CS
CIRCULAR SILENCER

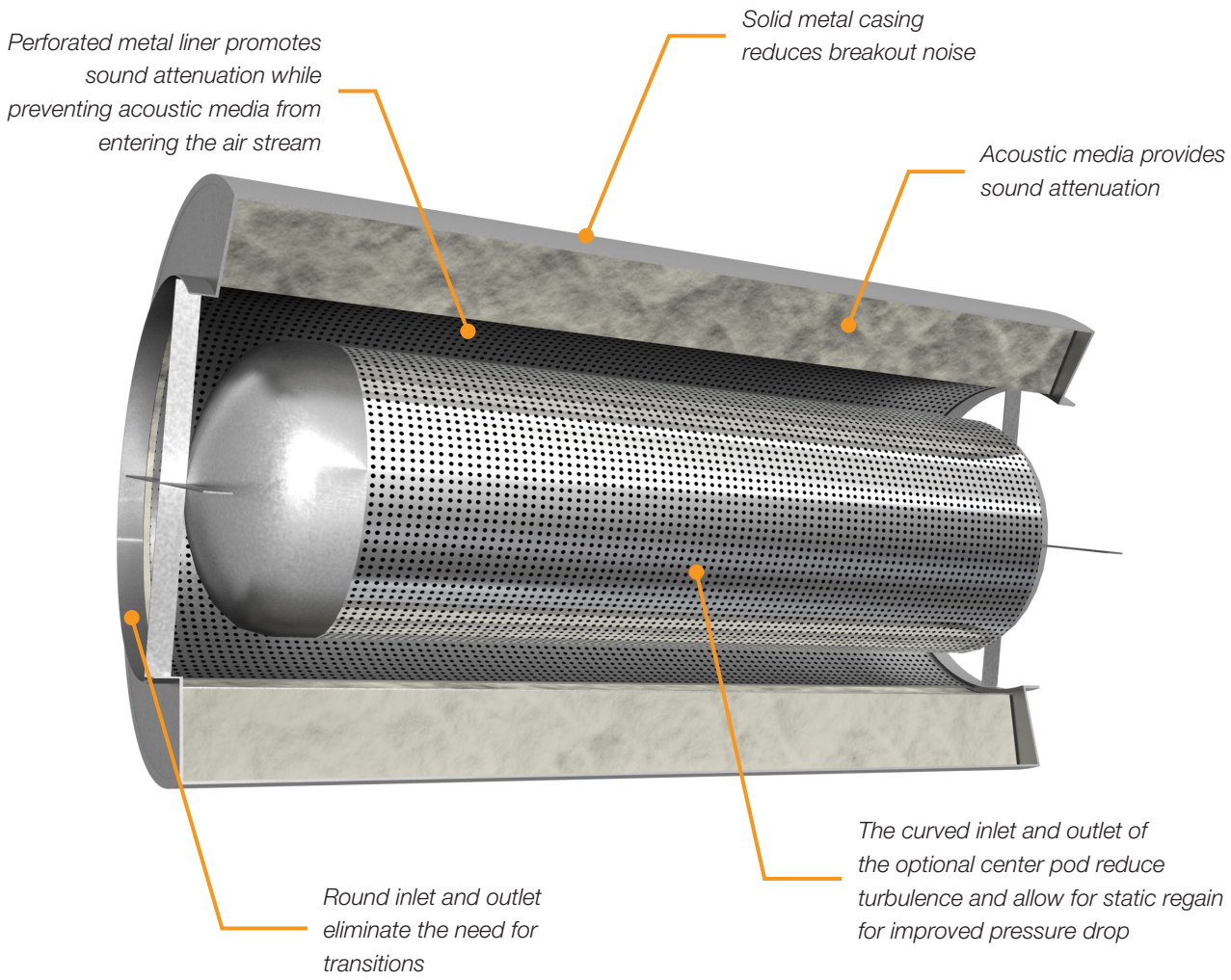




price | NOISE CONTROL

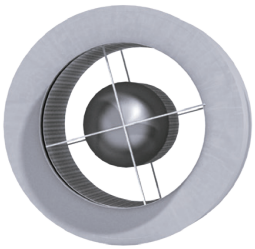
CS
Circular Silencer

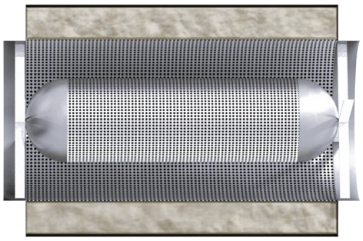
Circular silencers provide a practical, engineered solution for controlling duct noise in systems with round ductwork. The round shape eliminates the need for costly transitions and the associated turbulence and system pressure drop. With high quality, leak-free construction and many optional features, the CS silencer is suitable for most applications.



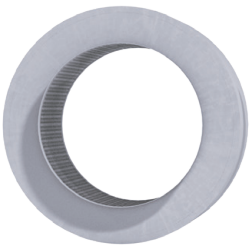
SUPERIOR PERFORMANCE

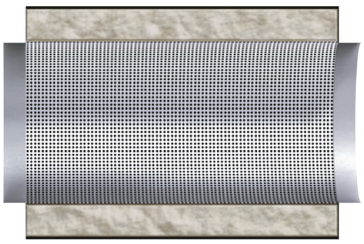
+ The CS silencer features externally located acoustic media to ensure maximum acoustical performance while minimizing system pressure drop.
+ Two internal geometries are available to best accommodate different applications.
  - **Standard Pressure Drop** - Best suited for applications with velocities of 4,000 fpm or less; these silencers feature a center pod that increases acoustical performance. The curved inlet and outlet of the center pod reduce turbulence and allow for static regain for improved pressure drop.





  - **Low Pressure Drop** - Best suited for applications where low pressure drop is the priority, or high air velocities cannot be avoided; these silencers do not have a center pod in the air stream. This design minimizes pressure drop at higher velocities while still providing high levels of insertion loss.





FIRE RATED

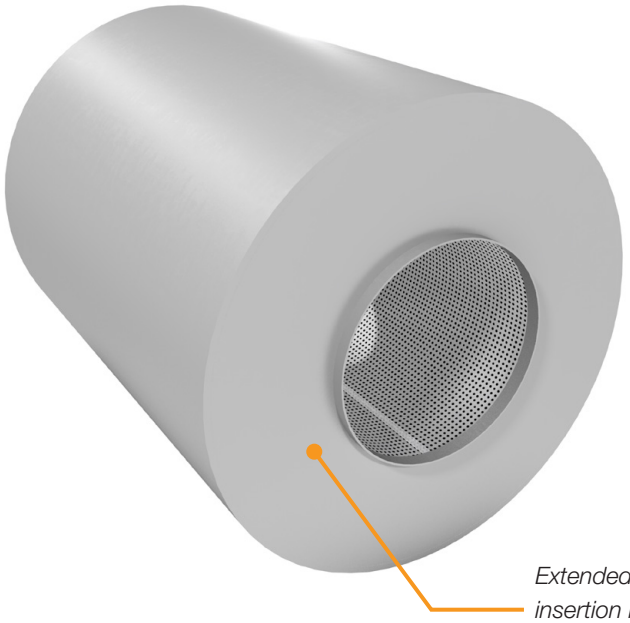
+ Class 1 index: flame/smoke < 25/50
+ ASTM E84, UL 723, NFPA 255

TYPICAL APPLICATIONS

The CS circular silencer is the logical choice for noise control in round duct applications. A large assortment of options and sizes make the CS suitable for many different applications with duct velocities up to 8000 fpm.

CONSTRUCTION

+ Pressure Drop
  - Standard
  - Low
+ Construction Type
  - 22 gauge
  - 18 gauge
  - 16 gauge
  - 10 gauge
+ Material
  - Galvanized Steel
  - Aluminum
  - 304 Stainless Steel
  - 316 Stainless Steel
  - Galvanneal
+ Optional Features
  - Pod only
  - Extended casing
  - Media protection
  - Fiberglass cloth
  - Flanges



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

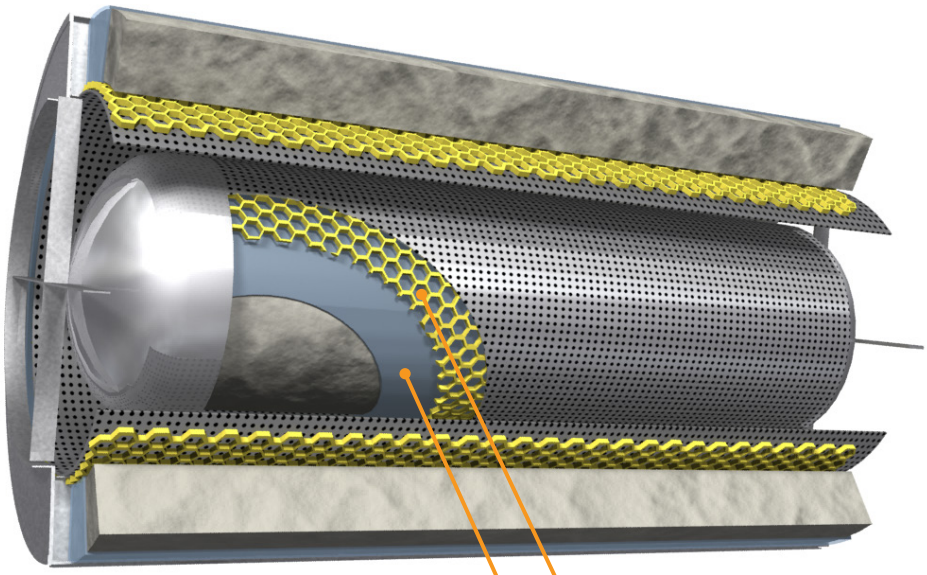
EXTENDED CASINGS

+ 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 that improves low frequency performance.



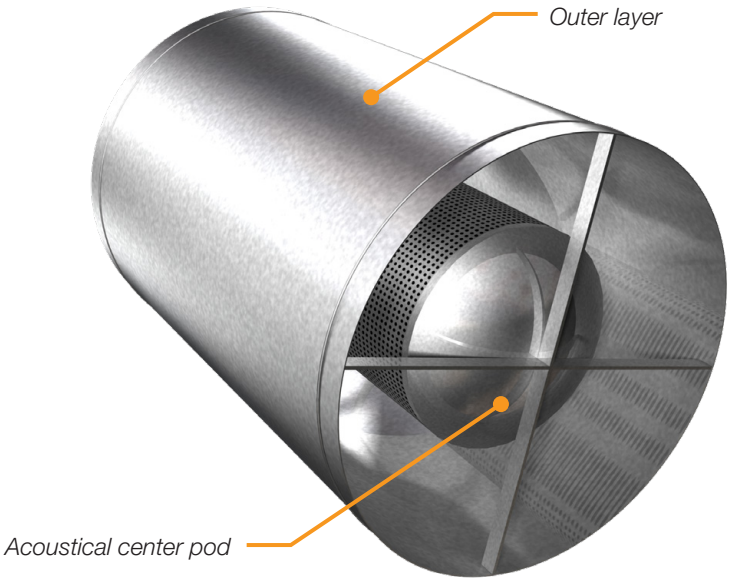
FILM LINERS

+ Commonly used in health care & education applications, film lined silencers are designed with a polymer film liner that separates the acoustic media from the air stream.
+ Film lined silencers use the same internal geometry as standard circular silencers as well as an acoustic standoff between the film liner and the perforated metal to ensure that acoustic performance is maintained.



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



Outer layer

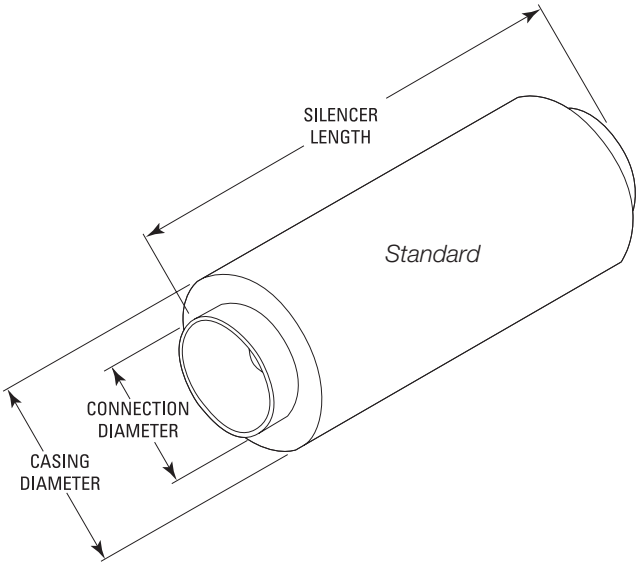
Acoustical center pod

POD ONLY OPTION

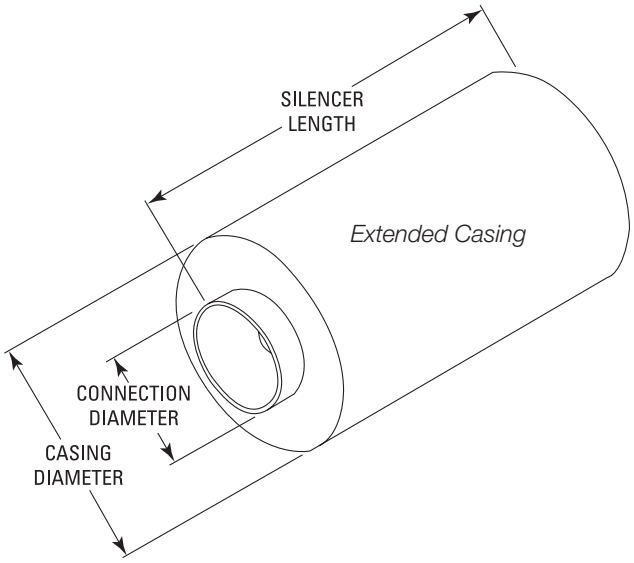
+ Pod only designs are available for applications where space is insufficient for the external acoustic media and casing. This configuration provides high levels of insertion loss across the full range of frequencies, and the curved inlet and outlet of the center pod reduce drag and allow for static regain for improved pressure drop.

DIMENSIONAL DATA

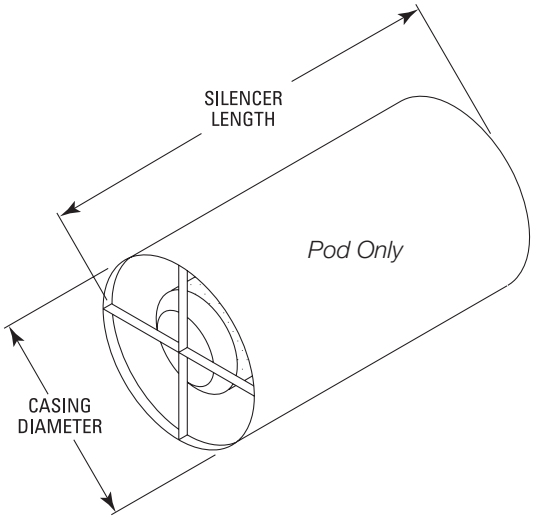
CS silencers are built to match duct dimensions, therefore the diameter and length dimensions for the silencer must always be specified. Please consult the Standard Dimension Limits chart for available sizes.



Casing diameter will be 8 inches larger than the connection diameter.



Casing diameter will be 16 inches larger than the connection diameter.

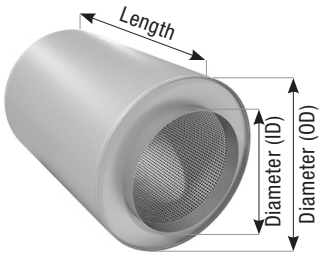


Casing diameter will be equal to the connection diameter.

Standard Dimensions

Connection Diameter		Length		Minimum Casing Gauge
Min	**Max**	**Min**	**Max**	
6	20	24	79	22
6	44	24	120	18
6	60	24	120	16

1. All dimensions are in inches.
2. For sizes outside the standard range, please contact your local sales representative.



PERFORMANCE DATA

Pressure Drop: Low
Silencer Casing: Standard
Silencer Liner: None
Pressure Attenuation (PA) Code: A

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	28	+4000	0.16	2	4	11	16	23	17	13	12
			0	0	3	4	13	17	24	17	13	12
			-4000	0.16	3	5	14	18	26	17	13	12
	36	42	+4000	0.18	3	5	15	24	29	20	15	14
			0	0	4	6	16	25	31	20	15	14
			-4000	0.18	4	6	18	27	33	20	15	14
24	48	129	+4000	0.16	2	4	10	22	19	11	10	11
			0	0	2	5	11	24	20	11	10	11
			-4000	0.16	3	5	13	25	21	11	10	11
	72	194	+4000	0.19	3	5	15	34	24	14	13	15
			0	0	4	6	17	36	25	14	13	15
			-4000	0.19	4	7	19	38	27	14	14	15
36	72	272	+4000	0.15	3	5	13	20	15	10	9	8
			0	0	3	5	14	22	16	10	9	8
			-4000	0.15	4	6	16	23	17	10	9	8
	108	408	+4000	0.2	4	6	18	31	22	16	14	11
			0	0	4	7	20	32	23	16	14	11
			-4000	0.2	5	8	22	34	24	16	14	11

Generated Noise(GN) @ 3 sq. ft. face area

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	+4000	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-4000	66	59	60	57	55	49	50	42

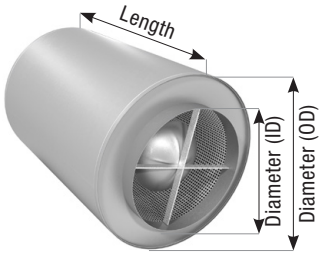
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Standard
Silencer Liner: None
Pressure Attenuation (PA) Code: C

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	35	+1000	0.04	3	5	14	21	38	42	29	21
			0	0	3	5	14	21	39	42	29	20
			-1000	0.04	4	6	15	22	39	42	29	20
	36	52	+1000	0.04	4	7	18	28	41	44	35	25
			0	0	4	7	19	29	42	44	35	24
			-1000	0.04	5	7	20	29	43	44	34	24
24	48	157	+1000	0.04	4	7	14	30	35	31	21	16
			0	0	4	7	14	31	36	31	21	16
			-1000	0.04	4	7	15	31	37	31	21	16
	72	235	+1000	0.04	5	9	21	43	46	38	26	21
			0	0	5	9	21	44	47	38	26	21
			-1000	0.04	5	9	22	45	47	38	26	21
36	72	348	+1000	0.04	4	7	17	33	33	22	15	12
			0	0	4	7	18	33	34	22	15	12
			-1000	0.04	5	7	18	34	34	22	15	12
	108	522	+1000	0.05	6	9	24	46	44	30	21	16
			0	0	6	10	25	47	45	30	21	16
			-1000	0.05	6	10	26	48	46	30	20	16

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-1000	42	34	30	27	27	10	10	10

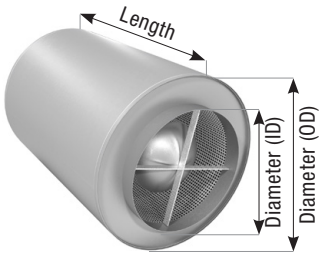
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Standard
Silencer Liner: None
Pressure Attenuation (PA) Code: E

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24		+1000	0.12	4	7	15	26	39	36	23	18
			0	0	4	7	16	26	40	36	23	18
			-1000	0.12	5	7	17	27	41	36	23	17
	36		+1000	0.11	5	8	21	33	44	44	29	23
			0	0	6	9	22	34	45	44	28	23
			-1000	0.11	7	9	24	33	47	44	28	23
24	48	171	+1000	0.1	5	8	16	34	43	40	26	20
			0	0	5	8	17	34	44	40	26	20
			-1000	0.1	5	9	18	35	45	40	26	19
	72	256	+1000	0.12	6	10	23	47	48	48	32	25
			0	0	7	11	25	48	49	48	31	25
			-1000	0.12	7	11	26	50	51	48	31	25
36	72	376	+1000	0.1	6	10	21	42	47	40	22	16
			0	0	7	11	22	43	48	40	22	15
			-1000	0.1	7	11	23	44	50	40	22	15
	108	564	+1000	0.13	9	15	29	54	54	55	31	20
			0	0	9	15	31	55	55	55	31	19
			-1000	0.13	10	16	33	55	55	55	30	19

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-1000	48	40	38	35	34	18	21	10

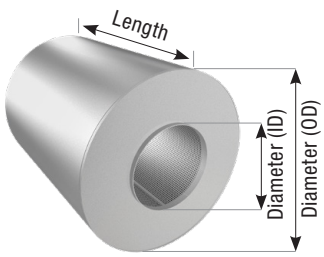
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Low
Silencer Casing: Extended
Silencer Liner: None
Pressure Attenuation (PA) Code: A

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	41	+4000	0.16	8	13	13	14	21	14	12	12
			0	0	9	15	14	15	23	14	12	12
			-4000	0.16	10	17	16	15	24	14	12	12
	36	61	+4000	0.18	9	14	18	22	28	19	14	14
			0	0	10	16	21	23	30	19	14	14
			-4000	0.18	11	18	23	25	32	19	14	14
24	48	172	+4000	0.16	6	10	12	19	19	12	10	11
			0	0	7	12	13	20	21	12	10	12
			-4000	0.16	8	13	15	21	22	12	11	12
	72	258	+4000	0.19	9	15	19	27	24	14	14	15
			0	0	10	17	21	28	25	14	14	15
			-4000	0.19	11	19	24	30	27	14	14	15
36	72	346	+4000	0.15	7	12	12	19	15	9	9	8
			0	0	8	13	13	20	15	9	9	8
			-4000	0.15	9	14	15	21	16	9	9	8
	108	519	+4000	0.2	10	17	18	29	21	15	15	14
			0	0	12	19	20	31	23	15	15	14
			-4000	0.2	13	21	22	33	24	15	15	14

Generated Noise(GN) @ 3 sq. ft. face area

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	+4000	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-4000	66	59	60	57	55	49	50	42

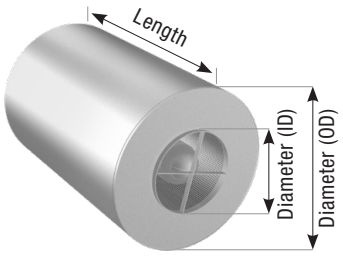
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Extended
Silencer Liner: None
Pressure Attenuation (PA) Code: C

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	47	+1000	0.04	9	15	18	18	38	40	25	18
			0	0	9	16	18	19	39	40	25	18
			-1000	0.04	9	16	19	19	39	40	25	18
	36	71	+1000	0.04	10	16	23	28	41	43	33	23
			0	0	10	17	23	28	42	43	32	23
			-1000	0.04	11	17	24	29	43	43	32	23
24	48	199	+1000	0.04	8	13	18	26	33	28	20	16
			0	0	8	13	18	27	34	28	20	16
			-1000	0.04	9	14	19	27	35	28	20	16
	72	299	+1000	0.04	11	18	27	36	43	32	22	20
			0	0	11	19	28	37	44	32	22	20
			-1000	0.04	12	19	29	38	45	32	22	20
36	72	422	+1000	0.04	8	14	19	28	33	21	14	12
			0	0	9	14	20	28	34	21	14	12
			-1000	0.04	9	15	21	29	34	21	14	12
	108	633	+1000	0.05	12	20	29	42	45	29	21	19
			0	0	12	20	31	43	46	29	21	18
			-1000	0.05	13	21	32	43	46	29	20	18

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-1000	42	34	30	27	27	10	10	10

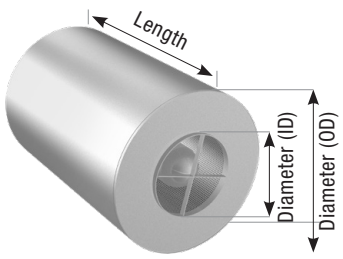
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Extended
Silencer Liner: None
Pressure Attenuation (PA) Code: E

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24		+1000	0.1	10	16	22	23	38	35	22	18
			0	0	10	18	22	24	39	35	22	18
			-1000	0.1	10	18	23	24	40	35	22	18
	36		+1000	0.11	11	17	26	32	47	44	30	25
			0	0	11	18	26	33	48	44	30	24
			-1000	0.11	12	18	27	34	50	44	30	24
24	48	213	+1000	0.1	9	15	22	30	42	39	25	19
			0	0	9	15	23	31	43	39	25	19
			-1000	0.1	10	16	24	32	44	39	25	19
	72	320	+1000	0.12	12	19	33	45	51	48	33	26
			0	0	12	20	35	47	52	48	33	25
			-1000	0.12	13	21	37	48	54	48	33	25
36	72	450	+1000	0.1	10	16	27	36	47	38	21	16
			0	0	10	17	28	37	48	38	21	15
			-1000	0.1	11	18	30	38	49	38	21	15
	108	675	+1000	0.13	14	23	42	54	54	55	29	21
			0	0	15	24	44	55	55	55	29	21
			-1000	0.13	16	26	46	55	55	55	29	21

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-1000	48	40	38	35	34	18	21	10

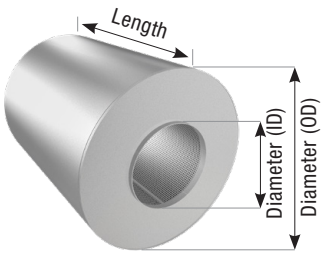
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.



PERFORMANCE DATA

Pressure Drop: Low
Silencer Casing: Standard
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: A

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	28	+4000	0.16	2	3	9	14	20	17	13	9
			0	0	3	4	10	15	21	17	13	9
			-4000	0.16	3	4	12	15	22	17	13	9
	36	42	+4000	0.18	3	4	12	20	25	20	15	11
			0	0	3	5	13	22	27	20	15	11
			-4000	0.18	4	6	15	23	28	20	15	11
24	48	129	+4000	0.16	2	4	8	19	16	11	10	9
			0	0	2	4	9	20	17	11	10	9
			-4000	0.16	3	5	10	21	18	11	10	9
	72	194	+4000	0.19	3	5	12	29	20	14	13	11
			0	0	4	5	14	31	21	14	13	11
			-4000	0.19	4	6	15	32	23	14	14	12
36	72	272	+4000	0.15	3	4	10	17	13	10	9	6
			0	0	3	5	11	18	13	10	9	6
			-4000	0.15	3	5	13	19	14	10	9	6
	108	408	+4000	0.2	4	6	14	26	19	16	14	9
			0	0	4	6	16	28	20	16	14	8
			-4000	0.2	5	7	18	29	21	16	14	8

Generated Noise(GN) @ 3 sq. ft. face area

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	+4000	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-4000	66	59	60	57	55	49	50	42

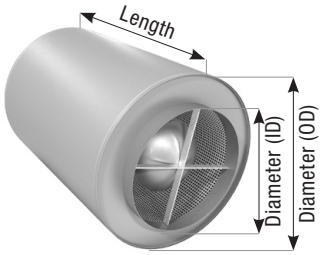
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Standard
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: C

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	35	+1000	0.04	3	5	11	18	32	42	29	16
			0	0	3	5	12	18	33	42	29	15
			-1000	0.04	3	5	12	18	34	42	29	15
	36	52	+1000	0.04	4	6	15	24	35	44	35	19
			0	0	4	6	15	25	36	44	35	18
			-1000	0.04	4	7	16	25	36	44	34	18
24	48	157	+1000	0.04	4	6	11	26	30	31	21	12
			0	0	4	7	12	26	31	31	21	12
			-1000	0.04	4	7	12	27	31	31	21	12
	72	235	+1000	0.04	5	8	17	37	39	38	26	16
			0	0	5	8	17	38	40	38	26	16
			-1000	0.04	5	8	18	38	40	38	26	16
36	72	348	+1000	0.04	4	6	14	28	28	22	15	9
			0	0	4	6	14	28	29	22	15	9
			-1000	0.04	4	7	15	29	29	22	15	9
	108	522	+1000	0.05	6	9	19	39	38	30	21	12
			0	0	6	9	20	40	38	30	21	12
			-1000	0.05	6	9	21	41	39	30	20	12

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-1000	42	34	30	27	27	10	10	10

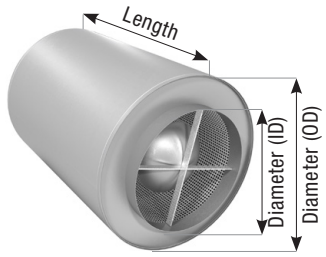
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Standard
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: E

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24		+1000	0.1	4	6	12	20	33	36	23	13
			0	0	4	6	13	20	34	36	23	13
			-1000	0.1	4	6	13	21	35	36	23	13
	36		+1000	0.11	5	7	16	26	37	44	29	17
			0	0	5	7	17	27	38	44	28	17
			-1000	0.11	5	8	18	28	39	44	28	17
24	48	171	+1000	0.1	5	7	13	29	37	40	26	15
			0	0	5	8	13	29	38	40	26	15
			-1000	0.1	5	8	14	30	39	40	26	15
	72	256	+1000	0.12	6	9	19	40	41	48	32	19
			0	0	6	10	20	41	42	48	31	19
			-1000	0.12	7	10	21	42	43	48	31	19
36	72	376	+1000	0.1	6	9	17	36	40	40	22	12
			0	0	6	10	18	37	41	40	22	12
			-1000	0.1	7	10	18	38	42	40	22	11
	108	564	+1000	0.13	8	13	24	46	46	55	31	15
			0	0	9	14	25	47	47	55	31	15
			-1000	0.13	9	15	26	48	48	55	30	14

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-1000	48	40	38	35	34	18	21	10

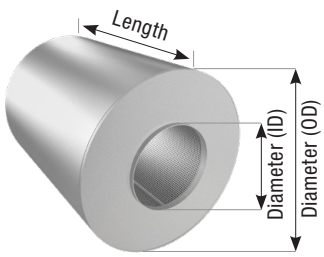
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.



PERFORMANCE DATA

Pressure Drop: Low
Silencer Casing: Extended
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: A

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	41	+4000	0.16	8	12	10	12	18	14	12	9
			0	0	8	14	12	12	19	14	12	9
			-4000	0.16	9	15	13	13	20	14	12	9
	36	61	+4000	0.18	8	13	15	19	24	19	14	11
			0	0	9	14	17	20	25	19	14	11
			-4000	0.18	10	16	19	21	27	19	14	11
24	48	172	+4000	0.16	6	9	10	16	16	12	10	9
			0	0	7	11	11	17	18	12	10	9
			-4000	0.16	8	12	12	18	19	12	11	9
	72	258	+4000	0.19	9	13	15	23	20	14	14	11
			0	0	10	15	17	24	22	14	14	11
			-4000	0.19	11	17	19	26	23	14	14	12
36	72	346	+4000	0.15	7	10	10	16	12	9	9	6
			0	0	8	12	11	17	13	9	9	6
			-4000	0.15	8	13	12	18	14	9	9	6
	108	519	+4000	0.2	10	15	14	25	18	15	15	11
			0	0	11	17	16	26	19	15	15	11
			-4000	0.2	12	19	18	28	21	15	15	11

Generated Noise(GN) @ 3 sq. ft. face area

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	+4000	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-4000	66	59	60	57	55	49	50	42

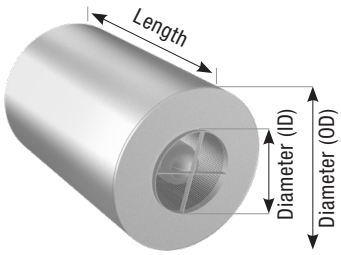
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Extended
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: C

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24	47	+1000	0.04	8	14	14	16	32	40	25	14
			0	0	9	14	15	16	33	40	25	14
			-1000	0.04	9	15	15	16	33	40	25	13
	36	71	+1000	0.04	9	15	18	24	35	43	33	18
			0	0	10	15	19	24	36	43	32	17
			-1000	0.04	10	16	20	25	36	43	32	17
24	48	199	+1000	0.04	8	12	14	22	28	28	20	12
			0	0	8	12	15	23	29	28	20	12
			-1000	0.04	8	13	15	23	30	28	20	12
	72	299	+1000	0.04	10	16	22	31	37	32	22	15
			0	0	11	17	22	32	37	32	22	15
			-1000	0.04	11	17	23	32	38	32	22	15
36	72	422	+1000	0.04	8	12	16	24	28	21	14	9
			0	0	8	13	16	24	29	21	14	9
			-1000	0.04	9	13	17	24	29	21	14	9
	108	633	+1000	0.05	11	18	24	36	38	29	21	14
			0	0	12	18	25	36	39	29	21	14
			-1000	0.05	12	19	26	37	40	29	20	14

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-1000	42	34	30	27	27	10	10	10

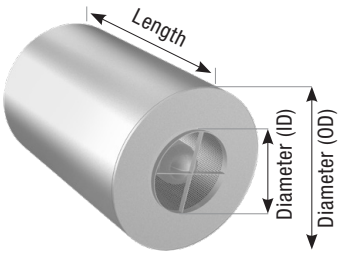
Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.



PERFORMANCE DATA

Pressure Drop: Standard
Silencer Casing: Extended
Silencer Liner: Polymer Film
Pressure Attenuation (PA) Code: E

Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	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
12	24		+1000	0.1	9	15	17	20	32	35	22	13
			0	0	10	15	19	20	33	35	22	12
			-1000	0.1	10	17	19	20	33	35	22	12
	36		+1000	0.11	10	16	20	28	39	44	30	18
			0	0	11	16	22	28	40	44	30	17
			-1000	0.11	11	17	23	29	42	44	30	17
24	48	213	+1000	0.1	9	13	18	26	36	39	25	15
			0	0	9	14	18	27	37	39	25	14
			-1000	0.1	9	15	19	27	37	39	25	14
	72	320	+1000	0.12	11	17	27	39	43	48	33	20
			0	0	12	18	28	40	44	48	33	19
			-1000	0.12	12	19	30	41	46	48	33	19
36	72	450	+1000	0.1	9	15	22	31	40	38	21	12
			0	0	10	15	23	32	41	38	21	12
			-1000	0.1	10	16	24	33	42	38	21	11
	108	675	+1000	0.13	13	21	33	46	46	55	29	16
			0	0	14	22	35	47	47	55	29	16
			-1000	0.13	15	23	37	48	48	55	29	16

Generated Noise(GN) @ 3 sq. ft. face area

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	+1000	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-1000	48	40	38	35	34	18	21	10

Generated Noise Correction Factors*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands.

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. Outside Diameter (OD) = Inside Diameter (ID) + 16 in.

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