

Gas Turbine Air Intake filter

Filter Function	Air Intake Filter for Gas Turbine Model: GE-9E.03
Filter Structure Type	Cylindrical/Conical Arrangement,
Quantity for one Set	460 element Conical filter 460 element Cylindrical filter (including the gasket washer and retention nut)
Dimension	Cylinder: 26" Cone: 26"
QTY	1000 conical filter 1000 cylindrical filter
Filter concept	surface-loading filter; pulsable filter system
Filter Material	Cellulose blended with synthetic fiber or Synthetic fiber, (cellulose alone is not acceptable)
Efficiency	F9 as per EN 779:2012 and provide equivalent MERV rating as Per ASHARE 52.2:2017 ,PM as per ISO 16890:2018
Average efficiency (Em) of 0.4 µm particles % Acc to 779:2012	95% ≤ Em
Minimum Efficiency of 0.4 µm particles %, Acc to 779:2012	70%, Where Minimum efficiency is the lowest efficiency measured among the initial efficiency, discharged efficiency and its the lowest efficiency throughout the loading procedure of the test. The only allowed discharge treatment method is the IPA method which is used on media samples.
Recovery Rate for Pulse Cleaning	Vendor to Specify. (indicate stable pressure drop performance, even when faced with challenging dust conditions)
Water Tightness	Vendor to Specify. (indicate the ability to resist ingress and provide a more stable pressure drop when challenged with water)
Outer/Inner Mesh end cap	G90 Protective Screen(liners). G90 or G60 end caps
Gasket	Seamless urethane
Max. Temperature	65c
Filter Area	Vendor to Specify.
Actual surface area which the air hits before complete filtration process	Vendor to Specify.
Layers of media / filtration	Vendor to Specify.
Resistance to humidity, water, fog, etc.	100%
DP Across Filters in Foggy/Rainy weather Conditions	No significant increase in DP due to fog or rain water or high humidity.
one of the worst weather events at site	Foggy weather, Temperature: 2 C, Pressure: 955 mbar, Humidity: 99.7 %
Air Temp min/max	+ 1 C/+ 43 C
Max Relative Humidity	100%
operational DP	900-1000 Pa

