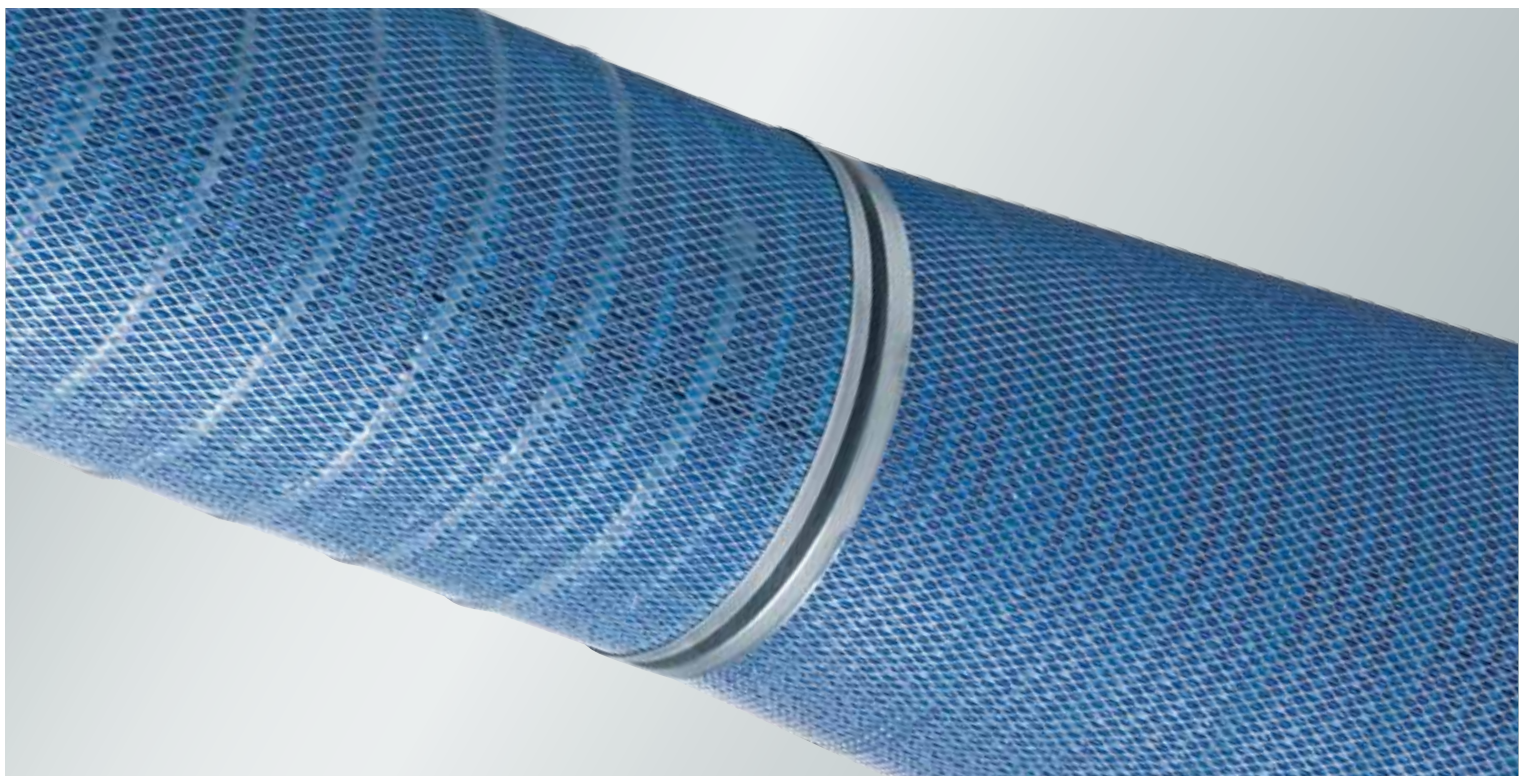




GDX™

Designed to Exceed your Expectations

Gas Turbine Systems



MAXIMIZING POWER OUTPUT

The GDX self-cleaning pulse filter system is designed to exceed the expectations of power plant operators worldwide. It offers high filtration efficiency, lower operating differential pressure and extended filter life. The system's automatic pulse cleaning system ensures that the GDX requires significantly less maintenance than other intake systems – making it the best choice for remote or difficult-to-access locations. Additionally, the pulse-cleaning operation keeps the system pressure drop low, enabling the turbine to run at peak efficiency, maximizing power output.

The GDX system includes the following features and benefits:

- Proprietary Spider-Web® self-cleaning filter media delivers high performance, low maintenance and long life.
- Suitable for power generation, oil & gas, and industrial applications.
- Unique cartridge fixation sealing and locking system.
- A proprietary downflow airflow design to enhance the pulse-cleaning performance.
- Robust design makes the GDX well-suited for all environments – including desert, marine, arctic, etc.
- Electronic low voltage programmable control system. Controller can initiate pulse cleaning based on time of day, high pressure drop, high humidity, or manually.
- Modular design optimizes shipping, site erection and real estate.
- Donaldson's global presence means we can manufacture in many different countries, allowing us to meet project specific requirements.

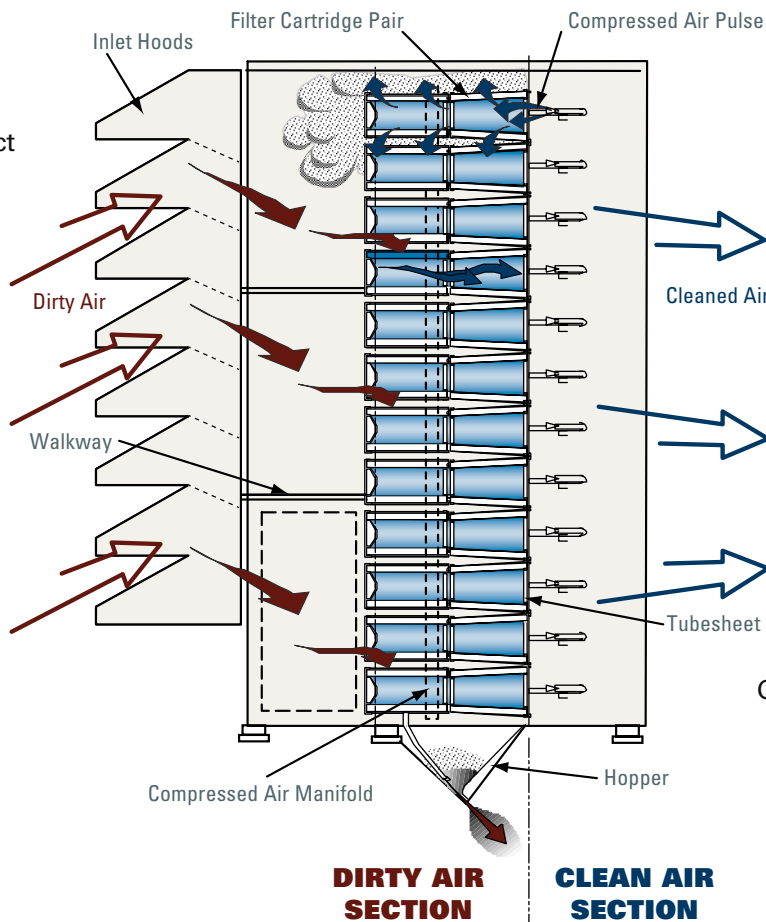


Weather Protection

Air is drawn into the GDX system through inlet hoods that protect the filters from the effects of rain, snow, fog and sun.

Fine Filtration

Air passes through high-efficiency Spider-Web® filter cartridges.



Clean Air

Once the air passes through the media, even submicron particulate is removed, and the air is clean.

Pulse Cleaning

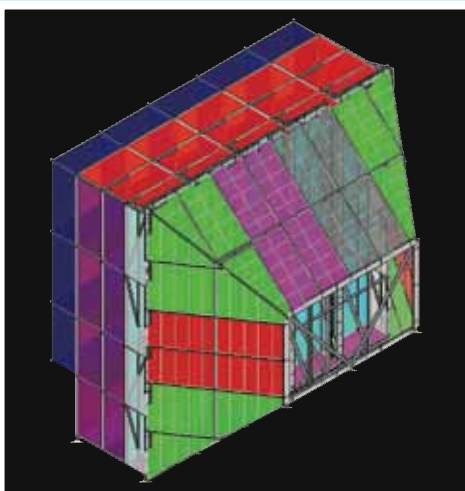
A strong precise reverse blast of air is introduced to the backside of the filter media, dislodging accumulated dust from the filter surface.

Dust Evacuation

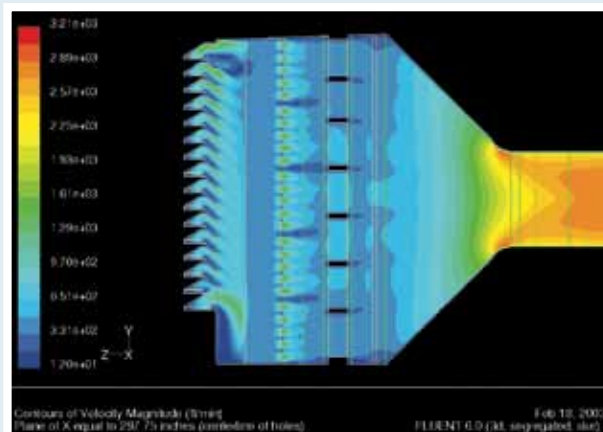
Gravity and airflow dynamics moves the dust toward the hopper. The dust extraction system evacuates the hopper at the end of each pulse cleaning cycle.

Enhancement Features

- **Noise attenuation:** Inlet silencing systems and acoustic weather hoods.
- **Moisture removal systems:** Inlet treatment systems, which offer varying levels of moisture elimination efficiency.
- **Power augmentation:** Donaldson's evaporative coolers and chiller coil systems are designed to mate with the GDX.
- **Dust:** Optional augers, vacuums, and fan systems available.
- **Inlet heating:** Downstream the GDX for control of bellmouth icing and NOx emissions.
- **Multi-stage filtration:** When even higher efficiency is required, additional stages of filtration can be easily paired with the GDX.



ENGINEERED TO EXCEED EXPECTATIONS



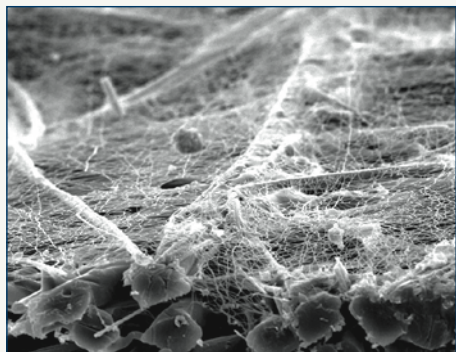
THE HEART OF THE SYSTEM – SPIDER-WEB® HIGH-EFFICIENCY FILTERS

Spider-Web technology is a key component of the GDX system. Donaldson's proprietary nanofiber technology delivers superior turbine protection. Spider-Web nanofiber technology is comprised of a fine, even web of fibers bonded on the upstream side of a filter media substrate (either purely synthetic or a natural/synthetic blend).

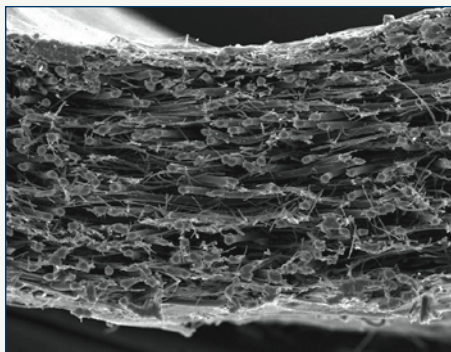
This web increases filtration efficiency, thus reducing compressor fouling. The enhanced surface loading improves the effectiveness of the pulse cleaning.

For added protection, Spider-Web XP carries the nanofiber on both the upstream and downstream side of the media substrate.

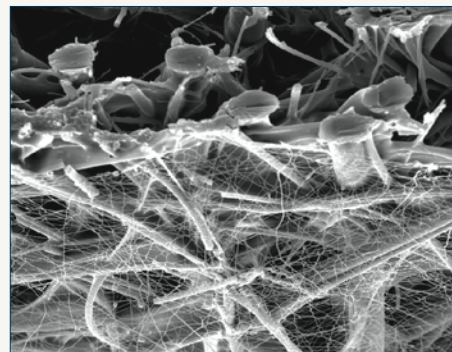
Top Layer



Media Substrate



Bottom Layer



SPIDER-WEB®

SPIDER-WEB® XP

