

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

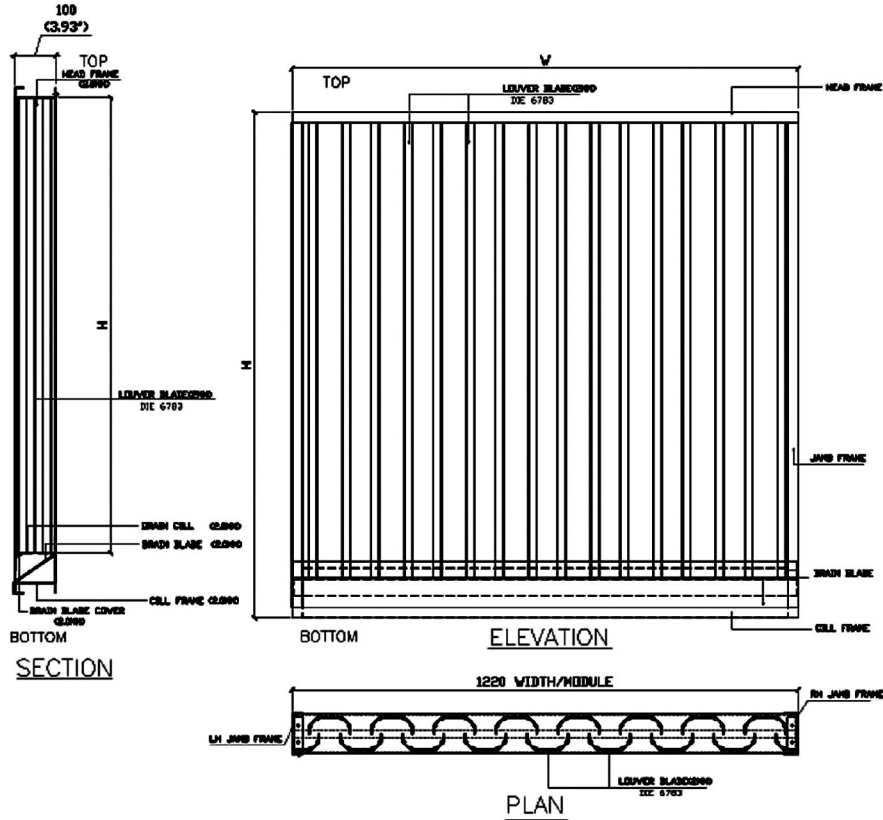
ACOUSTIC AND VENTILATION SYSTEMS



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



Width (Inches)

Height (Inches)

| | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 |
|-----|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12 | 0.30 | 0.45 | 0.60 | 0.75 | 0.90 | 1.05 | 1.20 | 1.35 | 1.50 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.70 | 2.85 | 3.00 |
| 18 | 0.45 | 0.68 | 0.90 | 1.13 | 1.35 | 1.58 | 1.80 | 2.03 | 2.25 | 2.48 | 2.70 | 2.93 | 3.15 | 3.38 | 3.60 | 3.83 | 4.05 | 4.28 | 4.50 |
| 24 | 0.60 | 0.90 | 1.20 | 1.50 | 1.80 | 2.10 | 2.40 | 2.70 | 3.00 | 3.30 | 3.60 | 3.90 | 4.20 | 4.50 | 4.80 | 5.10 | 5.40 | 5.70 | 6.00 |
| 30 | 0.75 | 1.13 | 1.50 | 1.88 | 2.25 | 2.63 | 3.00 | 3.38 | 3.75 | 4.13 | 4.50 | 4.88 | 5.25 | 5.63 | 6.00 | 6.38 | 6.75 | 7.13 | 7.50 |
| 36 | 0.90 | 1.35 | 1.80 | 2.25 | 2.70 | 3.15 | 3.60 | 4.05 | 4.50 | 4.95 | 5.40 | 5.85 | 6.30 | 6.75 | 7.20 | 7.65 | 8.10 | 8.55 | 9.00 |
| 42 | 1.05 | 1.58 | 2.10 | 2.63 | 3.15 | 3.68 | 4.20 | 4.73 | 5.25 | 5.78 | 6.30 | 6.83 | 7.35 | 7.88 | 8.40 | 8.93 | 9.45 | 9.98 | 10.50 |
| 48 | 1.20 | 1.80 | 2.40 | 3.00 | 3.60 | 4.20 | 4.80 | 5.40 | 6.00 | 6.60 | 7.20 | 7.80 | 8.40 | 9.00 | 9.60 | 10.20 | 10.80 | 11.40 | 12.00 |
| 54 | 1.35 | 2.03 | 2.70 | 3.38 | 4.05 | 4.73 | 5.40 | 6.08 | 6.75 | 7.43 | 8.10 | 8.78 | 9.45 | 10.13 | 10.80 | 11.48 | 12.15 | 12.83 | 13.50 |
| 60 | 1.50 | 2.25 | 3.00 | 3.75 | 4.50 | 5.25 | 6.00 | 6.75 | 7.50 | 8.25 | 9.00 | 9.75 | 10.50 | 11.25 | 12.00 | 12.75 | 13.50 | 14.25 | 15.00 |
| 66 | 1.65 | 2.48 | 3.30 | 4.13 | 4.95 | 5.78 | 6.60 | 7.43 | 8.25 | 9.08 | 9.90 | 10.73 | 11.55 | 12.38 | 13.20 | 14.03 | 14.85 | 15.68 | 16.50 |
| 72 | 1.80 | 2.70 | 3.60 | 4.50 | 5.40 | 6.30 | 7.20 | 8.10 | 9.00 | 9.90 | 10.80 | 11.70 | 12.60 | 13.50 | 14.40 | 15.30 | 16.20 | 17.10 | 18.00 |
| 78 | 1.95 | 2.93 | 3.90 | 4.88 | 5.85 | 6.83 | 7.80 | 8.78 | 9.75 | 10.73 | 11.70 | 12.68 | 13.65 | 14.63 | 15.60 | 16.58 | 17.55 | 18.53 | 19.50 |
| 84 | 2.10 | 3.15 | 4.20 | 5.25 | 6.30 | 7.35 | 8.40 | 9.45 | 10.50 | 11.55 | 12.60 | 13.65 | 14.70 | 15.75 | 16.80 | 17.85 | 18.90 | 19.95 | 21.00 |
| 90 | 2.25 | 3.38 | 4.50 | 5.63 | 6.75 | 7.88 | 9.00 | 10.13 | 11.25 | 12.38 | 13.50 | 14.63 | 15.75 | 16.88 | 18.00 | 19.13 | 20.25 | 21.38 | 22.50 |
| 96 | 2.40 | 3.60 | 4.80 | 6.00 | 7.20 | 8.40 | 9.60 | 10.80 | 12.00 | 13.20 | 14.40 | 15.60 | 16.80 | 18.00 | 19.20 | 20.40 | 21.60 | 22.80 | 24.00 |
| 102 | 2.55 | 3.83 | 5.10 | 6.38 | 7.65 | 8.93 | 10.20 | 11.48 | 12.75 | 14.03 | 15.30 | 16.58 | 17.85 | 19.13 | 20.40 | 21.68 | 22.95 | 24.23 | 25.50 |
| 108 | 2.70 | 4.05 | 5.40 | 6.75 | 8.10 | 9.45 | 10.80 | 12.15 | 13.50 | 14.85 | 16.20 | 17.55 | 18.90 | 20.25 | 21.60 | 22.95 | 24.30 | 25.65 | 27.00 |
| 114 | 2.85 | 4.28 | 5.70 | 7.13 | 8.55 | 9.98 | 11.40 | 12.83 | 14.25 | 15.68 | 17.10 | 18.53 | 19.95 | 21.38 | 22.80 | 24.23 | 25.65 | 27.08 | 28.50 |
| 120 | 3.00 | 4.50 | 6.00 | 7.50 | 9.00 | 10.50 | 12.00 | 13.50 | 15.00 | 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.00 | 28.50 | 30.00 |



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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" (1220 x 1220mm)] - 4.8 ft²

Performance at beginning point:

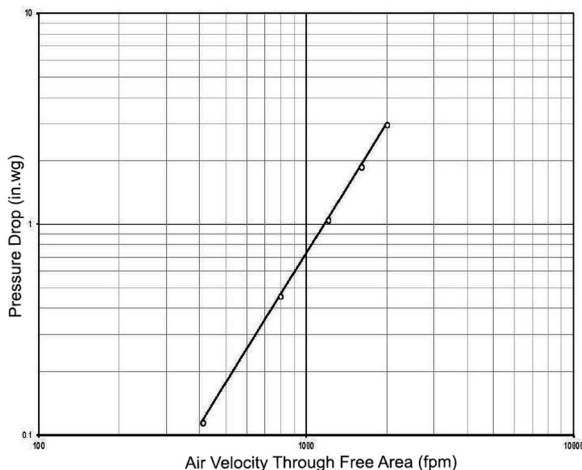
**Free Area Velocity: 408 fpm
Air Volume delivered : 1891 cfm
Pressure Loss : 0.116 in.wg**



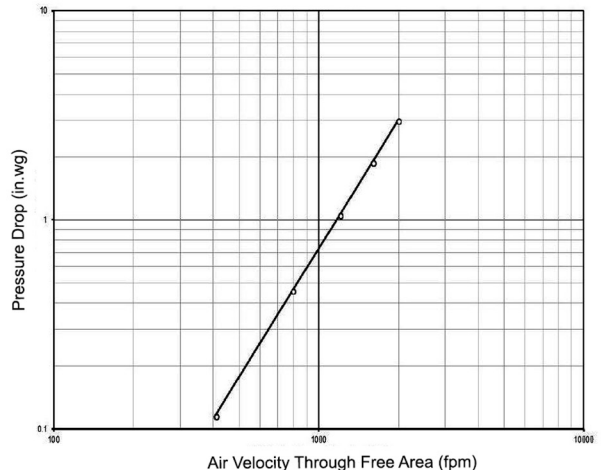
SAND TRAP LOUVER - RTV-STL-100 (2/2) ; August 2018

Pressure Loss

Test Size: [48" x 48" (1220 x1220mm)]



Intake



Exhaust

Tested to AMCA 500-L - Figure 5.5 at standard air density.



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