
RFMB-ULV-F1

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

How to Specify Example:

32 X 21 RFMB-ULV-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 | - 500 | 10 | 14 | 15 | 14 | 22 | 25 | 19 | 12 |
| | + 500 | 9 | 13 | 14 | 13 | 21 | 29 | 21 | 13 |
| 60 | - 500 | 12 | 16 | 23 | 24 | 31 | 33 | 23 | 12 |
| | + 500 | 11 | 15 | 22 | 23 | 30 | 35 | 27 | 15 |
| 84 | - 500 | 14 | 17 | 31 | 34 | 40 | 41 | 28 | 13 |
| | + 500 | 12 | 16 | 30 | 32 | 40 | 41 | 33 | 16 |
| 108 | - 500 | 17 | 20 | 39 | 39 | 46 | 51 | 32 | 15 |
| | + 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.)
14.5-15.5
29-31
58-62
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.

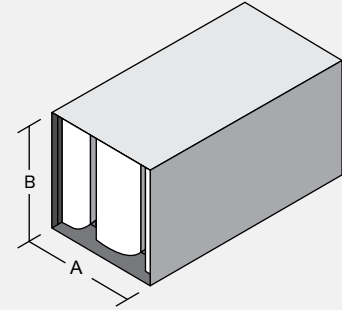
RFMB-ULV-F2

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

How to Specify Example:

27 X 22 RFMB-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 |
| | + 500 | 10 | 12 | 14 | 14 | 22 | 29 | 20 | 12 |
| 60 | - 500 | 12 | 15 | 23 | 25 | 32 | 35 | 23 | 12 |
| | + 500 | 11 | 14 | 21 | 24 | 32 | 38 | 26 | 14 |
| 84 | - 500 | 14 | 17 | 30 | 36 | 42 | 44 | 28 | 12 |
| | + 500 | 12 | 16 | 29 | 34 | 42 | 47 | 33 | 16 |
| 108 | - 500 | 16 | 20 | 37 | 39 | 46 | 55 | 33 | 14 |
| | + 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 | 0.19 | 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.)

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.

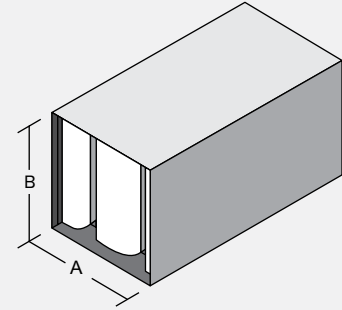
RFMB-ULV-F3

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

How to Specify Example:

25 X 21 RFMB-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 |
| | + 500 | 10 | 11 | 14 | 15 | 23 | 30 | 19 | 11 |
| 60 | - 500 | 12 | 14 | 22 | 27 | 34 | 38 | 22 | 11 |
| | + 500 | 11 | 14 | 21 | 26 | 34 | 41 | 26 | 13 |
| 84 | - 500 | 14 | 17 | 30 | 37 | 44 | 48 | 28 | 11 |
| | + 500 | 12 | 16 | 28 | 37 | 44 | 52 | 34 | 15 |
| 108 | - 500 | 16 | 19 | 36 | 39 | 46 | 55 | 34 | 14 |
| | + 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 | 0.76 | 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.)
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.

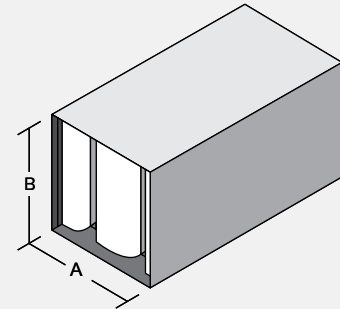
RFMB-ULV-F4

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

How to Specify Example:

47 × 22 RFMB-ULV-F4 × 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 |
| | + 500 | 10 | 11 | 13 | 17 | 24 | 31 | 18 | 10 |
| 60 | - 500 | 12 | 14 | 22 | 28 | 35 | 40 | 22 | 10 |
| | + 500 | 11 | 13 | 21 | 28 | 35 | 44 | 26 | 12 |
| 84 | - 500 | 14 | 17 | 29 | 39 | 46 | 51 | 28 | 11 |
| | + 500 | 13 | 15 | 28 | 39 | 46 | 55 | 34 | 14 |
| 108 | - 500 | 15 | 19 | 35 | 39 | 46 | 55 | 35 | 13 |
| | + 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.)
11.5-12.5
23-25
46-50
69-100
115-125
138-150
161-175
207-225

"B" dimension
ANY SIZE

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

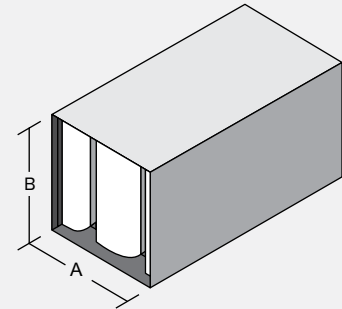
RFMB-ULV-F5

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

How to Specify Example:

44 X 22 RFMB-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 | 18 | 26 | 30 | 18 | 9 |
| | + 500 | 9 | 10 | 13 | 17 | 25 | 31 | 20 | 10 |
| 60 | - 500 | 12 | 14 | 21 | 29 | 37 | 41 | 25 | 10 |
| | + 500 | 11 | 13 | 20 | 28 | 37 | 45 | 29 | 13 |
| 84 | - 500 | 14 | 17 | 29 | 39 | 48 | 52 | 31 | 12 |
| | + 500 | 12 | 15 | 28 | 39 | 48 | 55 | 37 | 15 |
| 108 | - 500 | 16 | 20 | 35 | 40 | 48 | 55 | 29 | 14 |
| | + 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 | 0.81 | 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.)

10.5-11.5
21-23
42-46
63-69
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.

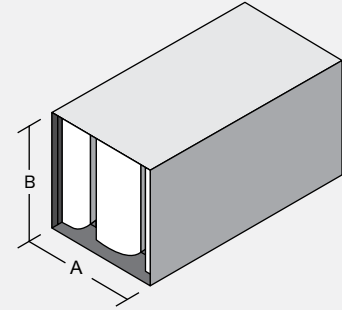
RFMB-ULV-F6

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

How to Specify Example:

40 X 21 RFMB-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 |
| | + 500 | 8 | 9 | 13 | 18 | 27 | 32 | 22 | 10 |
| 60 | - 500 | 11 | 14 | 21 | 29 | 38 | 43 | 27 | 11 |
| | + 500 | 10 | 12 | 20 | 28 | 38 | 45 | 31 | 13 |
| 84 | - 500 | 14 | 17 | 28 | 40 | 49 | 54 | 35 | 13 |
| | + 500 | 12 | 15 | 26 | 39 | 49 | 55 | 40 | 16 |
| 108 | - 500 | 16 | 21 | 35 | 40 | 49 | 55 | 42 | 15 |
| | + 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.)
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.

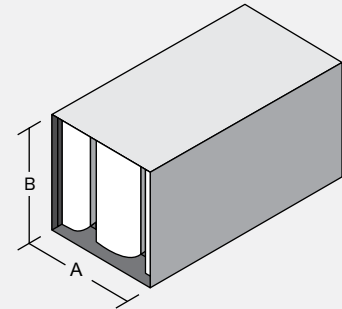
RFMB-ULV-F7

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

How to Specify Example:

37 X 21 RFMB-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 |
| | + 500 | 8 | 8 | 12 | 18 | 28 | 33 | 24 | 11 |
| 60 | - 500 | 11 | 14 | 21 | 30 | 40 | 44 | 30 | 11 |
| | + 500 | 10 | 12 | 19 | 29 | 39 | 46 | 34 | 14 |
| 84 | - 500 | 14 | 18 | 28 | 40 | 51 | 55 | 38 | 14 |
| | + 500 | 12 | 15 | 26 | 40 | 51 | 55 | 43 | 17 |
| 108 | - 500 | 16 | 21 | 35 | 41 | 51 | 55 | 45 | 17 |
| | + 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 | 0.83 | 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.)
8.25-9.5
16.5-19
33-38
49.7-57
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.

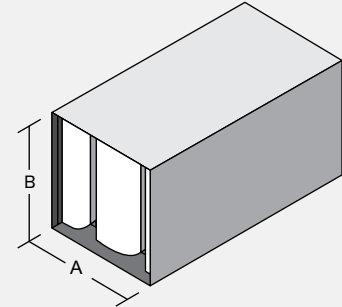
RFMB-ULV-F8

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

How to Specify Example:

14 X 22 RFMB-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 |
| | + 500 | 5 | 6 | 12 | 19 | 25 | 30 | 28 | 12 |
| 60 | - 500 | 9 | 14 | 20 | 31 | 41 | 45 | 31 | 14 |
| | + 500 | 7 | 12 | 19 | 30 | 41 | 45 | 32 | 14 |
| 84 | - 500 | 13 | 19 | 27 | 43 | 55 | 55 | 34 | 15 |
| | + 500 | 10 | 17 | 25 | 41 | 55 | 55 | 36 | 15 |
| 108 | - 500 | 16 | 24 | 34 | 44 | 55 | 55 | 29 | 18 |
| | + 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 | 0.75 | 1.18 | 1.70 | 2.31 |
| 84 | 0.05 | 0.22 | 0.49 | 0.88 | 1.37 | 1.98 | 2.69 |
| 108 | 0.06 | 0.25 | 0.57 | 1.00 | 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.)

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.

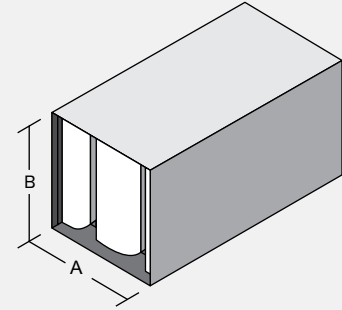
RFMB-ULV-F9

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

How to Specify Example:

21 X 21 RFMB-ULV-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 | - 500 | 7 | 8 | 13 | 21 | 33 | 35 | 29 | 9 |
| | + 500 | 5 | 6 | 11 | 19 | 32 | 35 | 31 | 11 |
| 60 | - 500 | 10 | 13 | 20 | 31 | 44 | 47 | 39 | 13 |
| | + 500 | 8 | 10 | 18 | 30 | 44 | 47 | 41 | 15 |
| 84 | - 500 | 13 | 19 | 27 | 41 | 55 | 55 | 48 | 17 |
| | + 500 | 11 | 15 | 24 | 40 | 55 | 55 | 52 | 19 |
| 108 | - 500 | 17 | 24 | 34 | 43 | 55 | 55 | 55 | 20 |
| | + 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 | 57 | 46 | 45 | 45 | 40 | 28 | 32 |
| | + 500 | 55 | 45 | 44 | 43 | 37 | 27 | 25 | 31 |
| | + 750 | 58 | 51 | 48 | 47 | 43 | 39 | 30 | 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.)
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.