



Gas Turbine Filtration Services

PARTNERS YOU CAN TRUST

Wajax's partnership with Donaldson Gas Turbine Systems (GTS) makes us one of Canada's leading providers of gas turbine filtration solutions. Rely on us to maximize your turbine protection, efficiencies, and output.

CANADA'S AUTHORIZED DISTRIBUTOR OF



We keep your turbines running, and your airflow clean !

Wajax is Canada's Authorized Distributor of Donaldson Filtration Solutions. Donaldson is your expert for air intake and pulse system components for gas turbines and industrial compressors. With our official partnership in place, Donaldson's comprehensive technical capabilities, and extensive global network paired with Wajax's unrivaled operations, nationwide footprint, and maintenance support we can 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**



Maintenance service

For routine maintenance and inspections, trust Wajax'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

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 while maintaining environment, health, and safety as our top priority.

- Pre/post-filter changeouts
- Evaporative cooler maintenance
- Coatings and corrections
- Inspections
- Pre-outage testing of pulse air cleaning system
- Replacing cylindrical and conical air inlet filters
- Replacement of all secondary or prefilters if necessary
- General inspection and cleaning of inlet housing and piping.

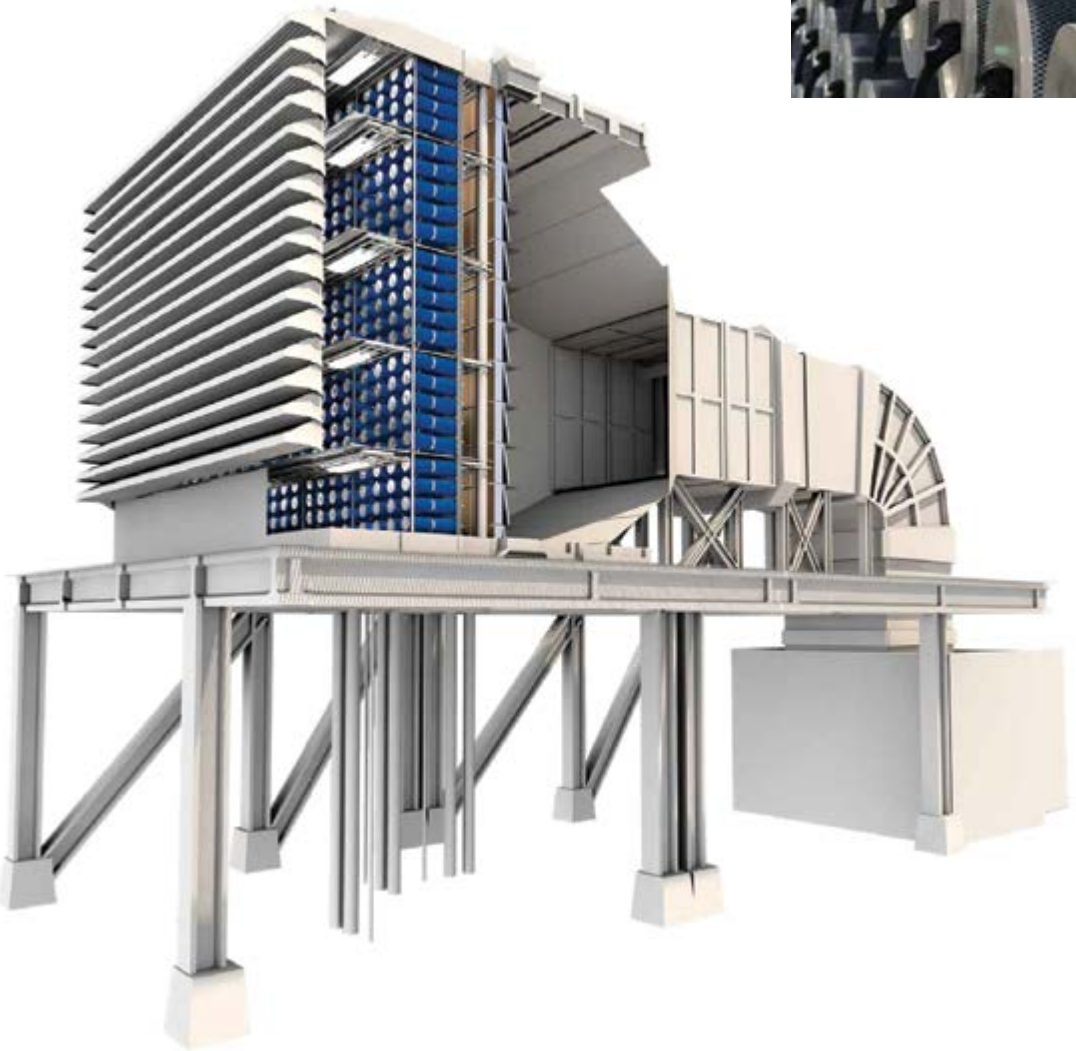
Inlet treatments

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

RETROFIT

Wajax has the experience you need to help you enhance your inlet system. Our team of qualified engineers & technicians 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



Donaldson Turbo-Tek Filters

FILTERS ENGINEERED TO PERFORM. Donaldson has decades of experience developing filtration solutions for various applications. Their 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



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

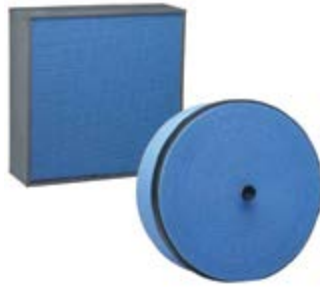
The Donaldson Turbo-Tek WAVE panel filter has an openface design to reduce airflow restriction, promoting higher dust holding capacity and extending filter life.



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

Donaldson 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.



Cooling augmentation

Donaldson's evaporative coolers and chiller coils 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



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

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



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

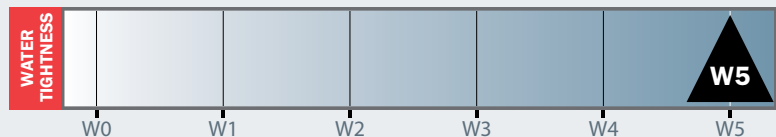
Percent of particulates captured from incoming air



Higher levels of filtration efficiency indicate increased particulate filtration.

WATERTIGHTNESS

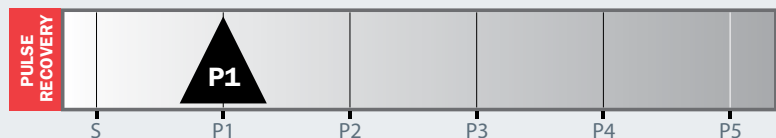
Resistance to water ingress, which can carry damaging dissolved contaminants



Higher levels of watertightness indicate the ability to resist ingress and provide a more stable pressure drop when challenged with water.

PULSE RECOVERY

How readily peak performance returns after pulse cleaning



Higher levels of pulse recovery indicate stable pressure drop performance even when faced with challenging dust conditions.

WHAT'S YOUR OPTIMAL FILTRATION RATING?

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, Wajax & Donaldson Gas Turbine Systems can provide this valuable service.

Contact your local Wajax rep to schedule a no-charge filter analysis. This entails, inspection and a lab analysis of your filter's condition at Donaldson's state of the art testing facility.



Across Industries. Across Canada.

Since 1858, Wajax has been serving major Canadian industries as one of the nation's leading providers of heavy equipment, power systems, and industrial products and services.

With our dedicated team, national network, diverse market expertise, broad range of products and services and world-class vendor partners – Wajax has you covered from coast-to-coast.

