



FilVane Droplet Separators

Description

The Filvane weather protection louver is designed to be used as an intake louver in comfort or industrial installations that have stringent demands on effective rain protection.

The louver works well in installations where water, rain and moisture problems occur, e.g. marine environments, coastal areas and suchlike. Its high level of separation, up to 99% rain, is achieved thanks to its specially developed profiles, which put turbulence into the air and, at the same time, captures water droplets.

The design of the profiles also contributes to an extremely low pressure drop and low noise level. The louver is in house tested

Design

The Filvane weather protection louver consists of a frame in Carbon steel or stainless steel option. The blades are made from marine grade Aluminum, PP or PVC and is specially designed to protect against rainwater, while providing a low air resistance.

The weather resistant materials contributes to a long service life. The louver can be provided with a drainage gap or a drainage pipe at the bottom as desired. Mounting can be optional with flange or fastening ears.

Air Velocity

Recommended air velocity over the louver is 1 – 5 m/s.

Sizes

The Filsure weather protection louver is manufactured in a large number of dimensions with installation dimensions up to 2500 x 2500 mm. The depth is 100, 150 mm.

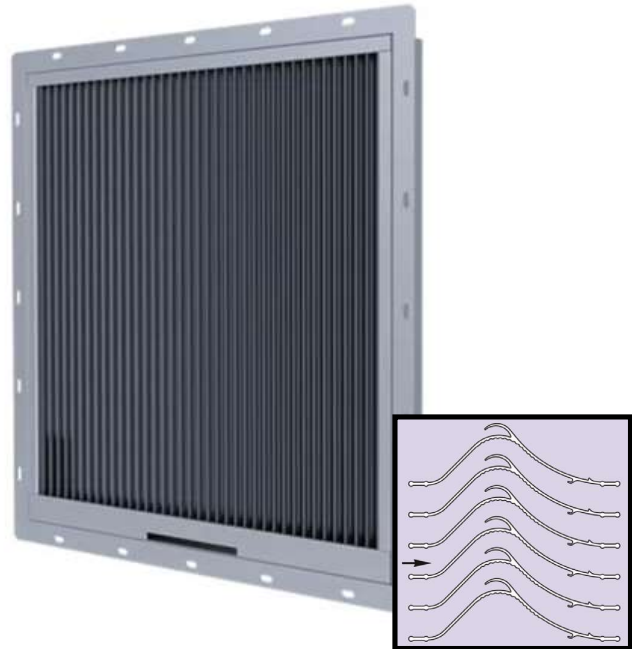
For multi-vane configuration depth is > 200 mm.

Accessories

Electric heat tracing / defrosting (For Anti Icing system configuration)

Handling

Handle the assembly with care and profile in vertical condition.



FilVane-100

Weather protection louvers

How to Order FilVane-100

For order codes and specifications, See "How to order" section

Weight

Approx 30 kg / sq. meter (Face Area)

Separation efficiency

The separation efficiency applies from droplet size 20 µm at air velocity 3 m/s.

Maintenance

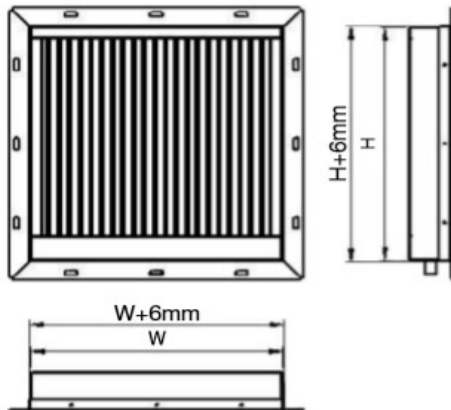
We recommend preventive maintenance of the louvers/grilles for optimum performance. Check once a year and clean the louver blades as necessary.

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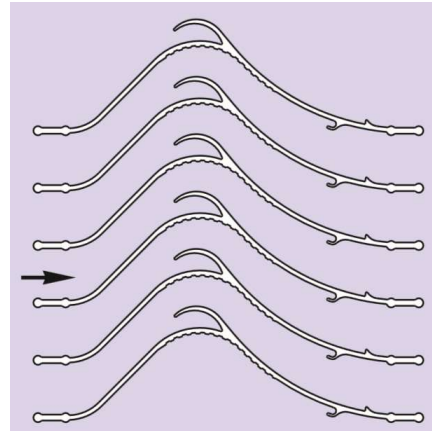
Weather protection louvers

Technical Data

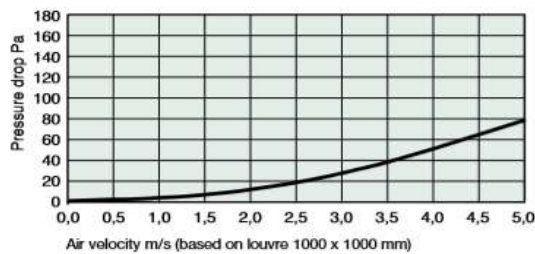
Dimensions



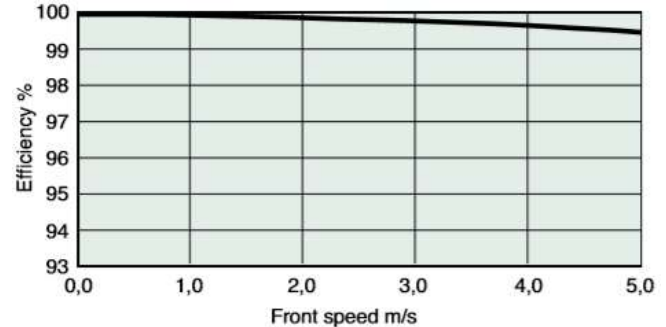
Vanes Profile



Pressure drop



Droplet separation efficiency



Sound power level

A-Weighted sound power level <70 dB(A) for single stage louvers and face air velocity < 2.7 m/s.

Drain connection

- Pipe / long pipe drain
- Flange connection
- Direction of drain connections on (Seeing from inlet flow direction of air/gas)
 - Left hand side
 - Right hand side
 - Center point

Weather protection louvers

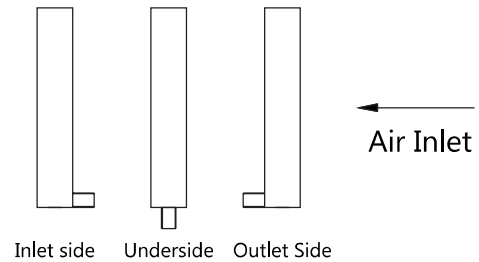
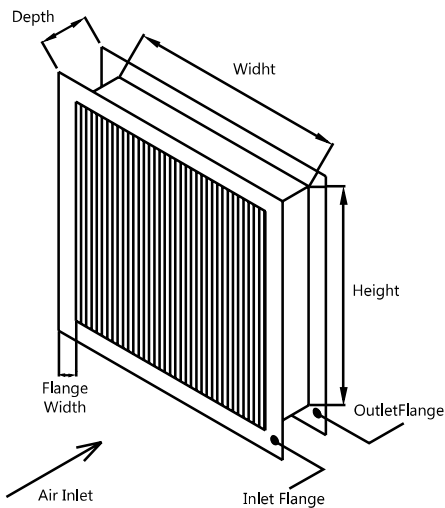
How to order

	FilVane 100	FilVane 100-HC For heated vanes
Material	PP, PVC,AL,SS 304,SS 316	AL, SS 304, SS 316
Heating cable	Not applicable	HC1 - 1 phase, HC3 -3 Phase
Width	Min. 300 mm. - Max. 2500 mm.	Min. 300 mm. - Max. 2500 mm.
Height	Min. 300 mm. - Max. 2500 mm.	Min. 300 mm. - Max. 2500 mm.
Depth	110 mm. (Single Vane)	110 mm. (Single Vane)
Drain type	Pipe, Flange	Pipe, Flange
Mounting flange type	No flange, All Around	No flange, All Around
Flange width	30 mm. , 50 mm.	30 mm. , 50 mm.
Flange position	Inlet , Outlet	Inlet, Outlet
Self regulation / controlling	Not applicable	Required between +5 /- 5 Deg.C
Hazardous area (Electrical)	Not applicable	No,ATEX, IECEx, NEC 500, Other

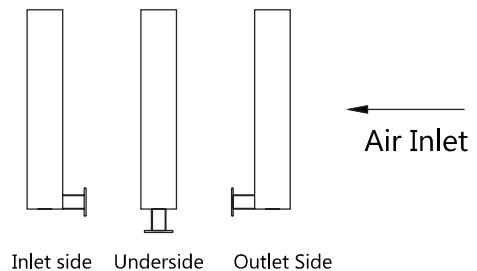
Example

FV100-AL-HC1-2200-2200-110-P-AA-50-I-SR-ATEX

FV100 FilVane 100
 AL Aluminum Vanes
 HC1 Heat trace cable, Single phase
 2200 Width - 2200 mm.
 2200 Height - 2200 mm.
 110 mm. Depth
 P Pipe drain
 AA All Around flange connection
 50 50 mm. Flange width
 I Flange at Inlet side
 SR Self regulating cable
 No No Electrical hazardous area



Drain Pipe



Drain Flange

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