



GORE® Turbine Filters

More Power, Less Wear

Hydrophobic Composite E12 HEPA Filter With Optional Insert

Maintain High Power Output

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

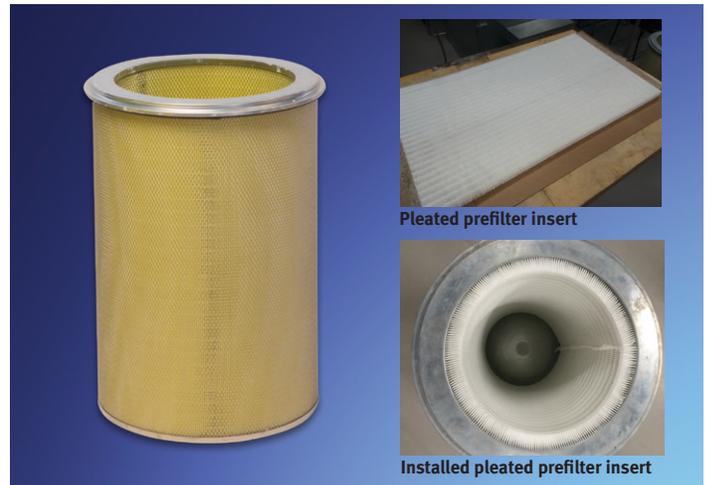
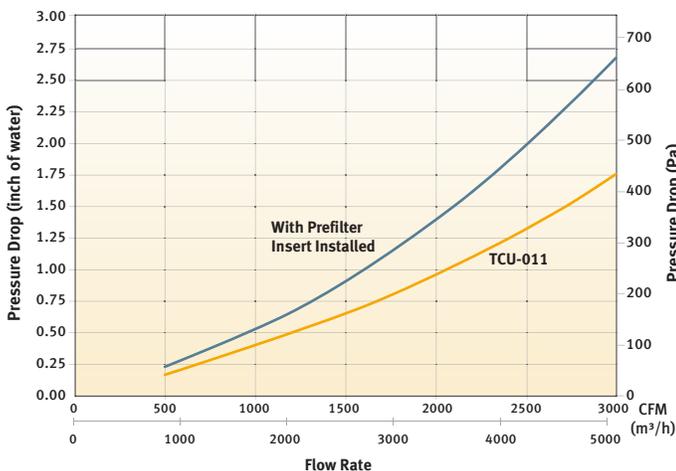


Eliminate Off-Line Washes

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.

For dirty environments, or to extend the life of the filter, Gore recommends the use of the pleated prefilter insert.

Low Pressure Drop



KEY FEATURES

- E12 filtration efficiency $\geq 99.5\%$ 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

Stop Salt and Water Ingress

1. Gore's high efficiency ($\geq 99.5\%$) 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.



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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 Min. 99.5 % @ MPPS
Wet Burst Pressure	> 7500 Pa (30 in wg)

Initial Pressure Drop with and without insert (higher numbers with insert)

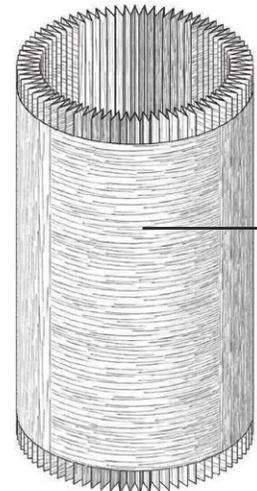
TCU011	161 Pa @ 2550 m ³ /h (0.65 in wg @ 1500 cfm)
TCP022 insert	225 Pa @ 2550 m ³ /h (0.90 in wg @ 1500 cfm)
Recommended Maximum dP	1000 Pa (4 in wg)
Temperature Range	-40 °C to +65 °C (-40 °F to +149 °F)

Dimensions	Outside Diameter	Inside Diameter	Length
TCU011	445 mm (17.5 in)	355 mm (14 in)	661 mm (26 in)

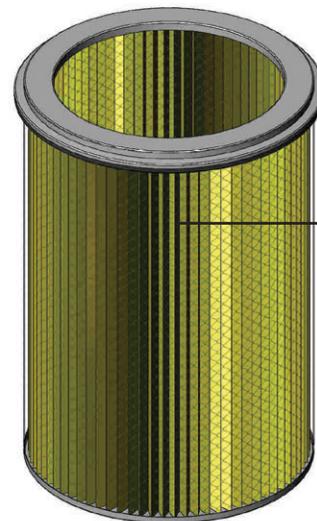
Direct replacement of most conventional filters with no modifications required to filter housing.

Operational Mode

Static



Pleated Insert



Composite Filter

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

E-Mail: turbinefilters@wlgore.com

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