

clearcurrent® PRO-HEPA E11 Static Cartridge Filter



Key Benefits

- HEPA grade filtration efficiency/hydrophobic media treatment provides water-resistant performance for superior protection and performance in wet and dry environments
- Very high initial filtration efficiency
- Low initial pressure drop and long filter operating life
- Promotes reduced compressor fouling and operating costs
- Fits a range of new and retrofit systems in cross-flow and up-flow configurations
- Steady dP throughout filter life, even during moisture events like high humidity, rain and fog
- Low pressure loss helps increase power output and/or improve fuel efficiency

Applications

- Static (non-pulsing)
- Prefilter wrap available as standard
- Upflow & crossflow

HEPA Grade Filtration Efficiency

Maintaining gas turbine inlet combustion air quality is essential to minimizing gas turbine compressor blade fouling. The PRO-HEPA E11 Static Cartridge Filter delivers very high small particulate removal efficiency and is classified as a High Efficiency Particulate Arrestance (HEPA) filter, with >95% removal of all particulate at the Most Penetrating Particle Size (MPPS), typically around 0.2 microns. This high efficiency promotes improved gas turbine performance and reduced operating and maintenance costs. HEPA-rated filtration increases capture of small particulates and contaminants in order to minimize fouling and gas turbine performance degradation.

PRO-HEPA E11 Static Cartridge Filter

The PRO-HEPA E11 Static Cartridge Filter uses high-efficiency glass fiber media technology to deliver HEPA grade filtration, excellent pressure loss performance and a long service life. Parker Hannifin's unrivaled hydrophobic treatment for glass fiber media supports these characteristics in both wet and dry conditions, while eliminating all risk of the unpredictable pressure drops associated with hydrophobic membranes. Many conventional filter types have relatively low initial filtration efficiencies, reaching more acceptable efficiencies as dust accumulates; the PRO-HEPA E11 has a very high initial filtration efficiency for added protection from the start. The PRO-HEPA E11 product has been specifically designed for "static" gas turbine inlet applications that use cartridge-style filter elements when pulse self-cleaning is not installed or required (while these filters offer a burst strength in excess of 25 inches water, they should not be used when pulse self-cleaning operation is required).

The gasket design and the positive sealing arrangement help eliminate unfiltered air bypass. G90 galvanized steel is used as standard for the inner/outer screens and end caps to help minimize cartridge corrosion risk and extend filter service life.

Performance Data

EN1822: 2009 rating	E11
ASHRAE 52.2: 2007 rating	MERV 16A
Rated air flow	1750 CFM 2975 m³/hr
Dust-holding capacity	7.0kg (16.5 lbs) ISO A2 Fine dust at 4" WG
Operating temperature range	-40°C to +50°C (-40°F to +122°F)

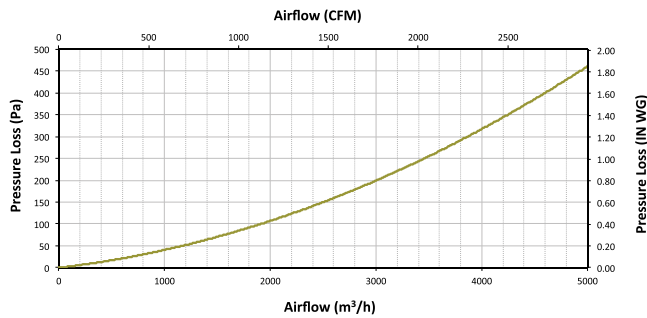
Filter Facts

Construction	G90 galvanized standard (Also available in 304L or 316L stainless steel)
Gasket	Closed cell gasket design and positive sealing arrangement eliminates unfiltered air bypass
Dimensions	Cylinder: 12.75" x 26" / 324mm x 660mm Conical: 12.75" x 17.50" x 26" / 324mm x 445mm x 660mm
Media	Microglass
Clean Weight	Conical: 7kg (15 lbs) Cylinder: 6kg (13 lbs)

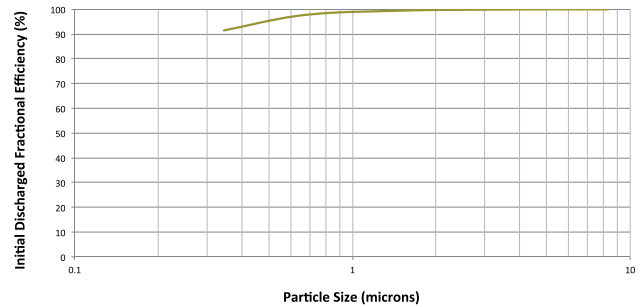


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Pressure Loss



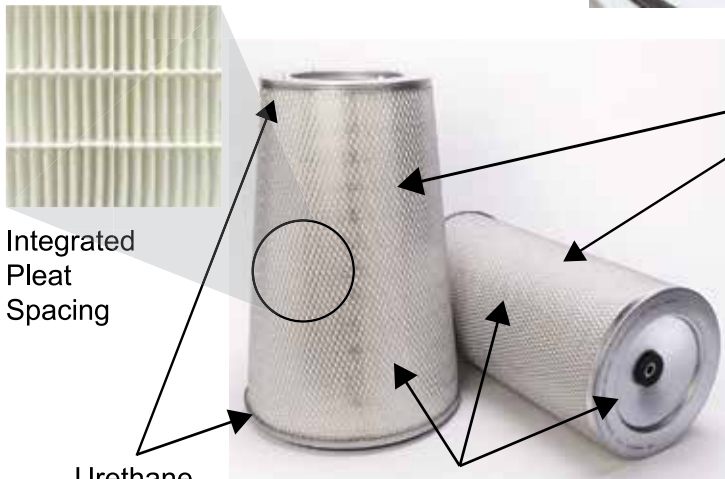
Initial Fractional Efficiency



clearcurrent PRO-HEPA E11 Static Cartridge Filter Characteristics



Closed cell gasket; consistent seal, avoids leaks



Integrated Pleat Spacing

Urethane potting compound

Microglass fiber nonwoven media

G90 galvanized, 304L or 316L Stainless Steel end caps inner cage and outer cage