



 **AIRONIX**

'U name it, V make it'

AIRONIX STEEL & ALUMINIUM WORKS



LOUVERS

ISO 9001:2015 Certified

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EXHAUST & FRESH AIR LOUVERS

The Aluminium Exhaust & Fresh Air Louvers of **AIRONIX** are used both internally and externally in building for the extraction of re-cycled air, intake of external fresh air or the expulsion of contaminated air. The quality of the material used and the particular inclination of the blades at 60° angle downward offer a weather resistant Louvers which gives good protection against the direction ingress of rain, leaves and birds.

Can also be used directly installed on walls for the ventilation of industrial areas. Also suitable for the use with an adjustable or overpressure damper for the air flow and pressure control.



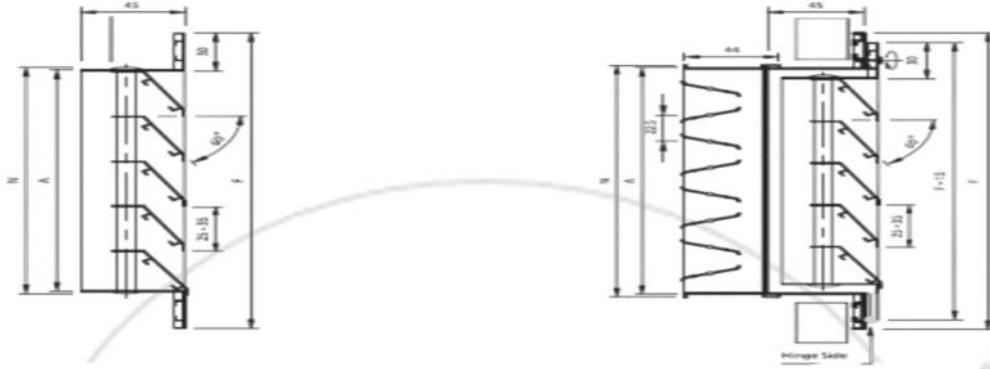
Features & Characteristics:

- Construction: Frame & blades are made of high quality Extruded aluminium Profiles of 6063 Alloy.
- Frame Flange width: 30 mm
- Blades: Louvered type arranged horizontal and inclined downward to 60° angle in order to:
 - Prevent the ingress of rain water.
 - Prevent the ingress of light.
 - Block vision while straight viewing
 - Be suitable for external walls and screening applications.
- The blades are positioned on 25 mm minimum centers up to 35 mm maximum centers resulting in high area to provide minimum resistance to air flow.
- Available in wide variety of neck size with 100 X 100 mm minimum single section size and 2 mtr single section height. Louvers height exceeding 2 mtr to be fabricated and supplied in multiple section depending on length and height dimension as well as site conditions.
- The assembly of multiple section is unlimited, where each section operates independently.
- Multiple section: Supplied as separate section and assembly by others on site.
- The Fresh Air Louvers is suitable for the use in air inlet of fresh air ducts and air handling units. It's also suitable for the use at dirty air exhaust discharge.
- Wire mesh screen of galvanized steel is attached to the interior face of the louver as an option, mesh size 3 X 3 mm.
- Exhaust air louvers are available with different type of attachments such as:
 - Opposed Blade Damper.
 - Aluminium Filter.
 - Both Damper and the Filter.
 - Insect SS net mesh



Exhaust air louvers Construction and Dimensional Details

Wire Mesh (optional)



- Wire Mesh (optional)
-
- For Opposed Blade Damper.
- Double Frame Louvers are provided with door hinge from one and screw from other side allowing the second frame (inner one) to act as an access door to the Opposed Blade Damper.

N: Nominal / Listed Size = Length (L) X Height (H)

A: Actual Size = (L-10) X (H-10)

F: Face Size = (L+50) X (H+50)

- Exhaust Air Louvers furnished approximately 10 mm less than the Nominal/Listed Size.
- All dimension is in mm and subject to ± 1 mm tolerance

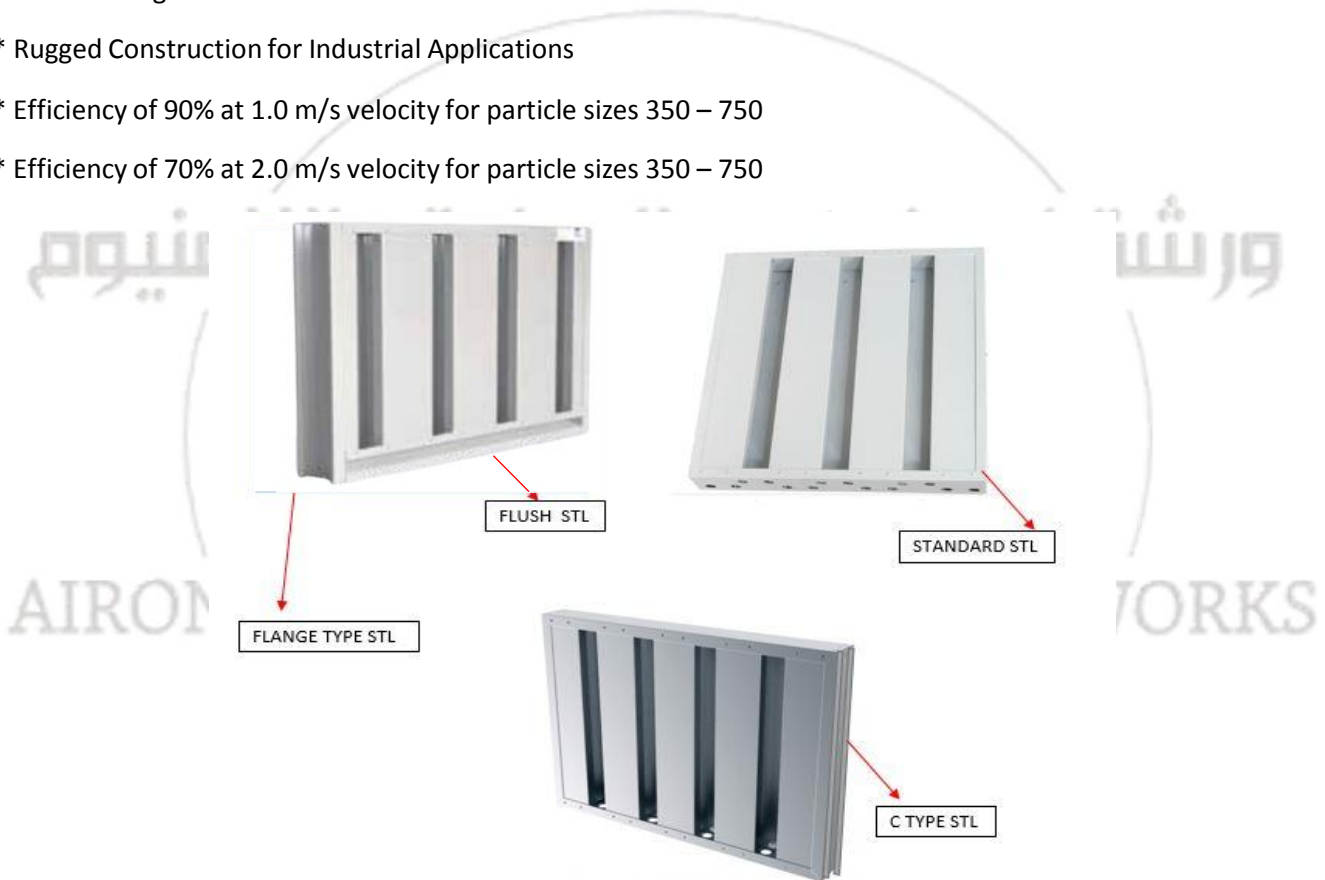
SAND TRAP LOUVERS

AIRONIX Sand Trap Louver is used as a Filter for protection of AC plants in areas exposed to high levels of dust and sand particles. This is a case in Middle East, in almost all fresh air intakes. Sand Trap Louvers have a high degree of Sand Separation and other coarse dust particles.

Aironix STL has vertically arranged sections with self-cleaning holes to have a maintenance free operation of these louvers.

Exceptional Features of AIRONIX STL are:

- * Self Cleaning & Maintenance Free
- * Rugged Construction for Industrial Applications
- * Efficiency of 90% at 1.0 m/s velocity for particle sizes 350 – 750
- * Efficiency of 70% at 2.0 m/s velocity for particle sizes 350 – 750

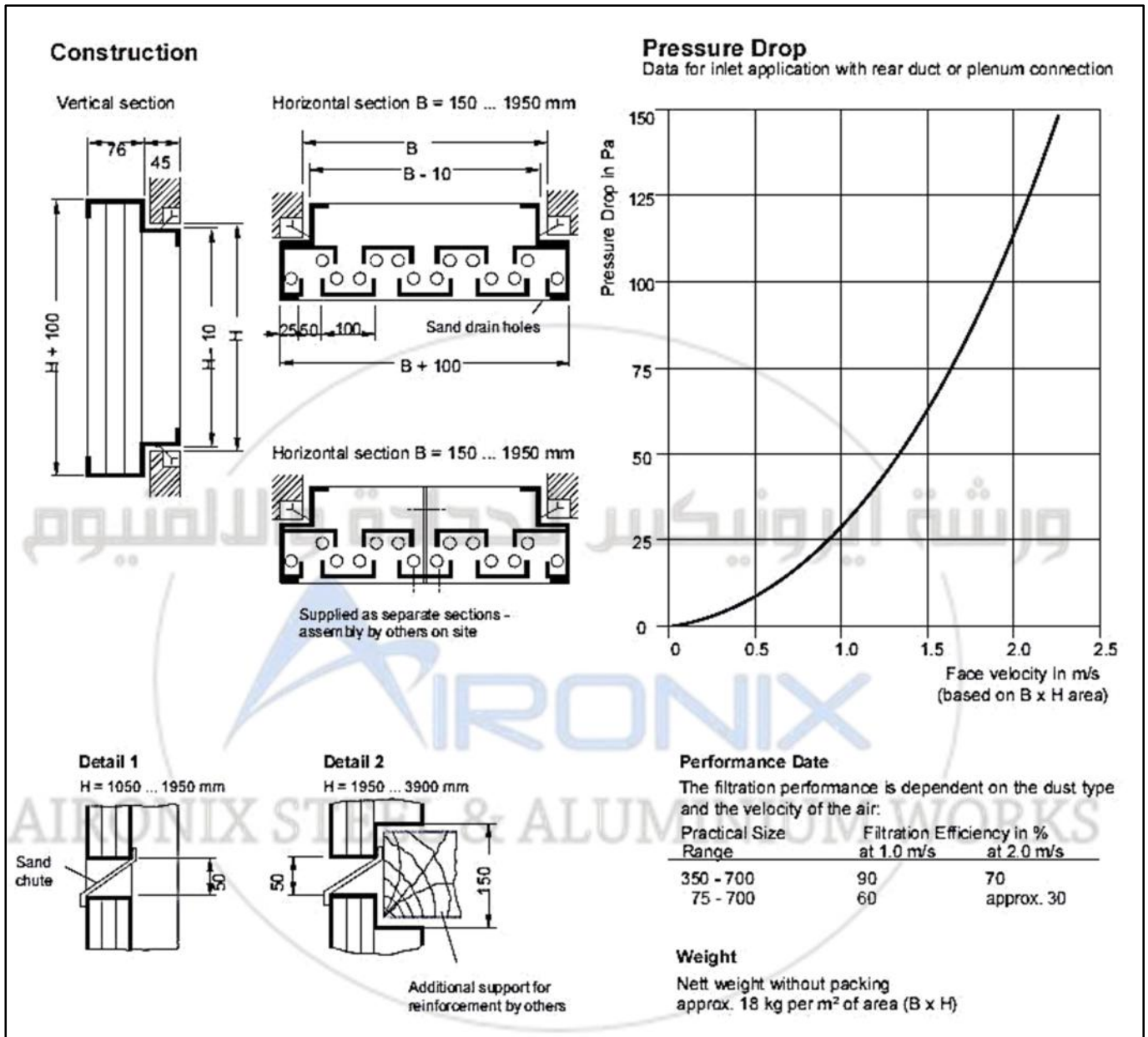


For normal operating conditions the Louver should be rated for a face velocity of 1.0 m/s. Area of the louver assembly required will be determined by equation = Q/v

(where Q = Air flow through louver & v = Design velocity)

Single Section Sizes:						
Width B in mm:						
150	300	450	600	750	900	1050
	1200	1350	1500	1650	1800	1950
Height H in mm:						
150	300	450	600	750	900	1050
	1200	1350	1500	1650	1800	1950

SAND TRAP LOUVERS



Material Details:

All types and models of Sand Trap Louvers are available in ALUMINIUM or Galvanized Steel (GI); according to the design and application.

Types:

FLUSH – FLANGE – STANDARD – ‘C’ TYPE

GRAVITY AIR LOUVERS

ورشة ايرونيكس للحداة والالمنيوم

AIRONIX
AIRONIX STEEL & ALUMINIUM WORKS

AIRONIX Gravity Air Louvers are intended for exhaust ventilation systems and used as a non-return air valve for automated closing of openings and switching off the ventilator. Frames are fitted with easily rotating aluminum louvers, mounted in a frame. Louvers are installed in such a way that when the ventilator is switched off they are closed by gravity. Grilles are mounted in air ducts or windows by means of concealed clips fitted on side walls of the frame.

Features:

Material: Aluminium extruded profile frame, aluminium louver.

Construction: Fitted with easily rotating aluminum louvers, mounted in a frame.

Powder Coating Colour: RAL 9010, RAL 9016 or customized.

Cores: Non-removable.

Frame: Louver face.



ROUND EXTERNAL LOUVERS

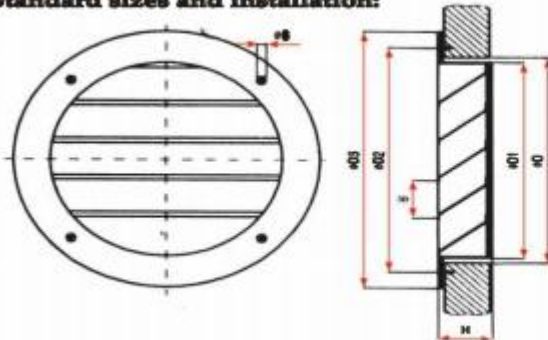
AIRONIX round external louvers are for air exhaust or supply made of molded aluminium. Inclined aluminium blades prevent water to access the air duct. An optional insect screen is attached behind the face.

Features:

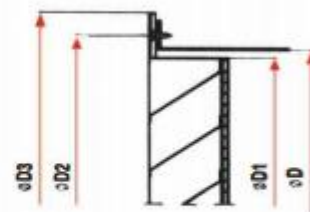
- Made of molded aluminium
- Natural aluminium color
- Insect screen behind face
- Designed to have sturdy construction.
- Blades are fixed to the main frame using screws and riveted to the mullions for bigger sizes
- Weather resistant structure with blades inclined at an angle of 45° to protect against rain water penetration.
- Assembly provides around 45% effective pressure area



Standard sizes and installation:



Installation on the round tube via the flange.



Certificate of Registration

ISO 9001:2015

*This is to Certify that
Quality Management Systems of*

AIRONIX STEEL & ALUMINIUM WORKSHOP

**PO Box 1404, New Industrial Area
Umm Al Quwain, UAE**

has been assessed and found to conform to the requirements of

ISO 9001:2015

for the following scope:

**Smithery and Welding Workshop, Aluminium & Glass
Installation Workshop.**

Certificate No.	: 179AGA2901	
Initial Registration Date	: 17.08.2020	Issuance Date: 19.08.2020
Date of Expiry *	: 18.08.2023	
1st Surve. Due	: 18.08.2021	2nd Surve. Due : 18.08.2022



Director

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*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawal).

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