

Model: IC-638

ASTM E330-02
TAS 202-94
FL#: FL11048.2

Extruded Aluminum Louver – Mounting Option #1 Shown

APPLICATION:

IC-638 is an extruded louver designed specifically to meet the following test requirements and protocols:

- **ASTM E330-02** (Uniform Static Air Pressure Test)
- **TAS 202-94** (Uniform Static Air Pressure Test)

Based on single section testing of 84" w x 120" h and 48" x 48" samples with a maximum design load pressure of 60-psf.

STANDARD SPECIFICATIONS:

Frame: Heavy gauge 6" x .125" thick 6063T5 extruded aluminum.

Blade: Drainable design .125" thick 6063T5 extruded aluminum, mechanically fastened, set on 38° angles. (Bottom blade opening varies).

Birdscreen: Standard .0516 x 3/4" flattened expanded aluminum.

Anchor Clips: 2" x 2" x 3/16" x 2" long.

Vertical Blade Support: 1 support on any louver bigger than 48" x 48"

MINIMUM SIZE:

12" w X 12" h

MAXIMUM SIZE:

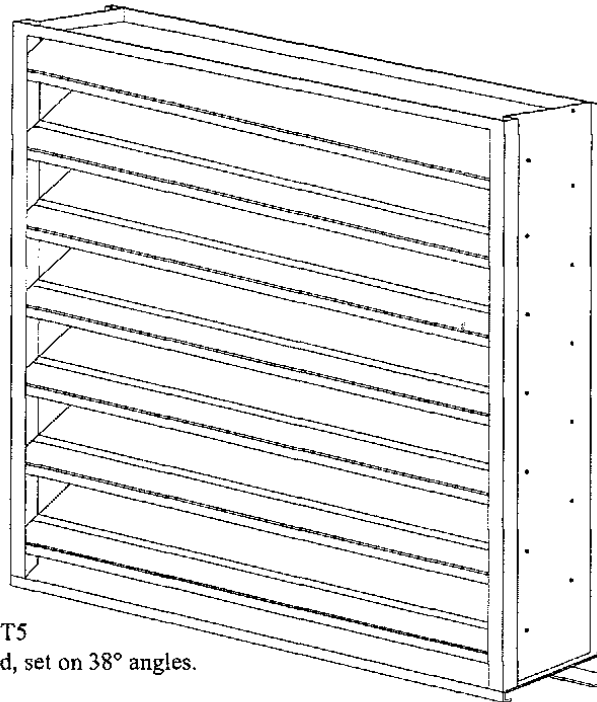
84" w X 120" h Single Section.
Unlimited width x 120" h sectional.

OPTIONS:

- Insect Screen
- Mill Finish (Standard)
- Enamel Finish
- Kynar Finish
- Anodized Finish
- Approved Wedge Anchors

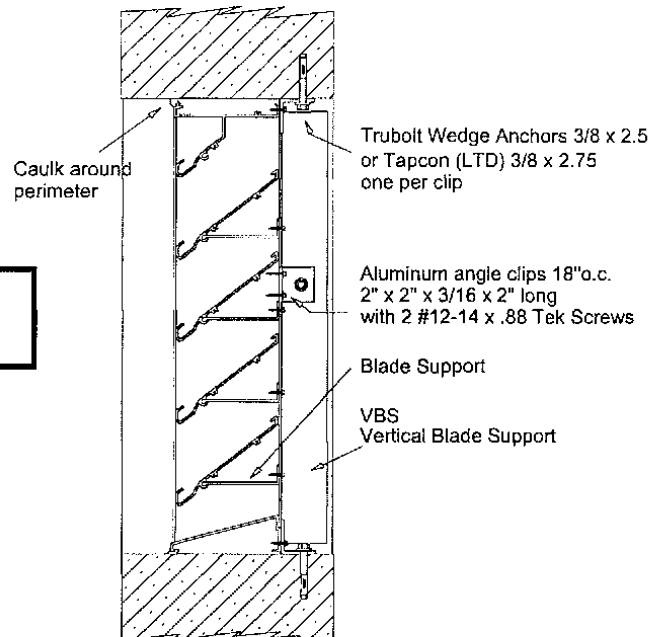
FEATURES:

- Louver may be used in approved masonry or wood structure walls.
- 57% Free Area
- Published performance ratings based on testing in accordance with AMCA Standard 500-L



Max Wind load ±60 psf

**Mounting
Option
#1**



57% Free Area

Note: All IC-638 louvers are built 1/2" under size both directions unless ordered actual size.



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Model: IC-638

Extruded Aluminum Louver – Mounting Option #2 Shown

ASTM E330-02
TAS 202-94
FL#: FL11048.2

APPLICATION:

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- **ASTM E330-02** (Uniform Static Air Pressure Test)
- **TAS 202-94** (Uniform Static Air Pressure test)

Based on single section testing of an 84" w x 120" h and a 48" w x 48" h sample with a maximum design load pressure of 60-psf.

STANDARD SPECIFICATIONS:

Frame: Heavy gauge 6" x .125" thick 6063T5 extruded aluminum. Flanged Bottom Sill.

Blade: Drainable design .125" thick 6063T5 extruded aluminum, mechanically fastened to jambs, set on 38° angles. Blades are spaced at 4.75" apart. (Bottom blade opening varies).

Birdscreen: Standard .0516 x 3/4" flattened expanded aluminum.

Anchor Clips: 2" x 2" x 3/16" x 2" long.

Vertical Blade Support: 1 support on any louver bigger than 48" x 48"

MINIMUM SIZE:

12" w X 12" h

MAXIMUM SIZE:

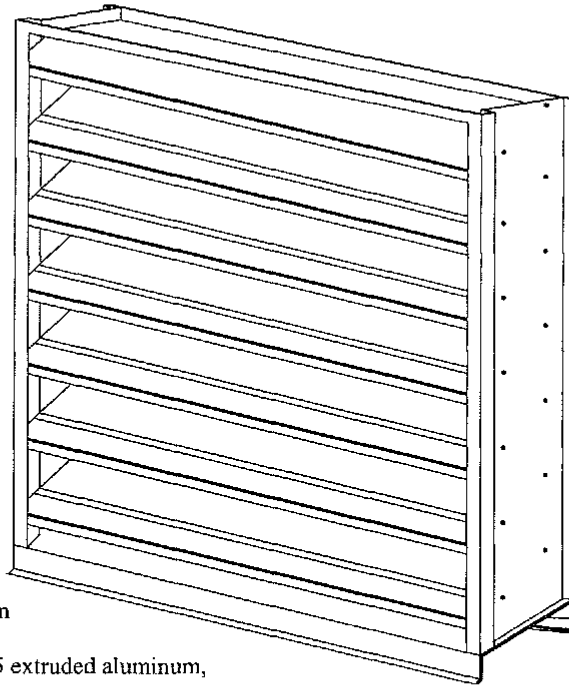
84" w X 120" h Single Section.
Unlimited width x 120" h sectional.

OPTIONS:

- Insect Screen
- Trim Flange
- Mill Finish (Standard)
- Enamel Finish
- Kynar Finish
- Anodized Finish
- Approved Wedge Anchors

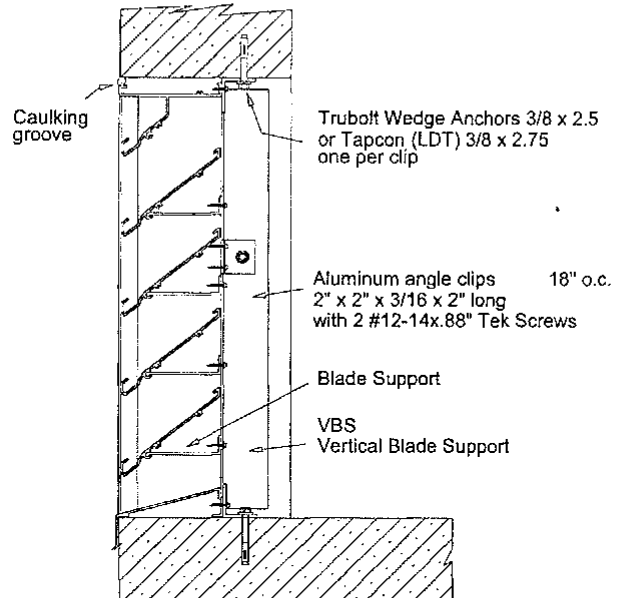
FEATURES:

- Built in bottom flange to divert water away from building.
- Louver may be used in approved masonry or wood structure walls.
- 57% Free Area
- Published performance ratings based on testing in accordance with AMCA Standard 500-L.



Max Wind load ±60 psf

Mounting Option #2



Note: All IC-638 louvers are built 1/2" under size both directions unless ordered actual size.



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Extruded Aluminum Louver – Mounting Option #3 Shown

ASTM E330-02
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- **ASTM E330-02** (Large Static Air Pressure Test)
- **TAS 202-94** (Uniform Static Air Pressure test)

Based on single section testing of an 84" w x 120" h and a 48" w x 48" h sample with a maximum design load pressure of 60-psf.

STANDARD SPECIFICATIONS:

Frame: Heavy gauge 6" x .125" thick 6063T5 extruded aluminum. Flanged Bottom Seal

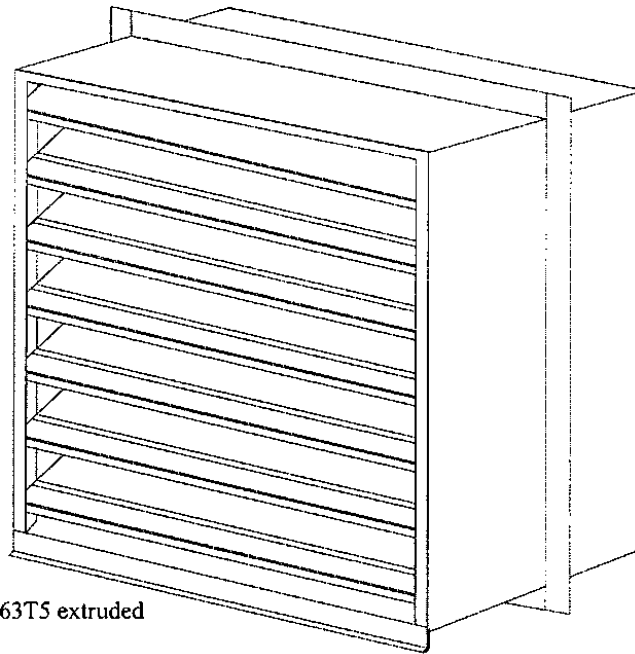
Blade: Drainable design .125" thick 6063T5 extruded aluminum, mechanically fastened to jambs, set on 38° angles. Blades are spaced at 4.75" apart. (Bottom blade opening varies).

Birdscreen: Standard .0516 x ¼" flattened expanded aluminum.

Aluminum Angle: 2" x 2" x 3/16".

10 ga. Aluminum Sleeve: 12" long min. – 24" long max.

Vertical Blade Support: 1 support on any louver bigger than 48" x 48"



Max Wind load ±60 psf

Mounting Option #3

MINIMUM SIZE:

12" w X 12" h

57% Free Area

MAXIMUM SIZE:

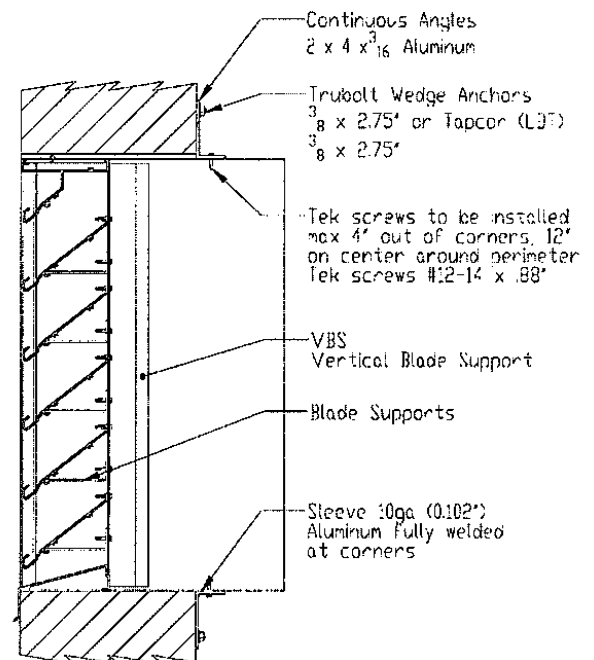
84" w X 120" h Single Section. Unlimited width x 120" h sectional.

OPTIONS:

- | | | |
|--------------------|-------------------|--------------------------|
| { Insect Screen | { Enamel Finish | { Mill Finish (Standard) |
| { Trim Flange | { Kynar Finish | { Approved Wedge Anchors |
| { Non-Flanged Sill | { Anodized Finish | { Sleeve Length Inches |

FEATURES:

- Built in bottom flange to divert water away from building.
- Louver may be used in approved masonry or wood structure walls.
- 57% Free Area
- Published performance ratings based on testing in accordance with AMCA Standard 500-L.



Note: All IC-638 louvers are built ½" under size both directions unless ordered actual size. Sleeved louvers are built ½" under size both directions to outside of sleeves unless ordered actual size.



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Model: IC-638

Extruded Aluminum Louver – Mounting Option #4 Shown

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APPLICATION:

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- **ASTM E330-02** (Uniform Static Air Pressure Test)
- **TAS 202-94** (Uniform Static Air Pressure test)

Based on single section testing of an 84" w x 120" h and 48" w x 48" h sample with a maximum design load pressure of 60-psf.

STANDARD SPECIFICATIONS:

Frame: Heavy gauge 6" x .125" thick 6063T5 extruded aluminum. Flanged Bottom Seal
Blade: Drainable design .125" thick 6063T5 extruded aluminum, mechanically fastened to jambs, set on 38° angles. Blades are spaced at 4.75" apart. (Bottom blade opening varies).
Birdscreen: Standard .0516 x 3/4" flattened expanded aluminum.
Aluminum Angle: 2" x 2" x 3/16".
10 ga. Aluminum Sleeve: 12" long min. – 24" long max, with flange for ease of installation.
Vertical Blade Support: 1 support on any louver bigger than 48" x 48"

MINIMUM SIZE:

12" w X 12" h

57% Free Area

MAXIMUM SIZE:

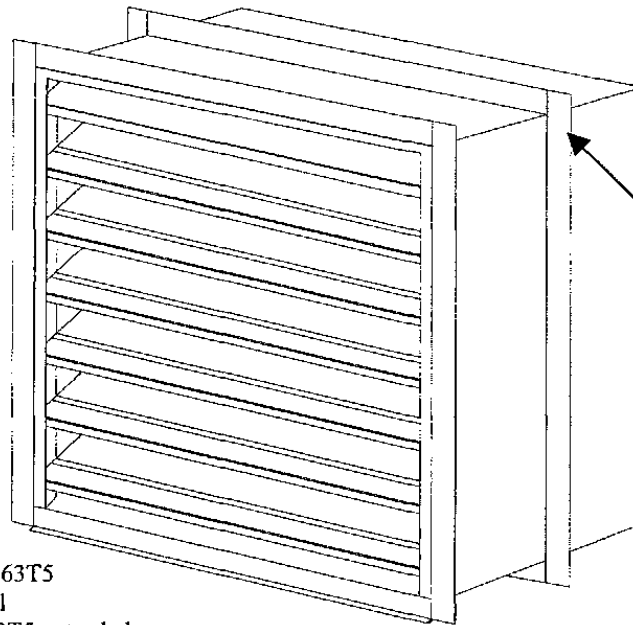
84" w X 120" h Single Section. Unlimited width x 120" h sectional.

OPTIONS:

- | | | |
|--------------------|-------------------|------------------------------|
| { Insect Screen | { Enamel Finish | { Mill Finish (Standard) |
| { Trim Flange | { Kynar Finish | { Sleeve Length Inches _____ |
| { Non-Flanged Sill | { Anodized Finish | |

FEATURES:

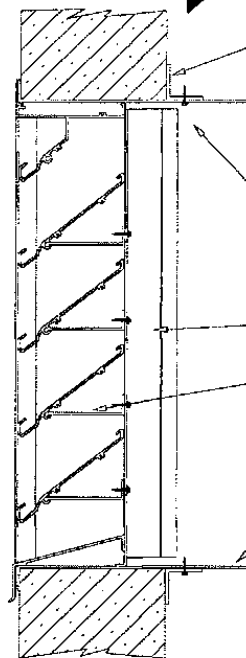
- Built in bottom flange to divert water away from building.
- Louver may be used in approved masonry or wood structure walls.
- 57% Free Area
- Published performance ratings based on testing in accordance with AMCA Standard 500-L.



Max Wind load ±60 psf

Ease of Installation!
IC-638-4 can be mounted without the use of mechanical fasteners to the substructure!

Mounting Option #4



Continuous Angles
2 x 2 x 3/16 Aluminum

installation.
Tek screws to be installed max 4" out of corners, 12" on center around perimeter
Tek screws #12-14 x .88"

VBS
Vertical Blade Support

Blade Supports

Flanged sleeve 10ga. Aluminum fully welded at corners

Flanged Sleeve mounting

Note: All IC-638 louvers are built 1/2" under size both directions unless ordered actual size. Sleeved louvers are built 1/2" under size both directions to outside of sleeves unless ordered actual size.



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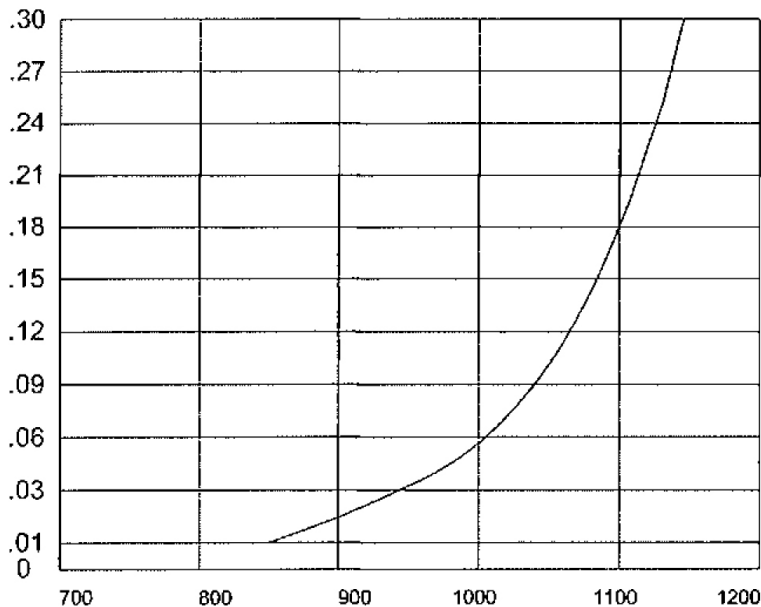
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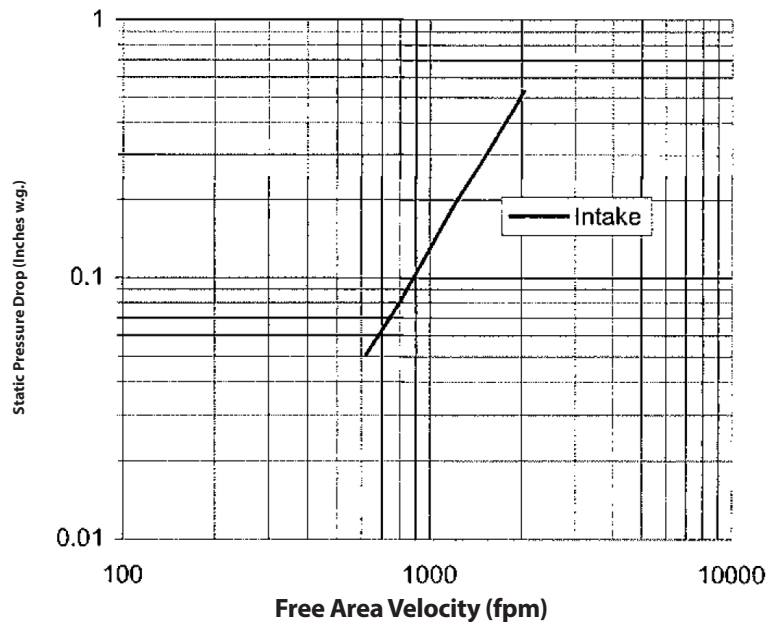


Water Penetration Chart



Water Penetration beginning point is 845.4 fpm Free Area Velocity. Data applies to test size of 48" x 48" IC-638 sample. Test duration was 15 min.

Airflow Resistance



Ratings do not include the effects of birdscreen. The graph above is based on a test size of 48" x 48"

Test Information

Tested in accordance with ANSI/AMCA 500-L, Figure 5.5 Test sample size is 1220 mm x 1220 mm (48 in. x 48 in.) Air performance data are based on intake performance



Aire Technologies, Inc. certifies that the model IC-638 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Seal applies to Water Penetration and Air Performance ratings only.

IC-638 Specifications

Louvers meeting the following specifications shall be furnished and installed where shown on the plans and or schedules. Louvers shall be stationary type with horizontal drainable blades in a 6 in. deep frame. Louvers shall conform to South Florida Building Code, (Miami Dade County), Protocols: PA 201-94, PA 202-94, and PA 203-94 based on a maximum design load of 160 lbs/sq ft. (Corresponds with a 250 mph wind), when mounted within a concrete, masonry block or structural steel framed opening. Louver blade and frame materials to be 0.125 in. thick 6063T5 extruded aluminum. Louver blades shall be positioned at 38° angles on approximately 4.75 in. centers. Louver blades shall be both mechanically fastened with Tek Screws and welded to the frame. All welding to louver blades shall be on backside to maintain aesthetic appearance. Louver sections for openings larger than 84 in. wide shall have factory supplied mullions contained within the jamb for smooth uninterrupted appearance. Louver performance data shall be licensed under the AMCA Certified Rating Program, and shall bear the AMCA Certified Ratings Seal. This licensed performance data shall include airflow pressure loss and water penetration, and shall demonstrate performance equal to or better than the Leader model specified.



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Model IC-638 Extruded Aluminum Louver

CFM and Free Area Selection Chart

		Louver Width (in.)												
		12	18	24	30	36	42	48	54	60	66	72	78	84
Louver Height (in.)	12	0.36 306	0.59 502	0.82 697	1.05 893	1.28 1088	1.52 1292	1.75 1488	1.98 1683	2.21 1879	2.44 2074	2.67 2270	2.91 2474	3.14 2669
	18	0.64 544	1.06 901	1.48 1258	1.89 1607	2.31 1964	2.73 2321	3.14 2669	3.49 2967	3.98 3383	4.39 3732	4.81 4089	5.23 4446	5.64 4794
	24	0.84 714	1.38 1173	1.92 1632	2.46 2091	3.01 2559	3.55 3018	4.09 3477	4.63 3936	5.18 4403	5.72 4862	6.26 5321	6.80 5780	7.35 6248
	30	1.12 952	1.85 1573	2.58 2193	3.30 2805	4.03 3426	4.76 4046	5.48 4658	6.21 5279	6.94 5899	7.66 6511	8.39 7132	9.12 7752	9.85 8373
	36	1.41 1199	2.32 1972	3.23 2746	4.14 3519	5.05 4293	5.97 5075	6.88 5848	7.79 6622	8.70 7395	9.61 8169	10.53 8951	11.44 9724	12.35 10498
	42	1.69 1437	2.78 2363	3.88 3298	4.98 4233	6.07 5160	7.17 6095	8.26 7021	9.36 7956	10.45 8883	11.55 9818	12.64 10744	13.74 11679	14.83 12606
	48	1.86 1581	3.07 2610	4.28 3638	5.49 4667	6.70 5695	7.90 6715	9.11 7744	10.32 8772	11.53 9801	12.74 10829	13.95 11858	15.15 12878	16.36 13906
	54	2.17 1845	3.57 3035	4.98 4233	6.38 5423	7.79 6622	9.20 7820	10.60 9010	12.01 10209	13.41 11399	14.82 12597	16.23 13796	17.63 14986	19.04 16184
	60	2.45 2083	4.04 3434	5.63 4786	7.22 6137	8.81 7489	10.40 8840	11.99 10192	13.58 11543	15.17 12895	16.76 14246	18.35 15598	19.94 16949	21.53 18301
	66	2.74 2329	4.51 3834	6.28 5338	8.06 6851	9.83 8356	11.61 9869	13.38 11373	15.15 12878	16.93 14391	18.70 15895	20.48 17408	22.25 18913	24.03 20426
	72	2.93 2491	4.83 4106	6.74 5729	8.64 7344	10.54 8959	12.44 10574	14.34 12189	16.25 13813	18.15 15428	20.05 17043	21.95 18658	23.86 20281	25.76 21896
	78	3.21 2729	5.30 4505	7.38 6273	9.47 8050	11.55 9818	13.64 11594	15.72 13362	17.81 15139	19.89 16907	21.98 18683	24.06 20451	26.15 22228	28.23 23996
84	3.50 2975	5.77 4905	8.04 6834	10.31 8764	12.57 10685	14.84 12614	17.11 14544	19.38 16473	21.65 18403	23.92 20332	26.19 22262	28.46 24191	30.73 26121	
90	3.78 3213	6.23 5296	8.69 7387	11.14 9469	13.59 11552	16.05 13643	18.50 15725	20.95 17808	23.40 19890	25.86 21981	28.31 24064	30.76 26146	33.22 28237	
96	3.98 3383	6.56 5576	9.14 7769	11.72 9962	14.30 12155	16.87 14340	19.45 16533	22.03 18726	24.61 20919	27.19 23112	29.77 25305	32.35 27498	34.93 29691	
102	4.26 3621	7.02 5967	9.79 8322	12.55 10668	15.32 13022	18.08 15368	20.84 17714	23.61 20069	26.37 22415	29.13 24761	31.90 27115	34.66 29461	37.43 31816	
108	4.54 3859	7.49 6367	10.44 8874	13.39 11382	16.33 13881	19.28 16388	22.23 18896	25.18 21403	28.12 23902	31.07 26410	34.02 28917	36.97 31425	39.91 33924	
114	4.74 4029	7.82 6647	10.90 9265	13.97 11875	17.05 14493	20.12 17102	23.20 19720	26.28 22338	29.35 24948	32.43 27566	35.51 30184	38.58 32793	41.66 35411	
120	5.02 4267	8.28 7038	11.54 9809	14.80 12580	18.06 15351	21.31 18114	24.57 20885	27.83 23656	31.09 26427	34.35 29198	37.61 31969	40.86 34731	44.12 37502	

This Table has been developed to assist in application and selection of these louvers. Two numbers are shown for each louver size. The upper number represents the sq. ft. of louver free area for each louver size. The lower number shows CFM of air flow permitted when selecting an intake louver at the point of zero water penetration.

Pressure drop when using this selection Guide for an intake louver will be .055 in. W.G. Louvers may be selected at other operating points on the Performance Curves if desired using the formula: CFM = Free Area (sq. ft.) X Free Area Velocity (FPM)



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