

# High-Flow Emflon® Filter (1.5 nm)



Data Sheet MEHFEENC

## Description

The High-Flow Emflon filters are designed for bulk nitrogen and clean dry air applications in the LCD and semiconductor industries where flow rates exceed 2,000 Nm<sup>3</sup> / h / 1,000 SCFM.

- High particle retention
- Exceptionally high flow rates
- Low differential pressure
- 100% integrity tested
- Flow rates up to 6,500 Nm<sup>3</sup> / h / 3,826 SCFM

## Features & Benefits

- A single 1,016 mm / 40 in HFE filter can replace up to (30) standard 254 mm / 10 in long x 70 mm / 2.75 in diameter cartridges. This allows for the use of smaller housings which will lower capital investment and offers a smaller installation footprint
- Reduced time for filter replacements



## Specifications

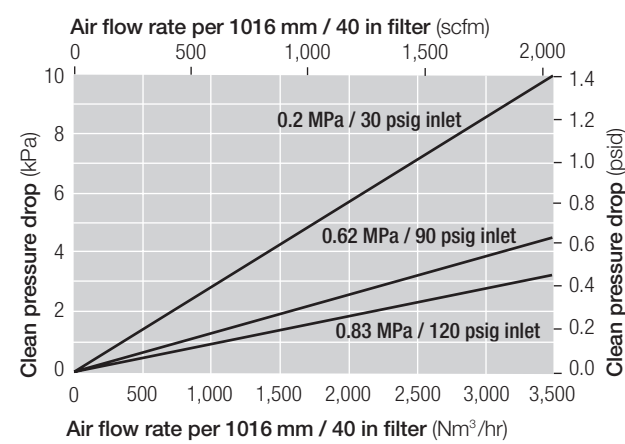
### Materials of Construction

| Components        | Materials            |
|-------------------|----------------------|
| Filter Medium     | PTFE                 |
| Media Support     | Polypropylene        |
| Cage and End Caps | Polypropylene        |
| Internal Core     | 316L Stainless steel |
| U-cup Seal        | EPR                  |

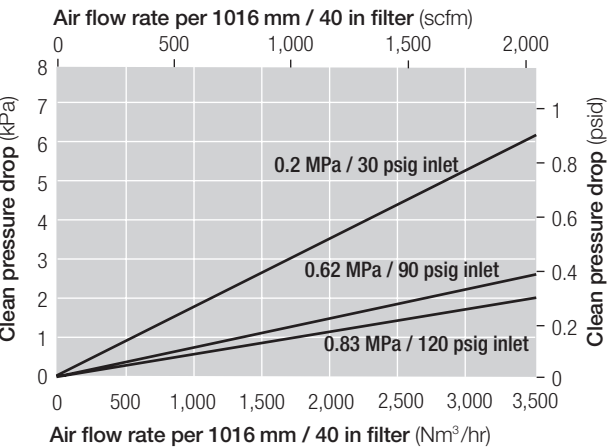
| Configurations                        | 20 inch                                 | 40 inch                                  |
|---------------------------------------|---|--|
| Nominal Filter Areas                  | 4.6 m <sup>2</sup> / 50 ft <sup>2</sup> | 9.2 m <sup>2</sup> / 100 ft <sup>2</sup> |
| Nominal Length                        | 508 mm / 20 in                          | 1,016 mm / 40 in                         |
| Diameter                              | 171.5 mm / 6.75 in                      |  |
| Removal Ratings                       | FG : ≥ 1.5 nm / FN : ≥ 0.1 μm           |  |
| Maximum Operating Temperature         | 60 °C / 140 °F                          |  |
| Maximum Forward Differential Pressure | 0.276 MPa @ 60 °C / 40 psid @ 140 °F    |  |

Pressure Drop vs. Gas Flow Rate ( 20 °C / 68 °F )

FG grade



FN grade



Part Numbers / Ordering Information

HFE6 1 2 JU

Table 1

| Code | Cartridge Length (Nominal) | Flow Rate                              |
|------|----------------------------|--|
| 20   | 508 mm / 20 in             | 3,250 Nm <sup>3</sup> / h / 1,913 SCFM |
| 40   | 1016 mm / 40 in            | 6,500 Nm <sup>3</sup> / h / 3,826 SCFM |

Table 2

| Code | Removal Ratings |
|------|-----------------|
| FG   | ≥ 1.5 nm        |
| FN   | ≥ 0.1 μm        |

Representative example part numbers

HFE620FGJU  
HFE640FGJU  
HFE640FNJU

Filter Housings

High-Flow Emflon stainless steel filter housings are available in a wide variety of connection sizes, connection types, surface finishes and code requirements to meet your specific needs. Please contact your local Pall representative to discuss the appropriate housing for your application.