DESIGNED WITH Impress® TECHNOLOGY

TurboShield® GT

Performance Enhancement for Gas Turbines

| Advanced-Technology Fine and (H)EPA Filters

Barrier Final Filters

MERV 15 (F9) – E10 Efficiency

Description

Purpose-built as secondary and final filters protecting gas turbines, diesel engines and other rotating equipment, TurboShield® GT filters are designed for optimum filtration performance. Utilizing Impress® pleating technology, the TurboShield® GT combines the best in filtration efficiency, low resistance, lifetime and mechanical stability into one package to deliver the best performance in its class.

Benefits

Low pressure drop

Optimum pleat geometry and media area as well as an unobstructed filter face minimize airflow restriction through the filter.

High efficiency

MERV 15/F9 – E10

Long service life

Low initial resistance, ideal pleat spacing and higher-than-average media density allow for maximized particle management and full media utilization.

Durable construction

Media is moisture-resistant and the media pack is encased in high-impact-plastic cell sides, which are corrosion-proof. Plastic protection screens on the upstream and downstream sides of the filter provide increased stability and protection. Impress pleat formation delivers a robust media pack with a burst strength exceeding industry standards.

Sealed media

The media pack is completely sealed in polyurethane on all four sides of the filter, keeping particulate from bypassing the filter media.

Leak-free seal

The seamless, foam-in-place gasket on the TurboShield® GT eliminates particulate bypass around the filter frame.

Tested and proven

Tested to both North American ASHRAE 52.2-2012, European EN779 and EN1822 test protocols.

Moisture resistance

100% relative humidity protection. Vertical pleats provide moisture drainage. Intermittent glue separators allow coalesced water to drain down to the bottom of the filter.

1 | **Patented Pleat Formation**

2 | **High Media Density**

3 | **High Burst Strength**

Product features

- Sustained, high-particle-collection efficiency for maximum engine protection
- Low resistance to airflow, contributing to maintaining peak power output
- Mechanically stable pleat formation and support, so media resists distortion under high-pressure loads
- Ideal V-shape pleats for smooth airflow
- Corrosion-proof construction

Applications

- Coastal or high moisture applications
- Urban and industrial applications with heavy dust concentrations

AAF® INTERNATIONAL

BETTER AIR IS OUR BUSINESS®

GAS TURBINE SOLUTIONS

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MERV 15 (F9) – E10 Efficiency

Efficiency	TurboShield GT F9 – MERV 15/F9 TurboShield GT E10 – E10
Initial Pressure	TurboShield GT F9 – 145 Pa (0.58" WG) TurboShield GT E10 – 225 Pa (0.90" WG) Tested at 2500 CFM / 4250 m³/hr
Recommended Final Resistance	2.55" WG / 635 Pa
Burst Strength	> 25" WG / 6225 Pa
Temperature	-40°C to + 80°C (-40°F to + 176°F)
Humidity Range	0 to 100% relative humidity

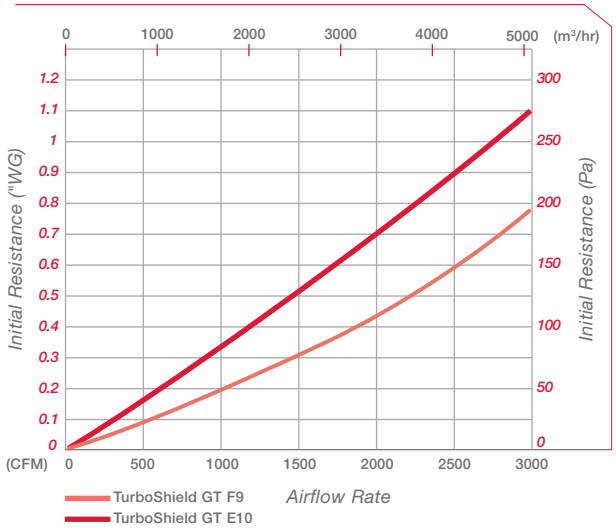
CONSTRUCTION

Filter Media	Specially formulated microfiberglass
Frame Material	Plastic
Protection Screen	Plastic
Adhesive	Polyurethane
Gasket	Seamless, foam-in-place

DIMENSIONS

Width	23.31" (592mm)
Height	23.31" (592mm)
Depth	11.5" (292mm)

RESISTANCE CURVE



Even pleat formation for low entry and exit losses

Seamless gasket for leak-free seal

U.S. Patent No. 6,685,833 B2

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