

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. The robust filter frame and protection screen design prevents distortion of the media pack over the life of the filter, delivering stable, predictable, filter performance to the operator for longer.

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.



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

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

HydroGT can be easily installed in AAF and competitor filter systems without any modifications.



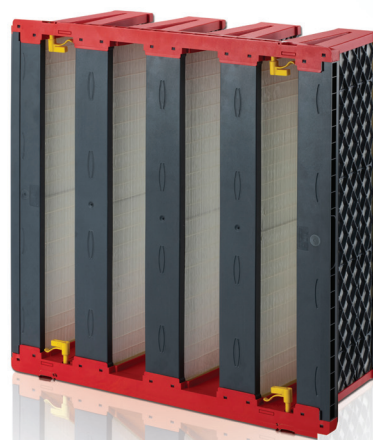
Bringing clean air to life.®

HydroGT™ V300

Performance specification data

Overview

Recommended final resistance	625 Pa 2.5 in.WG
Burst strength	> 7000 Pa 28.1 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 V300 F9	BV306-A.0	4250 m ³ /h 2500 CFM	150 Pa 0.60 in.WG	F9 MERV 15
HydroGT V300 E10	BV307-A.0	4250 m ³ /h 2500 CFM	258 Pa 1.04 in.WG	E10 MERV 16
HydroGT V300 E12	BV309-A.0	3400 m ³ /h 2000 CFM	373 Pa 1.50 in.WG	E12 MERV 16

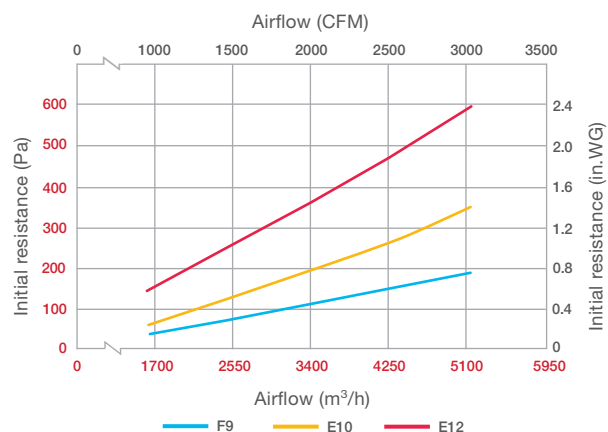
Construction

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

Dimensions

Width	592 mm 23.3 in
Height	592 mm 23.3 in
Depth	292 mm 11.5 in
Weight	9 kg 19.8 lb

Resistance curve



¹ Based on EN779:2012, ASHRAE 52.2:2017, EN1822:2009.

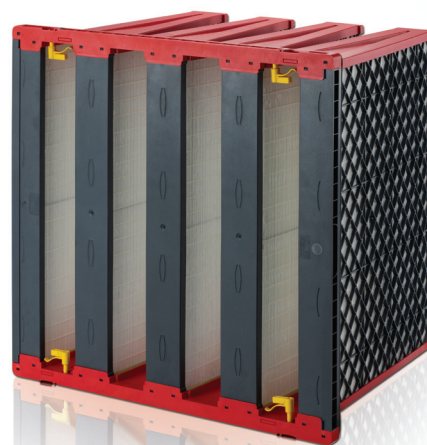
HydroGT™ V450

Increased media area for improved performance

Performance specification data

Overview

Recommended final resistance	625 Pa 2.5 in.WG
Burst strength	> 7000 Pa 28.1 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 V450 F9	BV401-B.0	4250 m ³ /h 2500 CFM	112 Pa 0.45 in.WG	F9 MERV 15
HydroGT V450 E10	BV402-B.0	4250 m ³ /h 2500 CFM	180 Pa 0.72 in.WG	E10 MERV 16
HydroGT V450 E11	BV403-B.0	4250 m ³ /h 2500 CFM	180 Pa 0.72 in.WG	E11 MERV 16
HydroGT V450 E12	BV404-B.0	4250 m ³ /h 2500 CFM	302 Pa 1.21 in.WG	E12 MERV 16

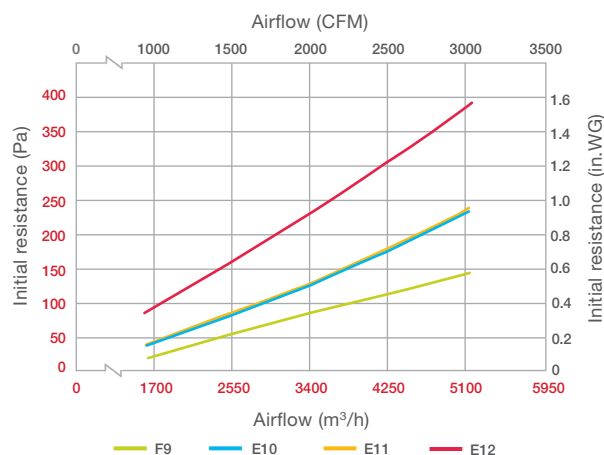
Construction

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

Dimensions

Width	592 mm 23.3 in
Height	592 mm 23.3 in
Depth	440 mm 17.3 in
Weight	12 kg 26.5 lb

Resistance curve



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

² Based on EN779:2012, ASHRAE 52.2:2017, EN1822:2009.

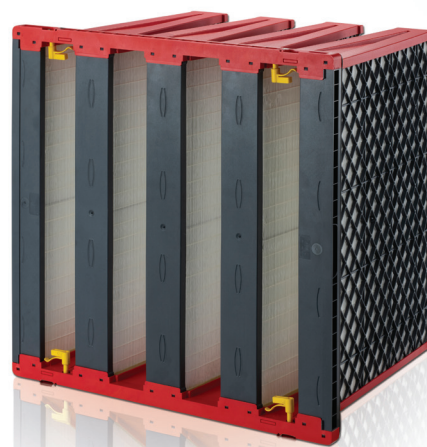
HydroGT™ V450+

Extended media area for optimum performance

Performance specification data

Overview

Recommended final resistance	625 Pa 2.5 in.WG
Burst strength	> 7000 Pa 28.1 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 V450+ F9	BV406-B.0	4250 m ³ /h 2500 CFM	112 Pa 0.45 in.WG	F9 MERV 15
HydroGT V450+ E10	BV407-B.0	4250 m ³ /h 2500 CFM	178 Pa 0.71 in.WG	E10 MERV 16
HydroGT V450+ E11	BV408-B.0	4250 m ³ /h 2500 CFM	178 Pa 0.71 in.WG	E11 MERV 16
HydroGT V450+ E12	BV409-B.0	4250 m ³ /h 2500 CFM	294 Pa 1.18 in.WG	E12 MERV 16

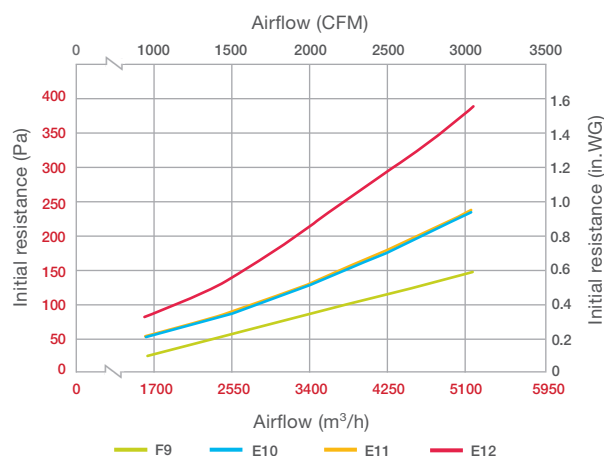
Construction

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

Dimensions

Width	592 mm 23.3 in
Height	592 mm 23.3 in
Depth	440 mm 17.3 in
Weight	12.5 kg 27.5 lb

Resistance curve



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

² Based on EN779:2012, ASHRAE 52.2:2017, EN1822:2009.