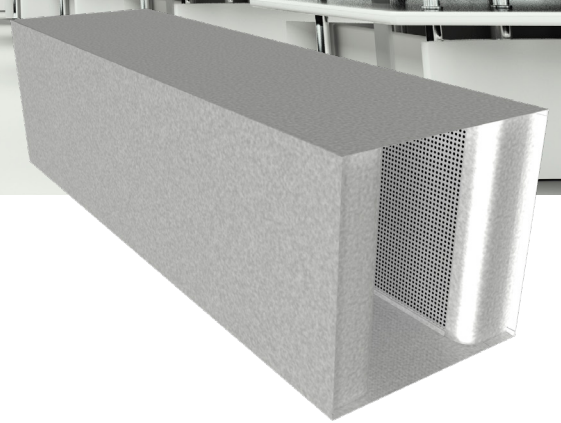


RSP

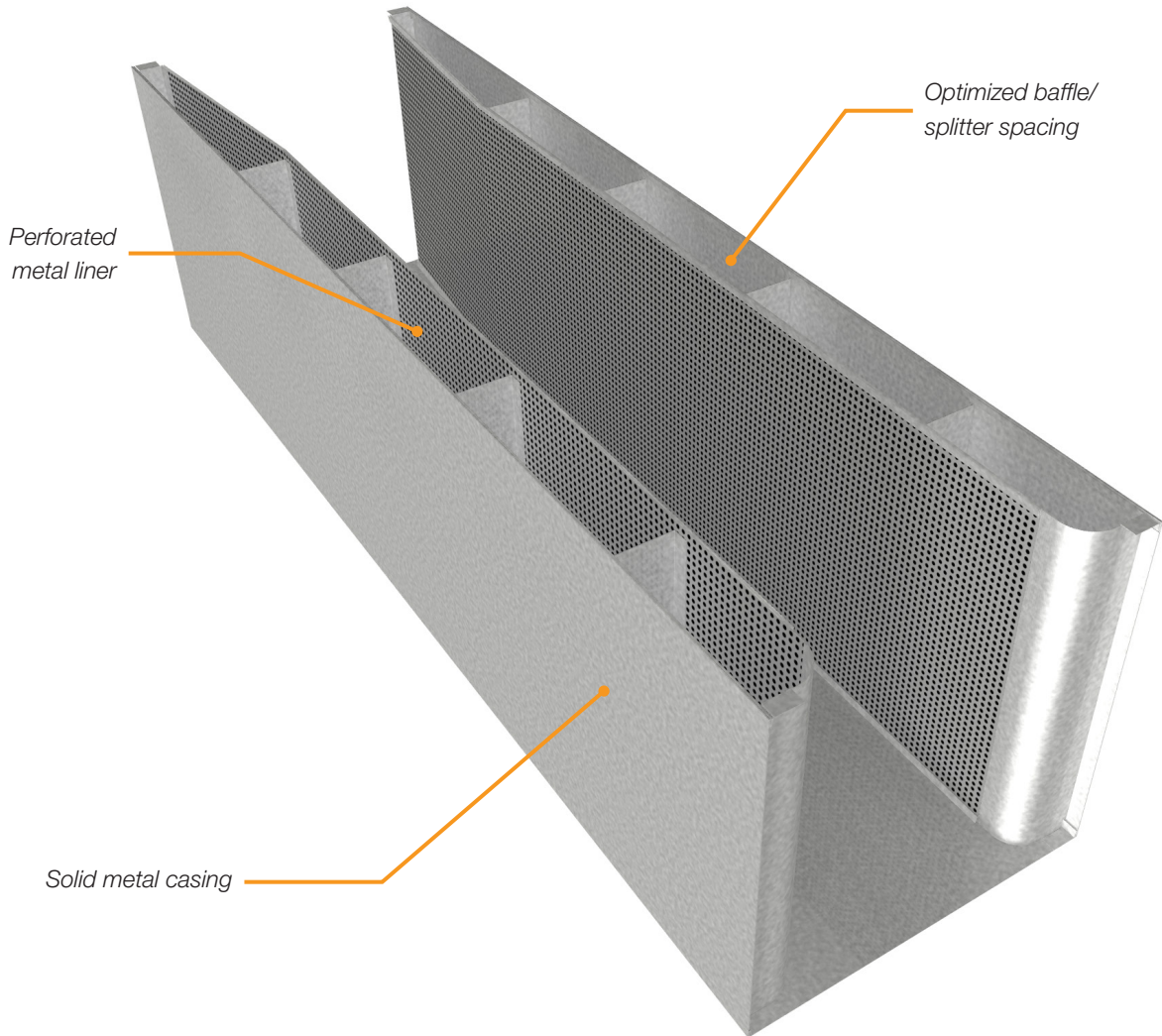
RECTANGULAR SILENCER PACKLESS



RSP

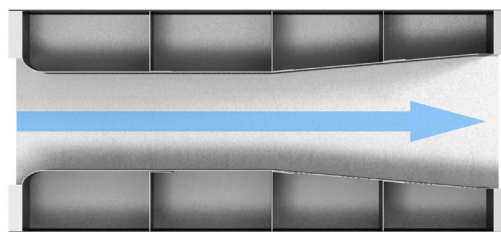
Rectangular Silencer Packless

Designed to provide solutions for noise control applications where fibrous acoustic material is not permitted in the air stream RSP packless silencers are designed to provide maximum attenuation without the use of acoustic media.

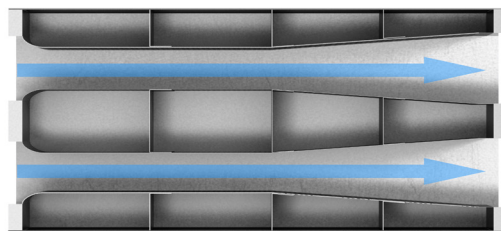


IDEAL FOR HEALTH CARE AND LABORATORIES

- + RSP silencers do not contain any acoustic media and consist of a solid metal casing and perforated metal liner.
- + The media free, optional stainless steel construction is safe for use in applications where corrosive gasses are present.
- + Lack of fibrous acoustic media eliminates the possibility of fibers entering the airstream and makes sanitation easy by eliminating absorptive material.



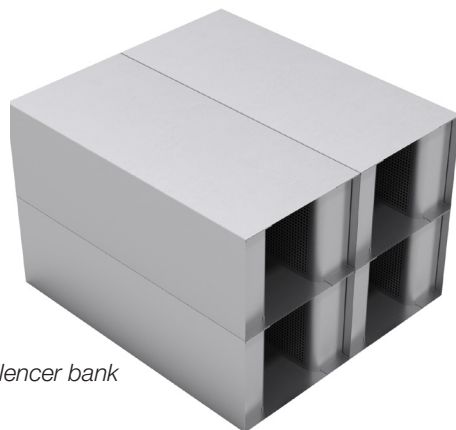
1-module airflow



2-module airflow

DESIGN FLEXIBILITY

- + Multiple module configurations are available to optimize silencer performance.
- + Silencers that exceed a width or height of 48 in. will be built in multiple components, then field assembled (by others) into a bank that matches the duct dimensions.



RSP silencer bank

TYPICAL APPLICATIONS

The RSP is an ideal solution for undesirable noise in applications wherein fibrous acoustic media is not permitted, such as wash-down and high-pollutant areas, including food processing plants, laboratory fume hood systems, hospitals, clean rooms, and kitchen exhausts.

CONSTRUCTION OPTIONS

- + Construction Type
 - 22 gauge
 - 18 gauge
 - 16 gauge
 - 10 gauge
- + Material
 - Galvanized Steel
 - Aluminum
 - 304 Stainless Steel
 - 316 Stainless Steel
 - Galvanneal
- + Accessories
 - Flanges
 - Slip & drive connections
 - Access doors
 - Transitions
 - Drainage plugs

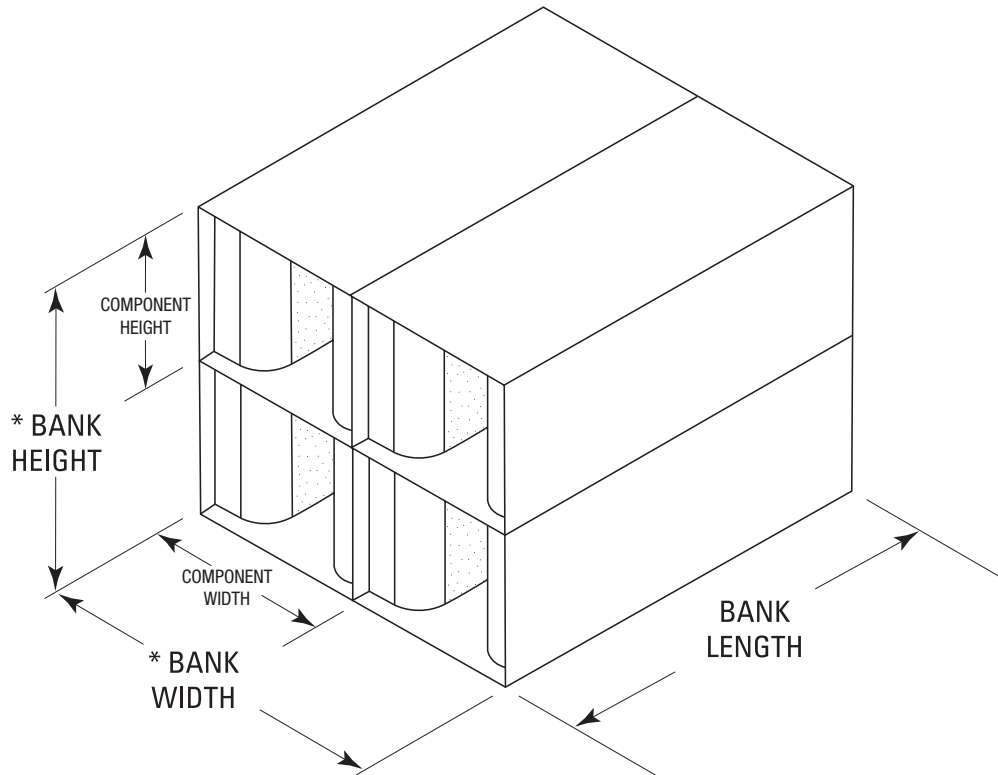
OPTIMIZED SOUND PERFORMANCE

- + The RSP internal geometry is engineered to minimize turbulence, maximize attenuation, and limit added pressure drop.
- + Ideal for medium velocity applications, the RSP provides high levels of insertion loss across the targeted range of frequencies, and the tapered tail baffle arrangement allows for static regain to minimize the pressure drop.



DIMENSIONAL DATA

RSP packless rectangular silencers are built to match the duct dimensions, therefore the width, height and length dimensions for the silencer must always be specified.

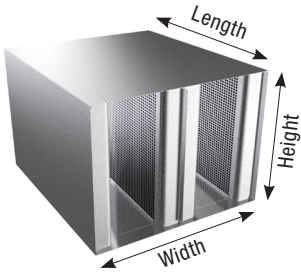


*Bank width & height typically equal the duct dimensions.

Standard Dimension Limits

Bank Width		Bank Height		Length		Component Width		Component Height	
Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6	450	6	450	24	120	6	45	6	45

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

Percentage Free Area: 50

Modules: 2

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	80	+1250	0.1	2	2	4	11	12	8	6	4
		+750	0.04	3	2	4	10	11	8	7	4
		0	0	3	2	4	11	12	8	7	4
		-750	0.04	3	3	4	11	12	8	7	4
		-1250	0.1	4	4	5	12	12	8	7	4
60	133	+1250	0.11	5	4	6	14	16	10	8	4
		+750	0.04	5	4	5	13	15	9	8	4
		0	0	5	4	5	13	15	10	8	4
		-750	0.04	5	5	6	13	15	10	8	3
		-1250	0.11	6	6	7	15	16	11	8	3
84	187	+1250	0.14	6	6	8	16	16	9	8	7
		+750	0.06	6	5	7	14	16	9	7	7
		0	0	6	4	6	14	15	9	7	7
		-750	0.06	7	5	7	14	16	9	7	7
		-1250	0.14	8	6	8	16	16	9	8	7
108	240	+1250	0.18	10	6	9	17	20	11	9	8
		+750	0.06	10	5	7	16	19	11	9	8
		0	0	10	4	6	16	19	11	9	7
		-750	0.06	10	5	8	17	20	12	9	6
		-1250	0.18	12	7	11	19	22	12	9	7

Generated Noise(GN)

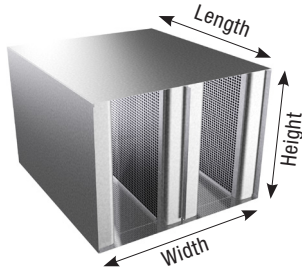
Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	44	32	30	35	45	47	40	30
	+750	30	25	20	24	38	37	22	10
	0	30	25	20	15	10	10	10	10
	-750	34	25	29	39	42	43	29	10
	-1250	44	25	36	44	48	51	45	29

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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

Percentage Free Area: 37.5

Modules: 2

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	82	+1250	0.2	3	3	7	14	16	9	7	8
		+750	0.07	3	3	7	14	14	8	7	8
		0	0	3	3	6	13	13	8	7	7
		-750	0.07	4	5	8	14	14	8	7	8
		-1250	0.2	5	5	9	15	16	8	7	8
60	137	+1250	0.23	5	5	10	17	19	11	9	8
		+750	0.08	5	5	9	16	16	11	9	8
		0	0	5	5	8	16	16	11	10	7
		-750	0.08	7	7	11	18	17	11	9	6
		-1250	0.23	8	8	13	20	20	12	9	6
84	191	+1250	0.26	8	7	13	20	22	13	11	13
		+750	0.1	9	7	12	19	19	12	11	13
		0	0	8	6	10	18	19	13	13	14
		-750	0.1	11	9	14	21	21	14	12	13
		-1250	0.26	12	11	17	23	25	14	12	13
108	246	+1250	0.29	10	8	16	22	25	13	10	8
		+750	0.11	10	7	13	19	21	12	9	7
		0	0	9	5	10	18	20	12	9	6
		-750	0.11	11	8	14	21	22	14	10	7
		-1250	0.29	14	11	19	23	24	14	9	5

Generated Noise(GN)

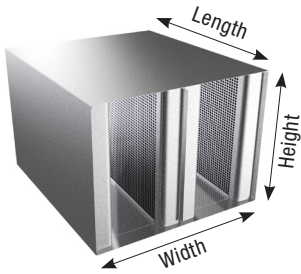
Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	54	42	39	42	49	53	50	42
	+750	36	25	23	30	42	42	32	21
	0	30	25	20	15	10	10	10	10
	-750	40	25	33	42	45	48	38	19
	-1250	50	33	40	47	51	56	54	41

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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

Percentage Free Area: 25

Modules: 2

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	80	+1250	0.66	5	5	11	15	19	13	10	10
		+750	0.25	4	5	11	14	17	11	10	10
		0	0	4	4	9	12	15	10	9	9
		-750	0.25	6	7	12	14	18	11	9	10
		-1250	0.66	8	8	14	16	18	12	9	9
60	133	+1250	0.76	7	7	18	22	30	20	13	8
		+750	0.28	7	7	16	20	27	17	13	8
		0	0	7	6	13	19	24	16	13	8
		-750	0.28	10	10	18	22	27	17	12	7
		-1250	0.76	15	12	22	24	30	19	11	6
84	187	+1250	0.86	9	10	20	24	31	19	13	13
		+750	0.31	9	9	17	21	26	16	14	13
		0	0	9	7	14	20	24	15	13	12
		-750	0.31	11	11	20	23	27	16	13	12
		-1250	0.86	15	14	24	27	32	18	12	11
108	240	+1250	0.95	14	12	23	26	34	21	16	15
		+750	0.34	13	11	20	23	29	18	16	15
		0	0	13	8	16	21	27	18	16	13
		-750	0.34	15	13	22	25	29	19	15	13
		-1250	0.95	16	16	27	29	34	22	14	12

Generated Noise(GN)

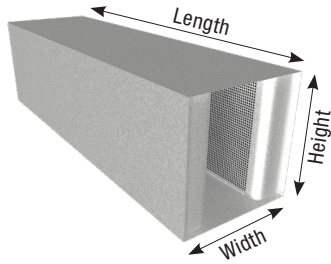
Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	68	55	52	51	55	61	65	58
	+750	50	38	35	40	48	51	47	37
	0	30	25	20	15	10	10	10	10
	-750	48	30	39	46	50	54	51	36
	-1250	57	44	46	50	56	63	67	58

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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
Percentage Free Area: 50
Modules: 1

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	58	+1250	0.07	3	3	6	11	7	5	4	5
		+750	0.03	3	3	5	11	6	4	4	5
		0	0	3	3	6	11	6	4	4	5
		-750	0.03	3	3	6	11	6	4	4	5
		-1250	0.07	5	4	7	11	6	4	4	6
60	97	+1250	0.12	5	4	8	17	10	8	5	1
		+750	0.05	5	4	8	16	9	8	6	1
		0	0	5	4	8	16	10	9	6	1
		-750	0.03	6	5	9	17	10	8	6	1
		-1250	0.08	6	6	10	18	11	9	6	1
84	135	+1250	0.1	6	7	10	19	9	8	7	9
		+750	0.04	6	6	9	17	9	8	7	9
		0	0	5	6	9	18	9	8	9	10
		-750	0.04	7	8	10	18	10	8	9	10
		-1250	0.1	7	9	12	20	11	8	8	10
108	174	+1250	0.12	7	7	11	19	9	8	7	7
		+750	0.04	7	7	9	17	8	7	6	6
		0	0	8	6	8	18	9	8	7	6
		-750	0.04	9	7	10	18	9	7	6	5
		-1250	0.12	9	9	12	19	10	7	7	5

Generated Noise(GN)

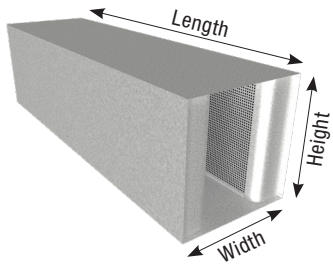
Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	44	32	30	35	45	47	40	30
	+750	30	25	20	24	38	37	22	10
	0	30	25	20	15	10	10	10	10
	-750	34	25	29	39	42	43	29	10
	-1250	44	25	36	44	48	51	45	29

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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

Percentage Free Area: 37.5

Modules: 1

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	59	+1250	0.14	3	4	9	14	9	6	5	7
		+750	0.05	4	4	9	14	8	6	5	7
		0	0	4	4	8	14	7	5	5	6
		-750	0.05	5	5	10	14	8	6	6	7
		-1250	0.14	6	6	11	15	9	7	6	7
60	98	+1250	0.2	5	6	12	21	12	11	6	2
		+750	0.08	6	6	11	19	11	10	7	2
		0	0	5	6	10	18	11	10	7	1
		-750	0.08	7	7	12	20	12	11	9	3
		-1250	0.2	8	8	14	22	14	12	9	4
84	138	+1250	0.22	9	7	14	23	11	9	7	7
		+750	0.08	9	7	13	21	10	9	7	6
		0	0	9	7	12	21	10	9	7	5
		-750	0.08	10	8	14	22	11	9	8	6
		-1250	0.22	12	10	17	25	12	10	9	8
108	177	+1250	0.24	13	8	17	24	11	9	8	11
		+750	0.09	13	7	14	21	9	8	8	10
		0	0	13	6	11	20	9	7	7	7
		-750	0.09	15	8	14	21	10	8	8	8
		-1250	0.24	15	10	18	24	11	10	9	9

Generated Noise(GN)

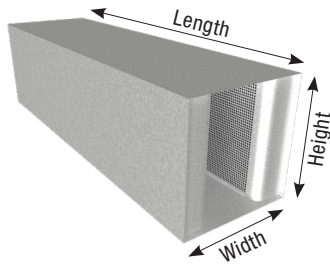
Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	54	42	39	42	49	53	50	42
	+750	36	25	23	30	42	42	32	21
	0	30	25	20	15	10	10	10	10
	-750	40	25	33	42	45	48	38	19
	-1250	50	33	40	47	51	56	54	41

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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

Percentage Free Area: 25

Modules: 1

Dynamic Insertion Loss (DIL)

Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
36	61	+1250	0.51	6	6	14	17	12	9	7	8
		+750	0.18	6	5	14	17	11	9	7	8
		0	0	5	5	13	16	10	8	6	8
		-750	0.18	8	7	15	18	11	10	9	9
		-1250	0.51	10	9	17	18	13	9	8	9
60	102	+1250	0.66	9	9	20	28	15	13	11	11
		+750	0.24	10	9	19	26	13	12	11	11
		0	0	10	7	16	23	11	10	11	10
		-750	0.24	12	10	21	28	14	13	11	10
		-1250	0.66	13	11	23	30	17	12	10	10
84	142	+1250	0.72	13	9	22	29	18	13	9	10
		+750	0.27	13	9	19	26	15	12	9	10
		0	0	12	8	17	24	14	11	9	8
		-750	0.27	14	10	21	27	15	13	11	11
		-1250	0.72	18	13	25	31	19	13	9	8
108	183	+1250	0.79	16	11	26	32	20	15	11	12
		+750	0.29	17	10	23	28	18	13	11	11
		0	0	16	9	19	26	17	13	11	9
		-750	0.29	18	12	25	30	18	15	13	12
		-1250	0.79	21	15	29	34	21	15	11	10

Generated Noise(GN)

Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+1250	68	55	52	51	55	61	65	58
	+750	50	38	35	40	48	51	47	37
	0	30	25	20	15	10	10	10	10
	-750	48	30	39	46	50	54	51	36
	-1250	57	44	46	50	56	63	67	58

Generated Noise Correction Factors

Face Area (sq. ft.)	0.5	1	2	4	8	16	32	64	128
dB	-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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