



Pulstar Series

Air Filter Inlet Systems for Gas Turbines



APPLICATIONS

Pulstar is a pulse-jet, self cleaning inlet air filtration system for gas turbines and axial compressors operating in severe environmental conditions.

The Pulstar series air filtration system is the result of many years of design, testing, and field experience. The Pulstar utilizes state-of-the-art technology to provide the most efficient and effective continuous duty filtration system available.

FEATURES

■ Low Intake Velocities

The unique design of the weatherhood provides protection and lowers intake air approach velocities. The low velocity means less contaminate reaches the filter elements and agglomerated dust cake is not readily reentrained after pulse cleaning. Media face velocity has been optimized and reduced.

■ Low Initial Differential Pressure

The Pulstar systems have the lowest initial pressure drop in the industry, due to the elimination of restrictive venturis and increased outlet diameter of the filter cartridge. Pulstar filter cartridge performance data is based on testing in accordance with ARAMCO 32-AMSS-008.

■ Cartridge Geometry

Pulstar incorporates the use of nominal 36" filter cartridges. This allows more media per cartridge and a larger diameter air outlet into the clean air plenum, which reduces operating pressure drop. Moisture resistant media is standard on all Pulstar systems. A variety of special synthetic media is available for more difficult operating environments.



Pulstar filter cartridges are designed to minimize pressure drop.

■ Heavy Duty Construction

Pulstar housings, walls, and tube sheets are fabricated to increase structural strength.

■ Easy, Fail-Safe Filter Installation

Easy to install and service, all filter cartridges are installed from the underside of the housing. An extended shaft, threaded handle secures the filter in place. The molded neoprene gasket provides a fail-safe seal at the tube sheet. No special tools are needed.

■ Upflow, Crossflow, and Downflow Models Available

Pulstar filters are available in upflow, crossflow, and downflow designs to accommodate physical layout and cost parameters. All designs have a full range of weather protection options to accommodate specific site conditions.

■ Self-Cleaning or Barrier (Static) Filters Available

The self-cleaning Pulstar uses pulse air delivered through 1-1/2" diameter blow pipes with accelerator nozzles. No venturis are required. The shock effect from the pulse air removes the dust cake agglomerated on the outside of the filter.

Pulstars can also be used as barrier (static) filters. The filters are replaced when final resistance is reached.

■ Standard and Custom Designs Available

Modular construction means custom and standard designs are available for large and small applications. Pulstars have been installed with as few as four filter elements. Larger installations use several hundred filter elements and stand more than 70 feet tall.

You may purchase the Pulstar system only or make use of our extensive industry experience, worldwide manufacturing capabilities, and in-house engineering expertise to develop packaged systems to meet your exact intake specifications.



Pulstar Series

OUR TOTAL SYSTEM CAPABILITY

Extensive experience in the design and application of gas turbines and other high-performance rotating machinery position us uniquely to deliver total systems or other optional products including:

- Chilled Water Coils
- Anti-Icing Systems
- Evaporative Cooling Systems
- Inlet Ductwork
- Inlet Silencers
- Expansion Joints
- Acoustical Enclosures
- Exhaust Silencers
- Support Structure
- Ventilation Systems

WORLDWIDE SUPPORT

The Pulstar is designed for long service life. Use of AAF replacement parts and filters ensures that the Pulstar will stay in top operating condition. Replacement parts and filters can be ordered from any AAF location around the world. AAF technical experts are always available to respond to customer inquiries.



AAF Pulstar inlet filtration system for two Westinghouse W-251 turbines located in Bali, Indonesia.



AAF Pulstar inlet filtration system for a GE LM2500 gas turbine located in British Columbia.

WORLD CLASS QUALITY

AAF has extensive experience in the design and application of air filtration systems for all environments. In fact, we pioneered many of the clean air techniques used in the protection of gas turbines. Our systems can be found in thousands of installations around the world. During the entire production process, our operations are governed by our ISO 9001 certified quality system.



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