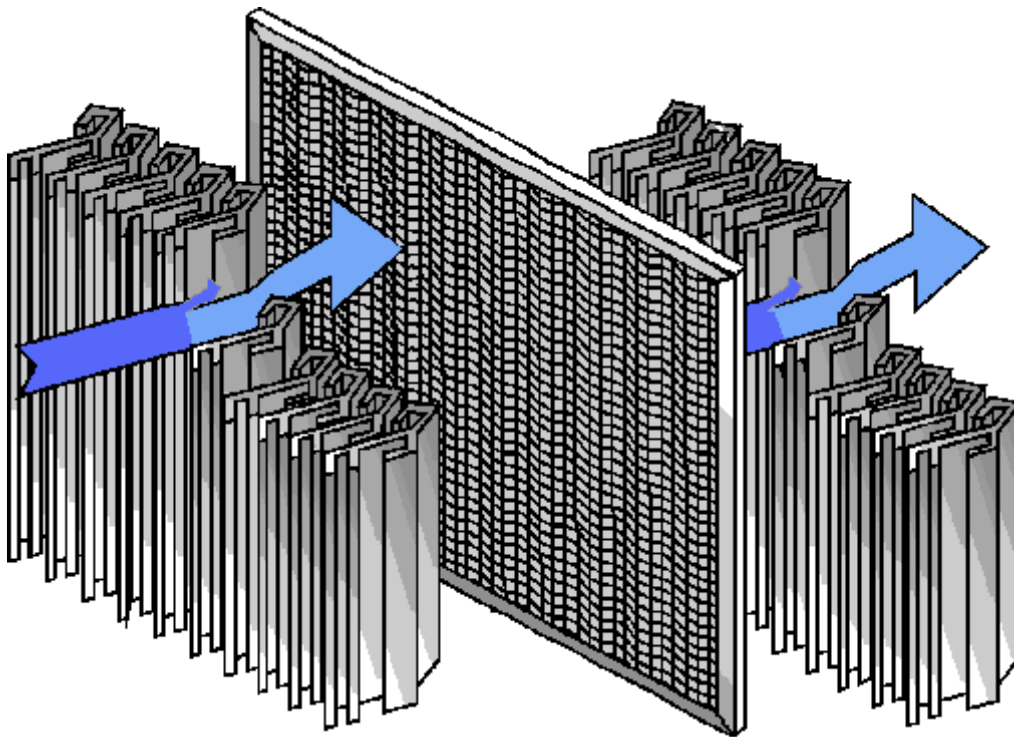


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## *Airefil* 3 Stage Building Storm Louvres

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Three stages are required for higher air velocities - up to 9.0 m/s. At high velocities the first louvre stage removes heavy water loads but leaves fine salt particles, which impact the coalescer stage. These form droplets on the coalescer and because of the high airflow, may be pulled off the coalescer back into the air stream to be removed by the third stage louvre.

A three-stage system with the coalescer replaced by a filter provides protection against water ingress as well as filtration of up to 95% (F8) depending on the filter selection.

The *Airefil* 3 Stage Building Storm Louvre is specifically designed for building intake systems which are exposed to the most raw elements of nature. The system minimizes air system corrosion in even the most harsh environments. Similar units have been used on offshore platforms, shore based gas turbine inlets and for air intakes on marine vessels with gas turbines for many years. Now a version suitable for buildings is available.

The system removes large quantities of airborne water and salt spray at velocities up to 9 m/s with minimal pressure loss across the filters. Because of operation at high velocities the unit is ideally suited for use in buildings which are situated near or around coastlines in typhoon-prone areas. They can also be used in applications where space is severely limited. They are custom built to project requirements and come complete with in-built drains, exit piping and specially designed cleanable manometric traps.

### **Cleaning:**

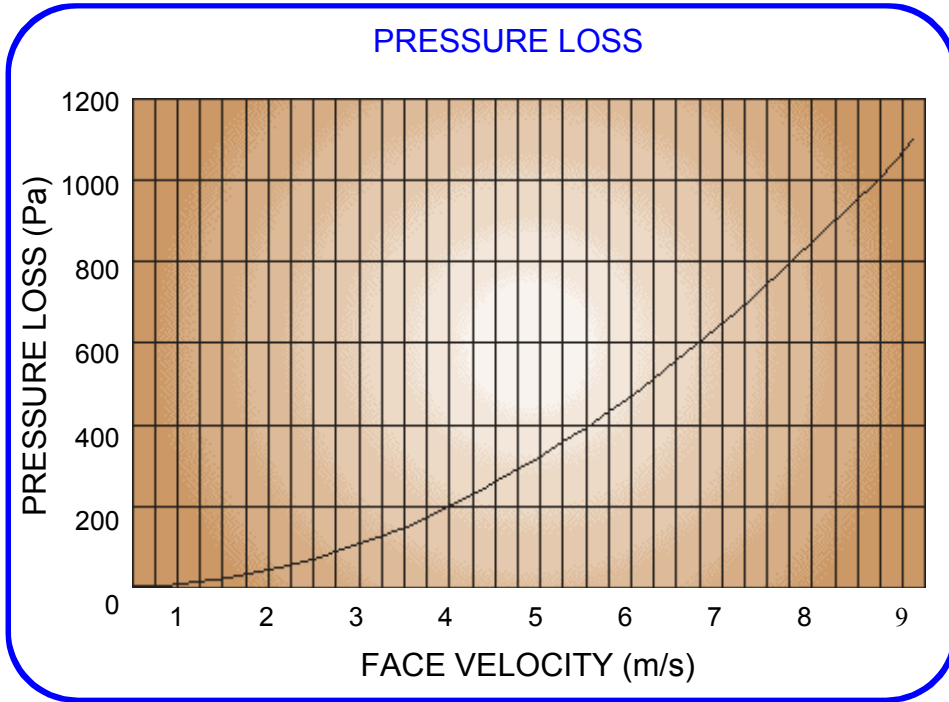
Louvres are generally self-cleaning. In a particularly dusty situation, a high-pressure hose may be used.

*Air Care Technology Ltd continuously strives to improve the design and quality of our products, and we reserve the right to change or discontinue any product at our discretion without notice or obligation.*



*Clean Air Systems and Products*

## Performance Data



Performance	
Water Handling Capacity	240 litres/min per meter width of vane
Maximum Face Velocity	9.0 meters/sec
Efficiency with GT2 Coalescer	0.01 ppm against NGTE - 30 knot aerosol

*This data is a guideline only. For more detailed information please contact Air Care Technology Ltd.*

## Storm Louvre

Constructed of marine grade anodized aluminium, the storm louvre achieves maximum possible water loading with minimum weight and pressure losses. Air is drawn through a series of specially designed louvres which trap the water. It then runs vertically down to a drainage channel and finally into a specially designed manometric trap.

## GT2 Filter Coalescer Panel

Consists of a special polymer media sandwiched between stainless steel welded wire mesh. This structure is corrugated and retained in a stainless steel housing. The GT2 reduces airborne salt spray and dust contaminants down to usual design requirements.

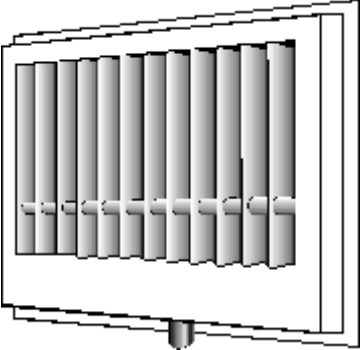
## Other Filters

Increased filtration efficiency up to 0.0013 ppm against NGTE 30 knot aerosol is achieved by replacing the GT2 with another filter:

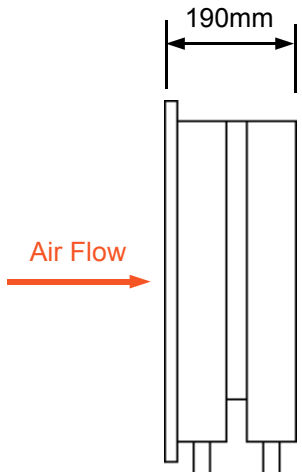
**Airefil** HE 10 or HE 12 industrial washable barrier filters are available for long life in high dust-load applications.

**Airefil** S-Series Bag filters are available for high-flow applications.

**Airefil** salt filters are rigid filters with F8 efficiency which are designed specifically for salt-removal applications.



Sizing Information	Width	Height
Ships Opening	W	H
Over Flanges	W + 80mm	H + 80mm
Open Face Size (Use for pressure loss)	W - 60mm	H - 180mm
Overall Depth (with GT2):		190mm



The 3 stage system can be provided with either a front flange [as shown] or a rear flange. Please contact our engineering department to confirm details.



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### Related Products:

- Airefil** S-Series Bag Filters
- Airefil** Building Storm Louvres
- Airefil** 2 Stage Building Storm Louvres
- Airefil** GT2 Filter Coalescer Panel
- Airefil** HE10 & HE12 Industrial Barrier

### Data Sheets:

- E54110
- E54117
- E54118
- E54126
- Sheet N/A