

TECHNOLOGY MEETS AESTHETICS



Certified Ratings:

Robertson Thermovent FZE certifies that the model RTV-STL-100 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 Certified Ratings Seal applies to Air Performance ratings.

SAND TRAP LOUVER

Designers and Specifiers Technical Manual



ROBERTSON *THERMOVENT* FZE

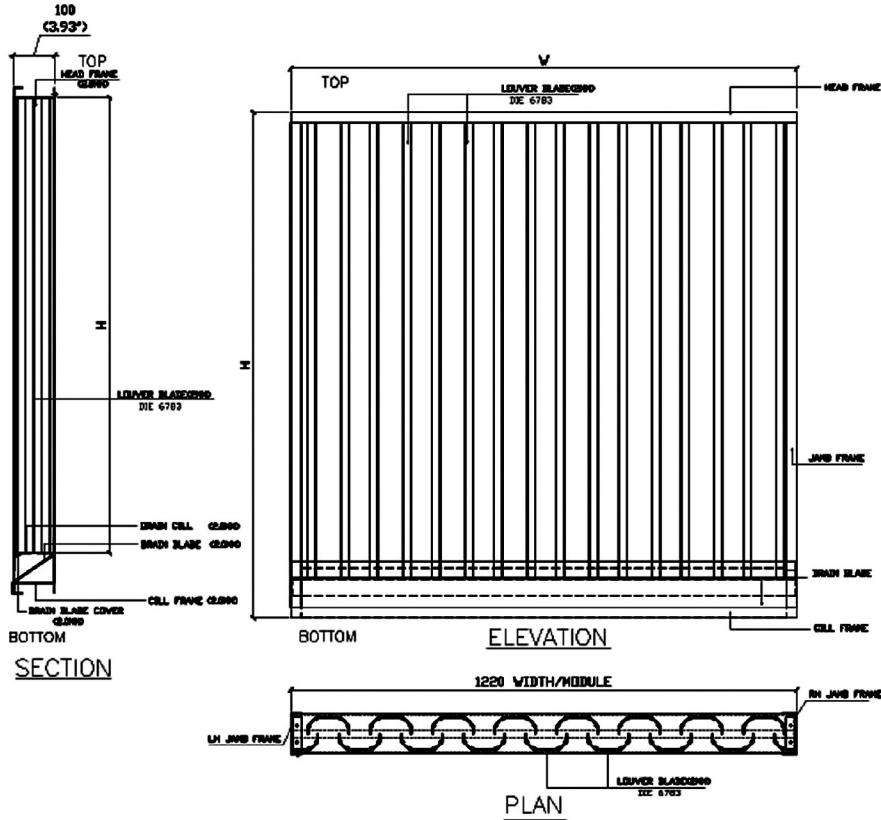
ACOUSTIC AND VENTILATION SYSTEMS



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Model : RTV -STL-100 SAND TRAP LOUVER 100mm Deep. Alu. Extruded Blades



Application:

The RTV-STL-100 offers exceptional protection against wind-driven sand and is ideally suited for high wind areas or applications that are sensitive to wind-driven sand penetration. The RTV-STL-100 is available in a wide array of finishes including custom colors. This air device is mainly specified for air intake where ingress of sand is to be limited. Ideally suitable for use in plant room air intakes, pent house intake housings, factory/warehouse ventilation, rolling mill, gas plants and smelters. This product also comes with optional filters for additional sand removal capabilities.

FREE AREA (ft²)

Width(Inches)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.16	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.53	1.71	1.88	2.05	2.22	2.39	2.56	2.73	2.90	3.08	3.25
18	0.23	0.47	0.71	0.95	1.19	1.43	1.67	1.91	2.15	2.39	2.63	2.87	3.11	3.35	3.59	3.83	4.07	4.31	4.55
24	0.30	0.61	0.91	1.22	1.53	1.84	2.15	2.46	2.77	3.08	3.39	3.70	4.00	4.31	4.62	4.93	5.24	5.55	5.86
30	0.36	0.74	1.12	1.50	1.87	2.25	2.63	3.01	3.39	3.76	4.14	4.52	4.90	5.28	5.65	6.03	6.41	6.79	7.16
36	0.43	0.87	1.32	1.77	2.22	2.66	3.11	3.56	4.00	4.45	4.90	5.34	5.79	6.24	6.68	7.13	7.58	8.02	8.47
42	0.49	1.01	1.53	2.04	2.56	3.07	3.59	4.10	4.62	5.14	5.65	6.17	6.68	7.20	7.71	8.23	8.75	9.26	9.78
48	0.56	1.14	1.73	2.31	2.90	3.48	4.07	4.65	5.24	5.82	6.41	6.99	7.58	8.16	8.74	9.33	9.91	10.50	11.08
54	0.63	1.28	1.93	2.59	3.24	3.89	4.55	5.20	5.85	6.51	7.16	7.81	8.47	9.12	9.78	10.43	11.08	11.74	12.39
60	0.69	1.41	2.14	2.86	3.58	4.30	5.03	5.75	6.47	7.19	7.92	8.64	9.36	10.08	10.81	11.53	12.25	12.97	13.70
66	0.76	1.55	2.34	3.13	3.92	4.71	5.51	6.30	7.09	7.88	8.67	9.46	10.25	11.04	11.84	12.63	13.42	14.21	15.00
72	0.82	1.68	2.54	3.40	4.26	5.13	5.99	6.85	7.71	8.57	9.43	10.29	11.15	12.01	12.87	13.73	14.59	15.45	16.31
78	0.89	1.82	2.75	3.68	4.61	5.54	6.46	7.39	8.32	9.25	10.18	11.11	12.04	12.97	13.90	14.83	15.76	16.68	17.61
84	0.96	1.95	2.95	3.95	4.95	5.95	6.94	7.94	8.94	9.94	10.94	11.93	12.93	13.93	14.93	15.93	16.92	17.92	18.92
90	1.02	2.09	3.16	4.22	5.29	6.36	7.42	8.49	9.56	10.62	11.69	12.76	13.82	14.89	15.96	17.02	18.09	19.16	20.23
96	1.09	2.22	3.36	4.50	5.63	6.77	7.90	9.04	10.17	11.31	12.45	13.58	14.72	15.85	16.99	18.12	19.26	20.40	21.53
102	1.15	2.36	3.56	4.77	5.97	7.18	8.38	9.59	10.79	12.00	13.20	14.41	15.61	16.81	18.02	19.22	20.43	21.63	22.84
108	1.22	2.49	3.77	5.04	6.31	7.59	8.86	10.14	11.41	12.68	13.96	15.23	16.50	17.78	19.05	20.32	21.60	22.87	24.14
114	1.29	2.63	3.97	5.31	6.66	8.00	9.34	10.68	12.03	13.37	14.71	16.05	17.40	18.74	20.08	21.42	22.76	24.11	25.45
120	1.35	2.76	4.18	5.59	7.00	8.41	9.82	11.23	12.64	14.05	15.47	16.88	18.29	19.70	21.11	22.52	23.93	25.34	26.76



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CONFIGURATION :

Supplied in modular assembly or knockdown form for rapid site installation.

MATERIALS :

Mill Finish Aluminium Extrusion

FRAMES :

112mm Deep

BLADES :

Aluminium Extruded blades

SCREEN :

Birdmesh : Crimped Aluminium

OPTIONAL

- PVDF (KYNAR)
- Powder Coated
- Super Durable PPC
- Anodized
- Epoxy Painted
- Mill Finish

OPTIONAL :

- Polyfibre filters
- Aluminium washable filters
- Intermediate foam filters

Model : RTV -STL-100

SAND TRAP LOUVER

100mm Deep. Alu. Extruded Blades

Ratings:

Free Area : (48"x 48") - (1220mm x 1220mm) - 4.07 ft²

Performance at beginning point of water penetration

Free Area Velocity =391 fpm

Air Volume delivered : 1590cfm

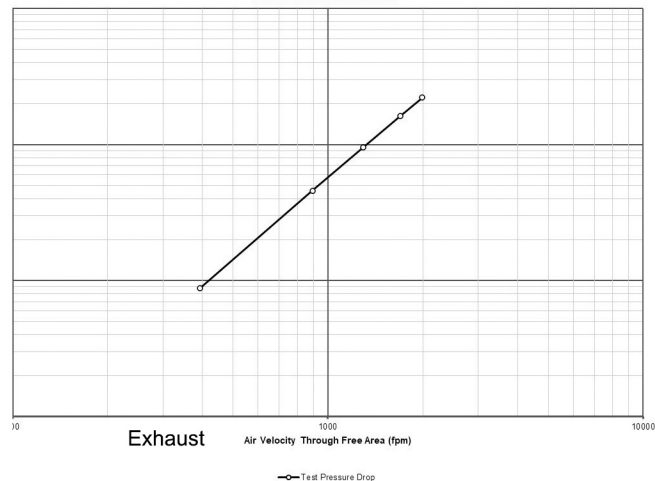
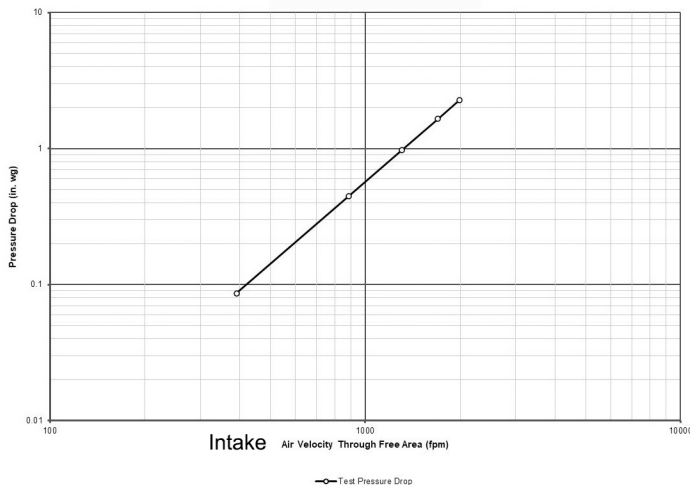
Pressure Loss : 0.087in wg



RTV-STL-100 (2/2) : Rev 0 - September 2021

Pressure Loss

Test Size : [48" x 48" (1220 x 1220mm)]



Tested to AMCA 500-L-Figure 5.5 at (Pressure drop) Test



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