PRODUCT DATASHEET

Gas Turbine Inlet Filter Cartridges

Conical and cylindrical gas turbine inlet filter pairs





DETAIL – CARTRIDGE PLEATS

OVERVIEW

The Tech Inc. Gas Turbine Inlet Filter Cartridges (model TI-GTP26) are conical and cylindrical cartridge pairs for the self-cleaning air-intake filter houses of gas turbines. Each pair, a cone stacked on a straight cartridge, uses pleated synthetic media with a nanofibre layer that catches sub-micron dust. Short pulses of compressed air blow the collected dust off the media while the turbine runs, holding pressure drop down in dusty and desert climates.

MODELS AND CONFIGURATIONS

- **TI-GTP26** – conical and cylindrical inlet filter cartridge pair.
- **Replacement pairs** – single pairs to replace damaged cartridges between change-outs.
- **Full turbine sets** – every position in the filter house supplied for one planned change-out.

TYPICAL DESIGN DATA

Configuration	Conical and cylindrical cartridges, stacked as a pair
Media	Pleated synthetic media with a nanofibre surface layer
Filtration class	Typically F9, or to client specification
Cleaning	Pulse-jet reverse air, with the turbine on line
Fit	Interchangeable replacement for common OEM designs, with dimensions and gaskets measured from reference cartridges
Set size	About 800 pairs for a large F-class turbine, or to the filter house design
Operating conditions	Airflow and pressure drop to the filter house rating and client specification

APPLICATIONS

Gas turbine inlet filter houses at power stations, cogeneration and combined-cycle plants, gas processing plants and pipeline compressor stations, and turbine-driven generators and compressors.

KEY ADVANTAGES

- **Sub-micron capture** – the nanofibre layer stops fine dust reaching the compressor
- **Self-cleaning** – pulse cleaning sheds dust and holds pressure drop down between change-outs
- **Drop-in fit** – no change to the filter house or tube sheet
- **Full sets** – supplied as a complete turbine set for a single change-out
- **One catalogue** – inlet cartridges alongside seal-gas elements and CEMS spares for the same plant

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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