QA/QAF

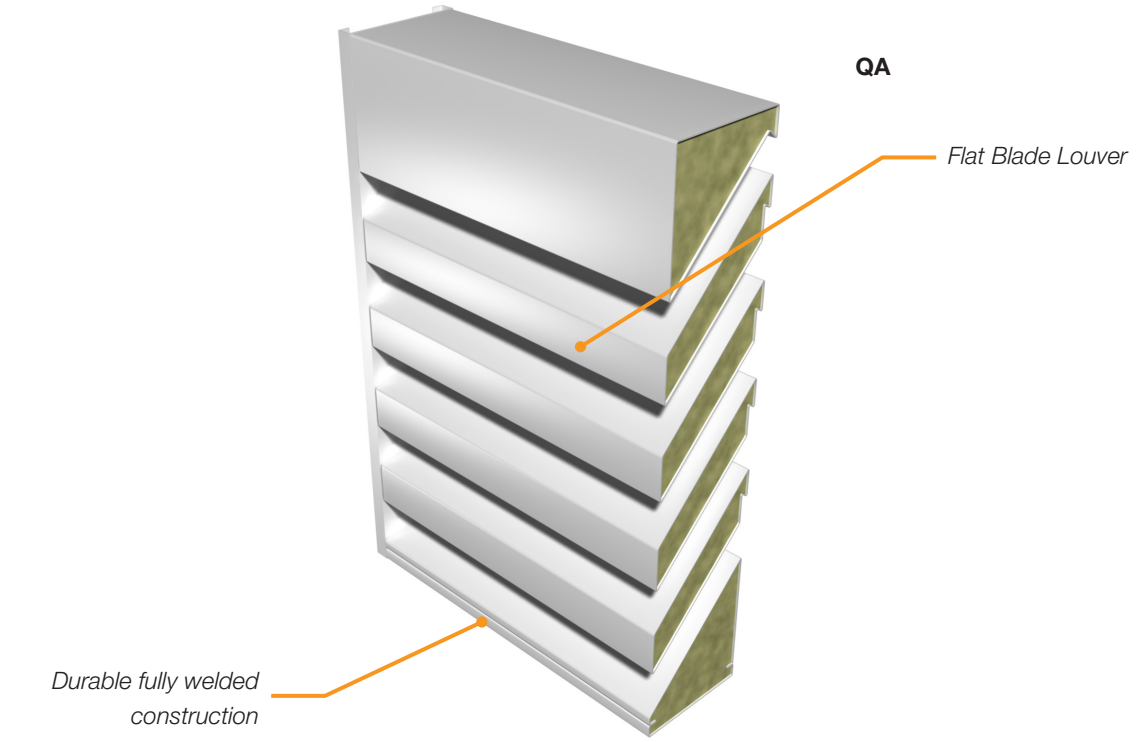
ACOUSTICAL LOUVERS

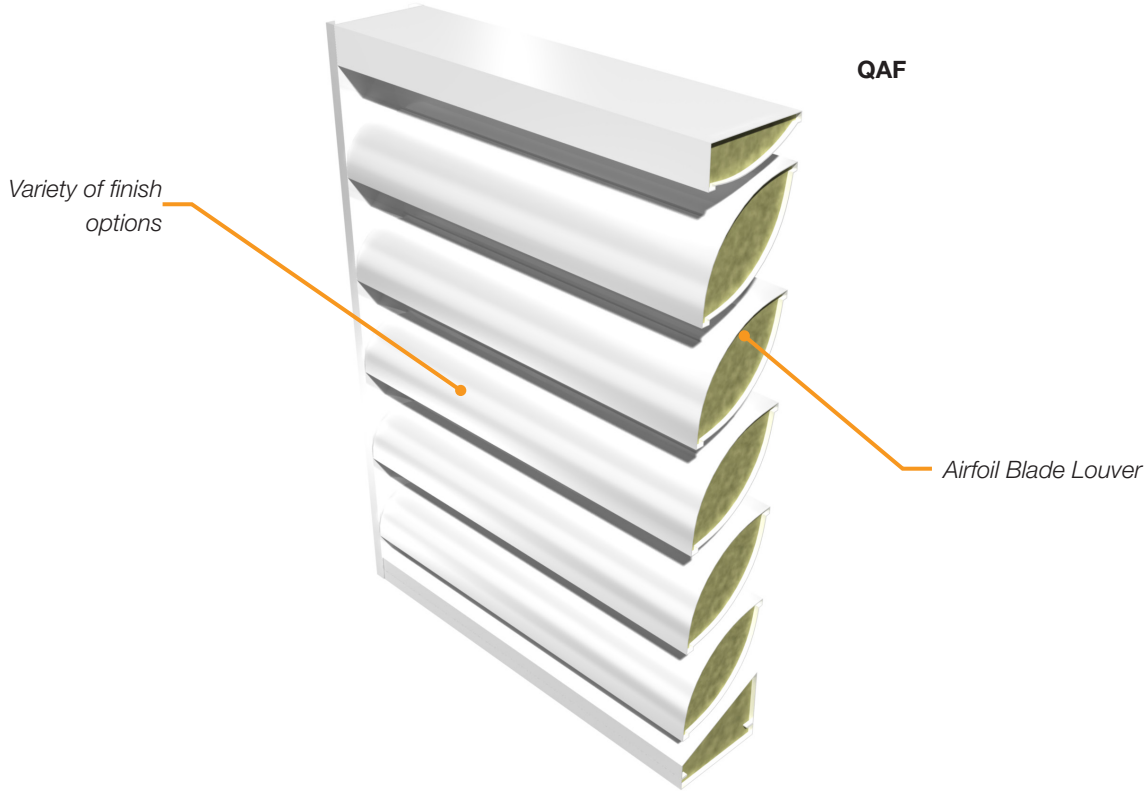


price | NOISE CONTROL

QA/QAF
Acoustical Louvers

Acoustical louvers are an attractive way to provide ventilation as well as sound attenuation. The aerodynamically designed internal geometry allows air to flow through with minimal pressure drop and maximum sound attenuation. Acoustic louvers are available in a variety of sizes and finishes allowing this product to be used in any application and meet architectural requirements.





SUPERIOR PERFORMANCE

+ Both blade and airfoil type louvers feature optimized geometry to help promote airflow while also providing high insertion loss.
+ Performance data is available for 6, 8 and 12 inch deep louvers.
    - **Flat Blade Louvers** – are the more economical option and are well suited to low velocity applications.



    - **Airfoil Blade Louvers** – these efficient louvers are well suited to high velocity applications or those that cannot accommodate a high pressure drop.

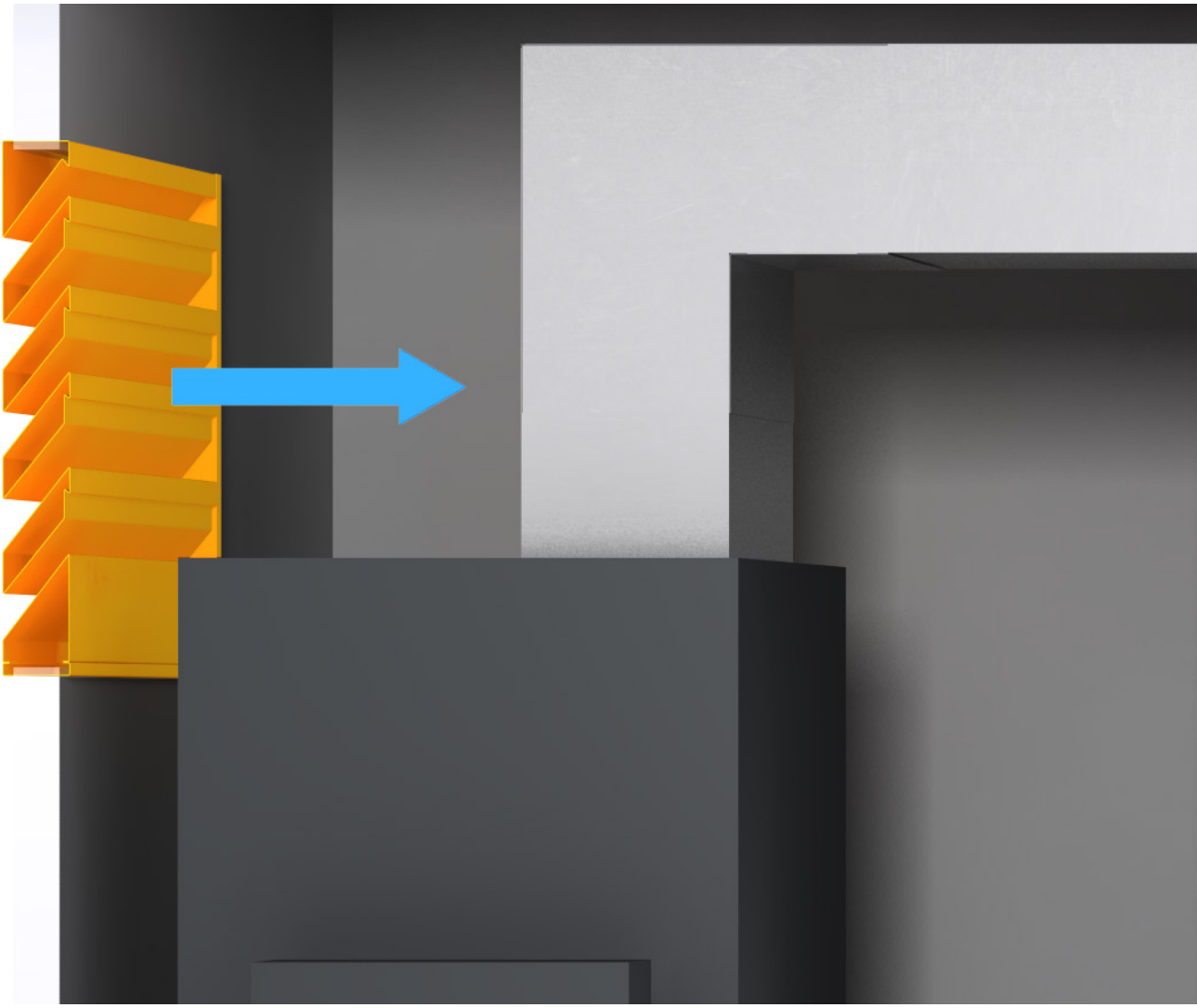


TYPICAL APPLICATIONS

Acoustical Louvers provide a solution for applications that require efficient ventilation without the transfer of undesirable noise. Acoustical Louvers are ideal for air intake and exhaust openings as well as ventilation openings in mechanical equipment rooms or acoustic enclosures.

OPTIONS

+ Blade style
    - Flat (QA)
    - Airfoil (QAF)
+ Material
    - Aluminum
    - Galvanneal
    - Stainless Steel
+ Finish
    - Duracron Bake Enamel
    - Duranar High Performance Flouropolymer
    - Anodizing (clear or colour)
+ Accessories
    - Bird and insect screens
    - Flanges up to 4 in.
    - Extended sill (loose)
    - Blank-offs (optional insulation)
    - Exterior or interior frame mounting



DURABLE CONSTRUCTION

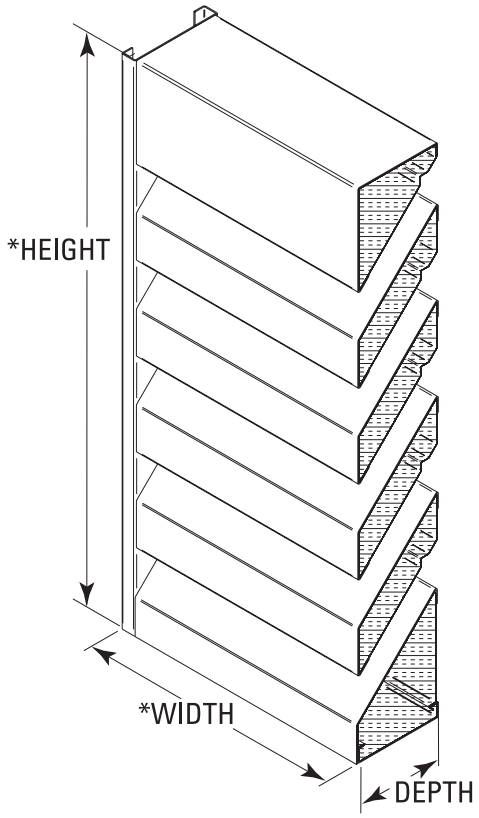
+ Acoustic louvers feature formed aluminum blades and fully welded, high quality construction that is able to withstand harsh outdoor conditions.

CUSTOMIZABLE

+ Available in a large range of sizes, acoustic louvers offer excellent flexibility, with a variety of durable finish options and two louver styles.
+ Acoustic louvers that exceed a width of 72 in. or a height of 96 in. will be built in multiple sections, then field assembled (by others). Multiple section assemblies have mullions between them.

DIMENSIONAL DATA

Acoustic louvers are built to match the overall dimension less a half inch, therefore the width, height and length must always be specified. Acoustic louvers may also be ordered as actual size. Please consult the Standard Dimension Limits chart below for available sizes.



* Overall width and height dimensions typically less $^{1}/_{2}$ inch.

Model Size	Depth	Width		Height	
		Minimum	Maximum	Minimum	Maximum
QA645	6	12	72	14.5	96
QA845	8	12	72	16.5	96
QA1245	12	12	72	20.5	96
QAF845	8	12	72	15.5	96
QAF1245	12	12	72	19.5	96

1. All dimensions are in inches.
2. Standard sizes are based on raw material sizes and acceptable structural engineering practices.
3. For sizes outside the standard range, please contact your local Price sales rep.
4. Maximum section sizes may vary for steel or stainless steel construction, or for units with anodized finishes. Please contact your Price sales rep for details.

PERFORMANCE DATA

Model QAF845

Acoustic Performance Ratings

	Measured at Octave Band Center Frequencies					
	125 Hz	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**
Free-Field Noise Reduction (dB)	11	13	16	21	18	14
Transmission Loss (dB)	5	7	10	15	12	8

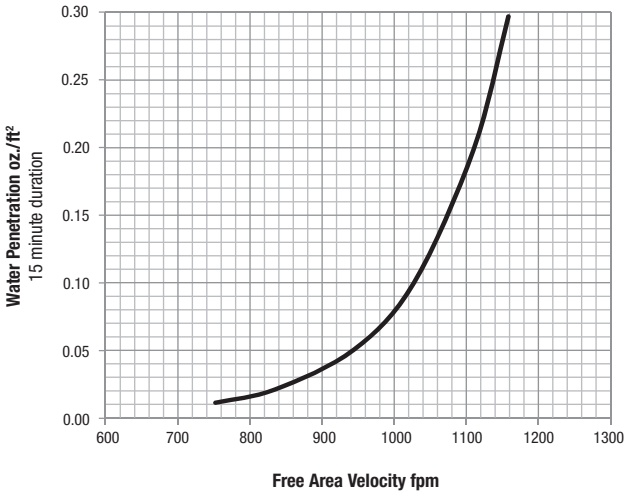
Performance Notes:

1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
2. Free Field Noise Reduction = Transmission Loss + 6 dB
3. Sound Transmission Class (STC) = 12, obtained in accordance with ASTM E413.

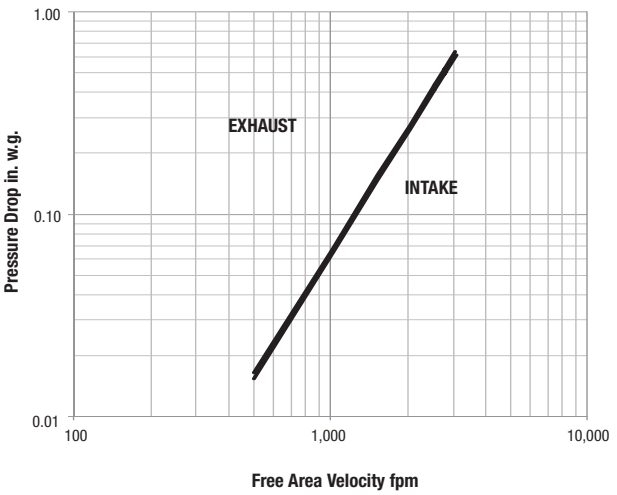
Free Area (sq. ft.)

Height in.	**Width in.**										
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
18	0.28	0.45	0.63	0.80	0.97	1.14	1.31	1.48	1.65	1.82	1.99
24	0.45	0.73	1.00	1.27	1.55	1.82	2.09	2.37	2.64	2.91	3.18
30	0.45	0.73	1.00	1.27	1.55	1.82	2.09	2.36	2.64	2.91	3.18
36	0.63	1.00	1.38	1.75	2.13	2.50	2.88	3.25	3.63	4.00	4.38
42	0.80	1.27	1.75	2.23	2.71	3.18	3.66	4.14	4.62	5.09	5.57
48	0.97	1.55	2.13	2.71	3.29	3.87	4.44	5.02	5.60	6.18	6.76
54	0.97	1.55	2.13	2.71	3.29	3.87	4.44	5.02	5.60	6.18	6.76
60	1.14	1.82	2.50	3.18	3.86	4.55	5.23	5.91	6.59	7.28	7.96
66	1.31	2.09	2.88	3.66	4.44	5.23	6.01	6.80	7.58	8.37	9.15
72	1.48	2.36	3.25	4.14	5.02	5.91	6.80	7.68	8.57	9.46	10.34
78	1.48	2.36	3.25	4.14	5.02	5.91	6.80	7.68	8.57	9.46	10.34
84	1.65	2.64	3.63	4.61	5.60	6.59	7.58	8.57	9.56	10.55	11.54
90	1.82	2.91	4.00	5.09	6.18	7.27	8.37	9.46	10.55	11.64	12.73
96	1.99	3.18	4.38	5.57	6.76	7.96	9.15	10.34	11.54	12.73	13.92

Water Penetration Rating
Louver test size 48 in. x 48 in.
748 fpm beginning of water penetration



Air Performance Rating
Louver test size 48 in. x 48 in.



Performance Notes:

1. Beginning point of water penetration is defined by AMCA standard 511 as the free area velocity at which 0.01 ounces of water per square foot of free area is measured to pass through a 4' x 4' louver during a 15 minute test.
2. Data corrected to standard air density and tested to AMCA 500-L figure 5.5.

PERFORMANCE DATA

Model QAF1245

Acoustic Performance Ratings

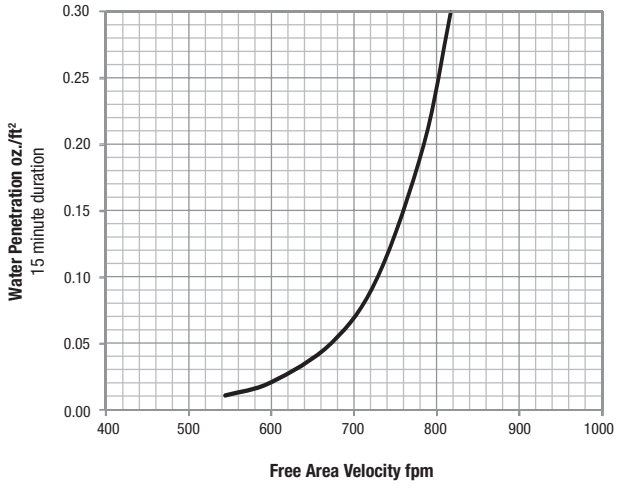
	Measured at Octave Band Center Frequencies					
	125 Hz	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**
Free-Field Noise Reduction (dB)	13	15	20	21	18	14
Transmission Loss (dB)	7	9	14	15	12	8

Performance Notes:
1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
2. Free Field Noise Reduction = Transmission Loss + 6 dB
3. Sound Transmission Class (STC) = 12, obtained in accordance with ASTM E413.

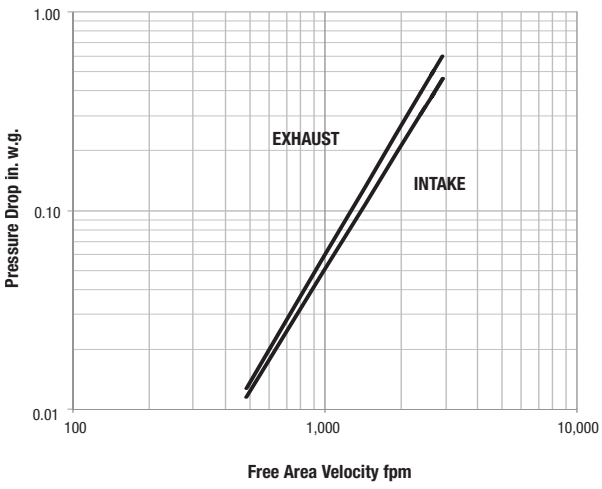
Free Area (sq. ft.)

Height in.	**Width in.**										
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
24	0.38	0.61	0.84	1.07	1.30	1.52	1.75	1.98	2.21	2.44	2.67
30	0.60	0.61	0.84	1.07	1.30	1.52	1.75	1.98	2.21	2.44	2.67
36	0.60	0.97	1.33	1.69	2.06	2.42	2.78	3.14	3.51	3.87	4.23
42	0.83	0.97	1.33	1.69	2.06	2.42	2.78	3.14	3.51	3.87	4.23
48	0.83	1.33	1.82	2.32	2.82	3.31	3.90	4.31	4.80	5.30	5.80
54	1.05	1.33	1.82	2.32	2.82	3.31	3.90	4.31	4.80	5.30	5.80
60	1.05	1.68	2.31	2.95	3.58	4.21	4.84	5.47	6.10	6.73	7.36
66	1.28	1.68	2.31	2.95	3.58	4.21	4.84	5.47	6.10	6.73	7.36
72	1.28	2.04	2.81	3.57	4.34	5.10	5.87	6.63	7.40	8.16	8.93
78	1.50	2.04	2.81	3.57	4.34	5.10	5.87	6.63	7.40	8.16	8.93
84	1.50	2.40	3.30	4.20	5.10	6.00	6.90	7.80	8.70	9.60	10.50
90	1.72	2.40	3.30	4.20	5.10	6.00	6.90	7.80	8.70	9.60	10.50
96	1.72	2.76	3.79	4.82	5.86	6.89	7.93	8.96	9.99	11.03	12.06

Water Penetration Rating
Louver test size 48 in. x 48 in.
546 fpm beginning of water penetration



Air Performance Rating
Louver test size 48 in. x 48 in.



Performance Notes:
1. Beginning point of water penetration is defined by AMCA standard 511 as the free area velocity at which 0.01 ounces of water per square foot of free area is measured to pass through a 4' x 4' louver during a 15 minute test.
2. Data corrected to standard air density and tested to AMCA 500-L figure 5.5.

PERFORMANCE DATA

Model QA645

Acoustic Performance Ratings

	Measured at Octave Band Center Frequencies					
	125 Hz	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**
Free-Field Noise Reduction (dB)	10	10	13	20	21	17
Transmission Loss (dB)	4	4	7	14	15	11

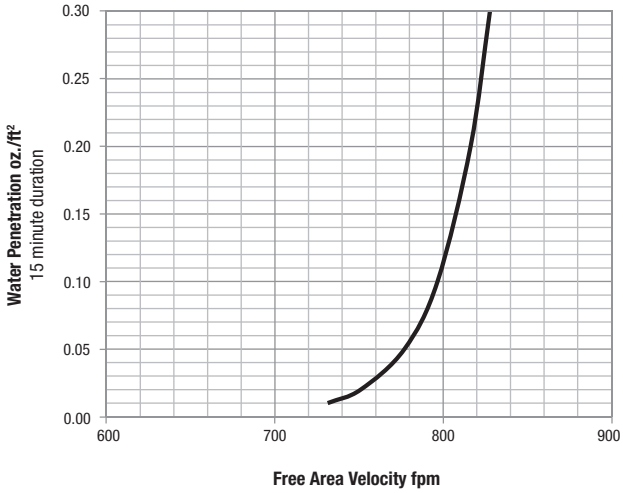
Performance Notes:

1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
2. Free Field Noise Reduction = Transmission Loss + 6 dB
3. Sound Transmission Class (STC) = 12, obtained in accordance with ASTM E413.

Free Area (sq. ft.)

Height in.	**Width in.**										
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
18	0.28	0.44	0.61	0.77	0.94	1.10	1.27	1.43	1.60	1.76	1.93
24	0.41	0.66	0.91	1.16	1.41	1.66	1.91	2.16	2.41	2.65	2.90
30	0.55	0.89	1.22	1.55	1.88	2.22	2.55	2.88	3.21	3.55	3.88
36	0.69	1.11	1.53	1.94	2.36	2.78	3.19	3.61	4.02	4.44	4.86
42	0.83	1.33	1.83	2.33	2.83	3.33	3.83	4.33	4.83	5.33	5.83
48	0.97	1.56	2.14	2.72	3.31	3.89	4.48	5.06	5.64	6.23	6.81
54	1.11	1.78	2.45	3.12	3.78	4.45	5.12	5.79	6.45	7.12	7.79
60	1.25	2.00	2.75	3.51	4.26	5.01	5.76	6.51	7.26	8.01	8.77
66	1.39	2.23	3.06	3.90	4.73	5.57	6.40	7.24	8.07	8.91	9.74
72	1.53	2.45	3.37	4.29	5.21	6.13	7.04	7.96	8.88	9.80	10.72
78	1.67	2.67	3.68	4.68	5.68	6.68	7.69	8.69	9.69	10.69	11.70
84	1.81	2.90	3.98	5.07	6.16	7.24	8.33	9.41	10.50	11.59	12.67
90	1.95	3.12	4.29	5.46	6.63	7.80	8.97	10.14	11.31	12.48	13.65
96	2.09	3.34	4.60	5.85	7.11	8.36	9.61	10.87	12.12	13.37	14.63

Water Penetration Rating
Louver test size 48 in. x 48 in.
734 fpm beginning of water penetration



Air Performance Rating
Louver test size 48 in. x 48 in.



Performance Notes:

1. Beginning point of water penetration is defined by AMCA standard 511 as the free area velocity at which 0.01 ounces of water per square foot of free area is measured to pass through a 4' x 4' louver during a 15 minute test.
2. Data corrected to standard air density and tested to AMCA 500-L figure 5.5.

PERFORMANCE DATA

Model QA845

Acoustic Performance Ratings

	Measured at Octave Band Center Frequencies					
	125 Hz	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**
Free-Field Noise Reduction (dB)	10	11	15	24	25	19
Transmission Loss (dB)	4	5	9	18	19	13

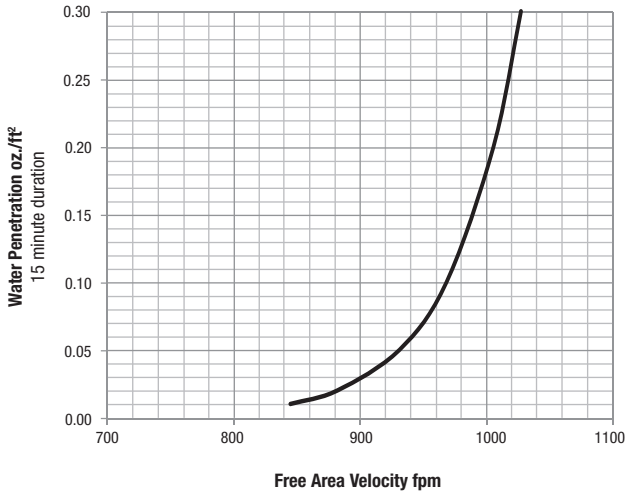
Performance Notes:

1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
2. Free Field Noise Reduction = Transmission Loss + 6 dB
3. Sound Transmission Class (STC) = 14, obtained in accordance with ASTM E413.

Free Area (sq. ft.)

Height in.	**Width in.**										
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
18	0.25	0.40	0.56	0.71	0.86	1.01	1.16	1.31	1.47	1.62	1.77
24	0.39	0.63	0.86	1.10	1.33	1.57	1.80	2.04	2.27	2.51	2.75
30	0.53	0.85	1.17	1.49	1.81	2.13	2.45	2.77	3.08	3.40	3.72
36	0.67	1.07	1.48	1.88	2.28	2.69	3.09	3.49	3.89	4.30	4.70
42	0.81	1.30	1.78	2.27	2.76	3.24	3.73	4.22	4.70	5.19	5.68
48	0.95	1.52	2.09	2.66	3.23	3.80	4.37	4.94	5.51	6.08	6.65
54	1.09	1.74	2.40	3.05	3.71	4.36	5.01	5.67	6.32	6.98	7.63
60	1.23	1.97	2.71	3.44	4.18	4.92	5.66	6.39	7.13	7.87	8.61
66	1.37	2.19	3.01	3.83	4.66	5.48	6.30	7.12	7.94	8.76	9.58
72	1.51	2.41	3.32	4.22	5.13	6.04	6.94	7.85	8.75	9.66	10.56
78	1.65	2.64	3.63	4.62	5.60	6.59	7.58	8.57	9.56	10.55	11.54
84	1.79	2.86	3.93	5.01	6.08	7.15	8.22	9.30	10.37	11.44	12.52
90	1.93	3.08	4.24	5.40	6.55	7.71	8.87	10.02	11.18	12.34	13.49
96	2.07	3.31	4.55	5.79	7.03	8.27	9.51	10.75	11.99	13.23	14.47

Water Penetration Rating
Louver test size 48 in. x 48 in.
847 fpm beginning of water penetration



Air Performance Rating
Louver test size 48 in. x 48 in.



Performance Notes:

1. Beginning point of water penetration is defined by AMCA standard 511 as the free area velocity at which 0.01 ounces of water per square foot of free area is measured to pass through a 4' x 4' louver during a 15 minute test.
2. Data corrected to standard air density and tested to AMCA 500-L figure 5.5.

PERFORMANCE DATA

Model QA1245

Acoustic Performance Ratings

	Measured at Octave Band Center Frequencies					
	125 Hz	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**
Free-Field Noise Reduction (dB)	11	12	17	28	32	23
Transmission Loss (dB)	5	6	11	22	26	17

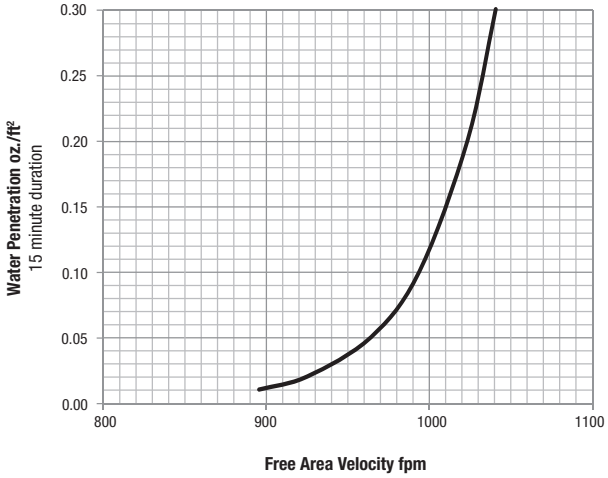
Performance Notes:

1. Test data obtained in accordance with ASTM E90 test standard for Transmission Loss.
2. Free Field Noise Reduction = Transmission Loss + 6 dB
3. Sound Transmission Class (STC) = 17, obtained in accordance with ASTM E413.

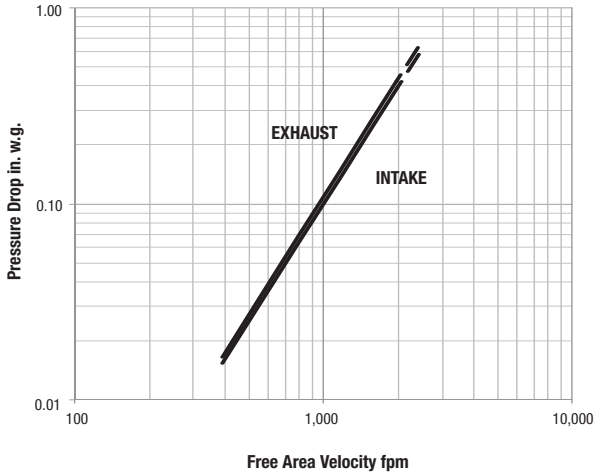
Free Area (sq. ft.)

Height in.	**Width in.**										
	12	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
24	0.28	0.44	0.61	0.77	0.94	1.10	1.27	1.43	1.60	1.76	1.93
30	0.41	0.66	0.91	1.16	1.41	1.66	1.91	2.16	2.41	2.65	2.90
36	0.55	0.89	1.22	1.55	1.88	2.22	2.55	2.88	3.21	3.55	3.88
42	0.69	1.11	1.53	1.94	2.36	2.78	3.19	3.61	4.02	4.44	4.86
48	0.83	1.33	1.83	2.33	2.83	3.33	3.83	4.33	4.83	5.33	5.83
54	0.97	1.56	2.14	2.72	3.31	3.89	4.48	5.06	5.64	6.23	6.81
60	1.11	1.78	2.45	3.12	3.78	4.45	5.12	5.79	6.45	7.12	7.79
66	1.25	2.00	2.75	3.51	4.26	5.01	5.76	6.51	7.26	8.01	8.77
72	1.39	2.23	3.06	3.90	4.73	5.57	6.40	7.24	8.07	8.91	9.74
78	1.53	2.45	3.37	4.29	5.21	6.13	7.04	7.96	8.88	9.80	10.72
84	1.67	2.67	3.68	4.68	5.68	6.68	7.69	8.69	9.69	10.69	11.70
90	1.81	2.90	3.98	5.07	6.16	7.24	8.33	9.41	10.50	11.59	12.67
96	1.95	3.12	4.29	5.46	6.63	7.80	8.97	10.14	11.31	12.48	13.65

Water Penetration Rating
Louver test size 48 in. x 48 in.
896 fpm beginning of water penetration



Air Performance Rating
Louver test size 48 in. x 48 in.



Performance Notes:

1. Beginning point of water penetration is defined by AMCA standard 511 as the free area velocity at which 0.01 ounces of water per square foot of free area is measured to pass through a 4' x 4' louver during a 15 minute test.
2. Data corrected to standard air density and tested to AMCA 500-L figure 5.5.

price | NOISE CONTROL

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