clearcurrent® ASSURE Cartridge

Innovative Filters for Advanced Performance Turbines

Ultimate protection and reliability for highest performing gas turbines

Representing over a decade of experience and innovation, clearcurrent ASSURE filters provide the protection needed for the newest class of advanced turbines, which operate with rigorous demands and within finer margins.

The pioneering clearcurrent ASSURE filters are designed to eliminate particulates that compromise compressor blade aerodynamics and performance, thereby maximizing turbine power and thermal efficiency by blocking even the toughest natural and man-made contaminants that can weaken modern turbine alloys and block intricate cooling passage holes.

Installation of the clearcurrent ASSURE allows operators to focus on maintaining the outcomes that these turbines are engineered to provide.

Pioneering Design

Turbine Component Health
Engineered media reduces challenging particulates carried through to the gas turbine in all forms.

Ground-Breaking Media
Application selected polymers aids effectiveness of filtering without compromising self-cleaning.

Robust
Powder coating sustains metal integrity throughout filter life.

Longer Maintenance Intervals
Long-service-life materials enable longer maintenance intervals, in line with advanced gas turbine components.

Designed for the Real World
Advanced validation program and third-party testing standards ensure reliability, including testing for extreme weather.

Contact Information

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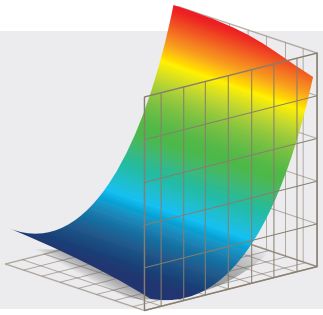
clearcurrent® ASSURE Cartridge Filters

Media Optimizer™

The proprietary model shows the impact of pleat spacing, height and depth on Dp and DHC on any given media and its efficiency. It delivers specific information that maximizes the effectiveness and utilization of the media in your required filter.



Desired Outcomes with Proven Value

clearcurrent ASSURE™ filters combine technology, experience and people to provide a quantifiable filter lifecycle cost. Your gas turbine equipment and site conditions allow us to calculate and optimize your filtration investments total life cycle costs using different air inlet filter configurations.

Filter Comparison

	Industry Norm	clearcurrent PRO	clearcurrent ASSURE
Efficiency	<70%	70 - >99%	70 - >99%
Temperature Range	Basic	-40°C to 70°C, (-40°F to 160°F)	-40°C to 70°C, (-40°F to 160°F)
Humidity Range	Basic	100%	100%
Burst Strength	<3750Pa (15" wg)	>6250Pa (25" wg)	>6250Pa (25" wg)
Media Type	Blend /Synthetic Blend	Synthetic	Synthetic Treated
Media Treatment	Basic	Hydrophobic	Hydro/Oleophobic
Media Area (Dp)	Basic	PRO	Media Optimizer
Gasket	Basic	CC FIP Polyurethane	CC FIP Polyurethane
Gasket Stop	None	Integrated End Pan	Integrated End Pan
Potting Method	Polyurethane	Polyurethane	PU Certified Sealed
Construction Material	G30-G60	G90	Powder Coated G90
Compressor Protection	Particulate	Particulate/Moisture	Particulate/Moisture/Oil
Compressor Health	★★	★★★	★★★★
Heat Rate Stability	★★	★★★	★★★★
Output Stability	★★	★★★	★★★★
Installation Services	Upon Request	Upon Request	Recommended

Performance Data

Model	Hydro Plus	Dust Plus
Differential Pressure	240Pa (0.97" wg)	250Pa (1.0" wg)
Efficiency	≥70% – F9	≥80% – F9
Filter Target Condition	Low/Medium Dust	High Dust
Rated Airflow	2975 m^3/h, 1750 CFM	
Service Interval	HGP 25,000 hrs @0.25ug/m^3	
GT ROI Analysis	Available	

Physical Dimensions

Small Dia x Large Dia x Height	Cylinder: 324mm x 660mm (12.75" x 26") Conical: 324mm x 445mm x 660mm (12.75" x17.50" x 26")
Clean Weight	Conical: 7 kg, 15 lb Cylinder: 6 kg, 13 lbs
Quality	12 Point CIP program

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