



Air intake Filter Systems

Designer-Manufacturer-Exporter-Supplier





Air Intake Filter System

TURBINES, ENGINES, CENTRIFUGAL FANS, BLOWERS, & COMPRESSORS are common equipment for Industrial utility. They intake atmospheric air for its further operations. If moisture, dust, and varieties of solid particulate are present in the intake air, such contaminants can build up on the internal components such as valves, impellers, rotors, and vanes of the compressor, Turbines, Engines, Centrifugal Fans, Blowers . Such build-up can cause premature wear and reduce the efficiency. Therefore, it is recommended to install AIR Intake filters to avoid atmospheric dust particles coming with Air.

Construction

"FILTER CONCEPT" make Air intake filters are designed to meet required level of filtered air for Turbines, Engines, Centrifugal Fans, Blowers, & Compressors. They are constructed of Filter Housing, Air Filter Element and Weather Hood.

Air Intake Filter housings are constructed of Heavy Gauge Mild Steel sheet channel, Plate and sheet. Filter housings are supply along with flanged outlet connection having drilling of flanged as per ANSI B-16. 5. Internal and external surface of Filter Housing are preliminary coated with red oxide followed with final coat of synthetic enamel RAL 7035.

Air Intake Filter Element-Panel Filter

Panel filters are used in industries to retain particles ranging from 1 micron to 50 micron. These filters are basically air intake filters, which is working with negative pressure of systems.

Primary (Panel) filters are used for coarse filtration for removal of particles in range of 1 to 50 microns. Primary filters retain coarse particles to avoid further loading on secondary filters & enhance the life of secondary filter. Primary filters are cleanable in nature to obtain good shelf life.

Sizes

| Sl. No. | Model | Air Volume (m ³ /hr) | Filter Size (mm) | Flow/element (m ³ /hr) | No. of Filter | End Connection (D) (in mm) |
|---------|----------------------|---------------------------------|------------------|-----------------------------------|---------------|----------------------------|
| 1 | FCIAIF-A-35035050-4 | 1000 | 350×350×50 | 307 | 4 | 150 |
| 2 | FCIAIF-A-61035050-3 | 1500 | 610×350×50 | 577 | 3 | 200 |
| 3 | FCIAIF-A-61035050-4 | 2000 | 610×350×50 | 577 | 4 | 200 |
| 4 | FCIAIF-A-61061050-3 | 2500 | 610×610×50 | 865 | 3 | 250 |
| 5 | FCIAIF-A-61061050-4 | 3000 | 610×610×50 | 865 | 4 | 250 |
| 6 | FCIAIF-A-61061050-4 | 3500 | 610×610×50 | 865 | 4 | 300 |
| 7 | FCIAIF-A-610610100-3 | 5500 | 610×610×100 | 1827 | 3 | 350 |
| 8 | FCIAIF-A-610610100-4 | 7500 | 610×610×100 | 1827 | 4 | 400 |
| 9 | FCIAIF-A-610610150-3 | 8500 | 610×610×150 | 2788 | 3 | 400 |
| 10 | FCIAIF-A-610610150-4 | 11500 | 610×610×150 | 2788 | 4 | 500 |
| 11 | FCIAIF-A-610610200-3 | 12000 | 610×610×200 | 3749 | 3 | 500 |
| 12 | FCIAIF-A-610610200-4 | 15500 | 610×610×200 | 3749 | 4 | 550 |
| 13 | FCIAIF-A-610610300-3 | 17500 | 610×610×300 | 5672 | 3 | 600 |
| 14 | FCIAIF-A-610610300-4 | 18500 | 610×610×300 | 5672 | 4 | 600 |
| 15 | FCIAIF-A-610610300-4 | 20500 | 610×610×300 | 5672 | 4 | 650 |
| 16 | FCIAIF-A-610610300-4 | 23000 | 610×610×300 | 5672 | 4 | 700 |
| 17 | FCIAIF-A-610610300-4 | 25000 | 610×610×300 | 5672 | 4 | 700 |

Technical Specifications

Configuration

- Flange type
- Box type

Filter media

- HDPE Media
- Synthetic Fiber Media
- Spun bonded polyester media

Applications

- Turbines
- Engines
- Centrifugal Fans
- Blowers



Designed By: e-brandstudio.com

Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified Company)

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