HydroGT™

Performance enhancement for gas turbines

| Advanced-technology fine and EPA filter

Description

The HydroGT has been specifically designed to provide the ultimate protection for your gas turbine, ensuring reliable performance and power output in the most demanding of operating environments.

The HydroGT high efficiency filter delivers class-leading protection for your gas turbine, helping to extend component life and reduce maintenance costs. In addition, EPA efficiency grades significantly reduce compressor fouling and the need for offline water washing, resulting in increased machine availability and reduced operational costs.

AAF's proprietary media repels water, oil, hydrocarbons and salt, making it one of the most versatile barrier filters on the market today. Efficient drainage of the filter ensures performance is maintained and the gas turbine remains protected, even during moist and humid conditions.

Product highlights

- AAF's 'Hydro' series prevents water and salt ingestion
- Hydrocarbon and oil resistant
- High filtration efficiency
- Low differential pressure loss
- Quick and easy maintenance

Features and benefits

Prevent lost power

HydroGT ensures maximum available power output by maintaining compressor cleanliness.

Enhance fuel efficiency

HydroGT's ability to reduce fouling of the compressor allows the gas turbine to operate more effectively and increase fuel efficiency.

Increase machine availability

By maintaining engine cleanliness HydroGT helps remove unplanned maintenance shutdowns and downtime, increasing machine availability.

Extend filter life

Large media coverage ensures a high dust-holding capacity, resulting in a longer filter life.

Low pressure drop

Low pressure drop doesn't come at the expense of performance with higher power output and lower fuel consumption.

Durable construction

Media is moisture and oil resistant, while the plastic frame is corrosion-proof. Plastic protection screens on the downstream side of the filter provide increased stability and deliver burst protection that exceeds industry standards.

Leak-free seal

The seamless, foam-in-place gasket eliminates bypass around the filter frame.

Moisture resistance

Water repellent with vertical pleats to maximise drainage and enhance engine protection.

Low Maintenance

Easy Fit System reduces outage time by up to 80 percent.

AAF® INTERNATIONAL

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GAS TURBINE SOLUTIONS

HydroGT™ 450

Performance specification data

Overview

Recommended final resistance	625 Pa | 2.5 in.WG
Burst strength	> 6225 Pa | 25 in.WG
Temperature	-32 °C to + 70 °C -25.6 °F to + 158 °F
Humidity range	0 to 100 % relative humidity

Filter model details

Filter model	Part number	Rated airflow[1]	Initial pressure loss	Efficiency class[2]
HydroGT 450-F9	BV012-F9-B.0	4250 m^3/h | 2500 CFM	118 Pa | 0.47 in.WG	F9 | MERV 15
HydroGT 450-E10	BV013-E0-B.0	4250 m^3/h | 2500 CFM	199 Pa | 0.80 in.WG	E10 | MERV 16
HydroGT 450-E12	BV015-E2-B.0	4250 m^3/h | 2500 CFM	352 Pa | 1.41 in.WG	E12 | MERV 16

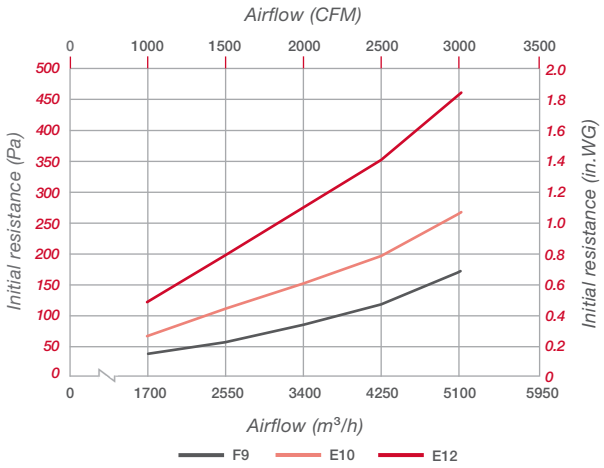
Construction

Filter media	Water and oil resistant glass fibre
Frame material	Plastic
Protection screen	Plastic
Sealant	Polyurethane
Gasket	Continuous foaming polyurethane

Dimensions

Width	592 mm | 23⅓ in
Height	592 mm | 23⅓ in
Depth	440 mm | 17⅓ in
Weight	11 kg | 24.3 lb

Resistance curve



[1] Filter can be operated up to 125 % of rated airflow.

[2] Based on EN779:2012, ASHRAE 52.2:2007, EN1822:2009.

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GAS TURBINE SOLUTIONS

HydroGT™ 300

Performance specification data

Overview

Recommended final resistance	625 Pa | 2.5 in.WG
Burst strength	> 6225 Pa | 25 in.WG
Temperature	-32 °C to + 70 °C -25.6 °F to + 158 °F
Humidity range	0 to 100 % relative humidity

Filter model details

Filter model	Part number	Rated airflow	Initial pressure loss	Efficiency class[1]
HydroGT 300-F9	BV101-F9-A.0	4250 m^3/h | 2500 CFM	158 Pa | 0.63 in.WG	F9 | MERV 15
HydroGT 300-E10	BV102-E0-A.0	4250 m^3/h | 2500 CFM	285 Pa | 1.14 in.WG	E10 | MERV 16
HydroGT 300-E12	BV104-E2-A.0	4250 m^3/h | 2500 CFM	504 Pa | 2.02 in.WG	E12 | MERV 16

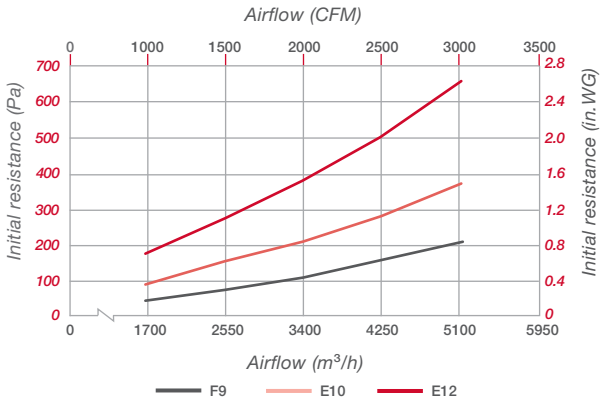
Construction

Filter media	Water and oil resistant glass fibre
Frame material	Plastic
Protection screen	Plastic
Sealant	Polyurethane
Gasket	Continuous foaming polyurethane

Dimensions

Width	592 mm | 23⅓ in
Height	592 mm | 23⅓ in
Depth	292 mm | 11½ in
Weight	7.5 kg | 16.5 lb

Resistance curve



[1] Based on EN779:2012, ASHRAE 52.2:2007, EN1822:2009.

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