



AIRFLOW AC

AIRFLOW AC Middle East FZE-LLC

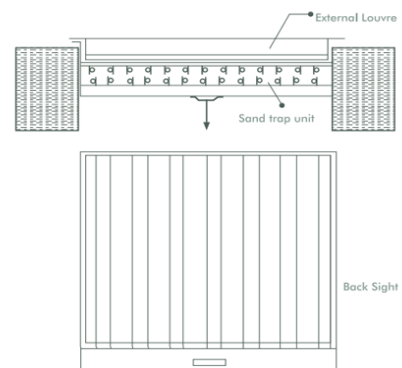
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Sand trap Louver

Description

Sand Louver designed to protect air intake from wind-driven sand. Concept Design combines vertical blades to separate sand from the air stream, then channelled out at the sloped sill. Sand Trap Louvers are generally used as pre filter for fresh air intake of Air Handling Units (AHU), Package Air Conditioning Units (PACU), and Roof Top Fresh Air Units (RTFAU) for Air Conditioning Systems and for Fresh Air Intake in manufacturing plants. These louvers are able to separate sand and large dust particles even in case of high dust concentrations. The vertically arranged blade sections and holes for sand drainage ensure that the sand trap louver is self-cleaning and maintenance free. It is designed to separate large particles of sand and dust from airstream at low velocities, thus avoiding excessive dust loading of conventional filters. It is not intended as a substitute for conventional filters.

- Standard Material: Aluminium (External Louver) and Galvanized Steel Sheet or Stainless Steel (Sand Trap Unit).
- High resistance to corrosion.
- Keeps the particles from exterior area out of the ducting system, such as sand, dust and snow.
- Manufactured partially and assembled at working location.
- Mounted with 4 mm screws with appropriate quantity.
- On request, wire screen can be added on backside for keeping birds and insects out.
- Electrostatic powder coating (oven-drying) with the colour from RAL catalogue.



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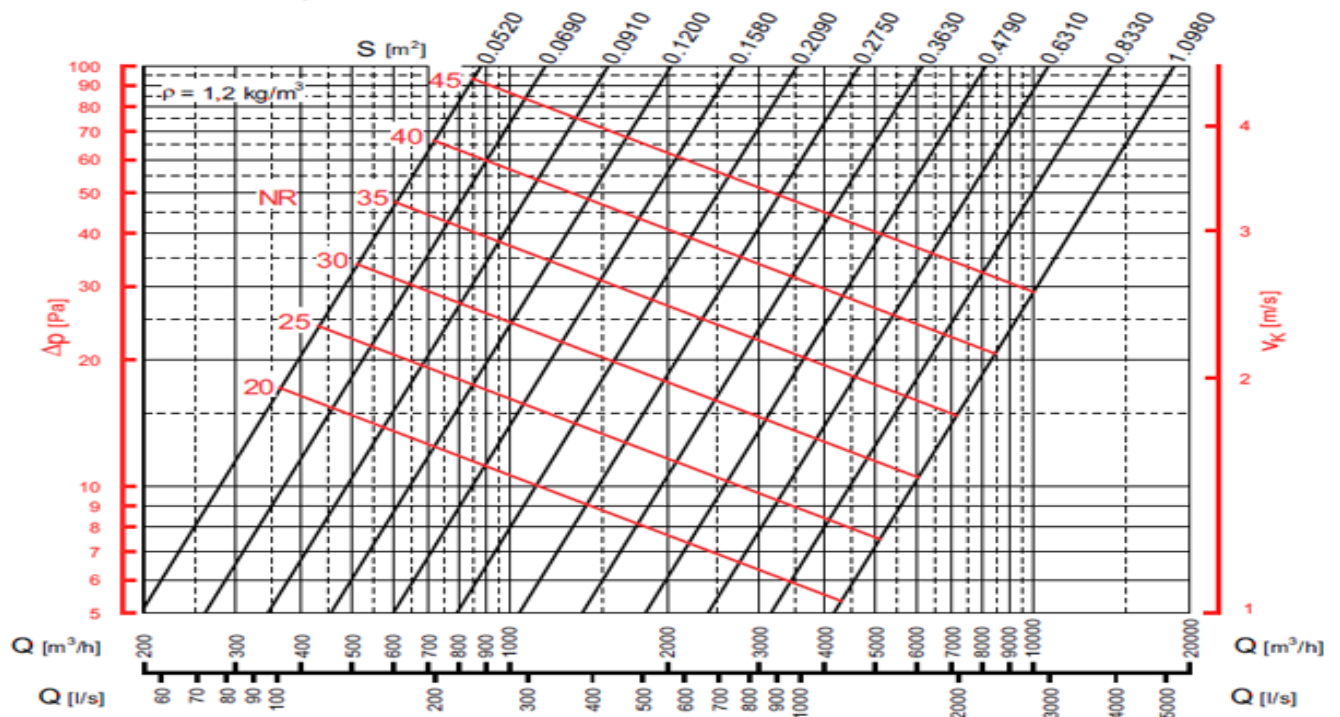


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STL-064, PRESSURE DROP AND NOISE LEVELS



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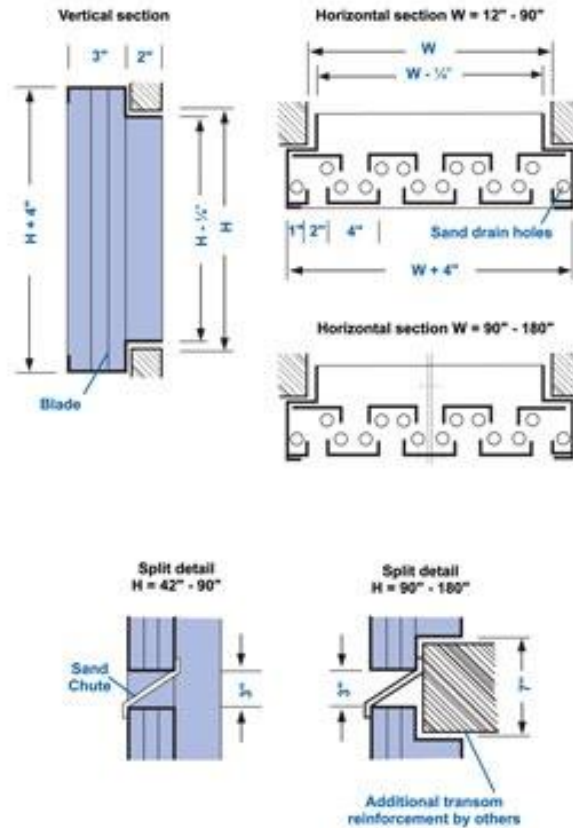
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SAND TRAP LOUVER STR

Fresh Air Sand Trap Louver With Vertical Fixed Blades



Product Description

- The louver is used for sandy areas to separate sand from intake air.
- The frame and blades from formed mill finish aluminum sheet.
- Provided with self emptying sand drain holes from the base.
- As an option an expanded galvanized bird screen.



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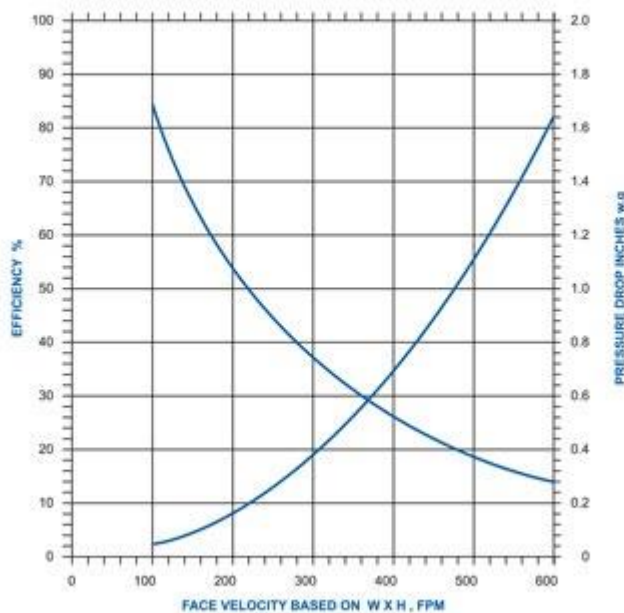
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PERFORMANCE DATA

Effective Pressure Area FT²

Listed Height (inches)	Listed Width (inches)													
	12	18	24	30	36	42	48	54	60	66	72	78	84	90
12	0.31	0.47	0.64	0.79	0.96	1.12	1.28	1.44	1.60	1.77	1.93	2.09	2.25	2.41
18	0.47	0.72	0.96	1.21	1.45	1.70	1.94	2.19	2.43	2.68	2.92	3.17	3.41	3.66
24	0.64	0.96	1.29	1.62	1.95	2.28	2.60	2.93	3.26	3.59	3.92	4.24	4.57	4.90
30	0.79	1.21	1.62	2.03	2.44	2.85	3.27	3.68	4.09	4.50	4.91	5.32	5.73	6.15
36	0.96	1.45	1.95	2.44	2.94	3.43	3.93	4.42	4.92	5.41	5.91	6.40	6.89	7.39
42	1.04	1.57	2.11	2.65	3.19	3.72	4.26	4.79	5.33	5.87	6.40	6.94	7.47	8.01
48	1.20	1.82	2.44	3.06	3.68	4.30	4.92	5.54	6.16	6.78	7.40	8.02	8.64	9.26
54	1.36	2.06	2.77	3.47	4.17	4.87	5.58	6.28	6.98	7.69	8.39	9.10	9.80	10.50
60	1.52	2.31	3.09	3.88	4.67	5.45	6.24	7.03	7.81	8.60	9.39	10.17	10.96	11.75
66	1.69	2.55	3.42	4.29	5.16	6.03	6.90	7.77	8.64	9.51	10.38	11.25	12.12	13.00
72	1.85	2.80	3.75	4.71	5.66	6.61	7.57	8.52	9.47	10.42	11.38	12.33	13.28	14.23
78	2.01	3.04	4.08	5.12	6.15	7.19	8.23	9.26	10.30	11.33	12.37	13.41	14.44	15.48
84	2.17	3.29	4.41	5.53	6.65	7.77	8.89	10.01	11.13	12.25	13.37	14.49	15.61	16.72
90	2.33	3.53	4.74	5.69	7.14	8.35	9.55	10.75	11.96	13.16	14.36	15.56	16.77	17.97



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Louver applications

- Aviation Industries
- Onshore & Offshore applications
- Commercial & Industrial Sectors
- Electrical Substations
- Building Vents
- Commercial and Industrial Duct Systems
- Parking Garage Ventilation
- General Ventilation

Key features

- Design Flexibility.
- Hurdle free installation.
- Swift delivery upon 100% Production confirmation.
- Technical & after sales support.
- Architecturally aesthetic appearance.
- All sizes are custom fabricated to meet project requirements.

Airflow Ac's Sand Trap Louvers are designed and manufactured for Exposed and Flush mounting options, depending on application:

- With primary 12mm or 25mm Thick. Aluminium filters.
- With secondary pre filters.
- Combination with Volume Control Damper

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Standard Construction Details

Frame 1.5mm Thick Extruded Aluminium Profiles

Blade 1.2mm Thick. Extruded Aluminium 'U' shaped

Vertical Blades of 100mm.

Filter / Filter Media / Screen

Aluminium or Galvanized Louver Screens are fabricated fastened to ensure the highest product Quality and durability. Standard Screen size 12 x 12 x 1.0 mm thick galvanized steel Sand Drain Holes Self draining slots at the bottom of the Louver.

Finish & Colour

Standard Powder Coating finish as per RAL Colour Codes. The following custom based optional coatings / finish are also available on request.

- Super-Durable Polyester Powder Coating (SDF)
- Hyper-Durable Fluorocarbon Polymer Coating (HDF)
- Polyvinylidene fluoride coating/KYNAR Coating (PVDF/KYNAR)

The above finishes complies to AAMA 2603 / 2604 / 2605 requirements with 20-year limited Warranty against failure or excessive fading.

Construction

Two rows of vertically arranged 'U' Shaped channel sections to form a labyrinth for the air path. Bottom frame will be having self-emptying Sand Drain Holes, ensuring sand rejection for self-cleaning and maintenance free.

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