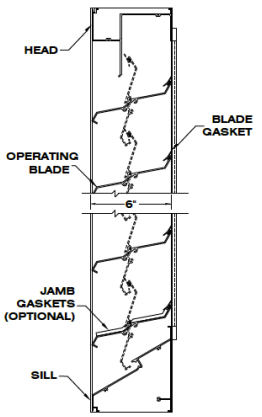
Model 6870
6" (152.4 mm) Step Blade 90° Operating Extruded Louver

Material:

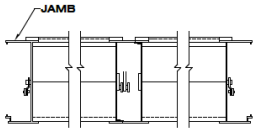
Material:	6063-T6 Alloy
Nominal Thickness (heads, sills, jambs, & mullions):	0.081" (2.06 mm)
Nominal Blade Thickness:	0.081" (2.06 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames Integrated glazing frames

Test Summary:
For a 4 Foot by 4 Foot Unit.
Tested with mill finish and no screen

- Free area = 8.51 ft² (0.791 m²)
- Percent free area = 53.2%
- Maximum recommended air intake velocity = 700 FPM (3.56 m/s)
- Pressure drop @ 700 FPM free area velocity = 0.06 in. H2O (14.9 Pa)



SECTION VIEW

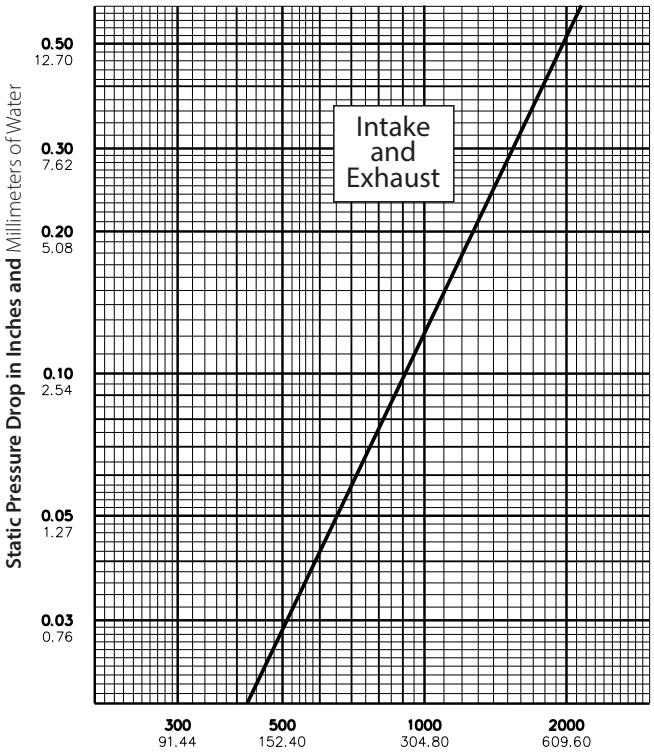


PLAN VIEW

Model 6870
6" (152.4 mm) Step Blade 90° Operating Extruded Louver

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



Data corrected to standard air density.
48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in **sq. feet** and sq. meters)

For additional sizes, please visit:
https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool

Width in Inches and Meters

Height in Inches and Meters

	12	18	24	30	36	42	48	54	60
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
24	**0.50**	**0.92**	**1.35**	**1.77**	**2.20**	**2.62**	**3.05**	**6.47**	**3.90**
0.61	0.05	0.09	0.13	0.16	0.20	0.24	0.28	0.60	0.36
30	**0.71**	**1.32**	**1.93**	**2.54**	**3.15**	**3.76**	**4.37**	**4.98**	**5.59**
0.76	0.07	0.12	0.18	0.24	0.29	0.35	0.41	0.46	0.52
36	**0.94**	**1.74**	**2.55**	**3.35**	**4.16**	**4.96**	**5.77**	**6.57**	**7.38**
0.91	0.09	0.16	0.24	0.31	0.39	0.46	0.54	0.61	0.69
42	**1.16**	**2.15**	**3.14**	**4.13**	**5.12**	**6.11**	**7.10**	**8.10**	**9.09**
1.07	0.11	0.20	0.29	0.38	0.48	0.57	0.66	0.75	0.84
48	**1.39**	**2.57**	**3.76**	**4.95**	**6.13**	**7.32**	**8.51**	**9.70**	**10.88**
1.22	0.13	0.24	0.35	0.46	0.57	0.68	0.79	0.90	1.01
54	**1.53**	**2.84**	**4.15**	**5.46**	**6.77**	**8.08**	**9.36**	**10.70**	**12.01**
1.37	0.14	0.26	0.39	0.51	0.63	0.75	0.87	0.99	1.12
60	**1.76**	**3.26**	**4.77**	**6.27**	**7.78**	**9.29**	**10.79**	**12.30**	**13.80**
1.52	0.16	0.30	0.44	0.58	0.72	0.86	1.00	1.14	1.28
66	**2.09**	**3.89**	**5.68**	**7.48**	**9.27**	**11.07**	**12.86**	**14.65**	**16.45**
1.68	0.19	0.36	0.53	0.69	0.86	1.03	1.19	1.36	1.53
72	**2.30**	**4.27**	**6.24**	**8.21**	**10.18**	**12.16**	**14.13**	**16.10**	**18.07**
1.83	0.21	0.40	0.58	0.76	0.95	1.13	1.31	1.50	1.68
78	**2.50**	**4.65**	**6.79**	**8.94**	**11.08**	**13.23**	**15.38**	**17.52**	**19.67**
1.98	0.23	0.43	0.63	0.83	1.03	1.23	1.43	1.63	1.83
84	**2.71**	**5.04**	**7.36**	**9.69**	**12.01**	**14.34**	**16.66**	**18.99**	**21.31**
2.13	0.25	0.47	0.68	0.90	1.12	1.33	1.55	1.76	1.98
90	**2.92**	**5.42**	**7.92**	**10.42**	**12.93**	**15.43**	**17.93**	**20.43**	**22.93**
2.29	0.27	0.50	0.74	0.97	1.20	1.43	1.67	1.90	2.13
96	**3.14**	**5.82**	**8.51**	**11.20**	**13.89**	**16.58**	**19.26**	**21.95**	**24.64**
2.44	0.29	0.54	0.79	1.04	1.29	1.54	1.79	2.04	2.29
102	**3.36**	**6.24**	**9.12**	**12.00**	**14.88**	**17.76**	**20.64**	**23.52**	**26.40**
2.59	0.31	0.58	0.85	1.11	1.38	1.65	1.92	2.19	2.45
108	**3.57**	**6.64**	**9.70**	**12.76**	**15.82**	**18.89**	**21.95**	**25.01**	**28.07**
2.74	0.33	0.62	0.90	1.19	1.47	1.75	2.04	2.32	2.61
114	**3.80**	**7.05**	**10.31**	**13.56**	**16.82**	**20.07**	**23.33**	**26.58**	**29.84**
2.90	0.35	0.65	0.96	1.26	1.56	1.86	2.17	2.47	2.77
120	**4.01**	**7.45**	**10.89**	**14.33**	**17.77**	**21.21**	**24.65**	**28.09**	**31.53**
3.05	0.37	0.69	1.01	1.33	1.65	1.97	2.29	2.61	2.93
126	**4.24**	**7.88**	**11.51**	**15.14**	**18.78**	**22.41**	**26.05**	**29.68**	**33.32**
3.20	0.39	0.73	1.07	1.41	1.74	2.08	2.42	2.76	3.10
132	**4.46**	**8.28**	**12.10**	**15.92**	**19.74**	**23.56**	**27.39**	**31.21**	**35.03**
3.35	0.41	0.77	1.12	1.48	1.83	2.19	2.54	2.90	3.25
138	**4.69**	**8.70**	**12.72**	**16.74**	**20.76**	**24.77**	**28.79**	**32.81**	**36.83**
3.51	0.44	0.81	1.18	1.56	1.93	2.30	2.67	3.05	3.42
144	**4.83**	**8.97**	**13.11**	**17.25**	**21.39**	**25.53**	**29.67**	**33.82**	**37.96**
3.66	0.45	0.83	1.22	1.60	1.99	2.37	2.76	3.14	3.53
150	**5.06**	**9.39**	**13.73**	**18.07**	**22.40**	**26.74**	**31.07**	**35.41**	**39.75**
3.81	0.47	0.87	1.28	1.68	2.08	2.48	2.89	3.29	3.69
156	**5.40**	**10.02**	**14.64**	**19.27**	**23.89**	**28.52**	**33.14**	**37.77**	**42.39**
3.96	0.50	0.93	1.36	1.79	2.22	2.65	3.08	3.51	3.94
162	**5.60**	**10.40**	**15.20**	**20.01**	**24.81**	**29.61**	**34.41**	**39.21**	**44.01**
4.11	0.52	0.97	1.41	1.86	2.30	2.75	3.20	3.64	4.09
168	**5.80**	**10.78**	**15.76**	**20.73**	**25.71**	**30.68**	**35.66**	**40.63**	**45.61**
4.27	0.54	1.00	1.46	1.93	2.39	2.85	3.31	3.77	4.24
174	**6.01**	**11.17**	**16.32**	**21.48**	**26.63**	**31.79**	**36.94**	**42.10**	**47.25**
4.42	0.56	1.04	1.52	2.00	2.47	2.95	3.43	3.91	4.39
180	**6.22**	**11.55**	**16.88**	**22.22**	**27.55**	**32.88**	**38.21**	**43.54**	**48.88**
4.57	0.58	1.07	1.57	2.06	2.56	3.05	3.55	4.04	4.54
186	**6.44**	**11.96**	**17.47**	**22.99**	**28.51**	**34.04**	**39.55**	**45.06**	**50.58**
4.72	0.60	1.11	1.62	2.14	2.65	3.16	3.67	4.19	4.70
192	**6.66**	**12.37**	**18.08**	**23.79**	**29.50**	**35.21**	**40.92**	**46.63**	**52.34**
4.88	0.62	1.15	1.68	2.21	2.74	3.27	3.80	4.33	4.86
198	**6.87**	**12.77**	**18.66**	**24.55**	**30.45**	**36.34**	**42.23**	**48.12**	**54.02**
5.03	0.64	1.19	1.73	2.28	2.83	3.38	3.92	4.47	5.02

Upper Numerals English Units/Lower Numerals Metric Units

