DYNAMIC SOUND CONTROL

Engineered Noise Control

RD Silencers

DSC RD silencers are rectangular and use acoustic media in the baffles to absorb sound. They are available with either fiberglass or recycled cotton acoustic media. The acoustic media may also be encapsulated with a polymer film.

Standard Features

DSC RD silencer have the following standard construction features:

- 22 gauge galvanized, Lockform casing
- 22 gauge galvanized perforated liner
- 2 inch slip connection at each end
- Constructed according to SMACNA standards

Acoustic Media

RD silencers are currently available with two fill materials:

- Fiberglass
- Recycled Cotton

Optional Features

DSC RD silencers are available with the following optional construction:

- Alternate casing and lining metals such as aluminum or stainless steel
- Heavier gauge casings to mitigate noise break-out or break-in
- Heavier gauge perforated metal lining
- Continuously welded casings
- Industrial structural reinforcement
- Flanges

Naming Convention

DSC RD silencers should be specified using the following naming convention:

RDNNNNFF x W x H x L

Where:

NNNN is the 4 digit model number from product data sheets

FF is the fill material code:

FG = fiberglass

RC = recycled cotton

LF = polymer lined fiberglass

LC = polymer lined recycled cotton

W is the width in inches

H is the height in inches

L is the length in inches

Dimensions

DSC RD silencers are available in cross sectional dimensions from 6 inch x 6 inch to 48 inch x 48 inch. Specific models may vary in minimum dimensions. Larger sizes can be achieved with banks of silencers.

DSC RD silencers are available in the following standard lengths: 36 inch, 60 inch, 84 inch, and 120 inch. Custom lengths between 36 inch and 120 inch are also available.

Silencer Banks

All DSC RD silencers can be assembled into banks to accommodate large duct dimensions. Additional hardware will be provided to properly assemble the banks.

Combustion Ratings

DSC RD silencer fill materials have maximum combustion ratings as noted below when tested in accordance with ASTM E84, NFPA 255 or UL 723:

- Flame Spread: ≤ 20
- Smoke Development: ≤ 35

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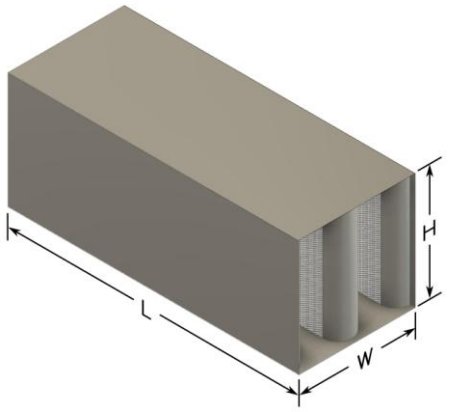
DYNAMIC SOUND CONTROL

Model Number: RD1208FG

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Aerodynamic Class: Low Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	6	7	13	27	35	29	20	14
	0	4	6	12	26	35	29	21	16
	1000	3	5	11	25	35	30	22	17
60	-1000	8	11	19	35	45	42	30	18
	0	7	9	17	34	43	46	34	22
	1000	5	9	17	33	43	41	36	23
84	-1000	11	17	27	42	46	40	40	23
	0	8	14	24	41	48	51	45	29
	1000	7	13	23	42	47	42	47	31
120	-1000	13	21	34	44	45	40	46	26
	0	11	19	32	42	46	50	49	34
	1000	9	18	30	42	46	42	48	38

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	67	54	52	53	55	55	48	40
	1000	67	54	51	52	53	52	47	37
60	-1000	63	49	45	46	49	52	45	38
	1000	64	55	53	55	56	54	49	39
84	-1000	67	54	53	54	55	55	48	41
	1000	65	56	52	52	52	52	47	38
120	-1000	64	52	51	52	53	54	47	41
	1000	63	58	53	54	54	54	49	41

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.
Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	750	1000	1500	2000
36	0.08	0.17	0.31	0.70	1.28
60	0.09	0.20	0.35	0.79	1.36
84	0.11	0.25	0.44	1.00	1.35
120	0.14	0.31	0.53	1.26	1.73

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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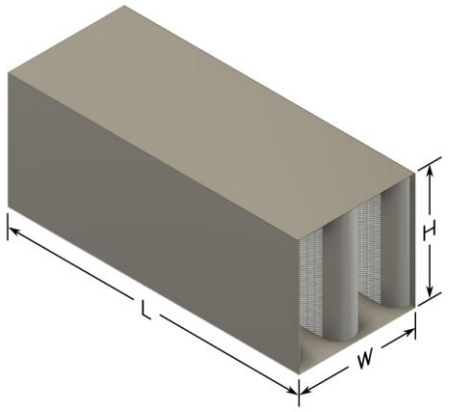
DYNAMIC SOUND CONTROL

Model Number: RD1125FG

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	5	5	12	19	14	10	9	7
	0	4	4	11	18	14	10	8	8
	1500	3	4	10	18	14	10	9	8
60	-1500	5	8	16	30	22	14	10	9
	0	5	7	15	28	22	13	10	10
	1500	3	7	14	27	22	14	11	10
84	-1500	7	13	21	41	31	18	12	9
	0	6	11	19	40	31	18	13	11
	1500	5	10	19	38	32	19	14	12
120	-1500	9	15	26	44	38	19	13	10
	0	8	14	25	49	38	20	14	12
	1500	8	13	24	49	40	22	16	13

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	62	54	53	52	51	50	44	36
	1500	67	55	51	51	51	51	45	35
60	-1500	65	55	53	53	53	52	44	34
	1500	64	54	49	48	49	49	44	33
84	-1500	64	54	47	47	49	51	45	36
	1500	64	54	47	46	48	50	44	36
120	-1500	68	57	55	54	54	53	47	40
	1500	63	55	49	48	49	49	43	34

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.02	0.08	0.17	0.31	0.48
60	0.02	0.09	0.20	0.35	0.54
84	0.03	0.10	0.23	0.41	0.63
120	0.03	0.11	0.24	0.43	0.68

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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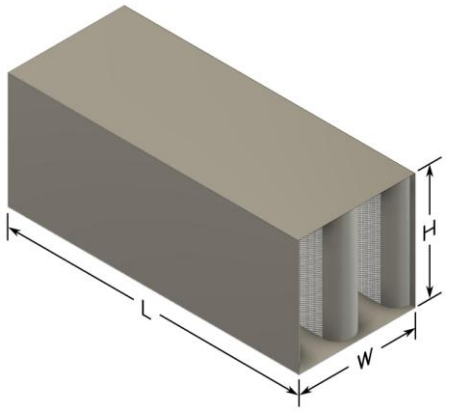
DYNAMIC SOUND CONTROL

Model Number: RD1225FG

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	3	5	8	19	26	18	13	9
	0	3	4	7	17	26	19	13	11
	1500	2	3	7	17	26	19	14	11
60	-1500	4	7	12	25	39	27	16	11
	0	3	6	10	24	39	27	17	14
	1500	2	5	9	23	38	28	19	14
84	-1500	5	10	17	34	46	37	22	13
	0	4	9	15	32	47	37	23	16
	1500	3	8	13	30	45	36	26	18
120	-1500	10	17	26	45	48	39	31	17
	0	8	14	22	44	49	48	34	22
	1500	7	13	21	42	48	42	37	25

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	67	52	51	54	55	53	45	36
	1500	67	55	51	51	52	51	45	36
60	-1500	67	55	55	57	56	53	45	36
	1500	66	57	52	51	51	50	45	34
84	-1500	68	58	56	56	54	53	46	39
	1500	62	55	48	48	49	49	41	32
120	-1500	64	52	50	53	53	53	45	37
	1500	62	56	51	51	51	52	47	40

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)				
	Face Velocity (fpm)			
Length (in)	500	1000	1500	2000
36	0.02	0.09	0.17	0.31
60	0.03	0.10	0.21	0.36
84	0.03	0.12	0.25	0.44
120	0.04	0.15	0.35	0.61

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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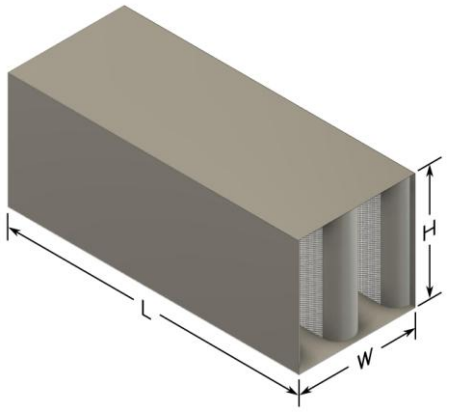
DYNAMIC SOUND CONTROL

Model Number: RD1242FG

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	4	3	5	11	19	13	9	7
	0	2	2	4	11	18	13	9	9
	2000	1	2	4	10	18	14	10	9
60	-2000	3	5	7	16	29	20	12	9
	0	2	4	6	14	28	19	12	11
	2000	2	3	6	13	28	20	13	11
84	-2000	6	8	12	23	41	28	16	10
	0	6	7	10	21	41	28	17	13
	2000	4	6	9	20	40	29	18	14
120	-2000	9	9	16	29	41	32	19	12
	0	8	9	13	27	48	33	20	15
	2000	7	8	12	25	46	34	22	16

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	68	59	59	56	55	53	46	38
	2000	64	62	55	51	51	51	45	36
60	-2000	71	59	56	56	57	53	46	36
	2000	67	61	54	51	51	49	43	33
84	-2000	71	58	56	55	54	54	47	40
	2000	66	60	53	52	53	53	46	38
120	-2000	71	58	55	57	59	56	48	39
	2000	68	59	53	52	53	53	47	38

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.
Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.09	0.16	0.24
60	0.01	0.05	0.11	0.18	0.28
84	0.01	0.05	0.12	0.20	0.32
120	0.02	0.06	0.12	0.21	0.33

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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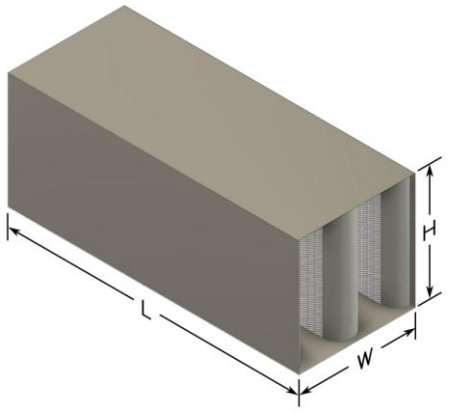
DYNAMIC SOUND CONTROL

Model Number: RD1142FG

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	4	3	7	14	10	7	7	5
	0	3	2	6	13	10	7	6	6
	2500	2	2	6	13	11	7	7	5
60	-2000	3	5	10	21	16	10	8	7
	0	2	4	9	20	15	9	8	8
	2500	1	4	8	19	16	10	9	7
84	-2000	4	7	13	28	20	11	9	8
	0	3	6	12	27	19	11	9	9
	2500	2	5	11	25	20	12	10	9
120	-2000	6	9	18	36	26	13	10	8
	0	5	8	16	35	25	13	11	10
	2500	4	7	15	32	27	14	12	10

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	68	60	56	52	51	50	45	37
	2500	72	67	59	54	53	55	52	45
60	-2000	72	58	57	51	50	49	45	36
	2500	73	65	57	51	51	54	50	43
84	-2000	71	58	57	53	51	50	46	38
	2500	75	65	57	53	52	55	51	44
120	-2000	72	58	56	53	52	51	48	40
	2500	73	67	59	55	52	55	51	45

Under test conditions, the airflow noise of this silencer model is either indistinguishable from background noise in the test room or masked by the inherent limitations of the measurement equipment. Actual levels are less than or equal to the levels indicated. Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.07	0.13	0.19
60	0.01	0.04	0.07	0.13	0.19
84	0.01	0.04	0.09	0.15	0.23
120	0.01	0.04	0.09	0.16	0.25

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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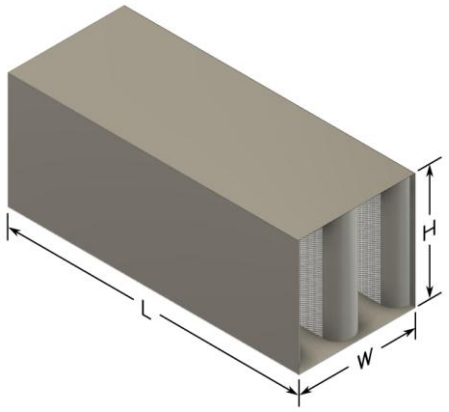
DYNAMIC SOUND CONTROL

Model Number: RD1208RC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Aerodynamic Class: Low Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	4	6	15	29	38	34	22	14
	0	3	5	13	28	37	34	22	16
	1000	2	5	12	26	36	34	23	16
60	-1000	5	9	20	39	43	39	32	19
	0	3	7	17	36	47	48	34	21
	1000	3	7	16	36	45	41	37	23
84	-1000	9	13	30	45	46	39	42	23
	0	7	10	27	41	47	50	45	27
	1000	6	10	26	43	46	42	47	29
120	-1000	9	20	40	43	46	38	45	27
	0	6	17	36	44	48	51	51	32
	1000	4	15	33	45	48	41	48	37

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	64	52	51	53	55	54	48	40
	1000	59	53	50	51	51	50	44	34
60	-1000	65	54	50	50	56	54	48	40
	1000	64	60	57	56	55	52	49	36
84	-1000	57	51	52	53	54	54	47	39
	1000	60	54	51	51	51	52	46	37
120	-1000	61	53	54	54	54	55	48	42
	1000	63	56	52	51	51	52	46	37

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	750	1000	1500	1750
36	0.08	0.17	0.31	0.67	0.90
60	0.09	0.22	0.38	0.85	1.15
84	0.12	0.26	0.46	1.00	1.46
120	0.15	0.34	0.60	1.33	1.75

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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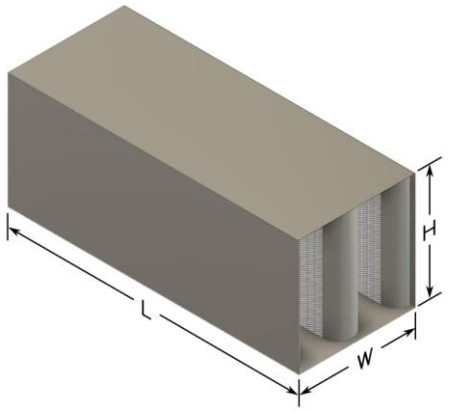
DYNAMIC SOUND CONTROL

Model Number: RD1125RC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	2	5	11	16	16	10	8	7
	0	1	4	11	15	15	10	8	7
	1500	1	4	10	14	15	10	9	8
60	-1500	5	9	18	27	24	14	10	8
	0	3	8	16	26	24	13	10	9
	1500	3	7	15	24	24	14	11	10
84	-1500	8	14	26	39	37	19	13	9
	0	7	12	24	37	36	19	13	11
	1500	5	11	22	34	36	20	14	12
120	-1500	6	17	31	45	44	21	13	10
	0	5	15	28	48	44	21	14	11
	1500	4	14	27	45	45	23	15	13

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	65	55	53	52	51	51	45	34
	1500	62	55	52	51	51	52	45	36
60	-1500	64	53	51	52	53	52	44	34
	1500	61	55	49	47	48	49	43	33
84	-1500	64	53	50	49	51	53	47	40
	1500	62	54	47	45	48	50	44	36
120	-1500	64	56	55	53	53	53	46	37
	1500	61	52	48	46	48	48	41	32

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.02	0.08	0.17	0.30	0.47
60	0.02	0.09	0.20	0.35	0.55
84	0.03	0.11	0.25	0.45	0.71
120	0.03	0.11	0.24	0.44	0.70

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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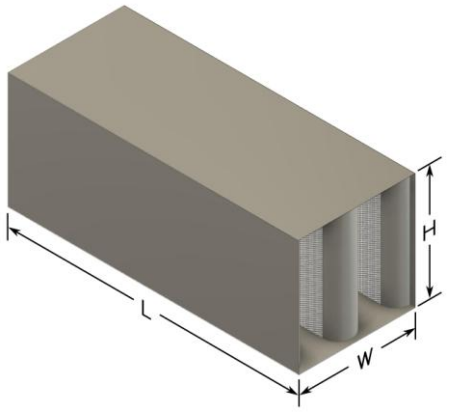
DYNAMIC SOUND CONTROL

Model Number: RD1225RC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	3	4	9	20	28	21	13	8
	0	1	2	8	19	27	21	13	10
	1500	2	2	7	18	26	21	14	10
60	-1500	5	6	14	32	44	33	18	11
	0	4	5	12	29	43	33	19	14
	1500	3	5	11	28	42	34	20	14
84	-1500	5	9	19	41	46	39	24	13
	0	3	7	16	40	49	44	25	16
	1500	2	6	15	37	50	43	27	17
120	-1500	7	13	29	44	47	38	33	17
	0	4	11	25	50	51	51	35	21
	1500	4	10	23	49	50	43	38	24

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	63	52	51	53	54	53	45	37
	1500	70	57	51	50	51	51	45	36
60	-1500	64	54	54	55	55	53	45	36
	1500	64	55	49	48	49	48	42	32
84	-1500	64	56	56	56	53	54	47	39
	1500	62	56	48	47	48	48	42	33
120	-1500	64	52	52	53	53	55	47	40
	1500	61	53	49	48	49	49	44	36

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)				
	Face Velocity (fpm)			
Length (in)	500	1000	1500	2000
36	0.02	0.09	0.19	0.33
60	0.03	0.10	0.23	0.40
84	0.03	0.13	0.29	0.48
120	0.05	0.17	0.36	0.63

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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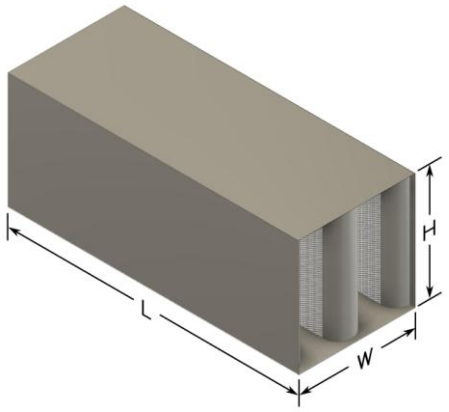
DYNAMIC SOUND CONTROL

Model Number: RD1242RC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	3	2	5	13	22	14	9	6
	0	2	1	4	11	21	13	9	7
	2000	1	1	3	10	20	14	10	7
60	-2000	4	4	7	17	35	20	13	8
	0	3	3	6	16	34	20	12	10
	2000	2	2	5	15	33	21	14	10
84	-2000	5	6	10	24	45	29	17	10
	0	3	5	8	22	46	29	17	12
	2000	3	4	8	20	44	30	19	13
120	-2000	6	7	13	31	42	33	19	12
	0	5	6	10	28	50	36	20	14
	2000	4	6	10	26	47	37	22	16

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	68	58	56	55	54	52	47	40
	2000	66	62	56	51	51	51	45	37
60	-2000	69	57	55	55	55	53	46	38
	2000	65	61	55	52	52	51	45	35
84	-2000	68	57	56	57	55	54	47	40
	2000	66	61	54	53	53	52	46	37
120	-2000	68	57	54	56	58	56	48	39
	2000	66	60	52	52	52	51	46	37

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.08	0.14	0.21
60	0.01	0.04	0.09	0.16	0.25
84	0.02	0.05	0.13	0.22	0.34
120	0.02	0.06	0.16	0.22	0.35

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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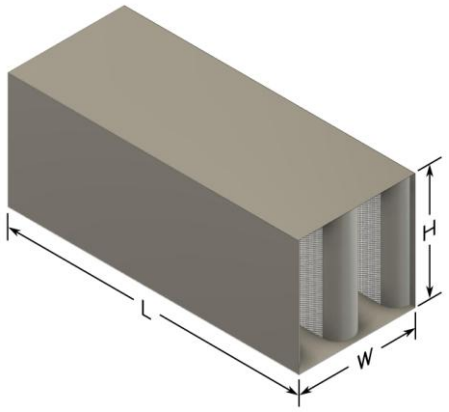
DYNAMIC SOUND CONTROL

Model Number: RD1142RC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	3	3	7	14	10	8	7	5
	0	2	2	6	13	10	7	6	5
	2500	1	1	6	12	10	7	6	5
60	-2000	5	4	11	23	15	10	8	6
	0	4	3	10	22	15	9	8	7
	2500	3	2	9	21	16	10	8	7
84	-2000	5	5	14	31	21	12	9	6
	0	4	4	12	30	21	11	9	8
	2500	2	3	12	27	22	12	10	8
120	-2000	5	7	17	40	27	14	10	8
	0	4	6	16	39	27	14	10	9
	2500	2	5	15	35	28	15	11	10

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	69	58	54	52	52	52	48	41
	2500	71	67	60	53	53	55	52	45
60	-2000	69	57	54	52	51	51	46	38
	2500	71	66	58	52	52	55	51	44
84	-2000	69	57	53	51	52	51	47	38
	2500	71	66	57	54	54	56	52	45
120	-2000	68	57	54	52	51	50	44	37
	2500	71	65	56	52	52	54	50	44

Under test conditions, the airflow noise of this silencer model is either indistinguishable from background noise in the test room or masked by the inherent limitations of the measurement equipment. Actual levels are less than or equal to the levels indicated. Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.03	0.07	0.13	0.20
60	0.01	0.04	0.08	0.14	0.22
84	0.01	0.04	0.08	0.14	0.22
120	0.01	0.05	0.10	0.17	0.26

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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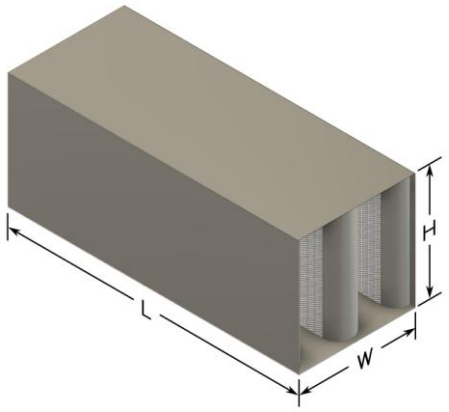
DYNAMIC SOUND CONTROL

Model Number: RD1208LF

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Media Encapsulation: Polymer Film
Aerodynamic Class: Low Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	5	6	13	25	28	30	22	10
	0	3	5	12	25	28	29	22	10
	1000	3	5	11	23	27	29	23	10
60	-1000	7	10	20	37	43	40	30	11
	0	6	9	18	36	42	46	30	12
	1000	5	8	17	33	39	41	33	13
84	-1000	10	14	27	43	41	38	35	13
	0	8	13	25	45	48	50	36	14
	1000	6	12	23	40	47	42	38	15
120	-1000	10	16	27	47	46	40	36	15
	0	8	14	25	40	47	49	40	16
	1000	7	13	24	42	46	42	41	18

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	62	56	53	54	55	53	50	43
	1000	64	59	55	54	54	53	50	42
60	-1000	66	54	48	49	51	55	53	48
	1000	66	54	51	51	50	46	41	32
84	-1000	65	56	56	56	57	58	56	51
	1000	65	58	55	55	52	52	49	46
120	-1000	68	56	53	54	54	56	54	49
	1000	70	63	57	55	53	54	52	48

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	250	500	750	1000	1500
36	0.02	0.09	0.20	0.35	0.78
60	0.03	0.12	0.27	0.46	0.99
84	0.04	0.16	0.35	0.62	1.33
120	0.05	0.18	0.41	0.71	1.55

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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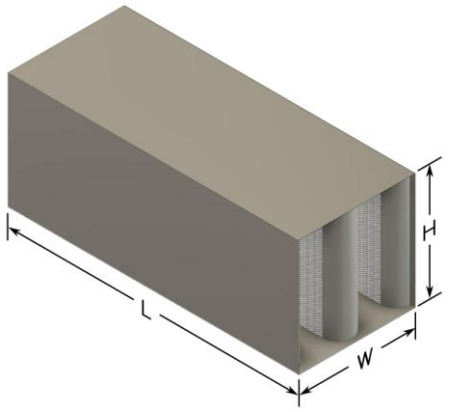
DYNAMIC SOUND CONTROL

Model Number: RD1125LF

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Media Encapsulation: Polymer Film
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	3	5	11	17	14	11	8	5
	0	2	4	10	17	13	11	8	4
	1500	1	4	10	16	14	11	8	4
60	-1500	5	8	15	24	21	18	9	6
	0	4	8	14	23	20	18	9	6
	1500	3	7	13	22	20	18	10	6
84	-1500	7	11	18	35	31	26	11	6
	0	6	10	18	37	28	25	11	7
	1500	5	9	17	35	29	26	11	6
120	-1500	9	15	24	47	40	29	12	6
	0	7	13	23	46	38	30	12	7
	1500	6	13	22	44	38	32	13	7

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	67	58	56	55	53	51	47	40
	1500	66	59	52	47	48	49	46	40
60	-1500	66	55	54	53	53	54	50	41
	1500	65	59	53	49	49	50	49	41
84	-1500	66	55	52	51	50	53	50	44
	1500	65	56	49	47	47	50	47	43
120	-1500	67	58	58	56	53	53	50	43
	1500	63	56	52	49	49	49	46	41

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.03	0.10	0.20	0.35	0.55
60	0.03	0.12	0.25	0.44	0.71
84	0.03	0.12	0.27	0.46	0.72
120	0.03	0.13	0.28	0.50	0.77

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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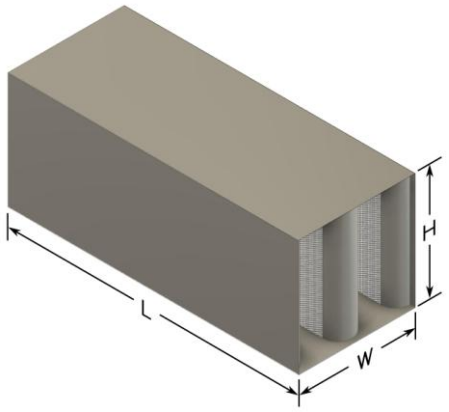
DYNAMIC SOUND CONTROL

Model Number: RD1225LF

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Media Encapsulation: Polymer Film
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	3	4	8	17	20	23	13	6
	0	2	3	7	16	20	22	12	6
	1500	1	3	7	15	19	22	13	6
60	-1500	4	7	12	25	33	39	17	7
	0	3	6	10	23	34	38	16	8
	1500	3	5	10	21	32	38	17	8
84	-1500	5	9	17	33	45	41	20	8
	0	4	8	15	31	46	47	19	9
	1500	3	7	14	29	45	43	20	9
120	-1500	11	15	23	43	45	39	28	11
	0	7	12	25	46	52	50	28	12
	1500	6	11	20	40	48	44	31	13

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	65	54	52	53	54	52	48	40
	1500	66	59	53	52	51	51	48	42
60	-1500	67	57	57	57	56	55	52	45
	1500	67	59	52	52	52	51	48	42
84	-1500	65	55	55	55	54	55	51	45
	1500	64	57	52	52	51	51	49	42
120	-1500	67	54	54	54	54	57	54	50
	1500	66	58	53	52	50	52	49	47

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)				
	Face Velocity (fpm)			
Length (in)	500	1000	1500	2000
36	0.02	0.10	0.20	0.33
60	0.03	0.12	0.27	0.46
84	0.04	0.15	0.32	0.55
120	0.06	0.21	0.44	0.77

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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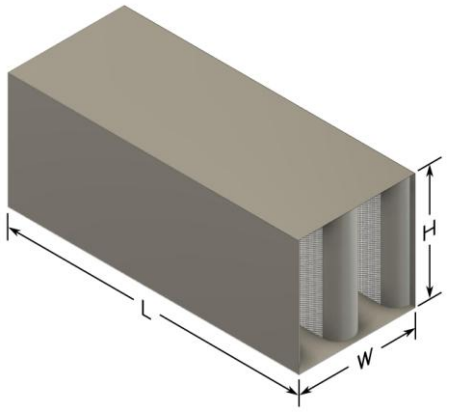
DYNAMIC SOUND CONTROL

Model Number: RD1242LF

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Media Encapsulation: Polymer Film
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	3	3	4	9	13	14	8	4
	0	1	2	3	8	13	14	8	4
	2000	1	1	3	8	13	14	8	4
60	-2000	3	3	6	15	24	28	12	5
	0	3	3	5	13	24	27	11	6
	2000	1	2	5	13	23	27	12	5
84	-2000	5	6	10	21	36	37	15	6
	0	4	5	8	20	37	36	14	7
	2000	3	4	8	19	35	35	15	7
120	-2000	9	8	13	27	42	39	17	7
	0	7	7	12	26	46	50	16	8
	2000	5	6	11	24	43	42	17	8

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	71	60	56	56	54	52	49	41
	2000	71	65	59	55	54	53	50	43
60	-2000	71	57	54	54	54	51	47	38
	2000	71	64	57	53	53	52	49	41
84	-2000	71	58	56	57	55	54	51	44
	2000	69	63	56	54	54	53	50	45
120	-2000	71	59	54	55	57	56	50	42
	2000	70	61	55	54	53	53	50	44

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.
Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.09	0.16	0.24
60	0.01	0.05	0.09	0.16	0.25
84	0.02	0.06	0.14	0.25	0.38
120	0.02	0.07	0.14	0.25	0.38

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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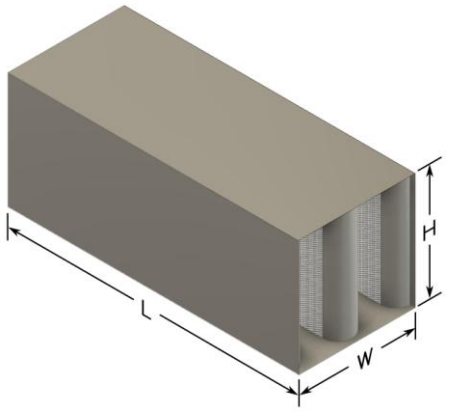
DYNAMIC SOUND CONTROL

Model Number: RD1142LF

Rectangular Dissipative Silencer
Acoustic Media: Fiberglass
Media Encapsulation: Polymer Film
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	2	3	7	11	11	8	6	3
	0	1	2	6	10	10	7	5	3
	2500	0	1	5	9	11	8	5	2
60	-2000	2	4	9	17	17	12	7	4
	0	2	4	8	17	17	11	6	4
	2500	1	3	8	16	17	12	7	3
84	-2000	5	6	12	22	24	14	8	4
	0	4	5	11	22	23	14	7	4
	2500	3	4	10	20	23	15	8	3
120	-2000	5	8	16	29	34	18	9	5
	0	5	8	16	31	31	18	9	5
	2500	3	5	13	26	33	19	9	5

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	71	59	53	51	51	50	48	39
	2500	74	69	61	55	54	56	55	49
60	-2000	71	58	54	51	50	50	47	39
	2500	75	68	60	53	52	55	55	51
84	-2000	71	57	54	53	51	51	49	40
	2500	73	67	59	54	53	56	55	52
5120	-2000	70	57	55	53	51	52	52	41
	2500	73	66	58	54	52	56	55	52

Under test conditions, the airflow noise of this silencer model is either indistinguishable from background noise in the test room or masked by the inherent limitations of the measurement equipment. Actual levels are less than or equal to the levels indicated. Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.09	0.16	0.24
60	0.01	0.04	0.09	0.16	0.24
84	0.01	0.04	0.09	0.16	0.25
120	0.01	0.05	0.12	0.19	0.30

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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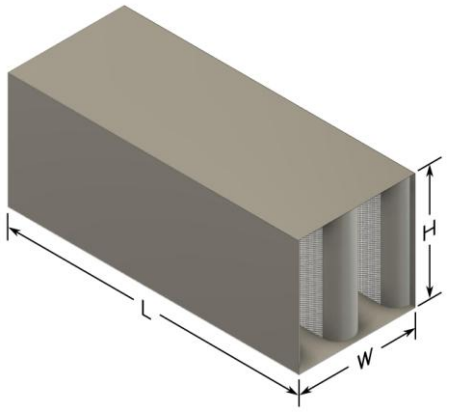
DYNAMIC SOUND CONTROL

Model Number: RD1208LC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Media Encapsulation: Polymer Film
Aerodynamic Class: Low Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	6	6	13	25	30	32	22	10
	0	4	5	12	24	29	31	22	9
	1000	3	5	11	22	28	31	23	9
60	-1000	7	10	20	37	45	39	31	12
	0	5	8	17	36	47	49	31	12
	1000	5	8	17	33	45	41	32	13
84	-1000	9	14	28	44	47	39	36	12
	0	6	11	25	45	49	50	36	14
	1000	5	11	23	43	48	42	37	14
120	-1000	9	20	37	46	46	39	40	16
	0	6	17	33	45	50	51	41	17
	1000	5	16	31	46	48	42	42	18

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1000	60	51	50	52	52	50	44	37
	1000	58	54	52	53	52	50	46	38
60	-1000	63	51	48	50	54	54	50	45
	1000	63	55	53	53	52	51	47	39
84	-1000	61	51	51	53	53	54	50	46
	1000	60	52	51	51	51	51	47	42
120	-1000	60	51	50	52	54	55	50	44
	1000	65	58	53	52	51	52	47	41

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	750	1000	1500	1750
36	0.07	0.16	0.28	0.62	0.84
60	0.10	0.21	0.38	0.85	1.17
84	0.13	0.27	0.47	1.05	1.45
120	0.14	0.32	0.56	1.22	1.66

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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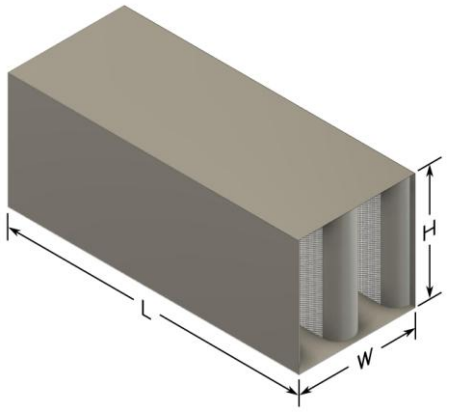
DYNAMIC SOUND CONTROL

Model Number: RD1125LC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Media Encapsulation: Polymer Film
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	4	5	10	14	14	12	8	5
	0	3	4	9	13	14	12	8	4
	1500	3	4	8	12	14	12	8	4
60	-1500	5	9	15	22	23	18	10	6
	0	3	8	14	22	22	18	10	6
	1500	3	7	13	21	22	19	10	5
84	-1500	7	10	17	25	32	25	12	6
	0	6	10	19	26	32	26	12	7
	1500	6	9	17	24	31	27	12	7
120	-1500	5	15	27	44	42	29	13	7
	0	5	14	25	44	41	30	13	7
	1500	4	13	24	41	41	31	13	7

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	64	56	53	52	50	50	44	36
	1500	61	57	53	51	50	51	46	38
60	-1500	65	54	51	51	52	52	46	37
	1500	62	56	50	48	48	48	44	36
84	-1500	62	50	47	47	50	52	47	40
	1500	62	54	47	45	48	50	46	40
120	-1500	62	55	54	52	51	48	43	34
	1500	61	55	51	48	48	47	43	36

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.03	008	0.18	0.32	0.50
60	0.03	0.09	0.21	0.36	0.57
84	0.03	0.10	0.23	0.41	0.64
120	0.03	0.11	0.24	0.42	0.66

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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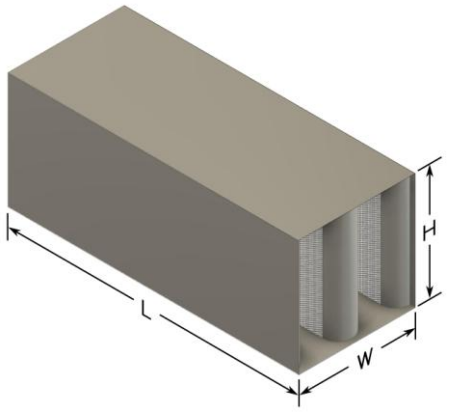
DYNAMIC SOUND CONTROL

Model Number: RD1225LC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Media Encapsulation: Polymer Film
Aerodynamic Class: Medium Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	2	3	7	17	24	21	14	6
	0	0	2	6	17	24	21	13	6
	1500	0	2	6	15	23	21	13	6
60	-1500	5	5	10	24	39	35	17	7
	0	3	4	8	22	38	34	16	7
	1500	3	4	8	21	37	34	17	7
84	-1500	3	9	17	35	46	42	20	8
	0	2	7	15	34	46	49	20	9
	1500	2	6	14	31	44	44	21	9
120	-1500	5	13	24	43	46	37	27	11
	0	5	11	23	45	50	49	27	12
	1500	3	10	20	41	49	42	29	12

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-1500	65	55	53	56	55	52	46	38
	1500	66	58	55	53	51	50	45	39
60	-1500	67	55	54	54	53	51	44	37
	1500	63	56	52	51	50	49	45	37
84	-1500	66	55	54	53	51	51	45	39
	1500	64	54	48	48	49	49	43	37
120	-1500	65	54	53	55	54	56	52	46
	1500	63	57	52	51	50	51	47	43

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)				
	Face Velocity (fpm)			
Length (in)	500	1000	1500	2000
36	0.02	0.09	0.19	0.33
60	0.03	0.10	0.23	0.40
84	0.03	0.13	0.27	0.41
120	0.04	0.17	0.37	0.66

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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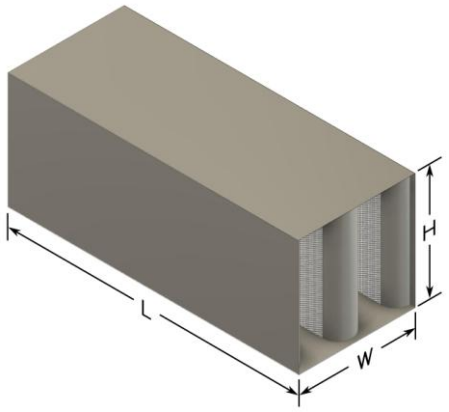
DYNAMIC SOUND CONTROL

Model Number: RD1242LC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Media Encapsulation: Polymer Film
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	3	3	4	10	16	15	10	4
	0	1	1	3	9	16	14	9	4
	2000	1	1	3	8	15	15	9	4
60	-2000	4	4	6	15	29	26	13	5
	0	3	3	5	13	29	25	12	6
	2000	2	3	4	13	27	25	13	5
84	-2000	4	6	9	21	39	39	16	7
	0	2	5	8	20	40	41	15	8
	2000	1	4	7	18	36	35	16	7
120	-2000	6	7	12	27	43	37	17	7
	0	5	6	10	25	47	50	17	8
	2000	4	5	9	23	45	41	18	8

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	68	59	54	56	54	52	48	39
	2000	65	63	56	54	53	51	46	40
60	-2000	68	58	54	56	56	54	47	39
	2000	66	61	55	51	50	49	44	37
84	-2000	68	57	55	55	54	54	49	43
	2000	66	60	54	54	53	52	47	41
120	-2000	68	57	54	56	57	56	49	41
	2000	66	60	53	54	53	52	48	42

Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.04	0.08	0.15	0.21
60	0.01	0.04	0.09	0.15	0.23
84	0.01	0.05	0.11	0.20	0.32
120	0.01	0.06	0.12	0.21	0.33

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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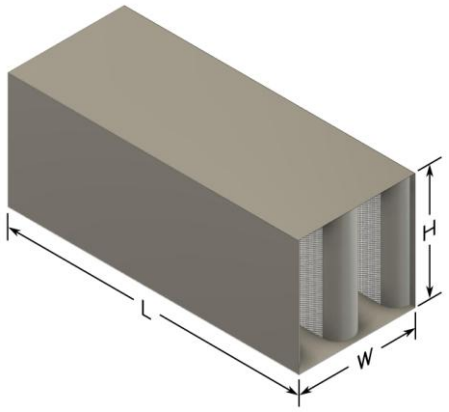
DYNAMIC SOUND CONTROL

Model Number: RD1142LC

Rectangular Dissipative Silencer
Acoustic Media: Recycled Cotton
Media Encapsulation: Polymer Film
Aerodynamic Class: High Velocity



Dynamic Insertion Loss (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	4	3	6	11	11	9	6	3
	0	2	2	5	11	11	8	6	3
	2500	1	1	5	10	11	9	6	3
60	-2000	4	4	9	18	17	12	7	3
	0	3	3	8	18	16	11	7	3
	2500	2	3	7	16	17	12	7	3
84	-2000	4	5	12	25	23	14	8	5
	0	3	4	11	26	22	14	8	5
	2500	2	4	11	23	23	15	9	5
120	-2000	5	6	13	30	29	18	9	5
	0	4	4	12	30	27	18	9	5
	2500	2	4	11	28	28	19	10	5

Inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Airflow Generated Noise (dB)									
Length (in)	Face Velocity (fpm)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
36	-2000	68	57	52	50	50	50	47	37
	2500	72	67	60	54	52	55	53	48
60	-2000	67	56	52	50	49	50	51	39
	2500	71	66	58	52	51	54	53	49
84	-2000	69	57	54	51	51	51	45	38
	2500	71	66	57	53	54	56	53	48
120	-2000	68	58	55	54	53	51	47	40
	2500	71	66	59	55	53	55	53	49

Under test conditions, the airflow noise of this silencer model is either indistinguishable from background noise in the test room or masked by the inherent limitations of the measurement equipment. Actual levels are less than or equal to the levels indicated. Inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies.

Adjust the Airflow Generated Noise by the values according to face area in the table below.

Face Area (sq.ft.)	1	2	4	8	16	32	64
dB	-6	-3	0	+3	+6	+9	+12

Pressure Drop (in wg)					
	Face Velocity (fpm)				
Length (in)	500	1000	1500	2000	2500
36	0.01	0.03	0.07	0.12	0.19
60	0.01	0.03	0.07	0.13	0.20
84	0.01	0.04	0.08	0.14	0.22
120	0.01	0.04	0.09	0.16	0.26

Pressure drop does not include system effects.
Shaded pressure drop values exceed 0.35 and are not recommended.

General Notes:

1. Data tables are derived from data acquired in an NVLAP certified laboratory according to ASTM E477-20.
2. Dynamic Insertion Loss is limited to 55 dB due to flanking.
3. "+" indicates performance data for forward flow (supply air) applications.
4. "-" indicates performance data for reverse flow (return air) applications.

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