

GAS TURBINE INLET AIR FILTER

MUELLER MODEL GTAF

The Mueller Model GTAF Gas Turbine Inlet Air Filter is a highly effective and versatile inlet air filtration system that efficiently removes solid particulates, moisture, and salts. Extensively field proven in a wide range of conditions in both offshore and land based applications, the GTAF is a durable, compact, low pressure drop, cost effective product.

The GTAF has been a workhorse on rotating machinery from 1,000 to 12,000 hp. Because it holds a variety of 24" x 24" filter and prefilter combinations, the GTAF enables ideal filter selection to accommodate a wide range of efficiency requirements and air

flow conditions. The filtering efficiency of the extended surface area cartridge filter with pre-filter is 99% by weight arrestance, based on AC fine test dust, resulting in removing 99.2% of all dust particles 3 microns and larger in the air stream.

The typical configuration of the GTAF system consists of an inlet air filter house with filter maintenance area, clean air plenum, rubber isolation joint, implosion door, duct with inlet trash screen and 90° degree elbow, structural steel, and ladders with platforms. The filter house design provides for two banks of filter elements 4 wide and 5 high.



REQUIRED SIZING AND APPLICATION DATA

Because all Mueller equipment is engineered and built for each specific installation, the following information is required for proposals involving GTAF filters:

- Type of Rotating Equipment
- Inlet Flange Size and Orientation
- Intake Air Flow
- Atmospheric conditions (ambient pressure and temperature)
- Filtering Efficiency Required
- Allowable Pressure Drop

OPTIONS

- Custom Design Configurations
- Anti-icing Systems
- Evaporative Coolers
- Bug, Bird and Trash Screens
- Instrumentation
- Platforms and Ladders
- Implosion Doors
- Ancillary Fabrication
- Intake and Exhaust Silencers
- Choice of weather hood or louvers

WARRANTY

Mueller Environmental Designs, Inc. warranties against poor workmanship, material defects and failure due to improper equipment selection.

REPLACEMENT FILTERS

We offer replacement filter media for our products. Information can be found on our website under "Intake Systems".



A GTAf 75 retrofit installation for a 13,500 hp Rolls Royce Avon turbine station in Wilson, Kansas.



A GTAf 50 retrofit installation for a GE Frame 3 turbine station in Monroe, Louisiana with bug screens, weather louvers, and bypass door.

GTAf ADVANTAGES

- All welded carbon steel construction
- Internal and external three coat epoxy paint system
- Galvanized, replaceable, filter framing system
- Single Sheet, replaceable, weather louver blade design
- High dust holding capacity pre-filter pads
- High efficiency cartridge type final filter
- Low operating pressure drop
- Land-based and offshore versatility
- Accommodates wide filter range enabling precise efficiency



MUELLER
ENVIRONMENTAL DESIGNS, INC.

THE INDUSTRY LEADER IN NATURAL GAS
SEPARATION, AIR FILTRATION, MIST ELIMINATION,
NOISE AND EMISSION CONTROL SYSTEMS