



## Salt Proof Air Filter

|                |  |                                    |                              |
|----------------|--|------------------------------------|------------------------------|
| Testing Method | Dot Spot Efficiency (in NBS Testing Method)    | Arrestance (in AFI Testing Method) | MERV                         |
|                | 90~95%   | > 99%                              | 14                           |
|                | By ASHRAE Standard 52.1-1992 (Equal to EN 779) |                                    | By ASHRAE 52.2-1999 Standard |

### Usage:

1. Buildings, Hotels, Resort Centers.
2. Factories located along the beach.
3. Nuclear Power Plants, Heat Power Plant to prevent electrical insulation due to corrosion.
4. Semiconductor plants to eliminate sodium to have any **adverse effects** on products.
5. Process of Precision machinery to decrease defective products happen and eliminate the impaction of raw materials proportion.

### Features:

Salt Proof Air Filters are specially designed for the environment like factories, buildings which are located along the beach, Nuclear Power Plants and etc. Most of particle size of salt is poly-dispersed and in the range of 0.5 $\mu$ m to 30 $\mu$ m. AIRREX Salt-Proof Air Filter provides a 95% high efficiency in salt holding capacity. The salt will not spray again or hydrolyze by moisture when it is caught by the filter.

### Construction:

The particle size of salt is in a range of 0.5 $\mu$ m to 30 $\mu$ m. The filter media contains two layers of fiberglass materials in different densities. The rough layer can catch the larger particle size in order to reduce the load of dense media and extends filter's life span.

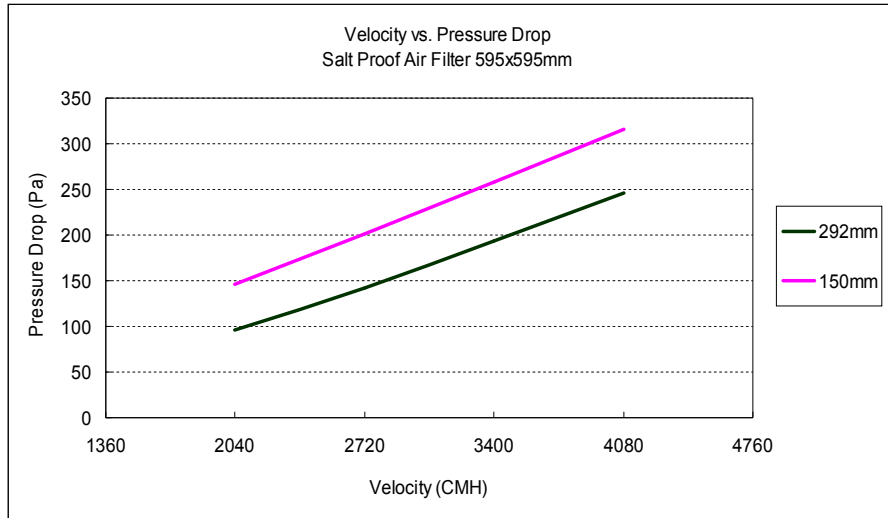
**Media:**

The filter media is contained two layers of glass microfiber in different densities. Media is with excellent water repellency, and provides 95% high efficiency in salt holding capacity (per ASHRAE 52.1-1982 standard, in NBS Test Method).

Both edges of aluminum separators are rolled to prevent media tearing and provide maximum integrity.

**Outer Frame:**

The frame is available for Wooden and Metal Frame (Galvanized Steel, Aluminum and Stainless Steel) in box type or header type.



**Performance Data - Salt Proof Air Filter**

| Efficiency (%)               |                     | Nominal Size (W*H*D) | Actual Size (W*H*D) | Rated Capacity (CMH) | Pressure Drop (Pa) |                  |
|------------------------------|---------------------|----------------------|---------------------|----------------------|--------------------|------------------|
| Dot Spot Efficiency (in NBS) | Arrestance (in AFI) | (inch)               | (mm)                |                      | Initial Resistance | Final Resistance |
| <b>Standard Capacity</b>     |                     |                      |                     |                      |                    |                  |
| 95                           | > 99                | 12*24*6              | 305*610*150         | 850                  | 117                | 300              |
|                              |                     | 24*24*6              | 610*610*150         | 1700                 |                    |                  |
|                              |                     | 12*24*12             | 305*610*292         | 1700                 | 167                | 350              |
|                              |                     | 24*24*12             | 610*610*292         | 3400                 |                    |                  |
| <b>High Capacity</b>         |                     |                      |                     |                      |                    |                  |
| 95                           | > 99                | 12*24*12             | 305*610*292         | 2125                 | 174                | 350              |
|                              |                     | 24*24*12             | 610*610*292         | 4250                 |                    |                  |

\*Special Sizes are available upon request.

## Material and Service Conditions

| Type               |  | Description                    |                             |
|--------------------|--|--------------------------------|-----------------------------|
| Construction       | Media                                  | Ultra-Fine Glass Fiber         |                             |
|                    | Support Grid                           | Corrugated Aluminum Separators |                             |
|                    | Sealant                                | PU Base                        |                             |
|                    | Gasket Material                        | Neoprene Rubber                |                             |
|                    | Frame Material                         | Wooden Frame                   | Metal Frame                 |
|                    | Frame Type                             | Box Type                       | Single Header               |
| Service Conditions | The maximum continuous use temperature | °C                             | 60                          |
|                    | Instant Highest Humidity               | % RH                           | 100 (No condensation state) |



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