



# AFTERMARKET FILTRATION SOLUTIONS

Gas Turbine Systems



# KEEPING TURBINES RUNNING ALL OVER THE WORLD!

Donaldson is your expert for air intake and pulse system components for gas turbines and industrial compressors. Our comprehensive technical capabilities, extensive global network, unrivaled operations and maintenance support help you optimize system performance and reduce the total cost of ownership in ways no other suppliers can match.

Donaldson filtration components are found in large turbines (up to 1.2 million cfm), small turbines, compressors, microturbines, and everything in between. You will find our equipment in virtually every gas turbine application, including:



Power Plants



Oil and Gas Delivery Systems



Air Separation Plants



Refining and Processing Machinery



## Aftermarket Replacement Filters and Components

We supply high-quality filters and parts that meet or exceed original manufacturer performance and offer superior cost-to-quality ratios, including:

**Er | W | P** – a simple system to select the right filtration solutions for a facility's unique needs

**Cartridge Filters** powered by our high-efficiency filter media

**Panel and Compact Filters** in a wide variety of shapes, sizes, and efficiencies to fit space requirements. Leak-free, rigid, and non-metal parts

**Pulse System** valves, solenoids, and controllers

**Inlet Hood Components** bird screens, moisture separators, control panel upgrades, coalescing media, and acoustic weather hoods

**Filter Retention Hardware** standard yokes, Quick Lock Yokes, and filter clips

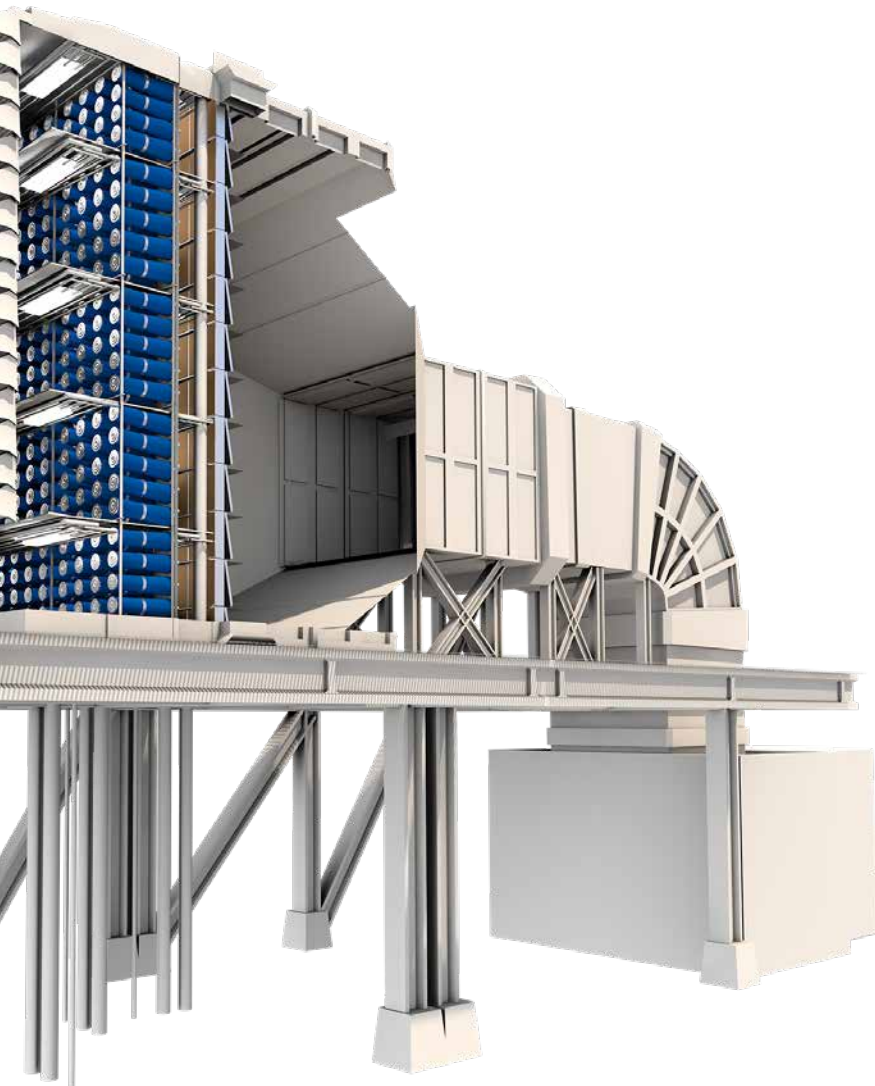
**Accessories & Parts** available for additional needs



## Retrofit

Donaldson has the experience you need to help you enhance your inlet system. Our team of qualified engineers repair and modify inlet systems to optimize performance and deliver more power to you. We offer standard replacement and upgrade kits as well as custom modifications for:

- Inlet treatments
- Cooling augmentation
- Filter retention upgrades



## Field Services

As your one-source provider for filtration needs, we provide maintenance on inlet systems regardless of manufacturer. Our certified crew has the products, tools and training to help keep your system running at peak efficiency with minimal downtime.

- Pre/post-filter changeouts
- Evaporative cooler maintenance
- Coatings and corrections
- Inspections



# DONALDSON TURBO-TEK FILTERS

**Filters engineered to perform.** Donaldson has decades of experience developing filtration solutions for various applications. Our filters are designed with proprietary media to help maximize performance and provide the necessary protection for your critical equipment and bottom line.



## Cartridge Filters

Donaldson Turbo-Tek cartridge filters are ruggedly constructed to ensure durability. Proprietary Pleatloc™ filter design maximizes filtration surface and supports longer filter life. High performance filter media choices are available to fit specific operating conditions, with both standard and (H)EPA options available.

## Panel Filters

This full line of panel filters can help reduce operation costs and maintenance time. Durable and easy to install, these high-efficiency static filter elements provide:

- High dust holding capacity
- Low initial and operating pressure drop
- Durable standard plastic frame construction

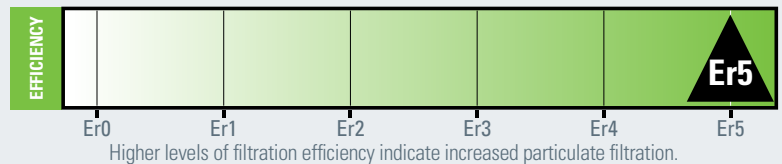


## A FILTER RATING SYSTEM THAT BRINGS MORE POWER TO YOU!

A simple way to select the right filtration solution for your facility's unique needs.

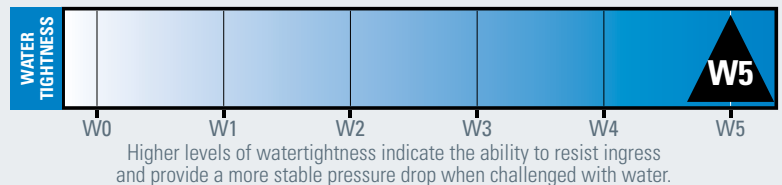
### Efficiency

Percent of particulates captured from incoming air



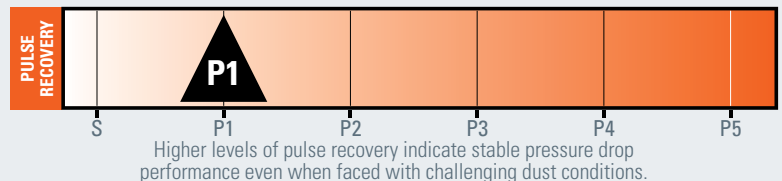
### Watertightness

Resistance to water ingress, which can carry damaging dissolved contaminants



### Pulse Recovery

How readily peak performance returns after pulse cleaning



## What's your optimal filtration rating?



### Composite Filter

These filters are two-stage elements with inner and outer filters which maximize efficiency in a durable, composite design. Built-in pre-filtration extends the primary filter life. Patented Pleatloc™ filter design maximizes media surface area, making them ideal for static environments.

### WAVE™ Panel Filters

The Donaldson Turbo-Tek WAVE panel filter has an open-face design to reduce airflow restriction, promoting higher dust holding capacity and extending filter life.



## DONALDSON PRE-FILTERS AND POWERCORE™ FILTERS

### PowerCore Filters

This technology layers corrugated media to increase filtration area and is available in a variety of shapes and sizes. It allows either the same filtering power in less space, or more filtering power in the same space.

### Pre-Filters

Our full line of pre-filtration options offer the primary filter protection and extended life by removing larger particles from the air stream. These pre-filters include Panel filters, Coalescing filters, High loft wraps and socks and Pocket filters.



## INLET TREATMENTS

Donaldson offers various inlet treatments including moisture separators and control panels to help protect turbine equipment from environmental elements such as birds, insects, and noise.

# COOLING AUGMENTATION

Donaldson provides evaporative coolers and chiller coils to cool the air entering the turbine to increase turbine efficiency.

## Evaporative Coolers

Evaporative coolers function best in environments that are hot and dry, although they can be used in many climates. The following services and components are available:

- Evaporative cooler commissioning and inspections
- Evaporative cooler media and components
- Evaporative cooler retrofit



## Chiller Coils

Chiller coils are suitable for most environments but are ideal for locations where water supply is limited. Overall, chiller coils have even greater cooling capacity than evaporative coolers.



## Moisture Separators

Moisture separators are installed behind evaporative coolers and chiller coils to eliminate the amount of moisture migrating toward the turbine (carryover). Carryover contains dissolved chemicals that can damage the turbine and cause corrosion to the ductwork.

Moisture separators perform a critical role in the overall performance and health of the turbine. Donaldson offers:

- Drift eliminators
- Vanes

# FILTER ANALYSIS SERVICE

Donaldson offers a technical filter analysis program to evaluate the condition of installed filters that includes a comprehensive laboratory report outlining the condition of the filters. Filtration analysis and proper preventative maintenance help optimize turbine inlet performance. No matter the filter manufacturer, Donaldson Gas Turbine Systems can provide this valuable service – contact your local representative to learn more.

# REPLACEMENT PARTS

## Valves & Components

- Pilot solenoid valves and enclosures
- Electrical and pneumatic actuators diaphragm valves
- Remote-actuated pneumatic diaphragm valves
- Control box replacement parts
- Clock timers
- Quick coupling



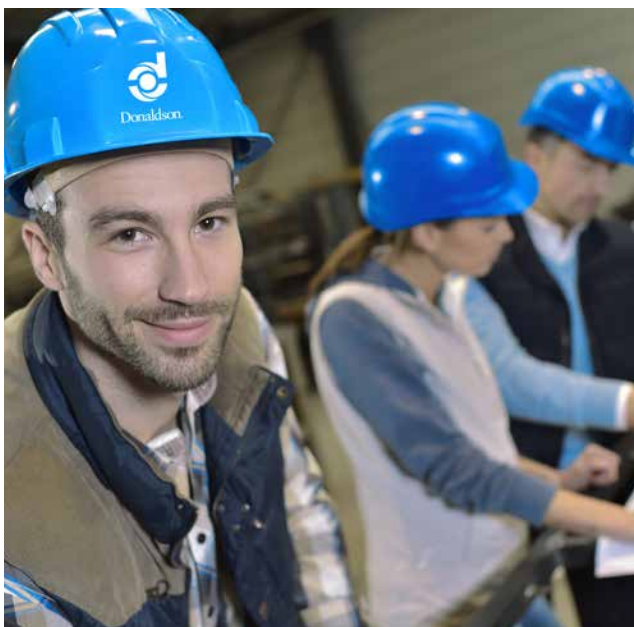
## Instrumentation and Controls

We can provide replacement for any instrumentation and control for all brands and systems

- Explosion-proof differential pressure switches
- Settable differential pressure switches
- Differential pressure transmitter
- Pressure gauge and switch
- Differential pressure gauge

## Filtration Spare Parts

- GDx support yokes
- TTD cranks



# MAINTENANCE SERVICE

For routine maintenance and inspections, trust Donaldson's gas turbine field services experts to get the job done. Our field service experts check the filter elements and retention conditions, seals, seams and joints to make sure your equipment performs at it's best. Self-cleaning systems are reviewed to be sure the pulsing mechanism and electrical systems are functioning properly. Contact us for more information.

- Filter/evap changeout
- Coatings and corrections
- Retrofit
- Upgrades and repair work

# DONALDSON. MORE POWER TO YOU.

## Comprehensive Technical Capabilities

- Extensive product and service portfolio
- Advanced filter media technology for optimal performance
- Engineering and design support
- Customization capabilities

## Unrivaled Operations and Maintenance Support

- Filter testing and reporting
- Technical Field Advisor site inspections
- Dedicated service crews
- Comprehensive warranty
- Wide breadth of aftermarket filters, parts, and accessories

## Extensive Global Reach

- 140 sales, manufacturing, and distribution locations globally
- Localized support for faster service and delivery
- Logistical and regulatory expertise

### Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

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**GAS TURBINE SYSTEMS**