



**Filtration Group**<sup>®</sup>  
Process Technologies

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# FILTRATION APPLICATIONS FOR THE POWER GENERATION INDUSTRY

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Making the world safer, healthier  
and more productive



Jonell Systems and Facet have come together to deliver innovative filtration solutions.

Process Technologies brings the strengths, resources and experience of Jonell Systems and Facet, to provide comprehensive filtration solutions for a wide variety of applications. With an expansive range of vessels and innovative elements that have multiple media options, we optimize your filtration processes to improve safety, reliability, productivity and ultimately profitability.

Focused on solving customer challenges, we partner with the aviation, chemical, heavy equipment, marine, power generation, refining and oil & gas companies among others to address end to end filtration challenges.

We understand our customers rely on our flexibility, reliability, knowledge and experience for innovative solutions. Customers depend on us – we deliver.

Process Technologies is a part of Filtration Group, the fastest growing filtration company in the world. Together, we are making the world safer, healthier and more productive.



Facet, a global leader in aviation fuel filtration with more than 75 years of industry experience, is now part of Process Technologies, a Filtration Group Company.

Facet will continue to develop cutting-edge filtration technology to ensure contaminants such as water, dust and dirt do not negatively impact the performance and quality of equipment. With in-house research, product development and a state-of-the-art manufacturing facility, Facet creates contaminant management solutions that combine technology-driven products and advanced testing with outstanding service. Facet's customer focused approach, global footprint combined with an understanding of the filtration needs and challenges of the market, make its brand the partner of choice for customers worldwide.



Jonell Systems, a Process Technologies brand, offers solutions to address the filtration and separation needs of energy customers and process industries worldwide. We partner with our customers to enhance operational efficiencies and decrease maintenance costs by providing innovative elements (cartridges) with multiple media options and well-designed housings (vessels) to accompany them.

We listen to our customers, understand their challenges and use our resources, experience and technology to develop a solution that best suits their needs. We rely on our in-house research and development, product design and manufacturing capabilities to ensure our customers receive the most optimized solutions while meeting all requirement standards, including environmental regulations.

**As a part of Filtration Group, the world's fastest growing filtration company, we deliver solutions that best fit the needs of our customers and improve their processes. It is our mission to make the world safer, healthier and more productive.**



## FILTRATION SERVICES

Jonell Systems has worked diligently to advance the economics of the Filtration Industry, creating a knowledge-based company with an industry leading staff of experts capable of delivering a variety of filtration/separation solutions to fit your specific maintenance and operating needs. No matter what filtration/separation equipment you use or when it was installed, our filtration service personnel provide complete, expert support to maintain the reliability and operating levels you expect.

We conduct world-class testing services using the latest in advanced filtration diagnostic equipment.

Jonell Systems provides proven filtration solutions to maintain and enhance performance over the complete lifecycle of our customers' assets. We maintain a standardized filtration inventory and provide tailor solutions from single filter elements to complete filtration systems.

Our expertise spans from traditional services including spare parts supply, field services, and technical assistance to the injection of new technologies to boost reliability and optimization of your process equipment.

- OEM Filtration & Separation Cartridge Replacement
- Custom Product Stocking Program
- Product Customization
- Process Optimization
  - Consultation in Feed Study Prior to Product Release
  - Trouble Shooting Consultation
  - Element Dissection Analysis

## RESEARCH AND DEVELOPMENT

The Jonell Systems commitment to improving our clients' process operations is demonstrated by our constant focus on new filtration technology.

We have assembled an exceptional team of seasoned filtration specialists with extensive experience in developing creative and cost-effective solutions to difficult problems that span multiple applications.

Helping our customers create value includes a deep understanding of both filtration media and filtration processes. In addition to new product development, our R&D facility has extensive quality testing equipment to help ensure our products perform to the highest standard, even in the most extreme of environments.

We are continuously striving to create new or improved technology that can give our clients a competitive advantage.

Jonell Systems has accumulated a distinguished history of technological innovations and achievements in the filtration industry. Our goal is to ensure that our clients benefit from filtration solutions that are continuously evolving and improving.

Jonell Systems not only makes better filters; we are constantly striving to make our filters better –incorporating the latest in filtration and separation technology.

# Filtration applications for the Power Generation Industry

In the Power Industry, an efficient filtration/separation system is critical to the reliability and performance of the physical assets critical for power generation. Optimizing the reliability of these filtration systems is essential in maximizing your operational performance. Jonell Systems helps our clients' improve their bottom line by optimizing filtration operations, thereby minimizing downtime and increasing operating efficiencies.

With our paralleled filtration design and manufacturing experience in power generation, Jonell Systems has extensive knowledge in integrated power solutions; covering all major critical filtration systems. Utilizing this experience, Jonell Systems has developed thousands of different filter elements covering a wide range of filtration applications. We focus on creative filtration solutions that result in efficient, cost-effective operations.

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## Benefits of an Optimized Filtration/Separation System include:

- Increased Process Performance
  - Decreased Downtime
  - Lower Maintenance Costs
  - Downstream Equipment Protection
  - Improved Operating Efficiencies
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Jonell Systems has a long history of working in the Power Industry. Whether it's working directly with power production companies or cogeneration facilities, we provide decades of experience and a variety of filtration technologies designed specifically for energy producing applications.

Our custom-designed solutions have consistently proven to enhance maintenance operations while increasing operating efficiencies. To meet the most demanding power applications, Jonell Systems filter elements are available in a wide variety of materials including: polyester, polypropylene, cotton, nylon, Teflon®, Nomex®, metals, micro-fiberglass, resin-bonded cellulose, etc.

#### **AIR & GAS FILTER ELEMENTS**

- Air Filters - Panel / Round
- Gas Filters - Pleated / Depth
- Gas Coalescing Filters - Pleated / Depth

#### **LIQUID FILTER ELEMENTS**

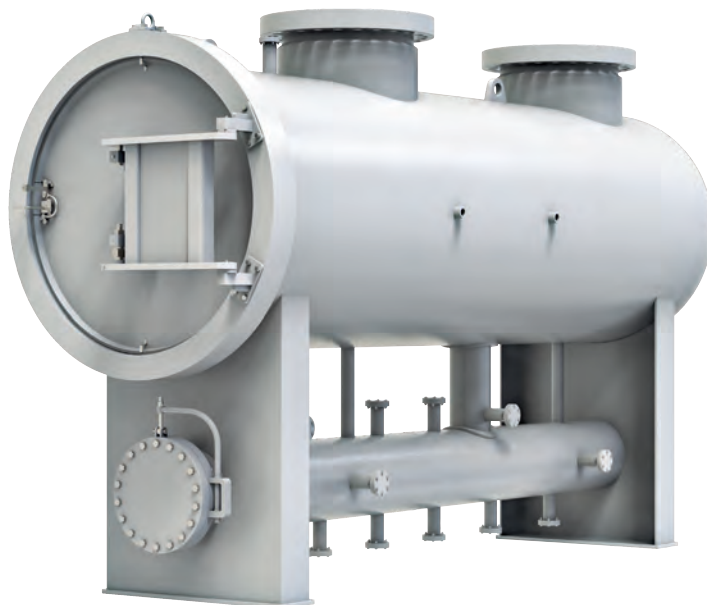
- Liquid Filters – Pleated / Depth
- Bag Style Filters
- Activated Carbon
- Liquid / Liquid Coalescing & Separation

#### **FILTER VESSEL INTERNALS**

- Element Support Risers
- Rapid-LOK™ Element Sealing System

#### **FILTRATION SUPPORT SERVICES**

- Process Optimization
- Product Customization
- Custom Product Stocking Program
- Filtration/Separation Cartridge Replacement



# Power Generating & Cogeneration Filtration Applications

Today's Power Industry is confronted with many challenges such as the need for expansion, fuel costs, environmental regulations, aging infrastructure, and demands to improve the bottom line. Jonell Systems provides our clients with real-world technical analysis to help them choose the filtration solution that best meets their operating parameters. Our filtration solutions encompass the major power components (gas turbines, heat recovery steam generators, steam turbines, compressor systems, etc.). Not only can we determine the optimal filtration solution for your plant or project, we also have significant experience with other project related systems that are required for successful power generation.



## COMPRESSOR PROTECTION

Condensable hydrocarbons, water, and solids can reduce viscosity of lube oil and damage pistons due to increased friction.

### JONELL SYSTEMS SOLUTIONS

**Micro-DEP™** and **Micro-LOK™ Series** vapor phase coalescing elements to remove finely dispersed liquid droplets and solids from the gas stream.



## TURBINE PROTECTION

Removal of lube oil contaminants and the prevention of build-up on turbine blades.

### JONELL SYSTEMS SOLUTIONS

**Micro-DEP™** and **Micro-LOK™ Series** vapor phase reverse flow coalescing elements to remove liquid hydrocarbons from feed gas.

**LiquiPleat™ Series** pleated liquid elements to remove solid contaminants from the lube oil and hydraulic fluids.

**JonAIR™ Series** air elements for high flow capabilities with greater dirt holding capacity and extended service life for the removal of fine solid contaminants.

**Depth-LOK™ Series** fiberglass gas elements to remove finely dispersed liquid droplets and solids.



## CLEAN FUEL GAS

Filtration of oil, water, and solids to protect gas engines and turbines.

### JONELL SYSTEMS SOLUTIONS

**Micro-DEP™** and **Micro-LOK™ Series** vapor phase coalescing elements to remove liquids and particulates from fuel gas and to minimize pollutant formation while maintaining operational efficiency.

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### Additional Power Generating Applications:

- Hydrogen Seal Oil
  - Steam Filtration
  - Exhaust Filtration
  - Combustion Turbine
  - Windmill Lubrication
  - Hot Gas Filtration
  - Diesel Fuel Storage
  - Air Intake Filtration
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#### HYDRAULIC AND LUBRICATION FLUIDS

Removal of corrosion contaminants for the protection of rotating equipment and other critical components.

#### JONELL SYSTEMS SOLUTIONS

**LiquiPleat™ Series** pleated liquid elements to remove particulates.



#### CONDENSATE WATER

Purification of condensate to prevent damage to boilers and turbines, thereby reducing operating costs.

#### JONELL SYSTEMS SOLUTIONS

**LiquiPleat™ HF Series** high-flow filter elements in a disposable configuration for per-filtration without backwashing.



#### WATER TREATMENT SYSTEMS

Removal of resin fines to prevent fouling of the deaerator internals and filtration of water borne contaminants.

#### JONELL SYSTEMS SOLUTIONS

**PhasePUR™ Series** two phase liquid coalescing elements to remove free liquid hydrocarbons and solids.

**LiquiPleat™ Series** pleated liquid elements to remove particulates.



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