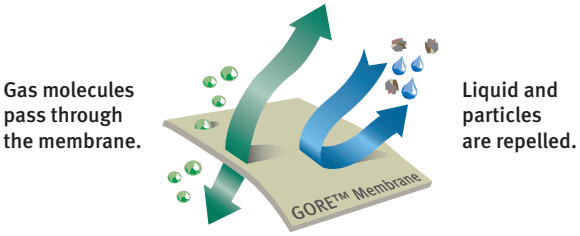
# GORE® Turbine Filters

***More Power, Less Wear***

## Hydrophobic Flange Top Cartridge E12 HEPA Filter

### Maintain High Power Output

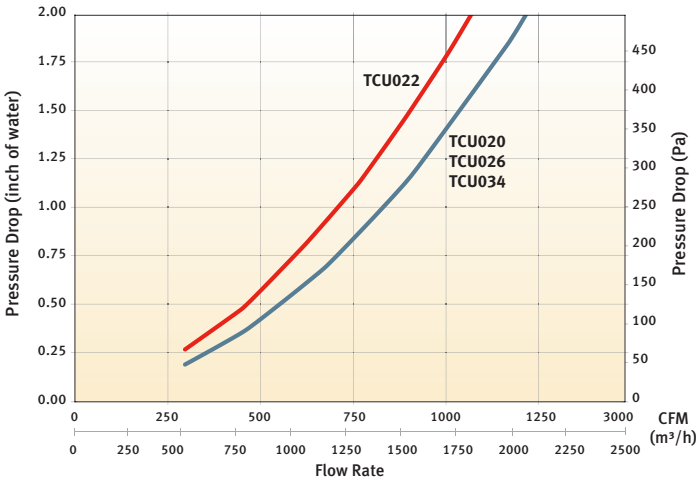
GORE® Turbine Filters provide filtration through use of a patented multi-layer construction to capture ≥99.5% of all contaminants and block water ingestion. This eliminates power losses and maintains clean compressor efficiency.




### Eliminate Off-Line Washes

By capturing or blocking all particulate, many users are able to eliminate shutdowns for water washing. This increases machine availability and reliability. Many turbines that use Gore filters have been running for tens of thousands of hours without the need to shut down for water washing.

**Low Pressure Drop**




### Stop Salt and Water Ingress

1. Gore's high efficiency (≥99.5%) multi-layer composite removes salt crystals and other submicron particulates from passing through the filter.
2. Gore's hydrophobic membrane blocks both water and dissolved salts from entering the compressor. This prevents corrosion damage which can contribute to unexpected failures and major outages.

### Key Features

- E12 filtration efficiency ≥99.5% at MPPS
- Hydrophobic membrane prevents water ingress
- Stops penetration of particles and dissolved salts
- High burst pressure
- Proven lifetime
- Low initial pressure drop

### Key Benefits

- Eliminates compressor fouling and associated power loss
- Reduces turbine wear
- Eliminates off-line water washings
- Maintains consistent low heat rate
- Reduces salt induced corrosion

**www.gore.com/turbinefilters**

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## Construction Materials

| | |
|---|---|
| Filter Media | Fully synthetic composite with ePTFE membrane |
| Structural Components | Galvanized (ASTM A653) G60 standard |
| Potting | Polyurethane |
| Gasket | EPDM rubber |

## Application Performance

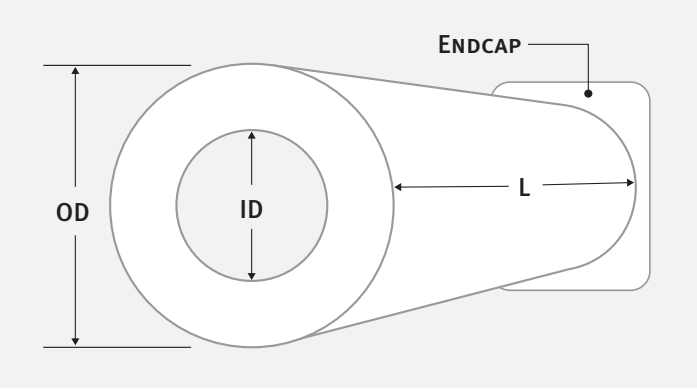
| | |
|---|---|
| Efficiency | E12 according to EN 1822<br>Min. 99.5 % @ MPPS |
| Wet Burst Pressure | › 7500 Pa (30 in wg) |
| Initial Pressure Drop | |
| **TCU020** | 140 Pa @ 1000 $m^3$/hr<br>(0.6 in wg at 588 cfm) |
| **TCU022** | 190 Pa @ 1000 $m^3$/hr<br>(0.8 in wg at 588 cfm) |
| **TCU026** | 140 Pa @ 1000 $m^3$/hr<br>(0.6 in wg at 588 cfm) |
| **TCU034** | 140 Pa @ 1000 $m^3$/hr<br>(0.6 in wg at 588 cfm) |
| Recommended Maximum dP | 1000 Pa (4 in wg) |
| Temperature Range | -40 °C to +65 °C (-40 °F to +149 °F) |

| Dimensions | Outside Diameter | Inside Diameter | Length |
|---|---|---|---|
| **TCU020** | 324 mm (12.75 in) | 211 mm (8.30 in) | 914 mm (36 in) |
| **TCU022** | 324 mm (12.75 in) | 211 mm (8.30 in) | 663 mm (26 in) |
| **TCU026** | 324 mm (12.75 in) | 211 mm (8.30 in) | 1014 mm (40 in) |
| **TCU034** | 324 mm (12.75 in) | 211 mm (8.30 in) | 864 mm (34 in) |

Direct replacement of most conventional filters with no modifications required to filter housing.

## Operational Mode

Static or pulse cleanable (for arctic or desert environments)




All data expressed as typical values. Please contact W. L. Gore & Associates directly to confirm current information and to verify data for a specific part number. Specifications are subject to change.

Contact a Gore application engineer for assistance in determining the appropriate GORE® Turbine Filter for your specific application.

**FOR INDUSTRIAL USE ONLY.**
**Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.**

**www.gore.com/turbinefilters**
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GTF-028-R3-DSH-US-NOV17