

AFG40

Fiber-Aire Louver | Adjustable Fiberglass
Industrial Swartwout Fiberglass Series



APPLICATION

The AFG is a fiberglass adjustable louver designed for intake and exhaust application for corrosive environment. Components are assembled with epoxy, polyethylene and/or monel fasteners.

STANDARD CONSTRUCTION

Frame	4" wide x 1.06" (102 x 27) deep fiberglass channel, .125" (3.2) thick.
Blades	.125" (3.2) thick.
Linkage	Fiberglass face linkage.
Seals	Blade Seal Neoprene Jamb Seal Polycarbonate
Axles	Fiberglass rod stub.
Bearings	PTFE.
Screen	.50" mesh x 19 gauge (13 x 1.1) PVC coated birdscreen standard.
Actuator	Locking louver quadrant.
Finish	Mill.
Minimum Size	12" wide x 12" high (305 x 305).
Maximum Factory Assembly Size	Single section: 48" wide x 72" high (1220 x 1829). Multiple section assembly: Unlimited.
Maximum Temperature	200°F (94°C).

Consult Ruskin for additional information.

FEATURES

- ▶ 38% Free Area
- ▶ Tight Leakage performance
- ▶ Very good pressure drop
- ▶ Fiberglass construction requires low maintenance and high resistance to corrosion

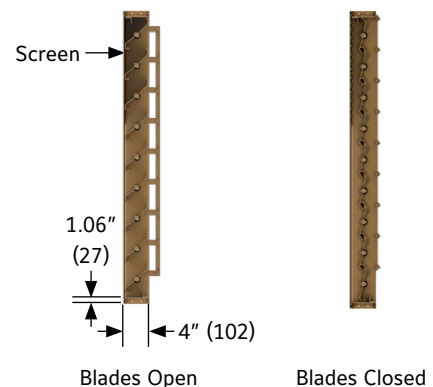
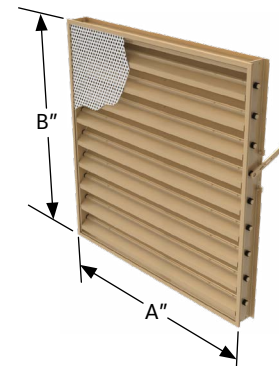
VARIATIONS

Variations to the basic design of this louver are available at additional cost. They include:

- ▶ Extended sill
- ▶ Exterior Coatings
- ▶ Various screens
- ▶ Stainless Steel Jamb Seals
- ▶ Front Flange
- ▶ Rear Flange
- ▶ Front Flange with sill
- ▶ Electric actuator
- ▶ Pneumatic actuator

NOTES:

- Louvers larger than maximum factory assembled sizes are shipped in sections for field assembly
- All options are at additional cost
- Actuator & accessories may not withstand corrosive environment
- Dimensions in inches, parenthesis () indicate millimeter
- Units can be furnished actual size or with size deducts



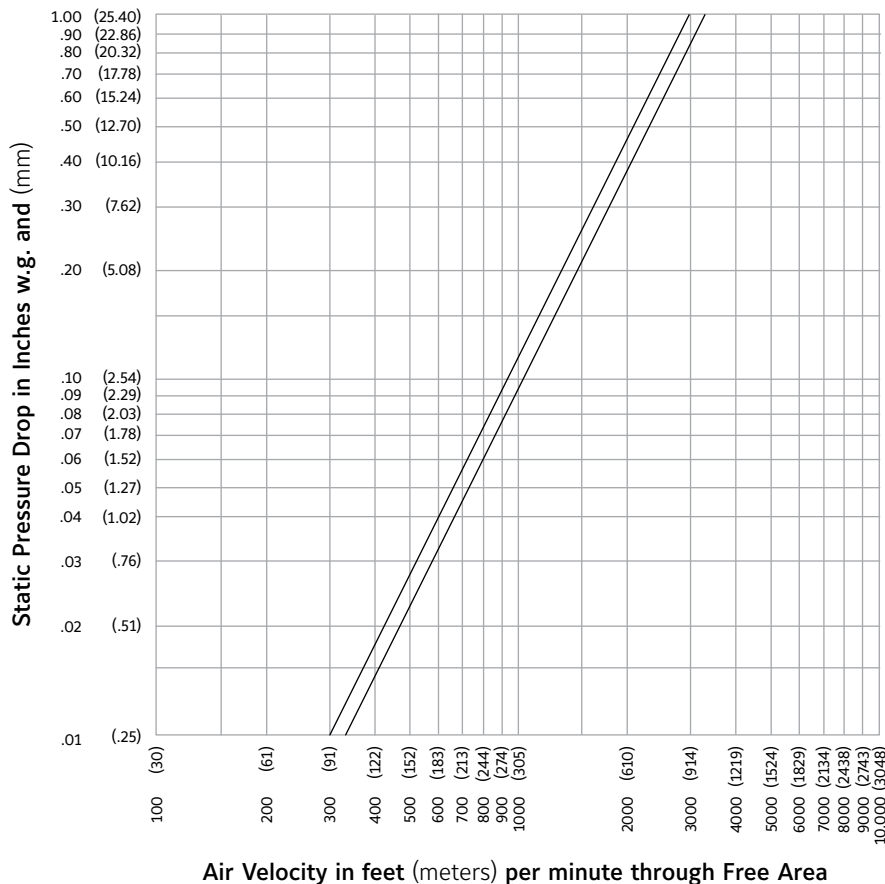
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of AFG40.

Width – Inches and Meters

Height – Inches and Meters	12	18	24	30	36	42	48
	0.30	0.46	0.61	0.76	0.91	1.07	1.22
	12	0.14	0.23	0.32	0.41	0.50	0.58
	0.30	0.01	0.02	0.03	0.04	0.05	0.06
	18	0.37	0.59	0.89	1.03	1.26	1.48
	0.46	0.03	0.05	0.08	0.10	0.12	0.14
	24	0.59	0.95	1.30	1.66	2.02	2.38
	0.61	0.05	0.09	0.12	0.15	0.19	0.22
	30	0.62	1.00	1.37	1.66	2.02	2.38
	0.76	0.06	0.09	0.13	0.16	0.20	0.23
	36	0.84	1.35	1.87	2.38	2.89	3.40
	0.91	0.08	0.13	0.19	0.22	0.27	0.32
	42	1.06	1.71	2.36	3.00	3.65	4.30
	1.07	0.10	0.16	0.22	0.28	0.34	0.40
	48	1.29	2.07	2.85	3.63	4.41	5.19
	1.22	0.12	0.19	0.26	0.34	0.41	0.48
	54	1.32	2.12	2.92	3.72	4.52	5.32
	1.37	0.12	0.20	0.29	0.35	0.42	0.49
	60	1.54	2.47	3.41	4.35	5.28	6.22
	1.52	0.14	0.23	0.36	0.40	0.49	0.58
	66	1.76	2.83	3.90	4.97	6.04	7.11
	1.68	0.16	0.26	0.36	0.46	0.56	0.66
	72	1.98	3.19	4.39	5.60	6.80	8.01
	1.83	0.18	0.30	0.41	0.52	0.63	0.74

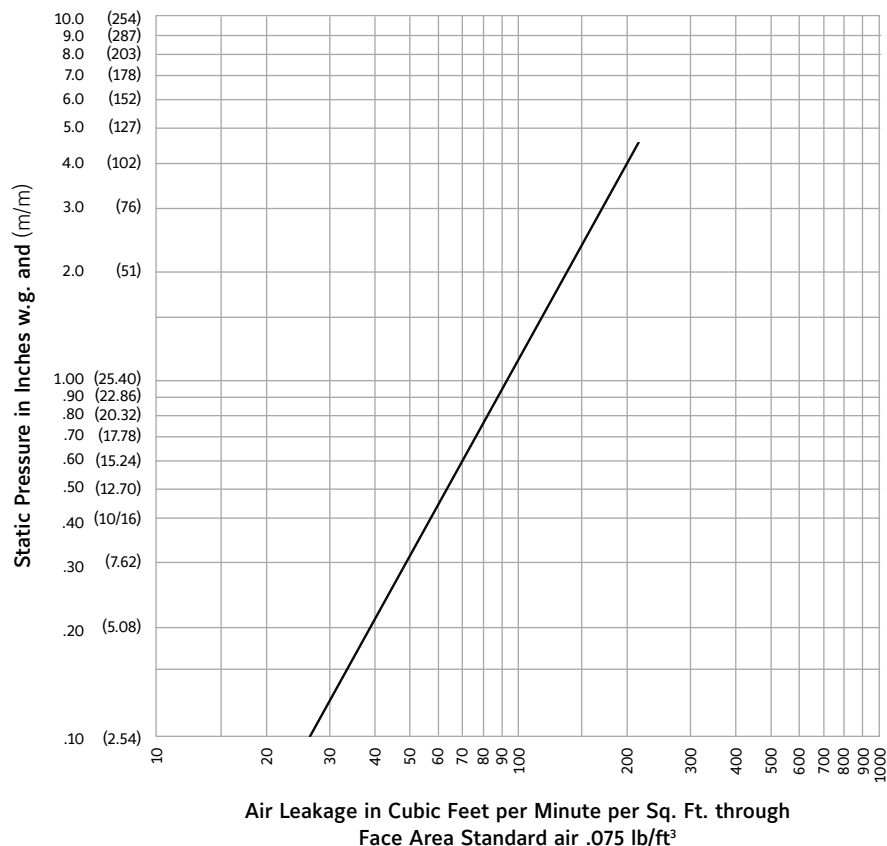
PRESSURE DROP



Rating do not include the effect of a bird screen.

PERFORMANCE DATA

Louver Leakage Test size 48" X 48" (1219 X 1219)
(With optional jamb seals)



AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

Designs should provide a reasonable safety factor for louver performance by selecting at some point below pressure drop or damper leakage system requirements.

SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans, or in accordance with schedules, Fiberglass adjustable bladed louvers. Louvers shall be of pultruded construction and comply with ASTM-D 4385-84A, and be tested and show record for ASTM D 2584-68. Material used in construction shall be a flame retardant vinyl ester based substance.

All material in airstream must meet or exceed required contamination concentration. Bearing design shall be based on system pressure and shall be of a teflon based material. All exposed glass shall be coated with resin compatible with that used in the pultrusion process.

Adjustable fiberglass louvers shall be Ruskin Swartwout Series Model AFG40 construction as follows:

Frame: 4" x 1.06" (102 x 27) fiberglass channel, .125" (3.2) thick.

Blades: .125" (3.2) thick fiberglass on 45° angle approximately 5" center to center.

Axle: 3/4" (19) fiberglass rod.

Bearings: PTFE.

Linkage: Fiberglass face linkage.

Screen: .50" mesh x 19 gauge (13 x 1.1) PVC coated.

Published louver performance data must be submitted for approval prior to fabrication and must demonstrate leakage and pressure drop equal to or less than the specified model.

LINKS TO IMPORTANT DOCUMENTS

Document Title

Paint Finishes and Color Guide

Limited Warranty Document



3900 Doctor Greaves Road
Grandview, MO 64030
Website: www.ruskin.com
Phone: (816) 761-7476