



## FILTRAIR Pre-Filters and Media (G2 to G4)



### Application

Filtrair Pre-Filters are specifically designed to act as durable, low pressure drop pre-filters in combustion engine air intake systems. They significantly prolong the life of subsequent filter stages and increase their operational safety.

Products with pleated filter medium - types P2500, P2600 and P3000 - offer low pressure drop and high dust holding capacity. The pleated medium is framed and sealed in humidity resistant beverage board.

Media pad products - P2000 and P2100 - are easy to adapt to any size, cost effective and can also be used as coalescers in tropical climates and offshore.

### Filter Medium

Filtrair designs and manufactures its own synthetic filter media. Filtrair Pre-Filters (except type P2000) are all made with 100% synthetic depth-loading media of progressive density to ensure high dust holding capacity with lowest pressure drop.

### Features

#### Media pad products P2000 and P2100:

- ◆ For all types of environments, especially for those with high moisture and water mist content
- ◆ Filter medium acts as a perfect coalescer
- ◆ Easy to adapt to given sizes and cost effective
- ◆ Available in filter classes G2 and G3 / G4 (EN 779)

#### Pleated media products P2500, P2600 and P3000:

- ◆ For environments with high coarse dust content
- ◆ Low pressure drop - a fraction of that of a glass pad
- ◆ Increased media area - longer filter life - less changes
- ◆ Media sealed in humidity resistant beverage board frame
- ◆ Easy to handle and to install in front of final filter banks
- ◆ Available in filter classes G3 and G4 (EN 779)
- ◆ Problem-free disposal, e.g. by incineration

# Filtrair Gas Turbine Pre-Filters – Technical Specifications

| Fibre glass media pad                              |                          | Type              | P 2000           |
|--|--------------------------|-------------------|------------------|
| Actual size  | (length x width x depth) | mm                | 610 x 610 x 100  |
| Rated air flow $V_R$                               | (face velocity 2.55 m/s) | m <sup>3</sup> /h | 3400             |
| Initial pressure drop at $V_R$                     |                          | Pa                | 55               |
| Initial pressure drop at 4250 m <sup>3</sup> /h    |                          | Pa                | 70               |
| Recommended final pressure drop (filter change)    |                          | Pa                | 250              |
| <b>Filter class (EN 779: 2002)</b>                 |                          | –                 | <b>G 3 / G 4</b> |
| Avg. arrestance at $V_R$ for ISO/AC-Fine test dust |                          | %                 | 90               |



| Acrylic synthetic media pad                        |                          | Type              | P 2100         |
|--|--------------------------|-------------------|----------------|
| Actual size  | (length x width x depth) | mm                | 610 x 610 x 50 |
| Rated air flow $V_R$                               | (face velocity 2.55 m/s) | m <sup>3</sup> /h | 3400           |
| Initial pressure drop at $V_R$                     |                          | Pa                | 40             |
| Initial pressure drop at 4250 m <sup>3</sup> /h    |                          | Pa                | 50             |
| Recommended final pressure drop (filter change)    |                          | Pa                | 250            |
| <b>Filter class (EN 779: 2002)</b>                 |                          | –                 | <b>G 2</b>     |
| Avg. arrestance at $V_R$ for ISO/AC-Fine test dust |                          | %                 | > 65           |

| Pleated synthetic media filter with frame*         |                          | Type              | P 2500         | P 2600         |
|--|--------------------------|-------------------|----------------|----------------|
| Actual size  | (length x width x depth) | mm                | 594 x 594 x 92 | 594 x 594 x 92 |
| Rated air flow $V_R$                               | (face velocity 2.55 m/s) | m <sup>3</sup> /h | 3400           | 3400           |
| Initial pressure drop at $V_R$                     |                          | Pa                | 70             | 85             |
| Initial pressure drop at 4250 m <sup>3</sup> /h    |                          | Pa                | 95             | 120            |
| Recommended final pressure drop (filter change)    |                          | Pa                | 350            | 350            |
| <b>Filter class (EN 779: 2002)</b>                 |                          | –                 | <b>G 3</b>     | <b>G 4</b>     |
| Avg. arrestance at $V_R$ for ISO/AC-Fine test dust |                          | %                 | > 80           | > 90           |
| ISO/AC-Fine dust holding capacity up to 250 Pa     |                          | g                 | 700            | 600            |

## Remarks:

- ◆ Maximum continuous operating temperature:  
≤ 70°C (short peaks up to 100°C)
- ◆ Admissible relative humidity of air for pleated products:  
≤ 100%
- \*) Humidity resistant beverage board frame with pleated polyester media, backed-up with expanded metal grid.

| Pleated synthetic media filter with frame*         |                          | Type              | P 3000          |
|--|--------------------------|-------------------|-----------------|
| Actual size  | (length x width x depth) | mm                | 597 x 597 x 100 |
| Rated air flow $V_R$                               | (face velocity 2.55 m/s) | m <sup>3</sup> /h | 4250            |
| Initial pressure drop at $V_R$                     |                          | Pa                | 130             |
| Initial pressure drop at 3400 m <sup>3</sup> /h    |                          | Pa                | 95              |
| Recommended final pressure drop (filter change)    |                          | Pa                | 350             |
| <b>Filter class (EN 779: 2002)</b>                 |                          | –                 | <b>G 3</b>      |
| Avg. arrestance at $V_R$ for ISO/AC-Fine test dust |                          | %                 | > 82            |
| ISO/AC-Fine dust holding capacity up to 375 Pa     |                          | g                 | 1150            |



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