



### Design Features

- \* High performance sand trap louver has 53.6 % free area
- \* The static pressure is less than 2 Pa @ 1m/s.
- \* Frame is recessed in wall or flanged as optional.
- \* Double stage Y-shaped profile blades.
- \* Weight per one square meter is approx. 26 k.g.
- \* Face of louver is free from all fasteners.

### Standard Construction

**Frame:** 8" (203) x 0.08" (2) formed aluminum, 6063-T6

**Blades:** .062" (1.6) extruded aluminum, 6063-T6

Vertically mounted Sightproof Y-shaped profiles.

**Screen:** Bird Screen 0.5" (12.7) x 0.059"(1.5) wire diameter, with a removable frame on the interior of the louver. Screen adds approximately 0.5" (12.7) to the depth of louver.

**Finish:** Mill as standard.

**Min. size:** 12" (305)W x 12"(305)H

**Max. size:** 96" (2438)W x 96"(2438)H.

Larger sizes will require field assembly of smaller sections.

**Installation:** This louver will be recessed in the wall opening since it is being furnished with a sloped sill, for which the sand will get ejected to outside.

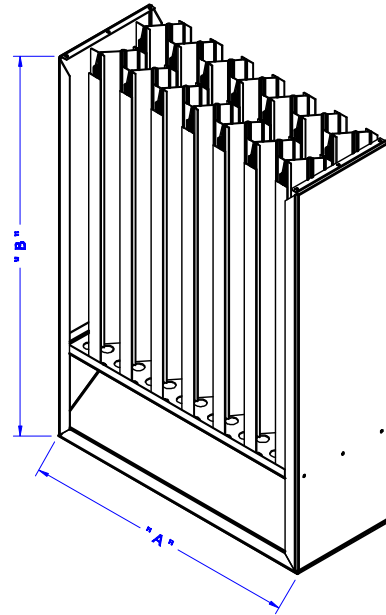
**NB-** All dimensions shown in inches and in millimeters.

### Optional Construction

- Flange frame is (1.50" (38)
- 0.625" (16) aluminum filter in frame as std.
- Sub-frame.
- Hinged sub-frame.
- Sill extension.
- Security bars:
  - Front
  - Back
- Optional bird and insect screen
- Blank off panel:
  - Aluminum, non insulated
  - Aluminum, insulated
- Optional finishes: see finishes chart.

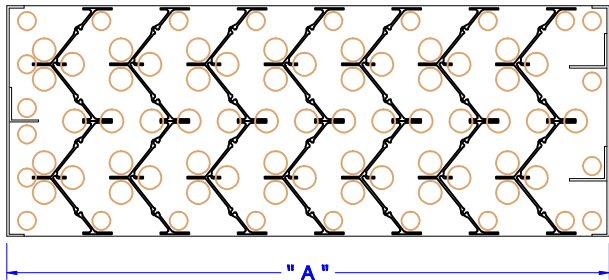
Consult Energy Industrial Co. for Other Special Requirements.

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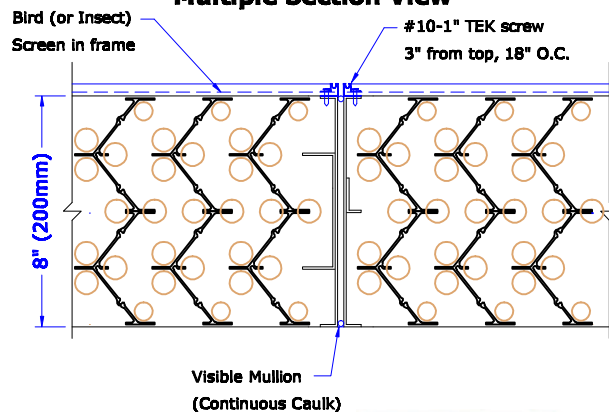


Width [ A dimension] and Height [B dimension] are approximately 0.25" (6) under listed size, unless otherwise specified.

### Section View

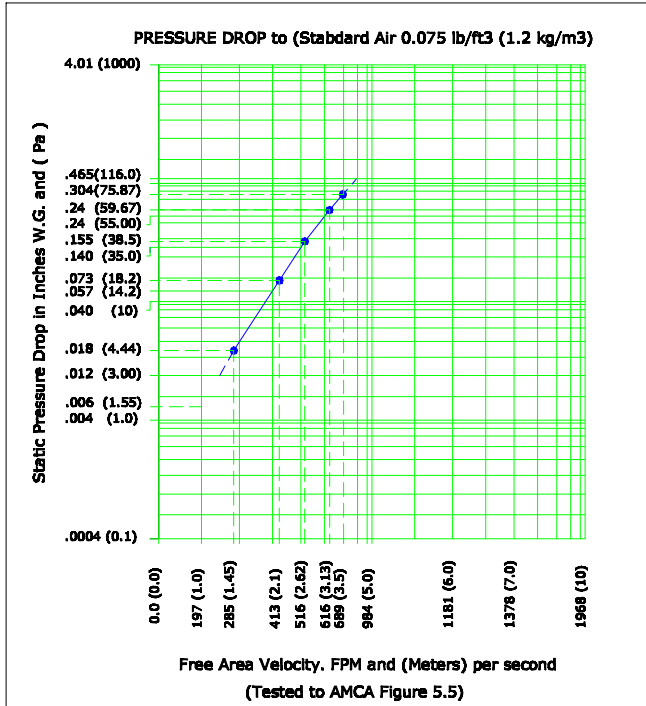


### Multiple Section View





**Air Performance Graph**



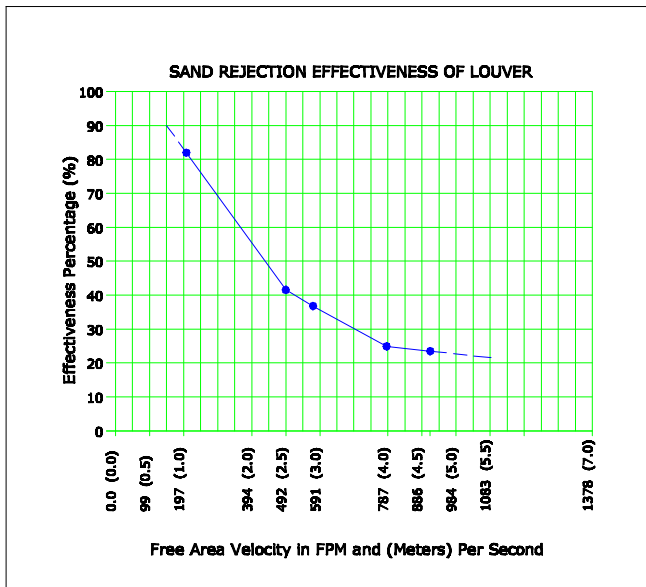
**Air Performance Notes:**

- Pressure Drop Data applies to test unit size 48" x 48" (1219 x 1219)mm only.
- Reported Pressure Drop is for Intake mode only.
- Performance data does not include the effects of bird screen or filter.
- All Performance shown is at standard air density of 0.075 lb/ft<sup>3</sup> (1.2kg/m<sup>3</sup>).

**Airflow Performance**

Airflow m <sup>3</sup> /s	Free Area Velocity m/s	PRESSURE DROP
0.79	1.00	1.55
1.58	2.00	14.20
1.97	2.50	35.00
2.37	3.00	62.2
2.77	3.50	78.00

**Sand Performance Graph**



**Sand Rejection Notes:**

- Effectiveness is 82% at 1.0 m/s draw velocity.
- Sand is blown at louver at 20-25 m/s in the sand injection tube.
- The sand grading used is between 76 - 699 micron as per AMCA 500 L; Annex H, Table 8.
- Based on this data, Energy Co. recommend 1.0 m/s draw velocity is the maximum used when sizing up this louver.

**Sand Rejection Effectiveness**

Airflow m <sup>3</sup> /s	Free Area Velocity m/s	Percentage %	Class
0.82	1.04	81.90	B
1.98	2.50	41.54	D
2.29	2.90	36.87	D
3.14	3.98	25.84	D
3.65	4.62	23.54	D

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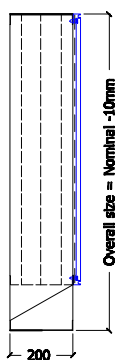




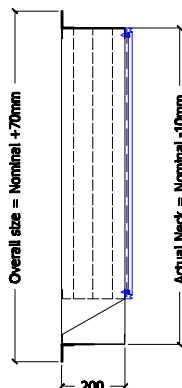
		FREE AREA GUIDE FOR STLH-A08 (Free Area in ft <sup>2</sup> and m <sup>2</sup> )														
		Height in Inches (Meters)														
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
		0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44
Width in Inches (Meters)	12	0.43	0.65	0.82	1.04	1.29	1.47	1.68	1.83	2.12	2.33	2.55	2.76	2.98	3.20	3.41
	0.30	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.32
	18	0.67	1.04	1.41	1.78	2.15	2.52	2.89	0.88	3.63	4.00	4.37	4.74	5.11	5.48	5.86
	0.46	0.06	0.10	0.13	0.17	0.20	0.23	0.27	0.08	0.34	0.37	0.41	0.44	0.48	0.51	0.54
	24	0.95	1.47	2.00	2.52	3.05	3.57	4.10	1.76	5.15	5.68	6.20	6.73	7.25	7.78	8.30
	0.61	0.09	0.14	0.19	0.23	0.28	0.33	0.38	0.16	0.48	0.53	0.58	0.63	0.67	0.72	0.77
	30	1.23	1.91	2.59	3.27	3.95	4.63	5.31	2.96	6.67	7.35	8.03	8.71	9.39	10.07	10.75
	0.76	0.11	0.18	0.24	0.30	0.37	0.43	0.49	0.28	0.62	0.68	0.75	0.81	0.87	0.94	1.00
	36	1.42	2.21	3.00	3.78	4.57	5.36	6.15	3.97	7.72	8.51	9.30	10.09	10.88	11.66	12.45
	0.91	0.13	0.21	0.28	0.35	0.43	0.50	0.57	0.37	0.72	0.79	0.87	0.94	1.01	1.09	1.16
	42	1.70	2.64	3.58	4.52	5.46	6.41	7.35	5.67	9.23	10.17	11.11	12.06	13.00	13.94	14.88
	1.07	0.16	0.25	0.33	0.42	0.51	0.60	0.68	0.53	0.86	0.95	1.03	1.12	1.21	1.30	1.38
	48	1.98	3.08	4.17	5.27	6.37	7.47	8.60	7.69	10.76	11.85	12.95	14.05	15.15	16.24	17.34
	1.22	0.18	0.29	0.39	0.49	0.59	0.69	0.80	0.72	1.00	1.10	1.20	1.31	1.41	1.51	1.61
	54	2.26	3.51	4.76	6.02	7.27	8.52	9.77	10.02	12.28	13.53	14.78	16.03	17.29	18.54	19.79
	1.37	0.21	0.33	0.44	0.56	0.68	0.79	0.91	0.93	1.14	1.26	1.38	1.49	1.61	1.72	1.84
60	2.45	3.81	5.17	6.53	7.89	9.25	10.61	11.81	13.33	14.69	16.05	17.40	18.76	20.12	21.48	
1.52	0.23	0.35	0.48	0.61	0.73	0.86	0.99	1.10	1.24	1.37	1.49	1.62	1.75	1.87	2.00	
66	2.73	4.24	5.76	7.27	8.79	10.30	11.81	14.65	14.84	16.36	17.87	19.38	20.90	22.41	23.93	
1.68	0.25	0.39	0.54	0.68	0.82	0.96	1.10	1.36	1.38	1.52	1.66	1.80	1.94	2.08	2.23	
72	2.89	4.50	6.10	7.71	9.31	10.92	12.52	16.45	15.73	17.33	18.94	20.54	22.15	23.75	25.36	
1.83	0.27	0.42	0.57	0.72	0.87	1.02	1.16	1.53	1.46	1.61	1.76	1.91	2.06	2.21	2.36	
78	3.20	4.98	6.75	8.53	10.31	12.08	13.86	20.15	17.41	19.19	20.96	22.74	24.51	26.29	28.06	
1.98	0.30	0.46	0.63	0.79	0.96	1.12	1.29	1.87	1.62	1.78	1.95	2.12	2.28	2.45	2.61	
84	3.48	5.41	7.34	9.27	11.20	13.13	15.05	23.78	18.91	20.84	22.77	24.70	26.63	28.56	30.49	
2.13	0.32	0.50	0.68	0.86	1.04	1.22	1.40	2.21	1.76	1.94	2.12	2.30	2.48	2.66	2.84	
90	3.76	5.84	7.93	10.01	12.09	14.18	16.26	27.75	20.43	22.51	24.60	26.68	28.76	30.85	32.93	
2.29	0.35	0.54	0.74	0.93	1.12	1.32	1.51	2.58	1.90	2.09	2.29	2.48	2.68	2.87	3.06	
96	4.04	6.28	8.51	10.75	12.99	15.23	17.47	32.02	21.94	24.18	26.42	28.66	30.90	33.14	35.38	
2.44	0.38	0.58	0.79	1.00	1.21	1.42	1.62	2.98	2.04	2.25	2.46	2.67	2.87	3.08	3.29	

**Dimensional Drawings**

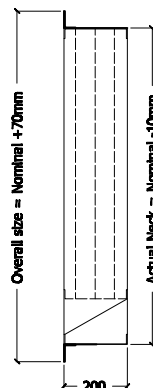
**STLHS- Screen**



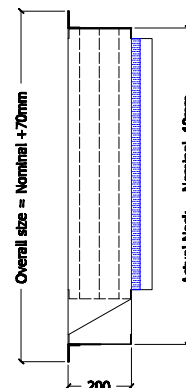
**STLHFS- Flanged/SCRN**



**STLHF- Flanged**



**STLHFF- Flanged & FILTER**



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