RL/RM/RH

RECTANGULAR SILENCER

E.H Price Gulf AC Requisites Manufacturing L.L.C certifies that the silencers **RL/RM/RH** shown herein are licensed to bear the **AMCA seal**. The ratings shown are based on tests and procedures performed in accordance with **AMCA Publication 1011** and comply with the requirements of the AMCA Certified Ratings Program. AMCA Certified Ratings Seal applies to dynamic insertion loss, airflow generated noise, and pressure drop."

RL

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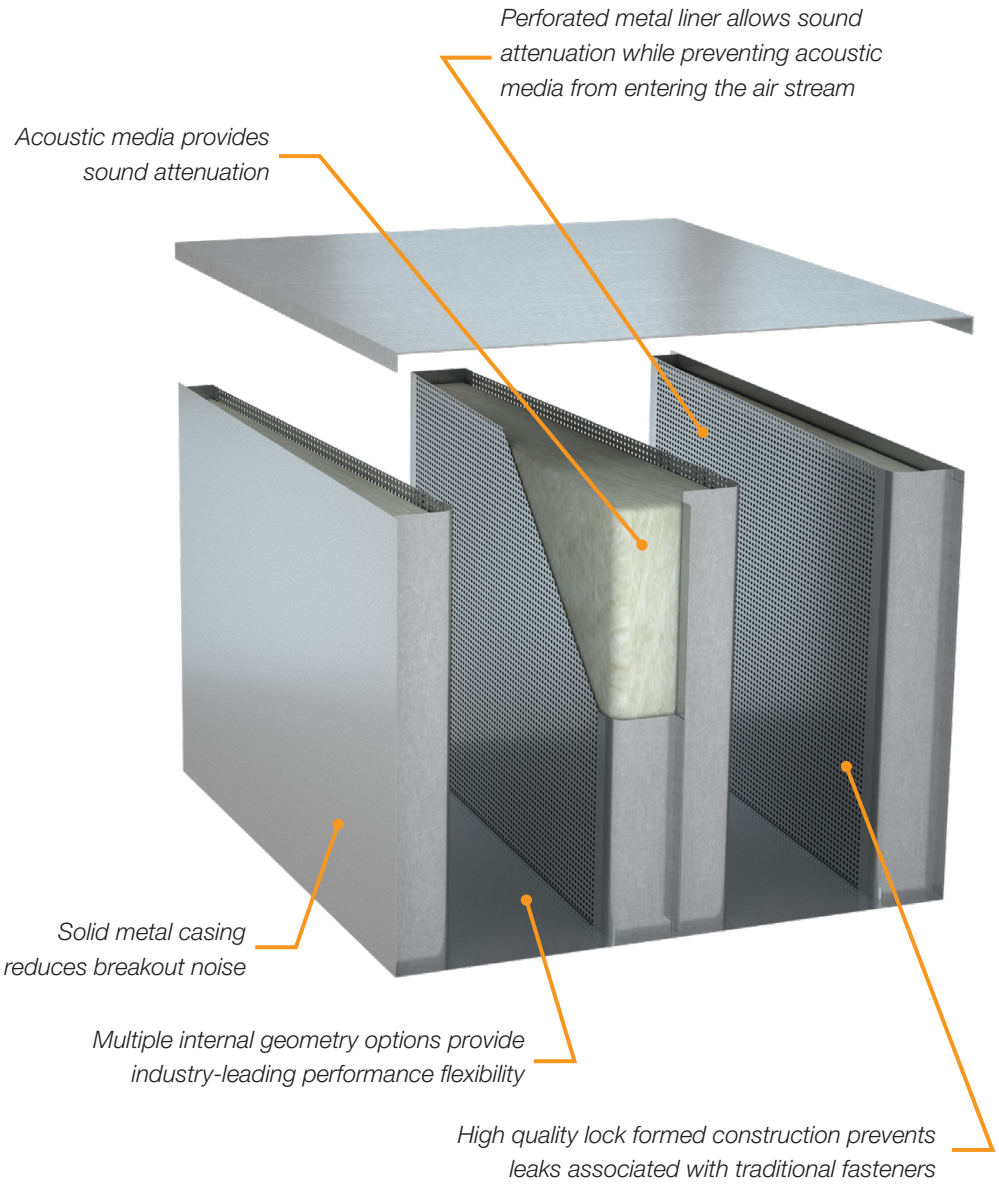
RL/RM/RH
Rectangular Silencer

Rectangular silencers are designed to reduce noise in rectangular ductwork while minimizing system pressure drop. The simple design, relatively low cost, and high level of performance flexibility make rectangular silencers a reliable and cost-effective choice. A wide range of design and performance options allow rectangular silencers to be easily integrated into any HVAC system.



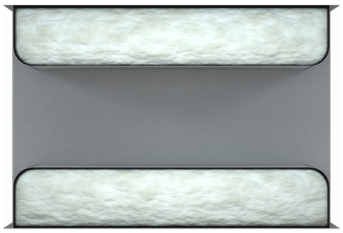
OPTIMIZED PERFORMANCE

Rectangular silencers are available with multiple internal geometries, providing the highest level of performance flexibility in the industry. Geometry variety allows rectangular silencers to match the requirements of any job to meet insertion loss requirements while minimizing pressure drop.

Maximum Insertion Loss

Geometry: L

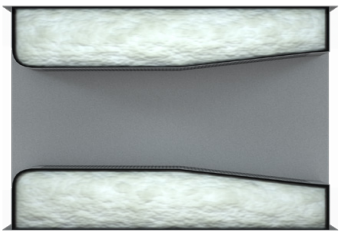
Best suited for applications with very high insertion loss requirements. This configuration features a constant gap and smooth aerodynamic surface throughout.



Balanced Performance

Geometry: M

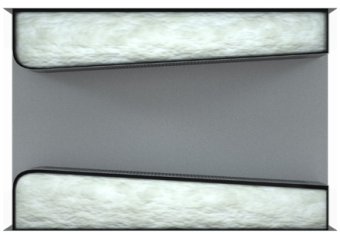
Providing an optimal balance between high insertion loss and low pressure drop, this configuration features a sloped tail arrangement allowing for static regain for improved pressure drop.



Ultra-Low Pressure Drop

Geometry: H

Best suited for applications where high air velocities cannot be avoided, this configuration minimizes the pressure drop that can occur at higher velocities.



TYPICAL APPLICATIONS

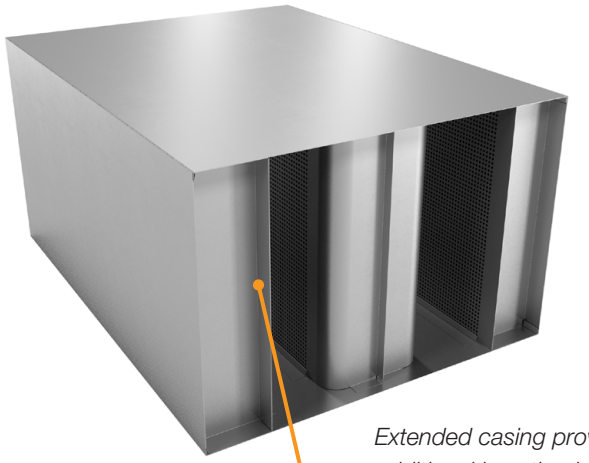
Rectangular silencers are intended for silencing noise in rectangular ductwork and a wide range of design options allow them to be integrated into any HVAC system with ease.

CONSTRUCTION

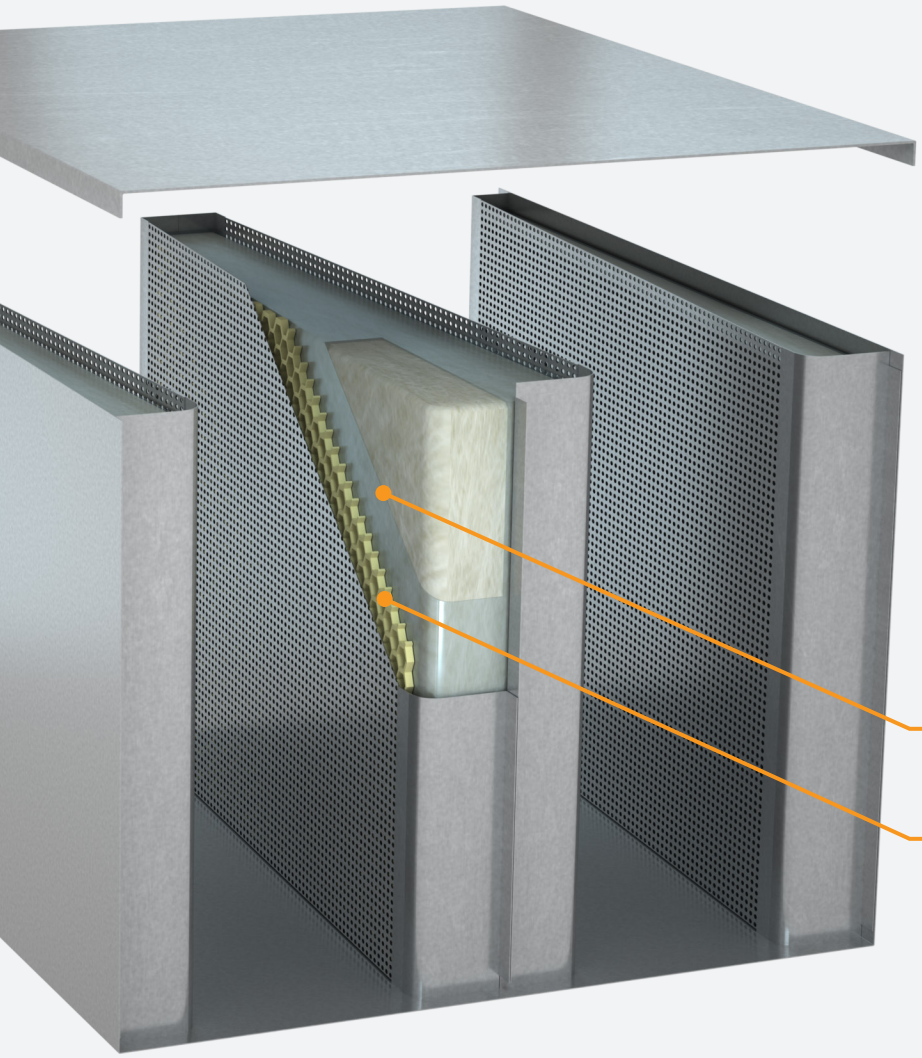
+ Geometry
  - Maximum insertion loss (L)
  - Balanced performance (M)
  - Ultra-low pressure drop (H)
+ Construction Type
  - 22 gauge
  - 18 gauge
  - 16 gauge
  - 10 gauge
+ Material
  - Galvanized Steel
  - Aluminum
  - 304 Stainless Steel
  - 316 Stainless Steel
  - Galvanneal
+ Optional Features
  - Extended casing
  - Media protection
  - Fiberglass cloth
  - Flanges
  - Transitions

EXTENDED CASINGS

+ The extended casing configuration is designed to control duct noise where high insertion loss is required at lower frequencies.
+ The extended outer shell holds additional acoustic media without changing the internal geometry used in standard rectangular silencers.



Extended casing provides additional insertion loss without contributing to system pressure drop

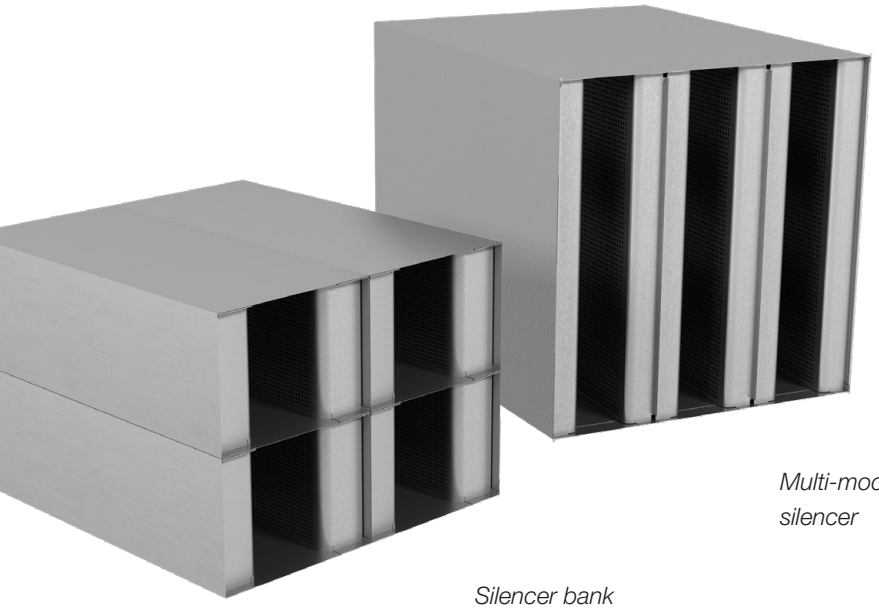


FILM LINERS

+ Commonly used in health care & education applications, film lined silencers are designed with a thin polymer film liner separating acoustic media from the air stream.
+ Film lined silencers use the same internal geometry as standard rectangular silencers. An acoustic standoff between the film liner and perforated metal ensures uncompromising acoustic performance.

Polymer film liner prevents acoustic media from entering the air stream

Acoustic standoff separates the polymer film and perforated metal to ensure acoustic performance is maintained



Multi-module silencer

Silencer bank

CUSTOMIZABLE

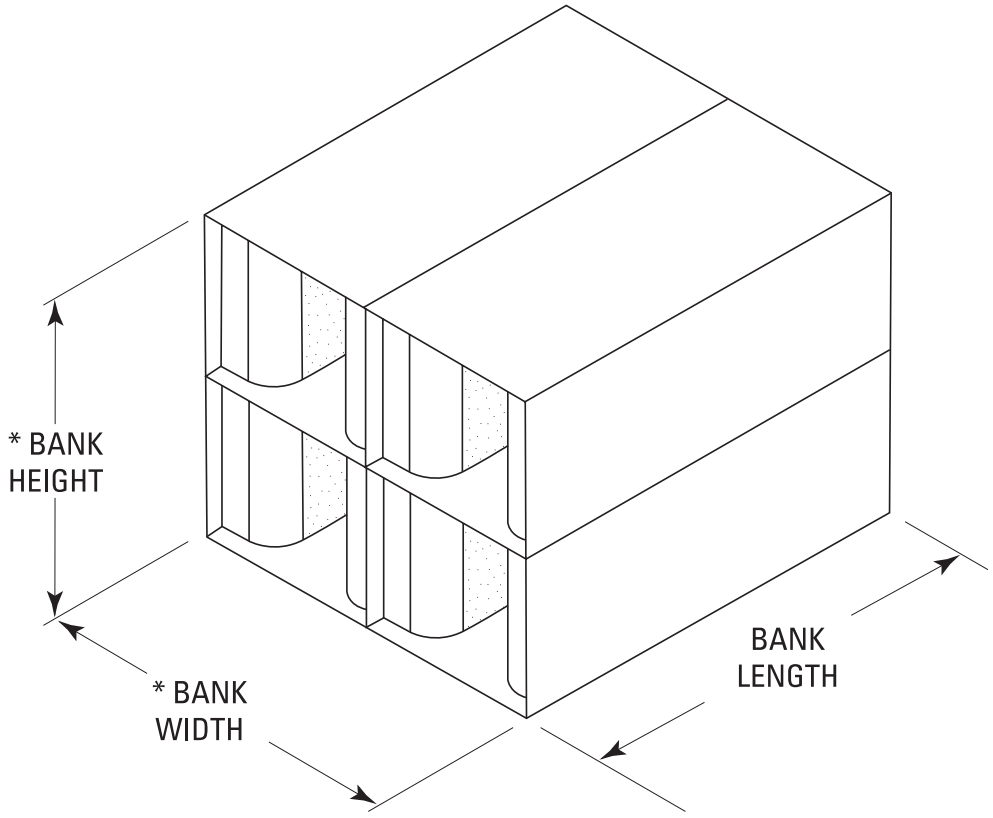
+ Available in a large range of sizes, rectangular silencers offer excellent flexibility to accommodate a variety of ductwork designs. For non-standard sizes, rectangular silencers can be custom built to suit the ductwork and application.
+ Silencers exceeding a width or height of 48 in. are built in multiple components, then field assembled into banks that matching the duct dimensions.
+ Multiple module configurations are available to optimize silencer performance.

FIRE RATED

+ Class 1 index: flame/smoke < 25/50
+ ASTM E84, UL 723, NFPA 255

DIMENSIONAL DATA

Rectangular silencers are built to match the duct dimensions; therefore the width, height and length dimensions for the silencer must always be specified. Please consult the Standard Dimension Limits chart for available sizes.

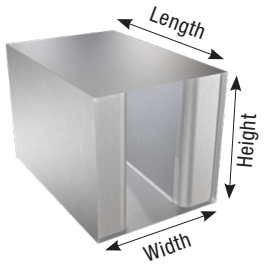


* Bank width & height typically equal the duct dimensions.

Standard Dimension Limits

Bank Width		Bank Height		Length		Component Width		Component Height	
Min	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
6	480	6	480	24	120	6	48	6	48

1. All dimensions are in inches.
2. Standard sizes are based on raw material sizes and acceptable structural engineering practices.
3. For sizes outside the standard range, please contact your local sales representative.
4. When the overall width and/or height dimensions exceed the maximum component dimensions, the silencer will consist of multiple components.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: L
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB) / Generated Noise (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.06	3	5	11	22	28	21	18	15
	+500	0.03	3	5	11	22	28	21	18	15
	0	0	3	5	11	22	28	21	17	14
	-500	0.03	4	6	12	23	29	21	17	14
	-750	0.06	4	6	12	23	29	21	17	14
60	+750	0.07	4	8	17	33	42	36	23	19
	+500	0.03	4	8	17	33	43	36	23	19
	0	0	4	8	17	33	43	36	22	18
	-500	0.03	5	9	18	34	44	36	22	18
	-750	0.07	5	9	18	34	44	36	22	18
84	+750	0.07	6	11	21	43	47	42	27	21
	+500	0.03	6	11	21	43	47	42	27	21
	0	0	6	11	22	43	48	42	27	21
	-500	0.03	7	12	23	44	49	42	27	21
	-750	0.07	7	12	23	44	49	42	27	21
108	+750	0.08	8	14	25	52	51	48	32	24
	+500	0.04	8	14	26	53	52	48	32	24
	0	0	8	14	26	53	52	48	31	23
	-500	0.04	9	15	27	54	53	48	31	23
	-750	0.08	9	15	28	55	54	48	31	23

Generated Noise (GN)

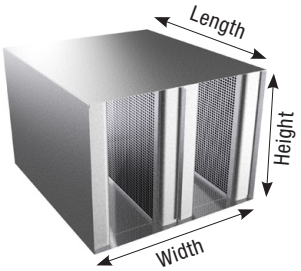
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	37	20	22	30	30	25	16	10
	+500	28	20	15	23	22	15	10	10
	0	25	20	15	15	10	10	10	10
	-500	25	20	24	31	27	22	10	10
	-750	33	26	30	35	33	31	21	14

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: L
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.38	6	11	20	39	42	39	29	20
	+500	0.17	6	12	21	39	42	39	29	20
	0	0	7	12	22	40	43	39	28	19
	-500	0.17	7	13	23	42	45	39	28	19
	-750	0.38	7	14	24	42	45	39	28	19
60	+750	0.42	8	17	31	50	53	55	47	32
	+500	0.19	8	17	32	51	54	55	47	31
	0	0	8	18	33	52	55	55	46	30
	-500	0.19	9	20	35	54	55	55	46	30
	-750	0.42	9	20	36	55	55	55	46	29
84	+750	0.44	12	22	35	53	53	55	52	37
	+500	0.2	12	22	36	54	54	55	51	37
	0	0	13	23	38	55	55	55	51	36
	-500	0.2	13	25	40	55	55	55	51	35
	-750	0.44	14	26	41	55	55	55	50	35
108	+750	0.5	15	26	39	53	53	55	55	43
	+500	0.22	16	27	40	54	54	55	55	42
	0	0	17	28	42	55	55	55	55	42
	-500	0.22	18	30	45	55	55	55	55	41
	-750	0.5	18	31	46	55	55	55	55	40

Generated Noise (GN)

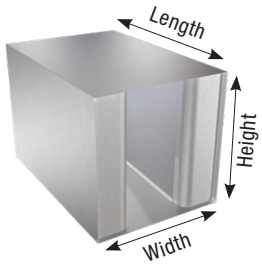
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	54	38	39	43	43	43	39	32
	+500	44	24	29	35	35	33	25	18
	0	25	20	15	15	10	10	10	10
	-500	39	31	34	38	37	37	30	23
	-750	47	39	41	43	43	45	42	35

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: L
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.06	4	6	11	19	14	11	10	9
	+500	0.02	4	6	11	19	14	11	10	9
	0	0	4	6	12	19	14	11	9	9
	-500	0.02	5	7	12	20	15	11	9	9
	-750	0.06	5	7	12	20	15	11	9	9
60	+750	0.06	6	9	17	28	23	16	12	10
	+500	0.03	6	9	17	28	24	16	12	10
	0	0	6	9	17	28	24	16	12	10
	-500	0.03	6	10	18	29	24	16	12	10
	-750	0.06	6	10	18	29	25	16	12	10
84	+750	0.06	8	12	22	37	33	21	14	11
	+500	0.03	8	12	23	37	33	21	14	11
	0	0	8	12	23	37	33	21	14	11
	-500	0.03	8	13	24	38	34	21	14	11
	-750	0.06	8	13	24	38	34	21	14	11
108	+750	0.06	9	15	28	45	37	24	17	13
	+500	0.03	9	15	28	46	37	24	17	13
	0	0	9	15	29	46	37	24	16	12
	-500	0.03	10	16	30	47	38	24	16	12
	-750	0.06	10	16	30	48	38	24	16	12

Generated Noise (GN)

Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	37	20	22	30	30	25	16	10
	+500	28	20	15	23	22	15	10	10
	0	25	20	15	15	10	10	10	10
	-500	25	20	24	31	27	22	10	10
	-750	33	26	30	35	33	31	21	14

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
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3. "-" indicates performance data for reverse flow (return) applications.
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5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
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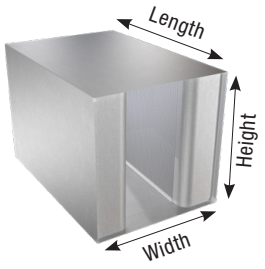

PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: L
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.32	6	11	19	29	28	22	19	14
	+500	0.14	6	11	20	30	28	22	19	14
	0	0	6	11	21	30	29	22	18	13
	-500	0.14	7	12	22	31	30	22	18	13
	-750	0.32	7	12	23	32	30	22	18	13
60	+750	0.35	9	17	28	44	44	38	23	16
	+500	0.15	10	17	29	45	44	38	22	16
	0	0	10	18	30	46	45	38	22	15
	-500	0.15	11	20	32	48	47	38	22	15
	-750	0.35	11	20	33	49	47	38	22	14
84	+750	0.38	13	22	37	49	48	46	27	19
	+500	0.17	14	23	38	50	49	46	27	18
	0	0	15	24	40	51	50	46	26	18
	-500	0.17	16	26	43	53	52	46	26	17
	-750	0.38	16	27	44	54	53	46	26	17
108	+750	0.4	17	28	46	53	53	53	31	21
	+500	0.18	18	29	47	54	54	53	31	21
	0	0	19	30	50	55	55	53	30	20
	-500	0.18	20	32	53	55	55	53	30	20
	-750	0.4	21	33	55	55	55	53	30	20

Generated Noise (GN)

Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	54	38	39	43	43	43	39	32
	+500	44	24	29	35	35	33	25	18
	0	25	20	15	15	10	10	10	10
	-500	39	31	34	38	37	37	30	23
	-750	47	39	41	43	43	45	42	35

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

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3. "-" indicates performance data for reverse flow (return) applications.
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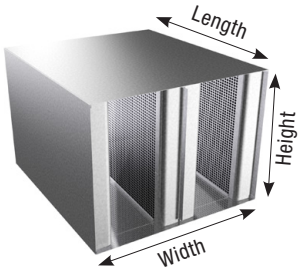

PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: M
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.1	2	4	9	21	26	20	15	14
	+750	0.04	2	4	9	21	26	20	15	14
	0	0	2	4	9	21	27	20	15	14
	-750	0.04	3	5	10	22	27	20	15	14
	-1250	0.1	3	5	10	22	27	20	15	14
60	+1250	0.11	4	6	13	30	33	29	20	17
	+750	0.04	4	7	14	31	34	29	20	17
	0	0	4	7	14	31	35	29	20	16
	-750	0.04	4	7	15	32	35	29	20	16
	-1250	0.11	4	7	15	33	36	29	20	16
84	+1250	0.11	5	9	18	40	41	38	25	19
	+750	0.04	6	9	18	41	42	38	25	19
	0	0	6	9	19	41	43	38	25	19
	-750	0.04	6	10	20	42	43	38	25	19
	-1250	0.11	6	10	20	43	44	38	24	18
108	+1250	0.14	7	11	22	50	49	47	30	22
	+750	0.05	7	11	22	50	49	47	29	22
	0	0	7	11	23	51	51	47	29	21
	-750	0.05	8	12	25	53	52	47	29	21
	-1250	0.14	8	12	25	53	52	47	29	21

Generated Noise (GN)

Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	45	31	23	34	35	31	26	22
	+750	31	20	15	21	26	18	10	10
	0	25	20	15	15	10	10	10	10
	-750	25	20	15	23	30	23	18	10
	-1250	48	25	29	40	44	46	46	38

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

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3. "-" indicates performance data for reverse flow (return) applications.
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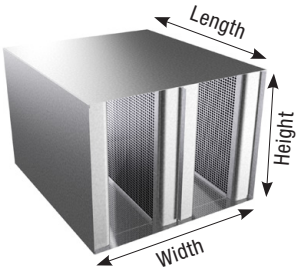
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: M
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.66	4	7	14	28	35	38	26	20
	+750	0.24	4	8	15	29	36	38	26	19
	0	0	4	8	16	30	38	38	26	19
	-750	0.24	5	9	18	32	40	38	26	18
	-1250	0.66	5	10	19	33	41	38	25	18
60	+1250	0.65	7	12	20	42	49	50	35	24
	+750	0.23	8	12	22	44	50	50	35	24
	0	0	9	13	23	45	52	50	34	22
	-750	0.23	9	15	26	47	55	50	34	21
	-1250	0.65	10	15	27	49	55	50	34	21
84	+1250	0.65	11	17	25	47	50	53	45	31
	+750	0.23	12	18	27	48	52	53	45	30
	0	0	13	20	29	50	54	53	44	28
	-750	0.23	14	22	32	53	55	53	43	27
	-1250	0.65	15	23	34	54	55	53	43	26
108	+1250	0.85	15	23	31	51	51	55	55	37
	+750	0.31	16	24	32	53	53	55	54	36
	0	0	17	26	35	55	55	55	53	34
	-750	0.31	18	29	39	55	55	55	53	33
	-1250	0.85	19	30	41	55	55	55	52	31

Generated Noise (GN)

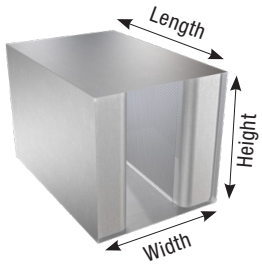
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	65	55	51	51	48	49	50	46
	+750	50	38	30	38	38	36	32	28
	0	25	20	15	15	10	10	10	10
	-750	44	21	24	37	41	41	41	32
	-1250	59	36	39	47	50	55	58	51

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: M
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.1	3	5	9	18	14	11	9	7
	+750	0.04	3	5	9	18	14	11	9	7
	0	0	3	5	10	18	14	11	9	7
	-750	0.04	4	6	10	19	15	11	9	7
	-1250	0.1	4	6	10	19	15	11	9	7
60	+1250	0.1	5	7	14	27	22	15	11	9
	+750	0.04	5	8	14	27	23	15	11	9
	0	0	5	8	15	27	23	15	11	9
	-750	0.04	5	8	16	28	23	15	11	9
	-1250	0.1	5	9	16	28	24	15	11	9
84	+1250	0.1	6	10	19	35	30	19	13	11
	+750	0.04	6	10	20	36	31	19	13	11
	0	0	6	10	20	36	31	19	12	10
	-750	0.04	7	11	21	37	32	19	12	10
	-1250	0.1	7	11	22	38	33	19	12	10
108	+1250	0.12	8	13	23	45	33	23	16	13
	+750	0.04	8	13	24	45	34	23	16	13
	0	0	8	13	25	46	35	23	15	12
	-750	0.04	9	14	26	48	35	23	15	12
	-1250	0.12	9	14	27	48	36	23	15	12

Generated Noise (GN)

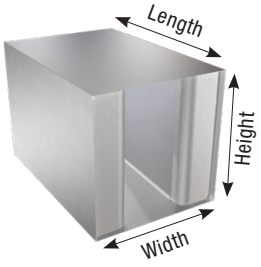
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	45	31	23	34	35	31	26	22
	+750	31	20	15	21	26	18	10	10
	0	25	20	15	15	10	10	10	10
	-750	25	20	15	23	30	23	18	10
	-1250	38	20	19	33	38	37	35	26

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: M
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	+1250	0.51	5	9	15	28	24	21	17	13
	+750	0.18	5	9	16	29	25	21	17	12
36	0	0	5	10	18	30	26	21	16	12
	-750	0.18	6	11	19	32	27	21	16	12
	-1250	0.51	6	11	20	33	28	21	16	11
	+1250	0.66	7	14	25	43	41	34	21	16
	+750	0.24	8	15	26	44	43	34	20	15
60	0	0	8	16	28	46	45	34	20	15
	-750	0.24	9	18	31	49	47	34	20	14
	-1250	0.66	10	19	33	50	48	34	20	14
	+1250	0.66	11	19	32	47	46	43	25	18
	+750	0.24	11	21	34	49	48	43	25	17
84	0	0	12	23	37	51	50	43	25	17
	-750	0.24	14	25	40	53	52	43	24	16
	-1250	0.66	14	26	42	55	54	43	24	15
	+1250	0.79	15	25	39	51	51	52	30	20
	+750	0.28	16	26	41	53	53	52	29	19
108	0	0	17	29	45	55	55	52	29	18
	-750	0.28	19	31	49	55	55	52	28	17
	-1250	0.79	20	33	52	55	55	52	28	16

Generated Noise (GN)

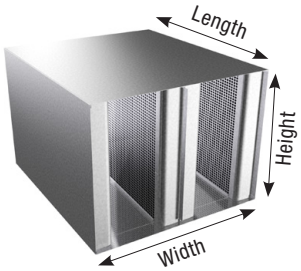
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	+1250	65	55	51	51	48	49	50	46
	+750	50	38	30	38	38	36	32	28
All Lengths	0	25	20	15	15	10	10	10	10
	-750	44	21	24	37	41	41	41	32
	-1250	59	36	39	47	50	55	58	51

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: H
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.17	2	3	8	17	22	20	14	12
	+1000	0.04	3	3	8	17	22	20	14	12
	0	0	3	3	8	17	23	20	14	12
	-1000	0.04	3	4	9	18	23	20	14	12
	-2000	0.17	3	4	9	18	24	20	14	11
60	+2000	0.18	4	5	11	24	31	25	16	13
	+1000	0.05	4	5	11	24	32	25	16	13
	0	0	4	5	11	25	32	25	16	13
	-1000	0.05	4	6	12	25	33	25	16	12
	-2000	0.18	5	6	12	26	33	25	16	12
84	+2000	0.2	6	7	13	31	40	30	19	14
	+1000	0.05	6	7	14	32	41	30	19	14
	0	0	6	7	14	32	42	30	19	14
	-1000	0.05	6	8	15	33	42	30	19	13
	-2000	0.2	6	8	16	33	43	30	18	13
108	+2000	0.22	7	9	16	38	49	35	21	15
	+1000	0.05	7	9	17	39	50	35	21	15
	0	0	8	9	17	39	51	35	21	14
	-1000	0.05	8	10	18	40	52	35	21	14
	-2000	0.22	8	10	19	41	53	35	21	14

Generated Noise (GN)

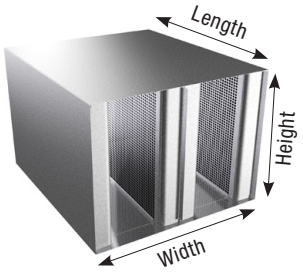
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	50	36	32	31	38	38	38	34
	+1000	30	20	15	15	25	21	17	14
	0	25	20	15	15	10	10	10	10
	-1000	34	20	15	15	27	31	29	25
	-2000	51	37	33	36	43	47	48	44

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: H
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.68	4	7	12	26	30	29	22	17
	+1000	0.17	4	7	13	27	31	29	22	17
	0	0	4	7	13	27	31	29	22	16
	-1000	0.17	5	8	14	28	32	29	22	16
	-2000	0.68	5	8	15	29	33	29	22	16
60	+2000	0.69	6	10	19	37	45	40	31	21
	+1000	0.17	6	10	20	38	46	40	31	20
	0	0	6	10	20	38	47	40	30	20
	-1000	0.17	7	11	21	39	49	40	30	20
	-2000	0.69	7	11	22	40	50	40	30	19
84	+2000	0.82	7	12	24	47	49	48	36	25
	+1000	0.2	8	12	25	48	50	48	36	24
	0	0	8	13	26	49	51	48	35	24
	-1000	0.2	8	14	27	51	53	48	35	23
	-2000	0.82	9	14	28	52	54	48	35	23
108	+2000	0.89	9	14	29	53	53	55	41	29
	+1000	0.22	9	15	30	54	54	55	41	28
	0	0	10	15	31	55	55	55	40	27
	-1000	0.22	10	16	33	55	55	55	40	27
	-2000	0.89	11	17	34	55	55	55	40	26

Generated Noise (GN)

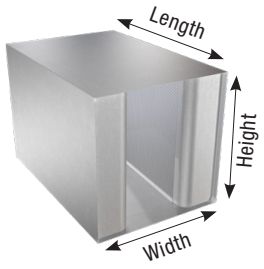
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	69	58	56	52	50	55	58	54
	+1000	50	36	32	31	38	38	38	34
	0	25	20	15	15	10	10	10	10
	-1000	51	37	33	36	43	47	48	44
	-2000	69	58	58	58	59	63	68	62

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: H
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.16	2	4	8	15	12	9	8	6
	+1000	0.04	2	4	8	15	12	9	8	6
	0	0	2	4	8	15	12	9	7	5
	-1000	0.04	3	5	9	16	13	9	7	5
	-2000	0.16	3	5	9	16	13	9	7	5
60	+2000	0.17	4	6	11	22	17	12	9	7
	+1000	0.04	4	6	12	22	17	12	9	7
	0	0	4	6	12	23	17	12	9	7
	-1000	0.04	4	7	13	23	18	12	9	6
	-2000	0.17	4	7	13	24	18	12	9	6
84	+2000	0.17	5	8	15	29	21	15	10	8
	+1000	0.04	6	8	16	30	22	15	10	8
	0	0	6	8	16	30	22	15	10	8
	-1000	0.04	6	9	17	31	23	15	10	8
	-2000	0.17	6	9	18	31	23	15	10	7
108	+2000	0.18	7	10	19	36	26	17	12	9
	+1000	0.04	7	10	20	37	27	17	12	9
	0	0	7	10	20	37	27	17	12	9
	-1000	0.04	8	11	21	38	28	17	12	9
	-2000	0.18	8	11	22	39	28	17	12	8

Generated Noise (GN)

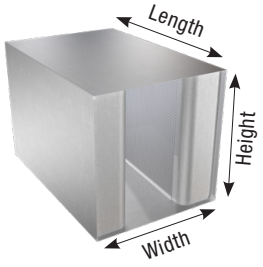
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	50	36	32	31	38	38	38	34
	+1000	30	20	15	15	25	21	17	14
	0	25	20	15	15	10	10	10	10
	-1000	34	20	15	15	27	31	29	25
	-2000	51	37	33	36	43	47	48	44

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: H
Options: None

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.8	4	7	15	23	21	17	15	13
	+1000	0.2	5	8	15	24	22	17	15	13
	0	0	5	8	16	24	22	17	15	13
	-1000	0.2	5	8	17	25	23	17	15	13
	-2000	0.8	5	9	17	26	24	17	15	12
60	+2000	0.79	6	12	22	33	33	25	18	14
	+1000	0.2	6	12	23	34	34	25	18	14
	0	0	7	13	24	35	34	25	18	14
	-1000	0.2	7	13	25	36	35	25	18	13
	-2000	0.79	7	14	26	36	36	25	18	13
84	+2000	0.79	8	16	29	43	42	33	21	15
	+1000	0.2	8	17	30	44	43	33	21	15
	0	0	9	18	32	45	44	33	20	14
	-1000	0.2	9	19	33	46	46	33	20	14
	-2000	0.79	9	19	34	47	47	33	20	14
108	+2000	0.77	10	21	36	53	53	41	23	16
	+1000	0.19	10	22	38	54	54	41	23	16
	0	0	10	23	39	55	55	41	23	15
	-1000	0.19	11	24	41	55	55	41	23	15
	-2000	0.77	11	25	43	55	55	41	23	14

Generated Noise (GN)

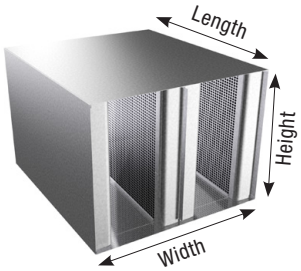
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	69	58	56	52	50	55	58	54
	+1000	50	36	32	31	38	38	38	34
	0	25	20	15	15	10	10	10	10
	-1000	51	37	33	36	43	47	48	44
	-2000	69	58	58	58	59	63	68	62

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: L
Options: Film lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.06	4	5	8	16	24	24	18	13
	+500	0.03	4	5	9	16	24	24	18	12
	0	0	4	5	9	16	24	24	17	12
	-500	0.03	4	5	9	16	25	24	17	12
	-750	0.06	4	5	9	16	25	24	17	12
60	+750	0.07	5	7	13	23	36	39	23	16
	+500	0.03	5	7	13	23	36	39	23	16
	0	0	5	8	13	24	37	39	22	16
	-500	0.03	5	8	14	24	37	39	22	16
	-750	0.07	5	8	14	24	38	39	22	16
84	+750	0.07	7	10	16	30	40	46	27	18
	+500	0.03	7	10	16	30	40	46	27	18
	0	0	7	10	17	31	41	46	27	18
	-500	0.03	7	11	17	31	41	46	27	18
	-750	0.07	7	11	17	31	42	46	27	18
108	+750	0.08	9	13	19	37	44	53	32	20
	+500	0.04	9	13	19	37	44	53	32	20
	0	0	9	13	20	38	45	53	31	20
	-500	0.04	10	13	21	38	45	53	31	20
	-750	0.08	10	14	21	38	46	53	31	20

Generated Noise (GN)

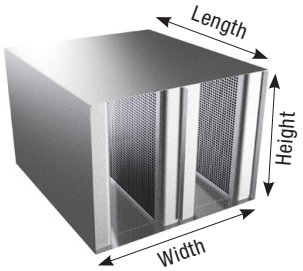
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	37	20	22	30	30	25	16	10
	+500	28	20	15	23	22	15	10	10
	0	25	20	15	15	10	10	10	10
	-500	25	20	24	31	27	22	10	10
	-750	33	26	30	35	33	31	21	14

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: L
Options: Film lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.38	7	10	15	27	35	42	29	17
	+500	0.17	7	11	16	28	36	42	29	17
	0	0	7	11	16	28	37	42	28	17
	-500	0.17	8	12	17	29	38	42	28	16
	-750	0.38	8	12	18	30	39	42	28	16
60	+750	0.42	9	15	23	35	45	55	47	27
	+500	0.19	9	16	24	36	46	55	47	27
	0	0	9	17	25	37	47	55	46	26
	-500	0.19	10	18	27	38	49	55	46	25
	-750	0.42	10	18	27	39	49	55	46	25
84	+750	0.44	13	19	26	37	45	55	52	32
	+500	0.2	13	20	27	38	46	55	51	31
	0	0	14	21	29	39	47	55	51	31
	-500	0.2	15	22	30	40	49	55	51	30
	-750	0.44	15	23	31	41	49	55	50	30
108	+750	0.5	17	24	29	37	45	55	55	36
	+500	0.22	17	24	30	38	46	55	55	36
	0	0	19	26	32	39	47	55	55	35
	-500	0.22	20	27	34	40	49	55	55	35
	-750	0.5	20	28	35	41	49	55	55	34

Generated Noise (GN)

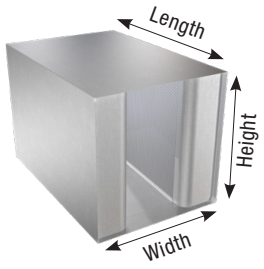
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	54	38	39	43	43	43	39	32
	+500	44	24	29	35	35	33	25	18
	0	25	20	15	15	10	10	10	10
	-500	39	31	34	38	37	37	30	23
	-750	47	39	41	43	43	45	42	35

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: L
Options: Film lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.06	5	6	8	14	12	13	10	8
	+500	0.02	5	6	9	14	12	13	10	8
	0	0	5	6	9	14	12	13	9	8
	-500	0.02	5	6	9	14	13	13	9	8
	-750	0.06	5	6	9	14	13	13	9	8
60	+750	0.06	6	8	13	20	20	18	12	9
	+500	0.03	7	8	13	20	20	18	12	9
	0	0	7	9	13	20	20	18	12	9
	-500	0.03	7	9	14	20	21	18	12	9
	-750	0.06	7	9	14	21	21	18	12	9
84	+750	0.06	8	11	17	26	28	24	14	10
	+500	0.03	8	11	17	26	28	24	14	10
	0	0	9	11	18	26	29	24	14	10
	-500	0.03	9	12	18	27	29	24	14	10
	-750	0.06	9	12	18	27	29	24	14	10
108	+750	0.06	10	13	21	32	31	27	17	11
	+500	0.03	10	14	21	32	31	27	17	11
	0	0	10	14	22	33	32	27	16	11
	-500	0.03	11	14	23	33	32	27	16	11
	-750	0.06	11	15	23	33	33	27	16	11

Generated Noise (GN)

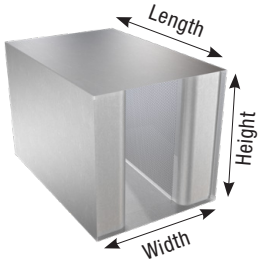
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	37	20	22	30	30	25	16	10
	+500	28	20	15	23	22	15	10	10
	0	25	20	15	15	10	10	10	10
	-500	25	20	24	31	27	22	10	10
	-750	33	26	30	35	33	31	21	14

Generated Noise Corrections

Silencer Face Area (ft^2)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: L
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+750	0.32	6	10	14	21	24	25	19	12
	+500	0.14	7	10	15	21	24	25	19	12
	0	0	7	10	16	21	25	25	18	12
	-500	0.14	7	11	17	22	25	25	18	11
	-750	0.32	8	11	17	22	26	25	18	11
60	+750	0.35	10	15	21	31	37	42	23	13
	+500	0.15	11	16	22	32	38	42	22	13
	0	0	11	17	23	33	39	42	22	13
	-500	0.15	12	18	24	34	40	42	22	13
	-750	0.35	12	18	25	34	40	42	22	12
84	+750	0.38	15	20	28	35	41	50	27	16
	+500	0.17	15	21	29	35	42	50	27	16
	0	0	16	22	30	36	43	50	26	15
	-500	0.17	17	23	32	37	44	50	26	15
	-750	0.38	18	24	33	38	45	50	26	15
108	+750	0.4	19	25	35	37	45	55	31	18
	+500	0.18	20	26	36	38	46	55	31	18
	0	0	21	27	38	39	47	55	30	17
	-500	0.18	22	29	40	40	49	55	30	17
	-750	0.4	23	30	41	41	49	55	30	17

Generated Noise (GN)

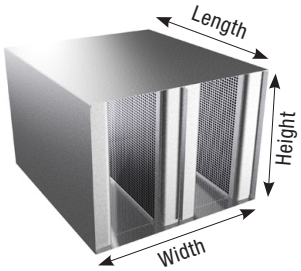
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+750	54	38	39	43	43	43	39	32
	+500	44	24	29	35	35	33	25	18
	0	25	20	15	15	10	10	10	10
	-500	39	31	34	38	37	37	30	23
	-750	47	39	41	43	43	45	42	35

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: M
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.1	3	4	7	15	22	22	15	12
	+750	0.04	3	4	7	15	22	22	15	12
	0	0	3	4	7	15	23	22	15	12
	-750	0.04	3	4	8	16	23	22	15	12
	-1250	0.1	3	4	8	16	23	22	15	12
60	+1250	0.11	4	6	10	21	28	32	20	14
	+750	0.04	4	6	10	22	29	32	20	14
	0	0	5	6	11	22	29	32	20	14
	-750	0.04	5	6	11	23	30	32	20	14
	-1250	0.11	5	7	12	23	30	32	20	14
84	+1250	0.11	6	8	13	28	35	42	25	16
	+750	0.04	6	8	14	29	35	42	25	16
	0	0	6	8	14	29	36	42	25	16
	-750	0.04	7	9	15	30	37	42	25	16
	-1250	0.11	7	9	15	30	38	42	24	16
108	+1250	0.14	8	10	17	35	41	51	30	19
	+750	0.05	8	10	17	35	42	51	29	18
	0	0	8	10	18	36	43	51	29	18
	-750	0.05	9	11	19	37	44	51	29	18
	-1250	0.14	9	11	19	38	45	51	29	18

Generated Noise (GN)

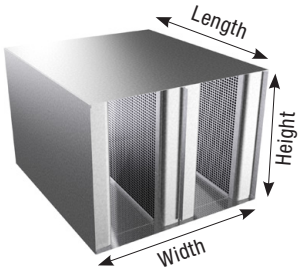
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	45	31	23	34	35	31	26	22
	+750	31	20	15	21	26	18	10	10
	0	25	20	15	15	10	10	10	10
	-750	25	20	15	23	30	23	18	10
	-1250	38	20	19	33	38	37	35	26

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: M
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.66	4	7	11	20	30	41	26	17
	+750	0.24	5	7	11	21	31	41	26	16
	0	0	5	8	12	21	32	41	26	16
	-750	0.24	5	8	13	22	34	41	26	15
	-1250	0.66	6	9	14	23	35	41	25	15
60	+1250	0.65	8	11	15	30	41	55	35	21
	+750	0.23	9	11	16	31	43	55	35	20
	0	0	9	12	18	32	45	55	34	19
	-750	0.23	10	13	19	33	47	55	34	18
	-1250	0.65	11	14	20	34	48	55	34	18
84	+1250	0.65	12	16	19	33	43	55	45	26
	+750	0.23	13	17	20	34	44	55	45	25
	0	0	14	18	22	35	46	55	44	24
	-750	0.23	15	20	24	37	48	55	43	23
	-1250	0.65	16	21	26	38	49	55	43	22
108	+1250	0.85	16	21	23	36	44	55	55	32
	+750	0.31	17	22	24	37	45	55	54	31
	0	0	19	24	27	39	47	55	53	29
	-750	0.31	20	26	29	41	49	55	53	28
	-1250	0.85	21	27	31	42	51	55	52	27

Generated Noise (GN)

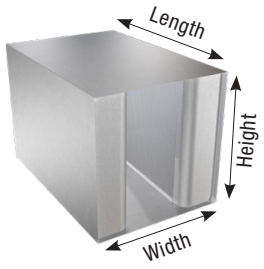
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	65	55	51	51	48	49	50	46
	+750	50	38	30	38	38	36	32	28
	0	25	20	15	15	10	10	10	10
	-750	44	21	24	37	41	41	41	32
	-1250	59	36	39	47	50	55	58	51

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: M
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.1	4	5	7	13	12	13	9	6
	+750	0.04	4	5	7	13	12	13	9	6
	0	0	4	5	7	13	12	13	9	6
	-750	0.04	4	5	8	13	13	13	9	6
	-1250	0.1	4	5	8	14	13	13	9	6
60	+1250	0.1	5	7	11	19	19	17	11	8
	+750	0.04	5	7	11	19	19	17	11	8
	0	0	5	7	11	19	20	17	11	8
	-750	0.04	6	8	12	20	20	17	11	7
	-1250	0.1	6	8	12	20	20	17	11	7
84	+1250	0.1	7	9	14	25	26	21	13	9
	+750	0.04	7	9	15	25	26	21	13	9
	0	0	7	9	15	26	27	21	12	9
	-750	0.04	7	10	16	26	27	21	12	9
	-1250	0.1	8	10	17	27	28	21	12	9
108	+1250	0.12	9	11	17	32	28	26	16	11
	+750	0.04	9	12	18	32	29	26	16	11
	0	0	9	12	19	33	30	26	15	11
	-750	0.04	10	13	20	33	30	26	15	11
	-1250	0.12	10	13	20	34	31	26	15	11

Generated Noise (GN)

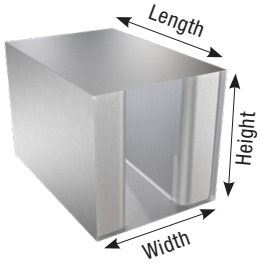
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	45	31	23	34	35	31	26	22
	+750	31	20	15	21	26	18	10	10
	0	25	20	15	15	10	10	10	10
	-750	25	20	15	23	30	23	18	10
	-1250	38	20	19	33	38	37	35	26

Generated Noise Corrections

Silencer Face Area (ft^2)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: M
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+1250	0.51	5	8	12	20	21	23	17	11
	+750	0.18	5	8	12	21	21	23	17	11
	0	0	6	9	13	21	22	23	16	10
	-750	0.18	6	10	15	22	23	23	16	10
	-1250	0.51	7	10	15	23	24	23	16	10
60	+1250	0.66	8	13	19	30	35	37	21	13
	+750	0.24	9	14	20	31	36	37	20	13
	0	0	9	15	21	33	38	37	20	13
	-750	0.24	10	16	23	34	40	37	20	12
	-1250	0.66	11	17	25	35	41	37	20	12
84	+1250	0.66	12	18	24	33	39	47	25	15
	+750	0.24	13	19	25	34	41	47	25	15
	0	0	14	20	28	36	43	47	25	14
	-750	0.24	15	22	30	37	44	47	24	13
	-1250	0.66	16	23	32	38	46	47	24	13
108	+1250	0.79	17	22	29	36	44	55	30	17
	+750	0.28	18	24	31	37	45	55	29	16
	0	0	19	26	34	39	47	55	29	15
	-750	0.28	21	28	37	41	49	55	28	15
	-1250	0.79	22	30	39	42	51	55	28	14

Generated Noise (GN)

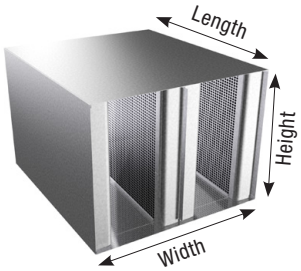
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	65	55	51	51	48	49	50	46
	+750	50	38	30	38	38	36	32	28
	0	25	20	15	15	10	10	10	10
	-750	44	21	24	37	41	41	41	32
	-1250	59	36	39	47	50	55	58	51

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 2
Geometry: H
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.17	3	3	6	12	19	22	14	10
	+1000	0.04	3	3	6	12	19	22	14	10
	0	0	3	3	6	12	20	22	14	10
	-1000	0.04	3	3	7	13	20	22	14	10
	-2000	0.17	3	3	7	13	20	22	14	10
60	+2000	0.18	4	5	8	17	26	28	16	11
	+1000	0.05	5	5	8	17	27	28	16	11
	0	0	5	5	9	18	27	28	16	11
	-1000	0.05	5	5	9	18	28	28	16	11
	-2000	0.18	5	5	9	18	28	28	16	11
84	+2000	0.2	6	6	10	22	34	33	19	12
	+1000	0.05	6	7	11	22	35	33	19	12
	0	0	7	7	11	23	35	33	19	12
	-1000	0.05	7	7	11	23	36	33	19	11
	-2000	0.2	7	7	12	24	37	33	18	11
108	+2000	0.22	8	8	12	27	42	39	21	13
	+1000	0.05	8	8	13	27	42	39	21	13
	0	0	8	9	13	28	43	39	21	12
	-1000	0.05	9	9	14	28	44	39	21	12
	-2000	0.22	9	9	14	29	45	39	21	12

Generated Noise (GN)

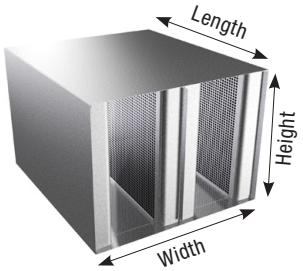
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	50	36	32	31	38	38	38	34
	+1000	30	20	15	15	25	21	17	14
	0	25	20	15	15	10	10	10	10
	-1000	34	20	15	15	27	31	29	25
	-2000	51	37	33	36	43	47	48	44

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 2
Geometry: H
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.68	5	6	9	19	26	32	22	14
	+1000	0.17	5	7	10	19	26	32	22	14
	0	0	5	7	10	19	27	32	22	14
	-1000	0.17	5	7	11	20	27	32	22	14
	-2000	0.68	5	7	11	20	28	32	22	13
60	+2000	0.69	6	9	14	26	39	44	31	18
	+1000	0.17	7	9	15	26	40	44	31	17
	0	0	7	9	15	27	40	44	30	17
	-1000	0.17	7	10	16	28	41	44	30	17
	-2000	0.69	7	10	17	28	42	44	30	16
84	+2000	0.82	8	11	18	33	42	53	36	21
	+1000	0.2	8	11	19	34	43	53	36	21
	0	0	9	12	20	35	44	53	35	20
	-1000	0.2	9	12	21	36	45	53	35	20
	-2000	0.82	10	13	21	36	46	53	35	19
108	+2000	0.89	10	13	22	37	45	55	41	24
	+1000	0.22	10	13	23	38	46	55	41	24
	0	0	11	14	24	39	47	55	40	23
	-1000	0.22	11	15	25	40	48	55	40	23
	-2000	0.89	12	15	26	41	49	55	40	22

Generated Noise (GN)

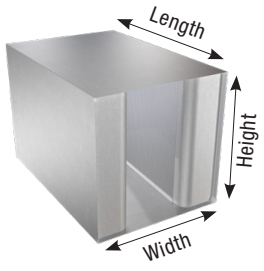
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	69	58	56	52	50	55	58	54
	+1000	50	36	32	31	38	38	38	34
	0	25	20	15	15	10	10	10	10
	-1000	51	37	33	36	43	47	48	44
	-2000	69	58	58	58	59	63	68	62

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: B
Modules: 1
Geometry: H
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.16	3	4	6	11	10	10	8	5
	+1000	0.04	3	4	6	11	10	10	8	5
	0	0	3	4	6	11	11	10	7	5
	-1000	0.04	3	4	7	11	11	10	7	5
	-2000	0.16	3	4	7	11	11	10	7	5
60	+2000	0.17	4	5	9	16	14	13	9	6
	+1000	0.04	4	6	9	16	15	13	9	6
	0	0	5	6	9	16	15	13	9	6
	-1000	0.04	5	6	10	16	15	13	9	6
	-2000	0.17	5	6	10	17	15	13	9	5
84	+2000	0.17	6	7	12	20	18	16	10	7
	+1000	0.04	6	7	12	21	19	16	10	7
	0	0	6	8	12	21	19	16	10	7
	-1000	0.04	7	8	13	22	19	16	10	6
	-2000	0.17	7	8	13	22	20	16	10	6
108	+2000	0.18	8	9	14	25	22	19	12	8
	+1000	0.04	8	9	15	26	23	19	12	8
	0	0	8	9	15	26	23	19	12	7
	-1000	0.04	8	10	16	27	24	19	12	7
	-2000	0.18	9	10	17	27	24	19	12	7

Generated Noise (GN)

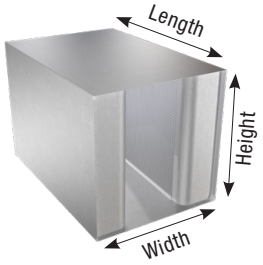
Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	50	36	32	31	38	38	38	34
	+1000	30	20	15	15	25	21	17	14
	0	25	20	15	15	10	10	10	10
	-1000	34	20	15	15	27	31	29	25
	-2000	51	37	33	36	43	47	48	44

Generated Noise Corrections

Silencer Face Area (ft^2)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.



PERFORMANCE DATA

Width (in.): 24
Pressure Attenuation (PA) Code: F
Modules: 1
Geometry: H
Options: Film Lined

Dynamic Insertion Loss (DIL)

Length (in.)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Dynamic Insertion Loss (dB)							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	+2000	0.8	5	7	11	17	18	19	15	11
	+1000	0.2	5	7	12	17	19	19	15	11
	0	0	5	7	12	17	19	19	15	11
	-1000	0.2	6	8	13	18	20	19	15	11
	-2000	0.8	6	8	13	18	20	19	15	11
60	+2000	0.79	7	11	16	23	28	28	18	12
	+1000	0.2	7	11	17	24	29	28	18	12
	0	0	7	12	18	25	29	28	18	12
	-1000	0.2	8	12	19	25	30	28	18	11
	-2000	0.79	8	13	20	26	31	28	18	11
84	+2000	0.79	9	15	22	30	36	36	21	13
	+1000	0.2	9	15	23	31	37	36	21	13
	0	0	9	16	24	32	38	36	20	12
	-1000	0.2	10	17	25	32	39	36	20	12
	-2000	0.79	10	17	26	33	40	36	20	12
108	+2000	0.77	10	19	27	37	45	45	23	14
	+1000	0.19	11	19	28	38	46	45	23	13
	0	0	11	20	30	39	47	45	23	13
	-1000	0.19	12	21	31	40	48	45	23	13
	-2000	0.77	12	22	32	41	49	45	23	12

Generated Noise (GN)

Length (in.)	Face Velocity (fpm)	Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+2000	69	58	56	52	50	55	58	54
	+1000	50	36	32	31	38	38	38	34
	0	25	20	15	15	10	10	10	10
	-1000	51	37	33	36	43	47	48	44
	-2000	69	58	58	58	59	63	68	62

Generated Noise Corrections

Silencer Face Area (ft²)	0.5	1	2	4	8	16	32	64	128
dB Addition or Reduction	-9	-6	-3	0	+3	+6	+9	+12	+15

Performance Notes:

1. Data tables are derived from test data in conformance with ASTM E477-20.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. The performance data above is based on a 24 x 24 component.

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