Hydrophobic HEPA Cylindrical Filters Maintain Clean Turbines

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
Construction Materials

Filter Media  | Fully synthetic composite with ePTFE membrane
Structural Components  | Galvanized (ASTM A653) G60 standard, G90 available upon request
Potting  | Polyurethane
Gasket  | EPDM rubber

Application Performance

Efficiency  | E12 according to EN 1822
Min. 99.5 % @ MPPS
Wet Burst Pressure  | > 7500 Pa (30 in wg)
Initial Pressure Drop
TCU017  | 220 Pa @ 1250 m³/h (0.9 in wg @ 736 cfm)
TCU018  | 195 Pa @ 1050 m³/h (0.8 in wg @ 618 cfm)
TCU019  | 225 Pa @ 1300 m³/h (0.9 in wg @ 765 cfm)
TCU037  | 285 Pa @ 1650 m³/h (1.2 in wg @ 971 cfm)
Recommended Maximum dP  | 1000 Pa (4 in wg)
Temperature Range  | -40 °C to +65 °C (-40 °F to +149 °F)

Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Outside Diameter</th>
<th>Inside Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCU017</td>
<td>324 mm (12.75 in)</td>
<td>213 mm (8.39 in)</td>
<td>660 mm (26 in)</td>
</tr>
<tr>
<td>TCU018</td>
<td>324 mm (12.75 in)</td>
<td>213 mm (8.39 in)</td>
<td>560 mm (22 in)</td>
</tr>
<tr>
<td>TCU019</td>
<td>324 mm (12.75 in)</td>
<td>213 mm (8.39 in)</td>
<td>680 mm (26.75 in)</td>
</tr>
<tr>
<td>TCU037</td>
<td>324 mm (12.75 in)</td>
<td>213 mm (8.39 in)</td>
<td>864 mm (34 in)</td>
</tr>
</tbody>
</table>

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.

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Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.