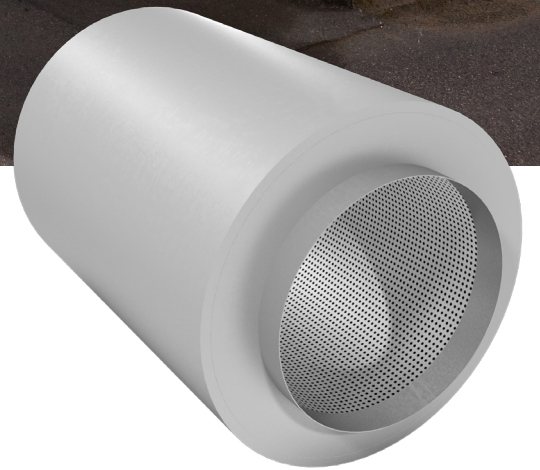


CS

CIRCULAR SILENCER

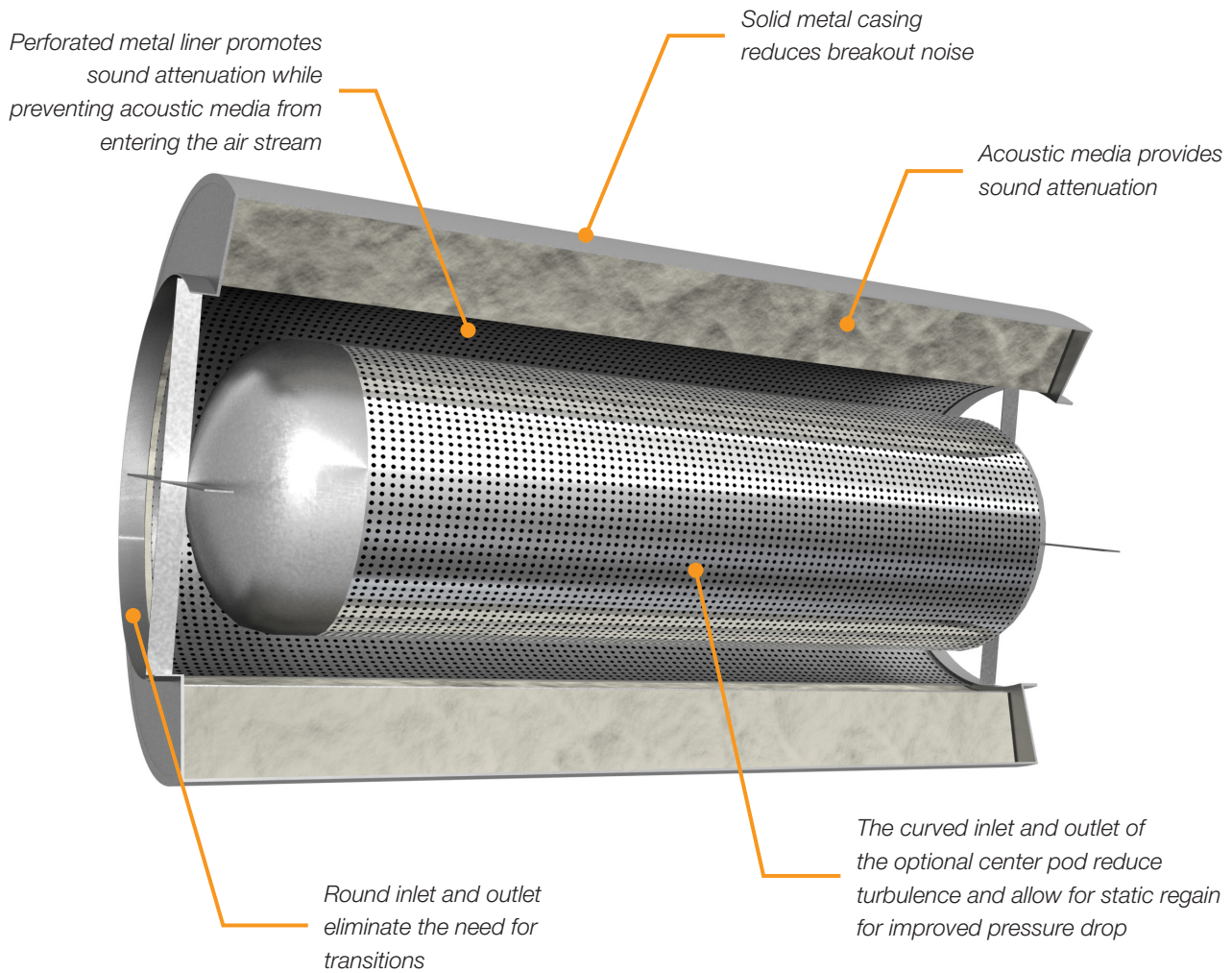


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PRICE | **NOISE CONTROL**

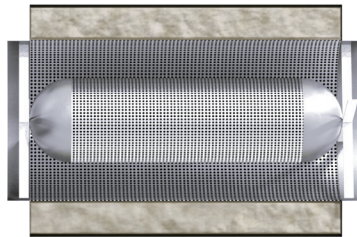
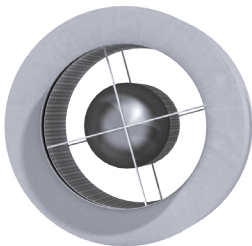
CS Circular Silencer

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.

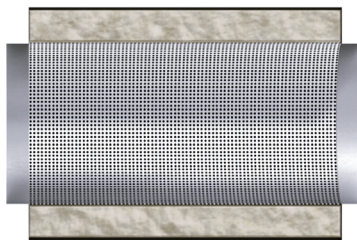
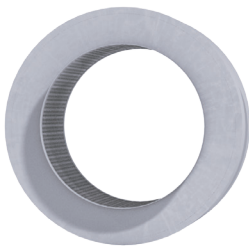


SUPERIOR PERFORMANCE

- + 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 20 m/s 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

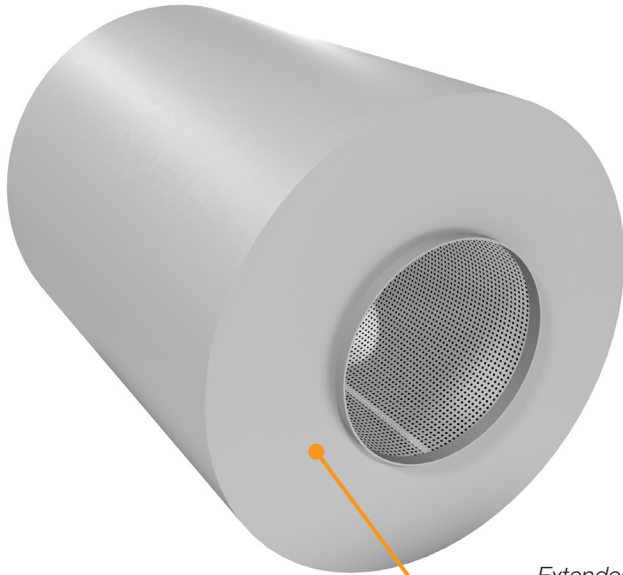
- + Class 1 index: flame/smoke < 25/50
- + ASTM E84, UL 723, NFPA 255

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 40 m/s.

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

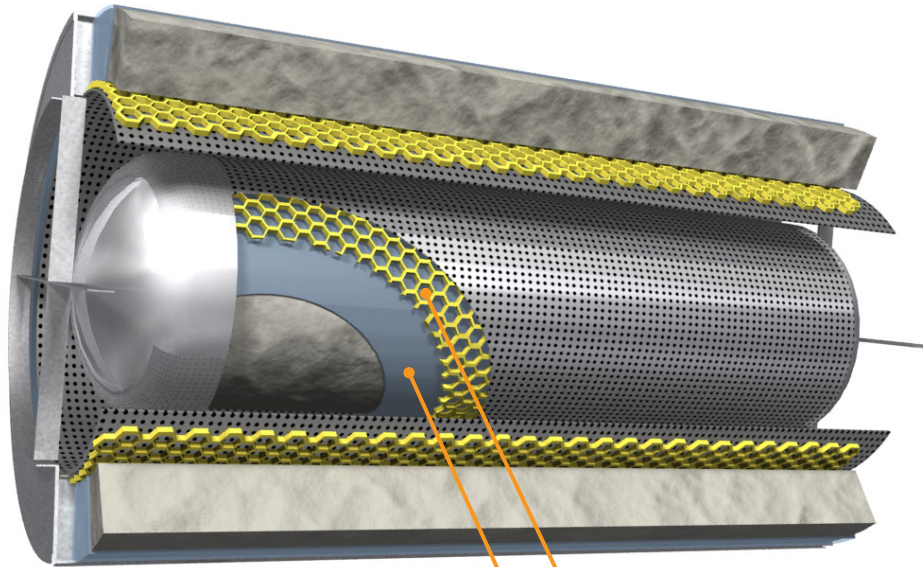
EXTENDED CASINGS

- + 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.



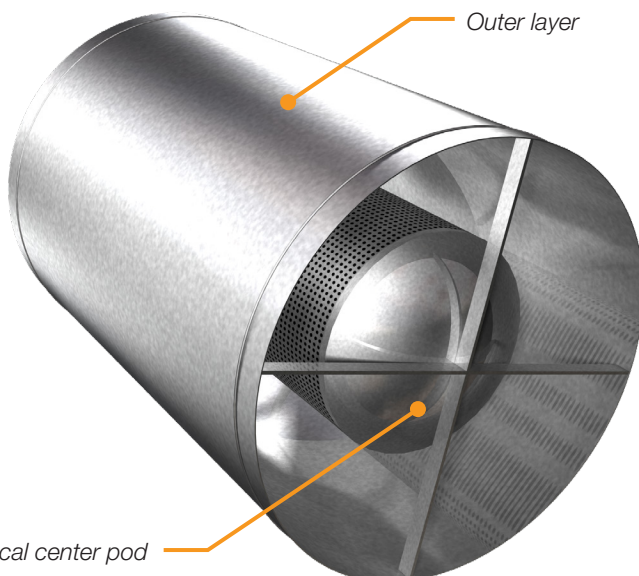
FILM LINERS

- + 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

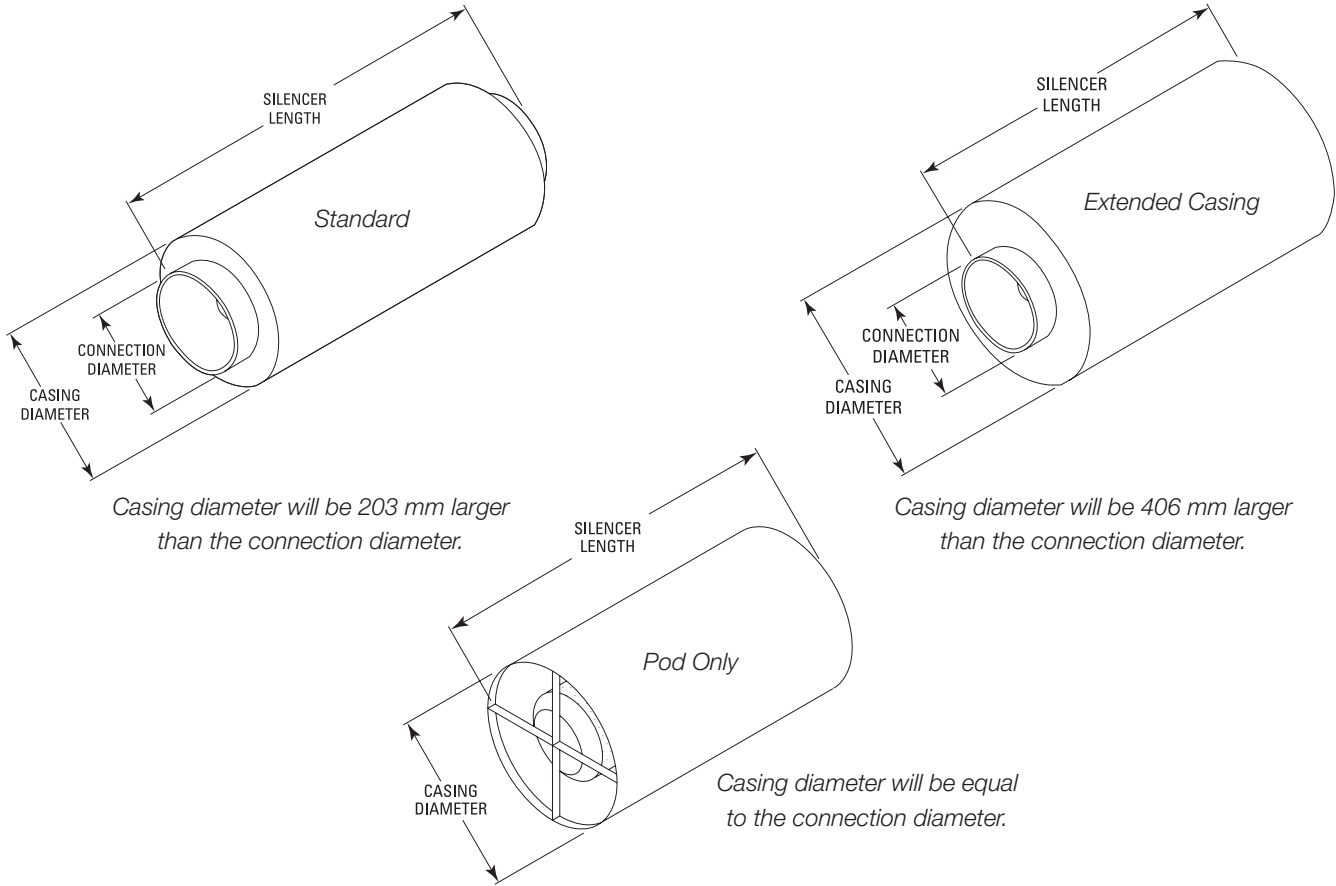


POD ONLY OPTION

- + 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

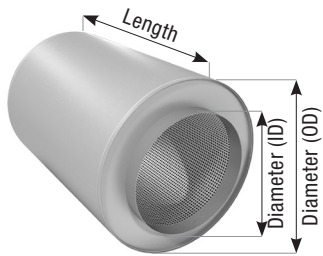
CS silencers are built to match duct dimensions, therefore the diameter and length dimensions for the silencer must always be specified. Please consult the Standard Dimension Limits chart for available sizes.



Standard Dimension Limits

Connection Diameter		Length		Minimum Casing Gauge
Min	Max	Min	Max	
150	500	600	1975	22
150	1100	600	3000	18
150	1500	600	3000	16

1. All dimensions are in millimeters.
2. For sizes outside the standard range, please contact your local Holyoake Sales Office.
3. All dimensions are nominal



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)							
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	600	13	+20.3	40	2	4	11	16	23	17	13	12
			0	0	3	4	13	17	24	17	13	12
			-20.3	40	3	5	14	18	26	17	13	12
	900	20	+20.3	45	3	5	15	24	29	20	15	14
			0	0	4	6	16	25	31	20	15	14
			-20.3	45	4	6	18	27	33	20	15	14
600	1200	59	+20.3	40	2	4	10	22	19	11	10	11
			0	0	2	5	11	24	20	11	10	11
			-20.3	40	3	5	13	25	21	11	10	11
	1800	88	+20.3	48	3	5	15	34	24	14	13	15
			0	0	4	6	17	36	25	14	13	15
			-20.3	48	4	7	19	38	27	14	14	15
900	1800	124	+20.3	38	3	5	13	20	15	10	9	8
			0	0	3	5	14	22	16	10	9	8
			-20.3	38	4	6	16	23	17	10	9	8
	2700	186	+20.3	50	4	6	18	31	22	16	14	11
			0	0	4	7	20	32	23	16	14	11
			-20.3	50	5	8	22	34	24	16	14	11

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+20.3	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-20.3	66	59	60	57	55	49	50	42

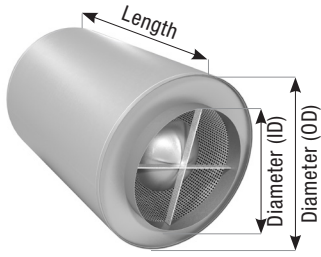
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	16	+5.1	10	3	5	14	21	38	42	29	21	
			0	0	3	5	14	21	39	42	29	20	
			-5.1	10	4	6	15	22	39	42	29	20	
	900	24		+5.1	10	4	7	18	28	41	44	35	25
				0	0	4	7	19	29	42	44	35	24
				-5.1	10	5	7	20	29	43	44	34	24
600	1200	72	+5.1	10	4	7	14	30	35	31	21	16	
			0	0	4	7	14	31	36	31	21	16	
			-5.1	10	4	7	15	31	37	31	21	16	
	1800	107		+5.1	10	5	9	21	43	46	38	26	21
				0	0	5	9	21	44	47	38	26	21
				-5.1	10	5	9	22	45	47	38	26	21
900	1800	158	+5.1	10	4	7	17	33	33	22	15	12	
			0	0	4	7	18	33	34	22	15	12	
			-5.1	10	5	7	18	34	34	22	15	12	
	2700	237		+5.1	13	6	9	24	46	44	30	21	16
				0	0	6	10	25	47	45	30	21	16
				-5.1	13	6	10	26	48	46	30	20	16

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-5.1	42	34	30	27	27	10	10	10

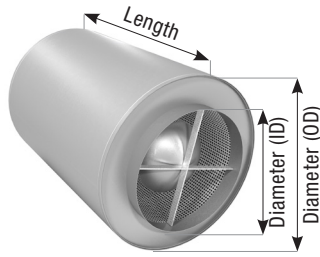
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	16	+5.1	30	4	7	15	26	39	36	23	18	
			0	0	4	7	16	26	40	36	23	18	
			-5.1	30	5	7	17	27	41	36	23	17	
	900	24		+5.1	28	5	8	21	33	44	44	29	23
				0	0	6	9	22	34	45	44	28	23
				-5.1	28	7	9	24	33	47	44	28	23
600	1200	78	+5.1	25	5	8	16	34	43	40	26	20	
			0	0	5	8	17	34	44	40	26	20	
			-5.1	25	5	9	18	35	45	40	26	19	
	1800	117		+5.1	30	6	10	23	47	48	48	32	25
				0	0	7	11	25	48	49	48	31	25
				-5.1	30	7	11	26	50	51	48	31	25
900	1800	171	+5.1	25	6	10	21	42	47	40	22	16	
			0	0	7	11	22	43	48	40	22	15	
			-5.1	25	7	11	23	44	50	40	22	15	
	2700	256		+5.1	33	9	15	29	54	54	55	31	20
				0	0	9	15	31	55	55	55	31	19
				-5.1	33	10	16	33	55	55	55	30	19

Generated Noise(GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-5.1	48	40	38	35	34	18	21	10

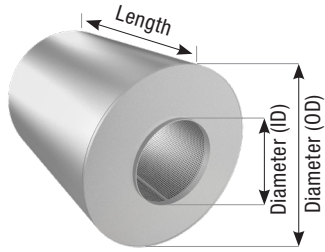
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	19	+20.3	40	8	13	13	14	21	14	12	12	
			0	0	9	15	14	15	23	14	12	12	
			-20.3	40	10	17	16	15	24	14	12	12	
	900	28	28	+20.3	45	9	14	18	22	28	19	14	14
				0	0	10	16	21	23	30	19	14	14
				-20.3	45	11	18	23	25	32	19	14	14
600	1200	79	+20.3	40	6	10	12	19	19	12	10	11	
			0	0	7	12	13	20	21	12	10	12	
			-20.3	40	8	13	15	21	22	12	11	12	
	1800	118	118	+20.3	48	9	15	19	27	24	14	14	15
				0	0	10	17	21	28	25	14	14	15
				-20.3	48	11	19	24	30	27	14	14	15
900	1800	157	+20.3	38	7	12	12	19	15	9	9	8	
			0	0	8	13	13	20	15	9	9	8	
			-20.3	38	9	14	15	21	16	9	9	8	
	2700	236	236	+20.3	50	10	17	18	29	21	15	15	14
				0	0	12	19	20	31	23	15	15	14
				-20.3	50	13	21	22	33	24	15	15	14

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+20.3	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-20.3	66	59	60	57	55	49	50	42

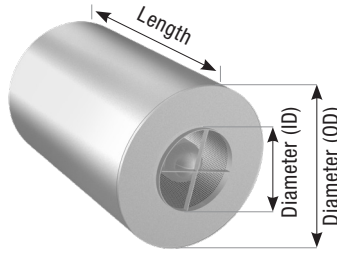
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)							
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	600	22	+5.1	10	9	15	18	18	38	40	25	18
			0	0	9	16	18	19	39	40	25	18
			-5.1	10	9	16	19	19	39	40	25	18
	900	33	+5.1	10	10	16	23	28	41	43	33	23
			0	0	10	17	23	28	42	43	32	23
			-5.1	10	11	17	24	29	43	43	32	23
600	1200	91	+5.1	10	8	13	18	26	33	28	20	16
			0	0	8	13	18	27	34	28	20	16
			-5.1	10	9	14	19	27	35	28	20	16
	1800	136	+5.1	10	11	18	27	36	43	32	22	20
			0	0	11	19	28	37	44	32	22	20
			-5.1	10	12	19	29	38	45	32	22	20
900	1800	192	+5.1	10	8	14	19	28	33	21	14	12
			0	0	9	14	20	28	34	21	14	12
			-5.1	10	9	15	21	29	34	21	14	12
	2700	288	+5.1	13	12	20	29	42	45	29	21	19
			0	0	12	20	31	43	46	29	21	18
			-5.1	13	13	21	32	43	46	29	20	18

Generated Noise(GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-5.1	42	34	30	27	27	10	10	10

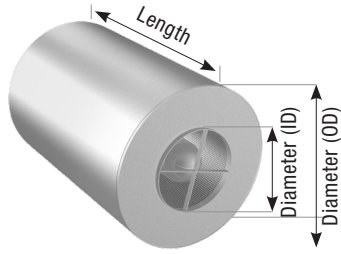
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)							
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	600	24	+5.1	25	10	16	22	23	38	35	22	18
			0	0	10	18	22	24	39	35	22	18
			-5.1	25	10	18	23	24	40	35	22	18
	900	35	+5.1	28	11	17	26	32	47	44	30	25
			0	0	11	18	26	33	48	44	30	24
			-5.1	28	12	18	27	34	50	44	30	24
600	1200	97	+5.1	25	9	15	22	30	42	39	25	19
			0	0	9	15	23	31	43	39	25	19
			-5.1	25	10	16	24	32	44	39	25	19
	1800	146	+5.1	30	12	19	33	45	51	48	33	26
			0	0	12	20	35	47	52	48	33	25
			-5.1	30	13	21	37	48	54	48	33	25
900	1800	205	+5.1	25	10	16	27	36	47	38	21	16
			0	0	10	17	28	37	48	38	21	15
			-5.1	25	11	18	30	38	49	38	21	15
	2700	307	+5.1	33	14	23	42	54	54	55	29	21
			0	0	15	24	44	55	55	55	29	21
			-5.1	33	16	26	46	55	55	55	29	21

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-5.1	48	40	38	35	34	18	21	10

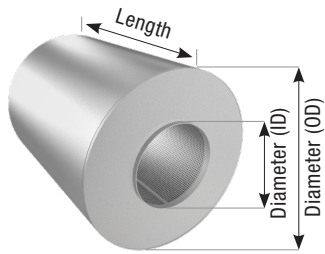
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)							
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	600	13	+20.3	40	2	3	9	14	20	17	13	9
			0	0	3	4	10	15	21	17	13	9
			-20.3	40	3	4	12	15	22	17	13	9
	900	20	+20.3	45	3	4	12	20	25	20	15	11
			0	0	3	5	13	22	27	20	15	11
			-20.3	45	4	6	15	23	28	20	15	11
600	1200	59	+20.3	40	2	4	8	19	16	11	10	9
			0	0	2	4	9	20	17	11	10	9
			-20.3	40	3	5	10	21	18	11	10	9
	1800	88	+20.3	48	3	5	12	29	20	14	13	11
			0	0	4	5	14	31	21	14	13	11
			-20.3	48	4	6	15	32	23	14	14	12
900	1800	124	+20.3	38	3	4	10	17	13	10	9	6
			0	0	3	5	11	18	13	10	9	6
			-20.3	38	3	5	13	19	14	10	9	6
	2700	186	+20.3	50	4	6	14	26	19	16	14	9
			0	0	4	6	16	28	20	16	14	8
			-20.3	50	5	7	18	29	21	16	14	8

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+20.3	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-20.3	66	59	60	57	55	49	50	42

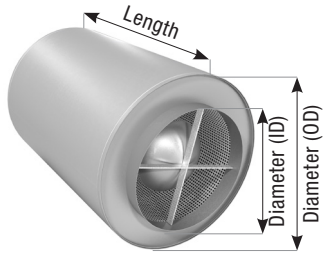
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	16	+5.1	10	3	5	11	18	32	42	29	16	
			0	0	3	5	12	18	33	42	29	15	
			-5.1	10	3	5	12	18	34	42	29	15	
	900	24	24	+5.1	10	4	6	15	24	35	44	35	19
				0	0	4	6	15	25	36	44	35	18
				-5.1	10	4	7	16	25	36	44	34	18
600	1200	72	+5.1	10	4	6	11	26	30	31	21	12	
			0	0	4	7	12	26	31	31	21	12	
			-5.1	10	4	7	12	27	31	31	21	12	
	1800	107	107	+5.1	10	5	8	17	37	39	38	26	16
				0	0	5	8	17	38	40	38	26	16
				-5.1	10	5	8	18	38	40	38	26	16
900	1800	158	+5.1	10	4	6	14	28	28	22	15	9	
			0	0	4	6	14	28	29	22	15	9	
			-5.1	10	4	7	15	29	29	22	15	9	
	2700	237	237	+5.1	13	6	9	19	39	38	30	21	12
				0	0	6	9	20	40	38	30	21	12
				-5.1	13	6	9	21	41	39	30	20	12

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-5.1	42	34	30	27	27	10	10	10

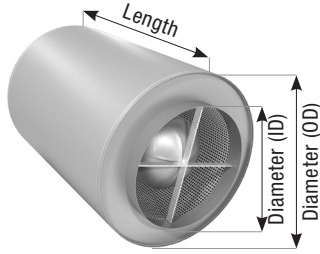
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	18	+5.1	25	4	6	12	20	33	36	23	13	
			0	0	4	6	13	20	34	36	23	13	
			-5.1	25	4	6	13	21	35	36	23	13	
	900	24	24	+5.1	28	5	7	16	26	37	44	29	17
				0	0	5	7	17	27	38	44	28	17
				-5.1	28	5	8	18	28	39	44	28	17
600	1200	78	+5.1	25	5	7	13	29	37	40	26	15	
			0	0	5	8	13	29	38	40	26	15	
			-5.1	25	5	8	14	30	39	40	26	15	
	1800	117	117	+5.1	30	6	9	19	40	41	48	32	19
				0	0	6	10	20	41	42	48	31	19
				-5.1	30	7	10	21	42	43	48	31	19
900	1800	171	+5.1	25	6	9	17	36	40	40	22	12	
			0	0	6	10	18	37	41	40	22	12	
			-5.1	25	7	10	18	38	42	40	22	11	
	2700	256	256	+5.1	33	8	13	24	46	46	55	31	15
				0	0	9	14	25	47	47	55	31	15
				-5.1	33	9	15	26	48	48	55	30	14

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-5.1	48	40	38	35	34	18	21	10

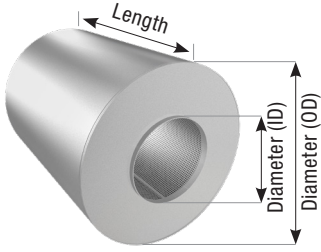
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 200 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	19	+20.3	40	8	12	10	12	18	14	12	9	
			0	0	8	14	12	12	19	14	12	9	
			-20.3	40	9	15	13	13	20	14	12	9	
	900	28	28	+20.3	45	8	13	15	19	24	19	14	11
				0	0	9	14	17	20	25	19	14	11
				-20.3	45	10	16	19	21	27	19	14	11
600	1200	79	+20.3	40	6	9	10	16	16	12	10	9	
			0	0	7	11	11	17	18	12	10	9	
			-20.3	40	8	12	12	18	19	12	11	9	
	1800	118	118	+20.3	48	9	13	15	23	20	14	14	11
				0	0	10	15	17	24	22	14	14	11
				-20.3	48	11	17	19	26	23	14	14	12
900	1800	157	+20.3	38	7	10	10	16	12	9	9	6	
			0	0	8	12	11	17	13	9	9	6	
			-20.3	38	8	13	12	18	14	9	9	6	
	2700	236	236	+20.3	50	10	15	14	25	18	15	15	11
				0	0	11	17	16	26	19	15	15	11
				-20.3	50	12	19	18	28	21	15	15	11

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+20.3	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-20.3	66	59	60	57	55	49	50	42

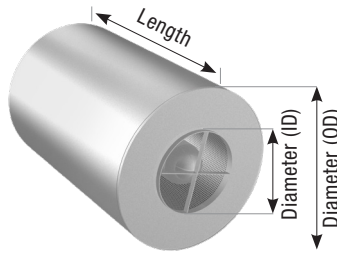
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)							
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	600	22	+5.1	10	8	14	14	16	32	40	25	14
			0	0	9	14	15	16	33	40	25	14
			-5.1	10	9	15	15	16	33	40	25	13
	900	33	+5.1	10	9	15	18	24	35	43	33	18
			0	0	10	15	19	24	36	43	32	17
			-5.1	10	10	16	20	25	36	43	32	17
600	1200	91	+5.1	10	8	12	14	22	28	28	20	12
			0	0	8	12	15	23	29	28	20	12
			-5.1	10	8	13	15	23	30	28	20	12
	1800	136	+5.1	10	10	16	22	31	37	32	22	15
			0	0	11	17	22	32	37	32	22	15
			-5.1	10	11	17	23	32	38	32	22	15
900	1800	192	+5.1	10	8	12	16	24	28	21	14	9
			0	0	8	13	16	24	29	21	14	9
			-5.1	10	9	13	17	24	29	21	14	9
	2700	288	+5.1	13	11	18	24	36	38	29	21	14
			0	0	12	18	25	36	39	29	21	14
			-5.1	13	12	19	26	37	40	29	20	14

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	35	25	20	19	18	15	10	10
	0	30	25	20	15	10	10	10	10
	-5.1	42	34	30	27	27	10	10	10

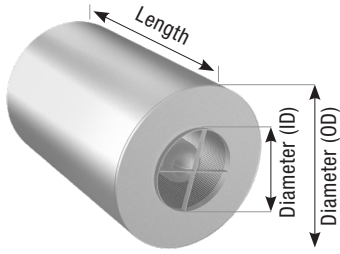
Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



PERFORMANCE DATA

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

Dynamic Insertion Loss (DIL)

Inside Diameter (mm)	Length (mm)	Weight (kgs)	Face Velocity (m/s)	Pressure Drop (Pa)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
300	600	26	+5.1	25	9	15	17	20	32	35	22	13	
			0	0	10	15	19	20	33	35	22	12	
			-5.1	25	10	17	19	20	33	35	22	12	
	900	37	37	+5.1	28	10	16	20	28	39	44	30	18
				0	0	11	16	22	28	40	44	30	17
				-5.1	28	11	17	23	29	42	44	30	17
600	1200	97	+5.1	25	9	13	18	26	36	39	25	15	
			0	0	9	14	18	27	37	39	25	14	
			-5.1	25	9	15	19	27	37	39	25	14	
	1800	146	146	+5.1	30	11	17	27	39	43	48	33	20
				0	0	12	18	28	40	44	48	33	19
				-5.1	30	12	19	30	41	46	48	33	19
900	1800	205	+5.1	25	9	15	22	31	40	38	21	12	
			0	0	10	15	23	32	41	38	21	12	
			-5.1	25	10	16	24	33	42	38	21	11	
	2700	307	307	+5.1	33	13	21	33	46	46	55	29	16
				0	0	14	22	35	47	47	55	29	16
				-5.1	33	15	23	37	48	48	55	29	16

Generated Noise (GN) @ 0.28 sqm face area

Length (mm)	Face Velocity (m/s)	Octave Band Generated Noise (dB)							
		63Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+5.1	42	25	23	26	25	23	13	14
	0	30	25	20	15	10	10	10	10
	-5.1	48	40	38	35	34	18	21	10

Generated Noise Correction Factors*

Face Area (Sqm)	0.14	0.28	0.56	1.11	2.23
dB	-3	0	+3	+6	+9

* Generated Noise adjustment factors for silencers with face area other than @ 0.28 sqm. 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) + 400 mm.



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