



SAND TRAP LOUVER CATALOGUE

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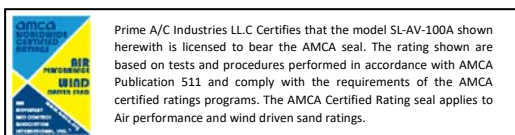
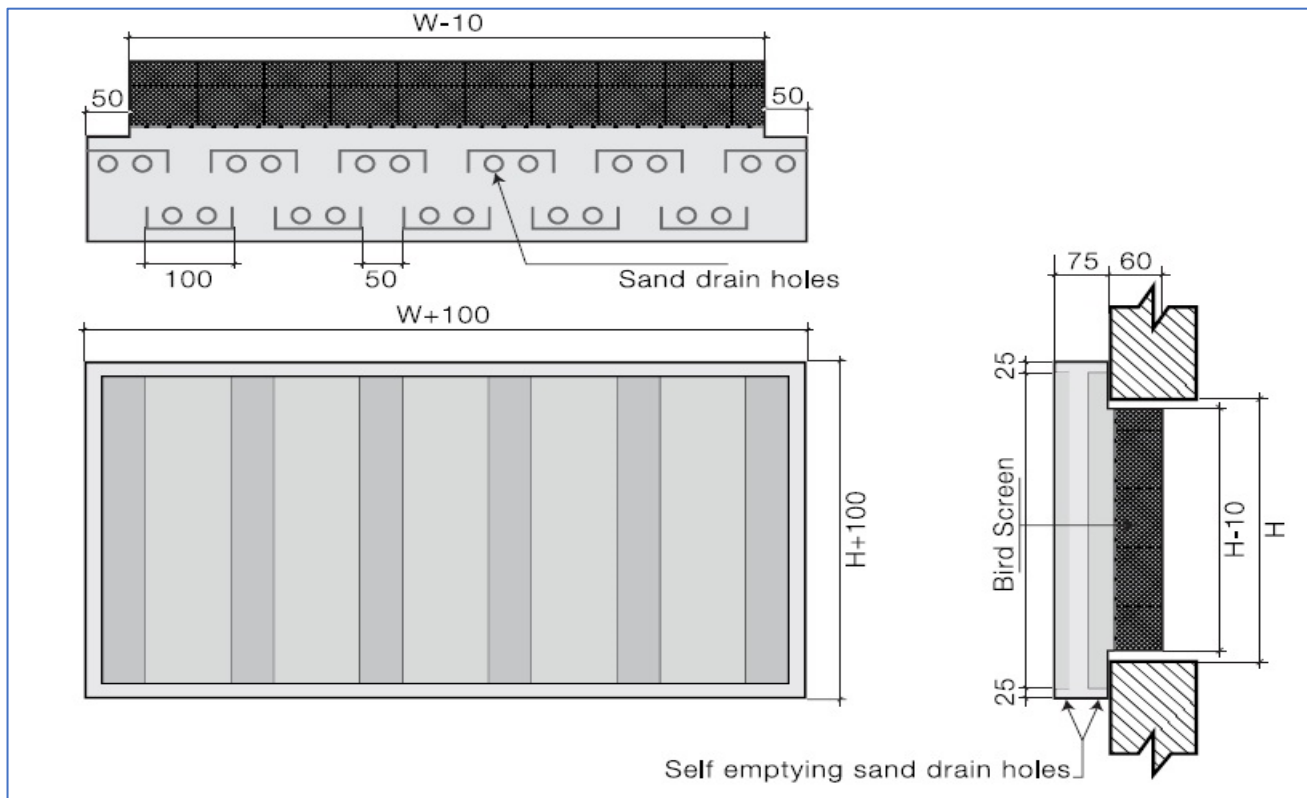
Prime A/C Industries LLC manufacture and supplies Aerovac® Brand Sand Trap Louvers which are specially designed for fresh air intake for the HVAC system and to separate sand from air intakes.

Aerovac Sand Trap Louver is used and designed to avoid excessive dust loading.

Aerovac Sand Trap Louver is effective and necessary to apply for ventilation and inlet ducts of Fresh Air handling units.

Blade Model: SL - AV 100 -A

- Frame : 1.2mm thick Extruded Aluminium.
- Blade : 1.0mm thick Extruded Aluminium.
- Screen : Bird Wire Mesh (Standard); Insect Screen (Optional).
- Filter : 25mm thick Aluminium Washable Filter.
- Mounting : Wall/Duct Mounted and Flush Mounted.
- Finish : Powder coated finish.

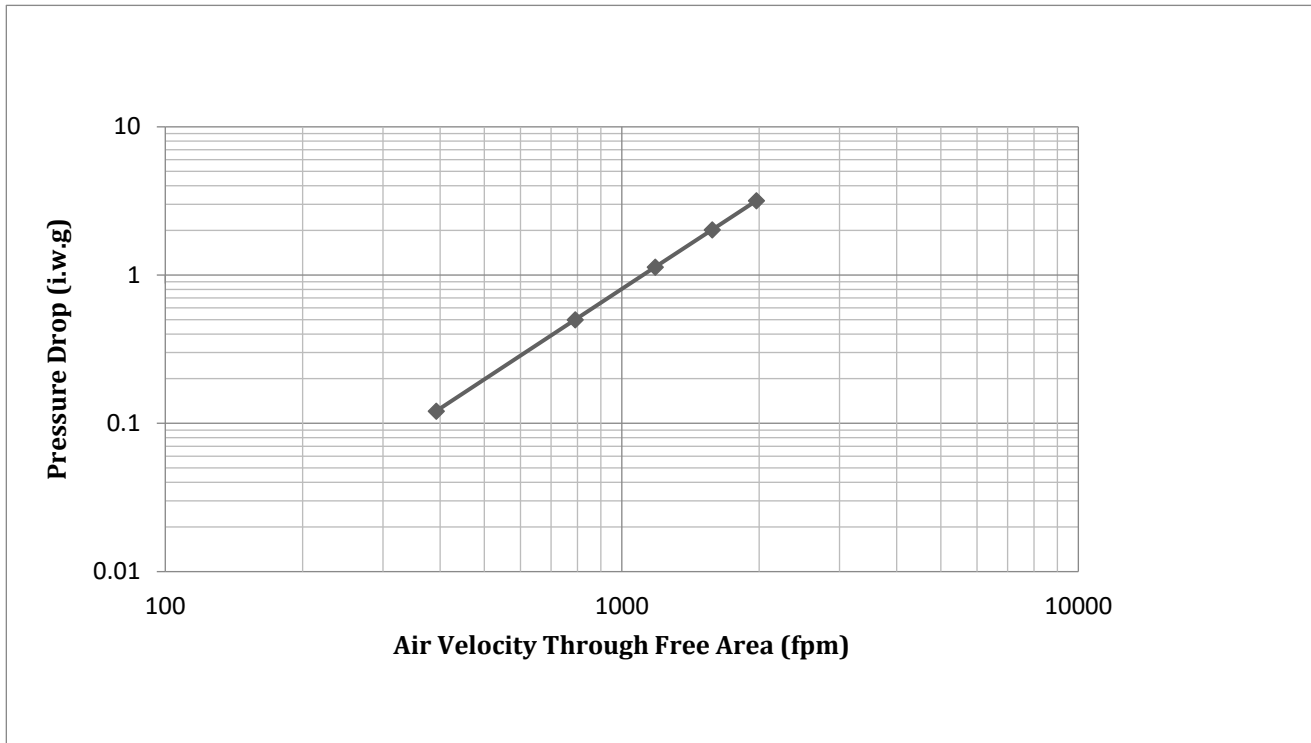


ENGINEERING PERFORMANCE DATA:

TEST INFORMATION:

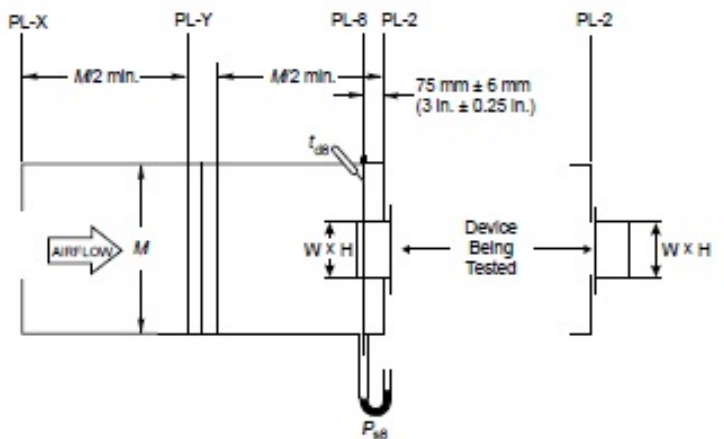
Tested for Air performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.5.
 Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in.

Sand Trap louver air performance data are based on intake performance.

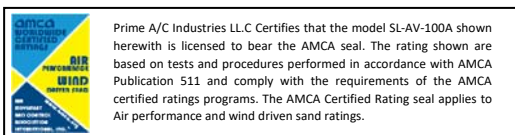


Pressure Drop:

Test Results:			
Free Area Velocity		Pressure Drop	
(fpm)	(m/s)	(i.w.g)	(Pa)
392	1.99	0.12	31
790	4.01	0.50	125
1183	6.01	1.13	283
1577	8.01	2.02	504
1970	10.01	3.17	791



AMCA Figure 5.5 Pressure Drop Set up



TEST INFORMATION:

Tested for wind driven sand performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.12.
Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in.

Wind driven sand performance data are based on intake performance.



Sand trap louver performance:

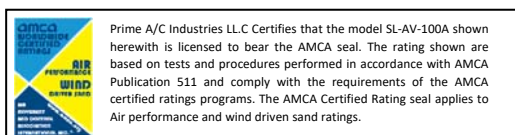
Free area velocity (m/s)	1.0	2.6	4	5.7	6.7
Weight of Sand (g)	1003	1003	2004	2003	2004
Discharge duration (s)	200	75	100	70	60
Sand feed rate (g/s)	5.0	13.4	20.0	28.6	33.4
Effectiveness (%)	86.26	49.49	22.43	10.96	9.09

Grading of the sand used for wind driven sand performance tests shall be as per Annex H, Table 8, of ANSI/AMCA Standard 500-L.

Table 3
Penetration Class for Wind Driven Sand Test

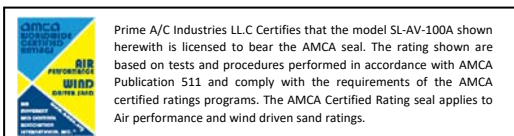
Class	Effectiveness
A	100% to 90%
B	89.9% to 80%
C	79.9% to 70%
D	Below 70%

Note: These classifications apply at various free area velocities

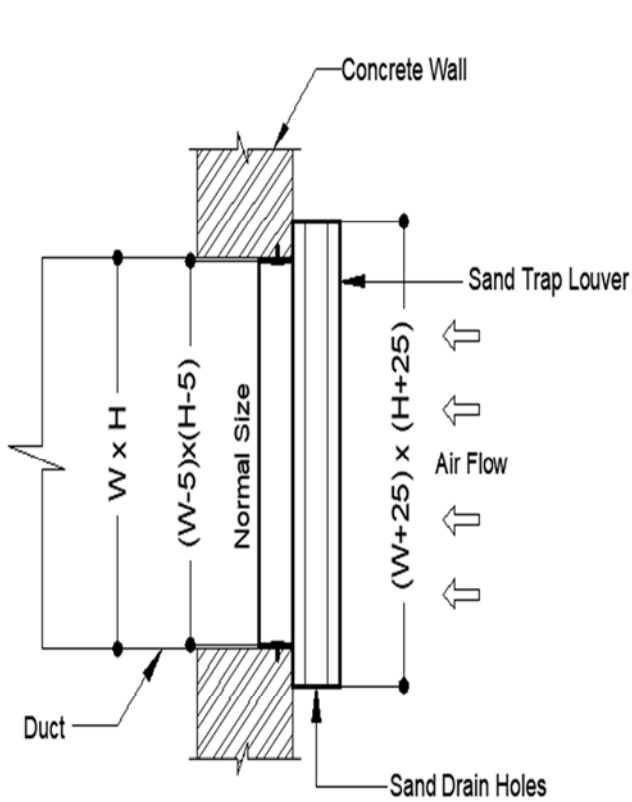



ENGINEERING PERFORMANCE DATA:

Sand Trap Louver Free Area SL - AV-100 - A															
W→	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
H↓	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
12	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.52	1.69	1.86	2.03	2.20	2.37	2.54	2.71
300	0.03	0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.22	0.24	0.25
18	0.51	0.76	1.02	1.27	1.52	1.78	2.03	2.29	2.54	2.80	3.05	3.30	3.56	3.81	4.07
450	0.05	0.07	0.09	0.12	0.14	0.17	0.19	0.21	0.24	0.26	0.28	0.31	0.33	0.35	0.38
24	0.68	1.02	1.36	1.69	2.03	2.37	2.71	3.05	3.39	3.73	4.07	4.40	4.74	5.08	5.42
600	0.06	0.09	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.41	0.44	0.47	0.50
30	0.85	1.27	1.69	2.12	2.54	2.96	3.39	3.81	4.24	4.66	5.08	5.51	5.93	6.35	6.78
750	0.08	0.12	0.16	0.20	0.24	0.28	0.31	0.35	0.39	0.43	0.47	0.51	0.55	0.59	0.63
36	1.02	1.52	2.03	2.54	3.05	3.56	4.07	4.57	5.08	5.59	6.10	6.61	7.12	7.62	8.13
900	0.09	0.14	0.19	0.24	0.28	0.33	0.38	0.42	0.47	0.52	0.57	0.61	0.66	0.71	0.76
42	1.19	1.78	2.37	2.96	3.56	4.15	4.74	5.34	5.93	6.52	7.12	7.71	8.30	8.89	9.49
1050	0.11	0.17	0.22	0.28	0.33	0.39	0.44	0.50	0.55	0.61	0.66	0.72	0.77	0.83	0.88
48	1.36	2.03	2.71	3.39	4.07	4.74	5.42	6.10	6.78	7.45	8.13	8.81	9.49	10.16	10.84
1200	0.13	0.19	0.25	0.31	0.38	0.44	0.50	0.57	0.63	0.69	0.76	0.82	0.88	0.94	1.01
54	1.52	2.29	3.05	3.81	4.57	5.34	6.10	6.86	7.62	8.39	9.15	9.91	10.67	11.44	12.20
1350	0.14	0.21	0.28	0.35	0.42	0.50	0.57	0.64	0.71	0.78	0.85	0.92	0.99	1.06	1.13
60	1.69	2.54	3.39	4.24	5.08	5.93	6.78	7.62	8.47	9.32	10.16	11.01	11.86	12.71	13.55
1500	0.16	0.24	0.31	0.39	0.47	0.55	0.63	0.71	0.79	0.87	0.94	1.02	1.10	1.18	1.26
66	1.86	2.80	3.73	4.66	5.59	6.52	7.45	8.39	9.32	10.25	11.18	12.11	13.05	13.98	14.91
1650	0.17	0.26	0.35	0.43	0.52	0.61	0.69	0.78	0.87	0.95	1.04	1.13	1.21	1.30	1.39
72	2.03	3.05	4.07	5.08	6.10	7.12	8.13	9.15	10.16	11.18	12.20	13.21	14.23	15.25	16.26
1800	0.19	0.28	0.38	0.47	0.57	0.66	0.76	0.85	0.94	1.04	1.13	1.23	1.32	1.42	1.51
78	2.20	3.30	4.40	5.51	6.61	7.71	8.81	9.91	11.01	12.11	13.21	14.32	15.42	16.52	17.62
1950	0.20	0.31	0.41	0.51	0.61	0.72	0.82	0.92	1.02	1.13	1.23	1.33	1.43	1.53	1.64
84	2.37	3.56	4.74	5.93	7.12	8.30	9.49	10.67	11.86	13.05	14.23	15.42	16.60	17.79	18.97
2100	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.10	1.21	1.32	1.43	1.54	1.65	1.76
90	2.54	3.81	5.08	6.35	7.62	8.89	10.16	11.44	12.71	13.98	15.25	16.52	17.79	19.06	20.33
2250	0.24	0.35	0.47	0.59	0.71	0.83	0.94	1.06	1.18	1.30	1.42	1.53	1.65	1.77	1.89
96	2.71	4.07	5.42	6.78	8.13	9.49	10.84	12.20	13.55	14.91	16.26	17.62	18.97	20.33	21.69
2400	0.25	0.38	0.50	0.63	0.76	0.88	1.01	1.13	1.26	1.39	1.51	1.64	1.76	1.89	2.01



INSTALLATION DETAILS:

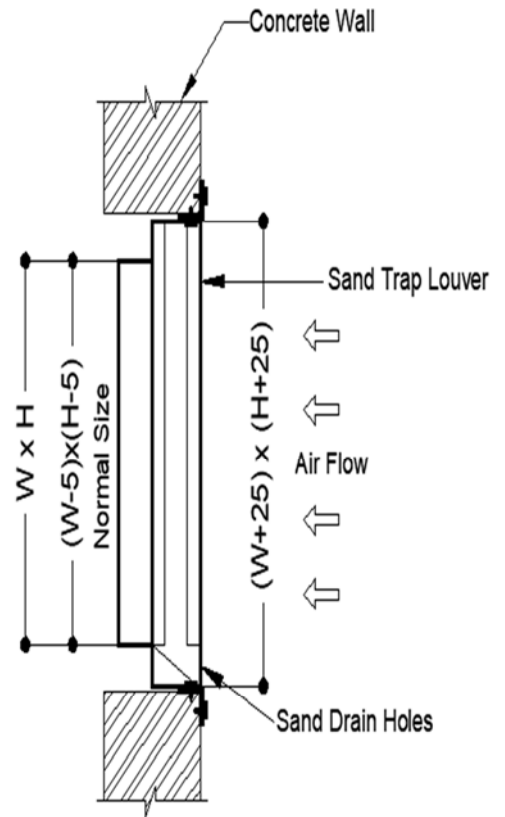


Wall Mounted / Duct Mounted

Screw Fixing with Neck and wall/duct.



SL-AV 100-A
[Wall/Duct Mounted]

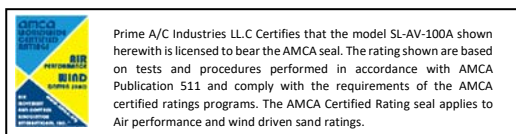


Flush Mounted

L-Angle need to be connected with Wall & STL
Frame with help of screw



SL-AV 100-A
[Flush Mounted]





MANUFACTURER & SUPPLIER

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