

JONELL SYSTEMS™

# FILTRATION / SEPARATION PRODUCTS & SERVICES

Making the world safer, healthier and more productive.



**JONELL** SYSTEMS™  
Filtration Group®

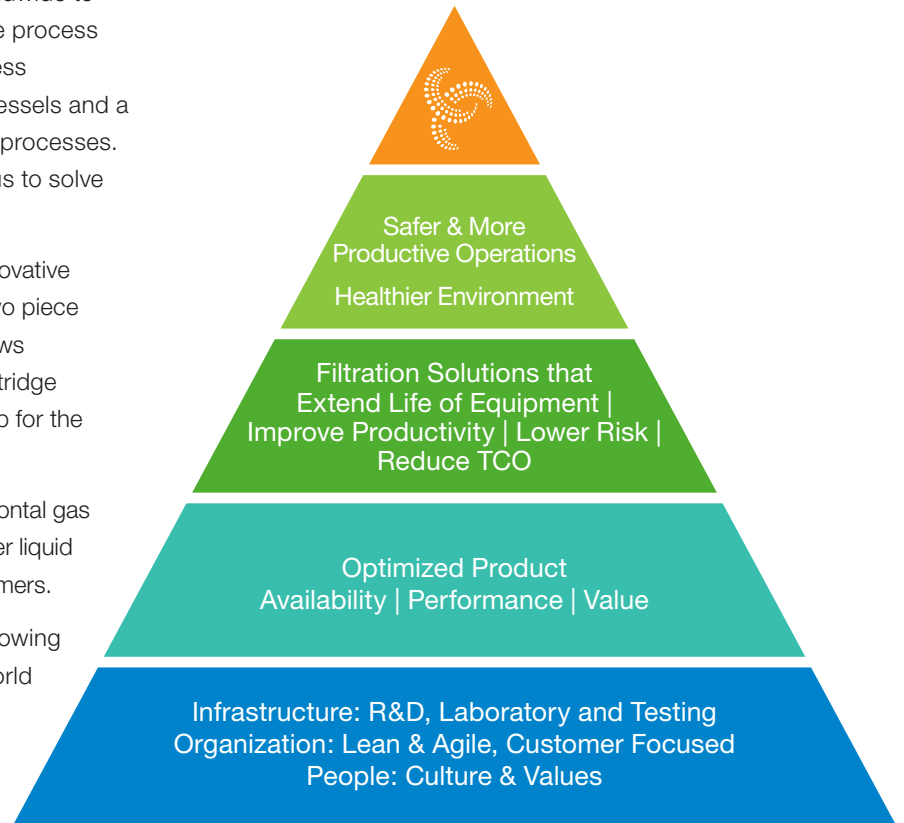
Jonell Systems, a Filtration Group brand, partners with oil, gas, refining, chemical and power companies worldwide to address end to end filtration challenges to improve process safety, reliability, productivity and ultimately business profitability. We manufacture complete systems, vessels and a wide range of cartridges to optimize your filtration processes. This coupled with our technical expertise, allows us to solve even the most challenging filtration applications.

Jonell Systems has a long history of developing innovative cartridges for the oil & gas industry including the two piece Twist-LOK™ cartridge for gas coalescing which allows customers to be able to change only half of the cartridge as needed thus reducing the total cost of ownership for the solution.

Jonell Systems also introduced SentinelTL™, a horizontal gas coalescer with 10X greater solid capacity, 35X greater liquid capacity to deliver up to 40% cost savings for customers.

As a part of Filtration Group, the world's fastest growing filtration company, it is our mission to make the world safer, healthier and more productive.

## JONELL SYSTEMS ADVANTAGE



We understand our customers rely on our knowledge, expertise and experience for innovative filtration solutions.

Customers depend on us – we deliver.

Our brands include:





## 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 HOUSINGS AND VESSELS

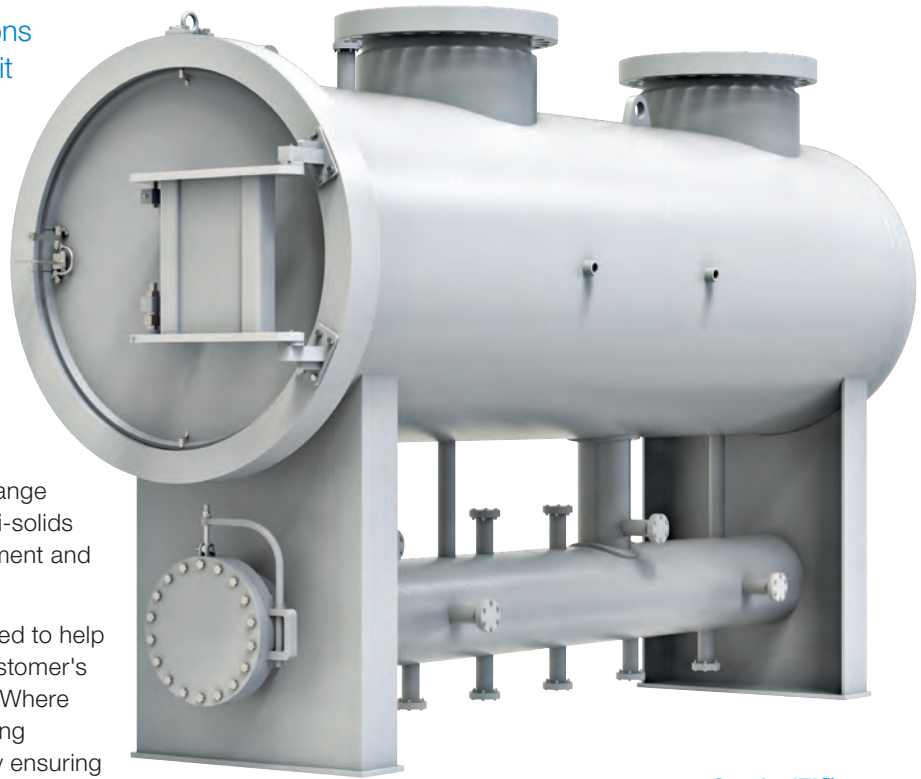
## Aftermarket Solutions for the Oil & Gas Industry

We have a full range of aftermarket solutions for our filtration vessels as well as to retrofit your existing housings for gas processing, refining, petrochemicals, terminals, pipelines, oil production.

Filtration is an important process in the oil & gas industry to protect downstream equipment such as compressors, gas turbines, amine or glycol absorbers, molecular sieves, PSA's, metering stations, mercury guard beds, gas fired heaters or furnaces, and heat exchangers. Depending on process requirements, filtration removes a wide range of contaminants including solids, liquids and semi-solids providing a clean process for downstream equipment and customers.

At Jonell Systems, vessels are specifically designed to help optimize the performance and reliability of our customer's processes. Vessels are designed to ASME code. Where applicable, vessels are mounted with quick opening closures for ease of use and element accessibility ensuring minimum downtime during element change outs. Our horizontal housings are designed for safety and productivity by allowing easy filter cartridge replacements without the need for ladders and platforms. There are several factors to consider when looking for a filtration solution.

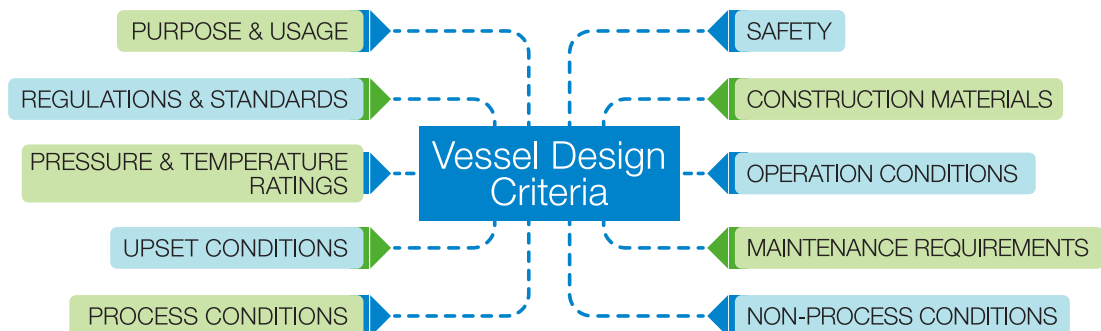
For gas applications, we have a full range of vessels from particulate filters to ultra-high efficiency vertical and horizontal coalescers that remove high-to-medium surface tension liquid ranging from water and hydrocarbons to low surface tension aerosols such as synthetic lube oils and hydrocarbons. We filter non shear sensitive solids such as sand, corrosion compounds and abrasives as well as shear sensitive corrosion by-products such as iron sulfide & iron oxide.



**Sentinel™**  
Customizable Multi-Stage Horizontal Gas Coalescer

Among the most common liquid applications are systems removing solid and semi-solid contaminants from produced water, wastewater, pipeline fuels, cooling water, utility water, amines from NGL's, water from hydrocarbons and many other applications requiring particulate removal from liquids and heavy dirt loading.

The application and process details determine the type, size and design of the vessel. Commercial and regulatory requirements also influence the choices.



# FILTRATION SOLUTIONS

## Gas Filtration Solutions

Jonell Systems has more than 140 years of combined filtration experience in Oil, Gas, Refining and Petrochemical markets giving you, the process owner, the confidence our solutions will be the best fit to handle your challenges.

Our vessel products are manufactured to meet or exceed ASME Section 8 Div.1 standards. Each vessel can be customized to meet your specific process need.

SOLIDS AND LIQUIDS FROM GAS				
Vessel Type	Target Contaminant	Target Contaminant Size	Application	Cartridge / Removal Mechanism
Scrubber	Liquids and Associated Solids	Slug - 10 $\mu$	Continuous Bulk Liquid Loading	Engineered Wire Mesh, Mechanical Vane, Cyclonic
Separator	Liquids and Associated Solids	8 - 10 $\mu$	Light Liquid Loading	Engineered Wire Mesh, Mechanical Vane, Cyclonic
Filter Separator	Fine Solids and Liquids	0.3 - 1 $\mu$	Associated Pipeline Liquids and Solids	<b>Stage 1:</b> Depth-LOK, TRI-SHIELD, GasPleat <b>Stage 2:</b> Engineered Wire Mesh, Mechanical Vane, Cyclonic
Dry Gas	Fine Solids	0.5 - 10 $\mu$	Associated Pipeline Solids	GasPleat
Vertical Coalescer	Ultrafine Aerosols	0.1 - 0.3 $\mu$	Low Surface Tension Liquids	TRI-SHIELD, Micro-DEP, Micro-LOK
Horizontal Multi-stage Coalescer	Fine Solids, Shear Sensitive Solids, and Ultrafine Aerosols	0.1 - 0.3 $\mu$	Submicronic Aerosols with Moderate Dirt Loading	TRI-SHIELD, Twist-LOK

## Liquid Filtration Solutions

Jonell Systems liquid filtration products are designed as a standard to meet the most stringent and difficult processes in the industry. By relying on their extensive industry and application knowledge, our team of experts and engineers will work with you directly to customize and develop solutions that meet your individual process needs.

SOLIDS FROM LIQUID			
Vessel Type	Target Contaminant Size	Application	Related Cartridge
Static Strainer	50 - 400 $\mu$	Bulk Solid Removal	Custom Basket Arraignments
Self-Cleaning Strainer	50 - 400 $\mu$	Bulk Solid Removal	Custom Basket Arraignments
Bag	1 - 100 $\mu$	Nominal Solids Removal	JXC, JBAG
Single Cartridge	0.5 - 50 $\mu$	High Efficiency Removal	TRI-SHIELD, Trapper, LiquiPleat, FluiSock
Multi-Round Cartridge	0.5 - 50 $\mu$	High Efficiency Removal	TRI-SHIELD, Trapper, LiquiPleat, FluiSock
High Flow	0.5 - 50 $\mu$	High Efficiency Removal	TRI-SHIELD, LiquiPleat HF Series

LIQUID/LIQUID PHASE SEPARATION			
Coalescing with Gravity Separation	0.5 - 25 $\mu$	Separation of two liquids	JPAKS, PhasePUR
Coalescing with Physical Separation	0.5 - 25 $\mu$	Separation of two liquids	Phase-LOK, PhasePUR

LIQUID ADSORBTION			
Canister Style	Molecular Adsorbtion	Removal of Hydrocarbon and other Compounds	CarboPUR, ClayPUR
Bulk Style	Molecular Adsorbtion	Removal of Hydrocarbon and other Compounds	CarboPUR Bulk

# GAS FILTER ELEMENTS

## Pleated Style

### GasPleat™ Series

Jonell Systems Gas Filtration products are available in a wide variety of material and orientations to help ensure our customers optimum filtration control.

In addition to a large assortment of standard part numbers, we can quickly customize a gas filter to suit specific filtration requirements.

Contact your nearest Jonell representative or Jonell direct to see how our gas filters can help optimize your operations.



### GasPleat™ E Series (JPME) Polyester Filter Elements

GasPleat E Series Pleated Synthetic Polyester Dry Gas Filter Elements are high efficiency filters specifically designed for the removal of solid particulate contaminants in critical gas applications.

Polyester has excellent use in dry gas applications with exceptional dimensional stability and good resistance to chemicals and abrasion.

They are available in various grades of absolute rated high performance polyester media with hardware customizable to suit your application.



### GasPleat™ P Series (JPMP) Polypropylene Filter Elements

GasPleat P Series Pleated Synthetic Polypropylene Dry Gas Filter Elements are high efficiency filter elements specifically designed for the removal of solid particulate contaminants in critical gas applications.

Polypropylene exhibits excellence resistance to acids, alkalis, and hydrolysis.

They are available in various grades of absolute rated high performance polypropylene media with hardware customizable to suit your application.



### GasPleat™ K Series (JPMK) Bonded Blended Polycell™ Filter Elements

GasPleat K Series Blended Polycell Filters are designed using our proprietary "K" media blend which consists of bonded polyester and cellulose fibers.

This special blend of media provides some of the structural and compatibility advantages of our standard polyester dry gas filter elements at a cost closer to that of an economy level cellulose filter.



### GasPleat™ C Series (JPMC) Resin Bonded Cellulose Filter Elements

Pleated resin bonded cellulose dry gas filters provide a low cost economical approach to dry gas filtration in non-critical applications.

They are available in various grades of absolute rated high performance media with hardware customizable to suit your application.



### GasPleat™ G Series (JPMG) Microglass Filter Elements

GasPleat G Series Pleated Microglass Gas Filter Elements are high efficiency cartridges specifically designed for the removal of contaminants in critical gas applications.

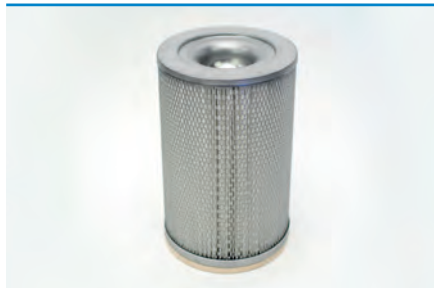
They are available in various grades of absolute rated high performance microglass media with hardware customizable to suit your application.



### **GasPleat™ SS Series (JPSS)** Metal Filter Elements

Pleated Metal Filter Elements are the ultimate in durability and chemical compatibility.

These elements can be used in ultra high temperature gas applications and are often backwashed and re-used multiple times before discarding.



### **GasPleat™ HT Series (JPMG-HT)** High Temperature Gas Filter Elements

GasPleat HT Series High Temperature Pleated Microglass Gas Filter Elements are high efficiency cartridges specifically designed for the removal of contaminants in critical gas applications operating at high temperatures.

They are available in various grades of absolute rated high performance microglass media with tinned carbon steel or high temperature stainless steel hardware.



### **GasPleat™ SE Series (JSE)** Sewn-End Filter Elements

GasPleat SE Series sewn-end radial fin gas filter elements are designed to replace any manufacturer's elements of this design in particulate removal from a gas stream.

A wide selection of media is available including: cotton, rayon, polyester, polypropylene, nylon, Teflon®, Nomex®, and fiberglass to suit any application

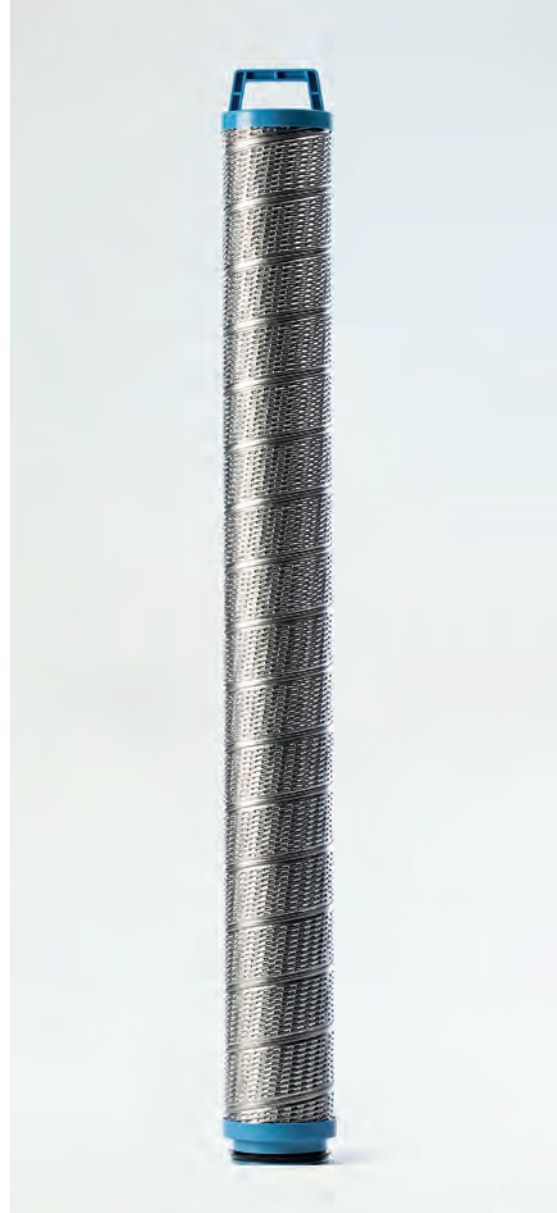


### **GasPleat™ ME Series (JME)** Molded-End Filter Elements

Jonell Systems molded-end pleated filter elements are designed to replace any manufacturer's elements of this design in gas service.

The GasPleat ME Series filters are molded from high quality plastisol that seals the ends of the elements while acting as a gasket against the sealing plates in the filter housing.

A wide selection of media is available including cotton, rayon, polyester, polypropylene, nylon, Teflon®, Nomex®, and fiberglass.



### **GasPleat™ Quick-Change Series (JQC)**

The Quick-Change series has been designed as an extension to the Jonell Systems GasPleat™ product line. The GasPleat™ cartridges are designed to remove rigid contaminants from dry natural gas streams.

Jonell Systems Quick-Change toolless cartridges are built to reduce maintenance downtime with design features like rounded end caps, wide handle grip, high durometer chevron gasket for a positive seal to avoid bypass and effective contaminant removal.

These cartridges can be easily installed without indexing reducing downtime.

# GAS FILTER ELEMENTS

## Depth Style

Jonell Systems depth style filter elements are specifically designed for gas filtration and liquid coalescing. Through the use of a variety of highly compatible media in a varying scale of fiber diameters, our graded density style of filter designs provide the optimum combination of solid contaminant holding and liquid particle coalescing capability.



### Depth-LOK™ Series (JFG) Fiberglass Filter Elements

The Depth-LOK Series Fiberglass Gas Filters are gradient depth style filter/separator elements.

They are designed for the removal of 1.0 µm particles from a gas stream, as well as, coalescing liquids for easier removal. The Depth-LOK series is one of the most popular industry filters and is regarded as an industry work horse.



### Depth-LOK™ XTR Series (JMG) Micro-Fiberglass Filter Elements

Depth-LOK XTR Series Fine Micro-Fiberglass filters are designed for the removal of ultra-fine 0.3 micron particles such as iron sulfides (FeS) from a gas stream, as well as, coalescing liquids.

When an absolute 0.3 micron rating of solids is required in a depth style option, the Depth-LOK XTR Series is field tested and proven to do the job.



### Depth-LOK™ HT Series (JFGGF) High Temperature Filter Elements

Depth-LOK HT Series High Temperature Filters are specially designed for ultra-high temperature gas filtration.

By using a depth matrix of heat treated Pyrex glass fibers with high quality stainless steel hardware and high temperature gaskets, the Depth-LOK HT elements can be safely operated in high temperature applications with temperature ranges from 375 deg F to 500 deg F.



### Depth-LOK™ Quick-Change Series (JQC)

The Quick-Change series has been designed as an extension to the Jonell Systems Depth-LOK™ product line. The Depth-LOK™ cartridges are designed to provide the optimum combination of solid contaminant holding and liquid contaminant pre-coalescing capability.

Jonell Systems Quick-Change toolless cartridges are built to reduce maintenance downtime with design features like rounded end caps, wide handle grip, high durometer chevron gasket for a positive seal to avoid bypass and effective contaminant removal.

These are replacements for PECO EZ-Align\* Series cartridges for the Titan-Purasep\* series housings, these cartridges can be easily installed without indexing reducing downtime.



### TRI-SHIELD™ Series (JFS)

#### Tri-Lobal Spiral Hi Efficiency Long-Life Depth Filter Elements

TRI-SHIELD™ Filters are our latest innovation in improved depth style filtration.

The unique engineered blend of multiple fibers sizes and shapes, including Tri-Lobal, are specifically layered in an advanced spiral construction. This process gives TRI-SHIELD superior dirt loading and high efficiency when compared to traditional depth filtration medias.

Each layer performs a specific contaminant management function which gives us the ability to engineer different layers of media even for the most challenging applications.



# GAS COALESCING ELEMENTS

Jonell Systems Gas Coalescing elements are available in a wide variety of materials and orientations to ensure our customers have complete control over their gas filtration.



## Micro-LOK™ G Series (JPMG)

### Coalescing Filter Elements

Designed for the removal of entrained low surface tension mist and aerosols, the Micro-LOK G Series Pleated Depth Vapor Phase Coalescing Filters is an industry work horse in reverse flow coalescing.

Available in hundreds of configurations and sealing types; you can trust the Micro-LOK G Series when an absolute 0.3 micron efficiency is critical.



## Micro-LOK™ Series (JOS)

### Coalescing Filter Elements

Micro-LOK JOS Air Oil Separator Coalescing Elements are designed to remove sub-micronic aerosols from a gas stream.

Most commonly used to remove lubricating oil aerosols in a compressor discharge.



## Micro-DEP™ G Series (JMG)

### Ultra-Fine Vapor Phase Coalescing Filter Elements

Micro-DEP G Series ultra-fine depth style micro-glass vapor phase coalescing filter elements are reverse flow elements designed for the removal of entrained low surface tensions mists and aerosols.

When absolute 0.3 micron efficiency is critical, you can trust Micro-DEP G Series.



## JPEX™ Series Conical Style Coalescing Cartridges

JPEX™ Series conical style elements coalesce extremely fine liquid particles from natural gas, such as lubricating oil downstream of a compressor.

The flow pattern through the element is from the "inside-to-outside, reducing the gas velocity as the droplets are being removed.

JPEX Series elements are available in various grades of high performance micro-fiberglass with hardware to suit specific applications.



## TRI-SHIELD™

## TRI-SHIELD™ (JRGC)

### Vertical Reverse Flow Coalescer Cartridges

Designed for vertical coalescers used in coalescing applications such as compressor discharge, contactor protection, contactor discharge, these cartridges are perfect to remove difficult contaminants including fine aerosols and low surface tension liquids such as amines, glycol and lube oils.

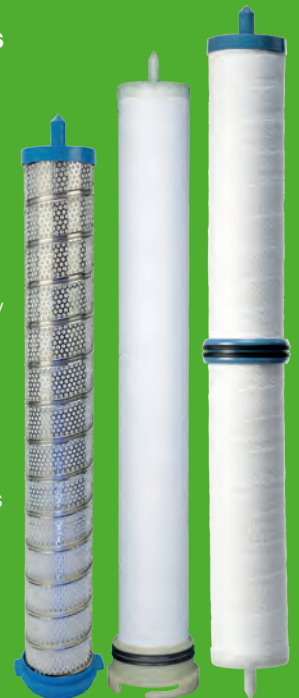
## Twist-LOK™ Series (JGCP/C & JGCS)

### Versatile Phase Separation Filters

Twist-LOK Filters versatile separation system offers superior contaminant removal and coalescing efficiency with the added feature of our patented Twist-LOK locking mechanism allowing the ability to customize filter and coalescing cartridges, as needed, to suite specific operating conditions.

Designed to remove liquid and solid contaminants from natural and process gas, the assembled cartridge provides both a first stage "outside-to-inside" flow direction filter element and a second stage "inside-to-outside" coalescer element.

Now also available as a single piece cartridge.



# LIQUID FILTER ELEMENTS

## Pleated Style



### **LiquiPleat™ HF Series (JHF)** High Flow Filter Elements

LiquiPleat HF Series elements are large diameter, high efficiency, inside-to-outside flow liquid elements designed for applications with large flow requirements.

Available in various grades of absolute rated high performance media with hardware customizable to suit your specific applications. The large surface area pleated media cartridges are designed to provide the optimum combination of particle removal efficiency and contaminant holding capability.



### **LiquiPleat™ HF XTR Series (JHFO)** High Flow Filter Elements

LiquiPleat HF XTR Series filters are large diameter elements designed for ultra-high flow applications.

These high efficiency elements are designed with a double O-ring sealing system for high liquid flow outside-to-inside direction requirements.

Available in various grades of absolute rated high performance media to suite your specific application.



### **LiquiPleat™ A Series (JPMA)** Cotton Filter Elements

LiquiPleat A Series Cotton Filters are used in specialized applications, such as gas sweetening processes that require removal of organic and inorganic solids from amine systems.

Our LiquiPleat A Series filters provides increase efficiency and surface area over traditional cotton string wound filter technologies while maintaining the temperature and compatibility characteristics of cotton media.



### **LiquiPleat™ E Series (JPME)** Polyester Synthetic Filter Elements

LiquiPleat E Series polyester filters are pleated elements designed for applications with large flow and contaminant requirements.

LiquiPleat E Series filters are available in various grades and configurations of high performance polyester with hardware to suit your application.



### **LiquiPleat™ P Series (JPMP)** Polypropylene Synthetic Filter Elements

LiquiPleat P Series polypropylene filters are pleated liquid filtration elements designed for applications with large flow and contaminant requirements.

LiquiPleat P synthetic filters are available in various grades and configurations of high performance polypropylene with hardware to suite your applications.



### **LiquiPleat™ G Series (JPMG)** Fiberglass Pleated Filter Elements

LiquiPleat G Series Microfiberglass filters are pleated liquid filtration elements designed for applications with large flow and contaminant requirements.

LiquiPleat G Series filters are high efficiency elements available in various grades and configurations of high performance microfiberglass media with hardware to suit your application.

## LiquiPleat™ Series

Jonell Systems pleated style liquid filter cartridges are high surface area high efficiency filter elements specifically designed for the removal of contaminants in critical liquid applications.

They are available in various grades of absolute rated high performance media with hardware customizable to suit your application.



### LiquiPleat™ C Series (JPMC) Resin Bonded Cellulose Filter Elements

LiquiPleat C Series resin bonded cellulose filters are an economical choice for applications such as glycol filtration and lubricating oil where nominal filtration is desired.

Economical filter that provides increased surface area over traditional stringwound and meltblown cartridges.



### LiquiPleat™ K Series (JPMK) Polycell™ Media Filter Elements

LiquiPleat K Series Media Hybrid Liquid Filter Elements are designed using our proprietary K media blend which consists of bonded polyester and cellulose fibers.

This special blend of media provides some of the structural and compatibility advantages of standard polyester liquid filter elements at a cost closer to that of an economy level cellulose filter.



### LiquiPleat™ SS Series (JPSS) Metallic Filter Elements

Pleated Metal Liquid Filter Elements are the ultimate in durability and chemical compatibility.

These elements can be used in ultra-high temperature applications and are often backwashed and re-used multiple times before discarding.



### LiquiPleat™ N Series (JPMN) Nylon Pleated Filter Elements

LiquiPleat N Series Nylon filters are pleated liquid filtration elements designed for applications with specific chemical compatibility restraints.

LiquiPleat N Series filters are available in various grades and configurations of high performance nylon media with hardware options to suit your specific applications.



### LiquiPleat™ GX Series (JPMGX) Nomex/Fiberglass Pleated Filter Elements

LiquiPleat GX Series filters are constructed of a combination of Nomex and Microfiberglass medias specifically designed for higher temperature rated applications.

Available in various grades of high performance media with hardware options to suit your specific application.



### LiquiPleat™ ME Series (JME) Molded-End Filter Elements

LiquiPleat ME Series filter elements are molded from high quality plastisol that seals the ends of the elements while acting as a gasket against the sealing plates in the filter housing.

A wide selection of media is available, including: cotton, rayon, polyester, polypropylene, nylon, Teflon®, Nomex®, and fiberglass.



### LiquiPleat™ H Series (JH) Hydraulic Filter Elements

LiquiPleat H Series Hydraulic Filter Elements are heavy duty; high collapse pressure elements designed for use in hydraulic service and are inert to most aromatic compounds.

Available in various grades of high performance media with hardware customizable to suit your specific application.

# LIQUID FILTER ELEMENTS

## Depth Style

Jonell Systems depth style liquid filter elements are carefully designed for the removal of contaminants from a liquid stream. Through the use of a variety of highly compatible medias in a varying scale of fiber diameters, our graded density depth style designs provide the optimum combination of flow characteristics and solid contaminant holding capability.



### TRI-SHIELD™



#### TRI-SHIELD™ Series (JPLE/P)

Tri-Lobal Spiral Hi Efficiency Long-Life Depth Filter Elements

The unique engineered blend of multiple fibers sizes and shapes, including Tri-Lobal, are specifically layered in an advanced spiral construction. This process gives TRI-SHIELD superior dirt loading and high efficiency when compared to traditional depth filtration medias.



#### FluiSock™ Series (JB) Rolled Sock Style Filter Elements

FluiSock Series Rolled Filters are rolled type filter elements manufactured using specific blends of media designed for a range of applications in the oil and gas industry.

The Jonell Systems FluiSock series is one of the oldest, most economical, and most trusted filtration technologies in the oil and gas industry today.



#### JPD Series Polypropylene Depth Style Cartridges

JPD Series large diameter coreless depth cartridges deliver cost effective performance at low pressure drop in liquid base applications with high flow rates.

These are well suited to mid-steam applications in oil and gas industry to capture solid and semi solid particulates within the filter media to deliver reliable, cost effective filtration.



#### ResDEP™ Series (JRB) Bonded Filter Elements

ResDEP Bonded Filter Elements have a unique proprietary two-stage filtration design to maximize particle retention and service life in viscous fluid filtration applications.

An outer spiral pre-filter wrap, made from a blend of polyester and acrylic fibers, increases cartridge strength and eliminates residual debris associated with conventional or machined grooved resin bonded cartridges.



#### ToughWound™ Series (JJ) String Wound Filter Elements

ToughWound String Wound Filter Elements are low cost nominal filtration technologies which are very effective for use in a variety of contaminants from water, vegetable oils, beverages, and other fluids.

String wound filters are among the most common type of liquid filters used in the world today.



#### JMB™ Series Melt Blown Filter Elements

JMB Melt Blown Filter Elements are made of a polypropylene resin using no binders, lubricants, or antistatic agents in our manufacturing process.

JMB polypropylene filters have been tested and certified under ANSI/NSF Standard 42 for material requirements only.

The inert polypropylene resin provides exceptional chemical compatibility to handle a wide range of process fluids.



#### BiDEP™ Series High Efficiency Synthetic Bi-Component Filter Elements

The BiDEP series rigid filter cartridges are made of high efficiency, thermally bonded, bi-component fibers.

The unique fiber-to-fiber bond forms a three dimensional fiber network that offers a high tolerance to differential pressures.

This feature also prevents changes in the fiber matrix throughout the life of the fiber allowing for precise filtration and eliminating filter unloading.

# TWO-PHASE LIQUID SEPARATION

Two-phase liquid separation elements separate and remove undesired free aqueous or non-aqueous droplets from a liquid stream. Our two-phase liquid separation product line contains a large assortment of coalescing filters and horizontal re-packs, as well as, liquid separating elements. Filters are available in fiberglass and silicone impregnated cellulose designs as well as synthetic, stainless steel, and Teflon® materials for use in caustic service.



## **Phase-LOK™ S Series (JS)** **Pleated Silicone Impregnated Cellulose Separator**

Phase-LOK S Series Pleated Silicone Impregnated Cellulose Separator Elements incorporate specially treated silicone impregnated cellulose to produce a hydrophobic media that repels water while allowing hydrocarbons to pass through.

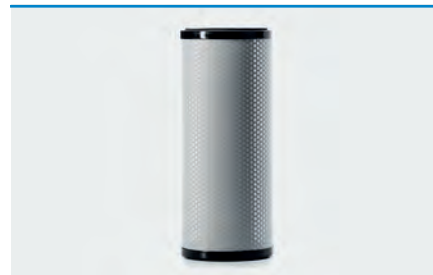
Due to the filtration level achieved in the coalescer stage, they rarely foul with solids and typically require replacement only every second or third coalescer change to a maximum service life of one year.



## **Phase-LOK™ T Series (JST)** **Teflon® Phase Separator Filter Elements**

Phase-LOK T Series Phase Separator Elements are constructed of Teflon® coated stainless steel screen. Similar to the S Series, Phase-LOK T hydrophobic Teflon media repels water while allowing hydrocarbons to pass through.

Due to the filtration level achieved in the coalescer stage, T series elements rarely foul with solid contaminants, can withstand a wide pH range, and are highly compatible in most applications.



## **Facet InterPhase™ SS Series** **Synthetic Separator Filter Elements**

Facet InterPhase SS Series Separator Elements are hydrophobic and repel water droplets that form while passing through the liquid/liquid coalescers. They perform exceptionally well in a broad range of liquid applications and are more efficient and cost less than Teflon® coated separators.

These elements provide excellent chemical compatibility and can also be cleaned and reused.



## **PhasePUR™ G Series (JC) (JCP)** **Fiberglass Coalescing Elements**

PhasePUR G Series Fiberglass Phase Coalescing Filter Elements are designed to coalesce two immiscible liquid phases within a stream to aid separation. These cartridges are also highly efficient particulate filters.

These elements should always be protected by a pre-filter. In installations where no pre-filter exists, the JCP version uses an additional pleated section on the upstream side of the coalescer media to extend the effective operating life and protect the coalescing media.



## **PhasePUR™ E Series** **Synthetic Phase Coalescing Filter Elements**

PhasePUR E Series synthetic liquid/liquid coalescing filters were developed for applications where glass media is not compatible.

Utilizing Jonell Systems' TRI-SHIELD™ synthetic polyester coalescing media, these filters are designed to remove water from fuels, lube oils, condensates, and other hydrocarbons.



## **JPAKS™ Series** **Depth Style Phase Coalescing Wafer Packs**

JPAKS Series Liquid Coalescing Wafer Packs are designed in various materials and media densities specifically engineered for the separation of immiscible liquids.

Through controlled fiber sizes and carefully distributed media densities, Jonell Systems' JPAKS provide maximum coalescing surface area to ensure the optimum fluid contact time prior to gravitational phase separation of coalesced fluids.



## **HydroSorb™ Series (JPMWA)** **Water Absorption Filters**

HydroSorb Series Water Absorption Elements filter solid particulates and absorb water from petroleum based fluids.

Solid particulates are removed by pleated cellulose filter media which is bonded with water absorbing hydrophilic media.

# BAG FILTERS



## **JPLX Series** Conical Pleated Bag Filter Replacement

Jonell Systems JPLX series are coreless cartridges with inside to out flow, designed for a wide range of applications including particulate removal from water and amine applications. The cartridge is pleated with an epoxy coated screen improving structural integrity from installation to removal.

Ideal for solid-liquid separation, this coreless cartridge delivers effective single pass filtration for batch and drumming applications.



## **JBAG™ Series** Bag Filter Elements

Leading our economy class filters, Jonell Systems JBAG Series synthetic bag style filters can reduce total filtration costs.

JBAG Series filters have a service life up to four times longer than conventional bag filters. Available in polypropylene and polyester, as well as, other media for special applications.



## **JXC™ Series (JXC)** Pleated Bag Filter Replacements

JXC Series elements are high efficiency, "inside-to-outside" flow, pleated liquid filtration bag replacement cartridges designed for applications with high flow requirements.

By significantly increasing the surface area in original baskets, incorporating multiple layers of media, and adding a true gasket seal; our unique pleated bag design provides increase efficiency, for longer life, and superior dirt holding capacity compared to a standard bag design.

# ACTIVATED CARBON FILTRATION

Jonell Systems activated carbon products are specifically designed to perform in the toughest applications in the Oil & Gas Industry.

Our activated carbon products are available in a multitude of industry standard canister dimensions, as well as, several Jonell Systems original designs. By using only the highest quality materials and the most robust designs, Jonell Systems guarantees a finished product second to none.



## **CarboPur™ R Series (JRF)** Radial Flow Activated Carbon Canisters

CarboPur R Series Radial Flow Activated Carbon Canisters present a greater surface area allowing process liquid to flow from the outside through virgin activated carbon at a lower velocity.

Hydrocarbons contaminants are removed by carbon adsorption from the fluid before exiting the core. CarboPur R Canisters allow for easier and cleaner replacement of activated carbon.

# AIR & GAS FILTRATION

## Jon-AIR™ Air Filter Elements

Jonell Systems Air Filter are designed and manufactured for a wide variety of industrial applications including: Power Generators, Gas Turbines, Air Compressors, Industrial Ovens, Anti-Static Equipment, Automated Machinery, Packaging Equipment, and Inspection Equipment.



### JonAIR™ P Series Rectangular Style Air Filter Elements

JonAIR P Series (JAF) high efficiency pleated panel filters are manufactured with various media options in heavy duty metal frames. All of them are produced according to the highest quality standards and optimized for the highest performance and lowest energy consumption.

These pleated media elements are designed to provide the optimum combination of particle removal efficiency and contaminant holding capability



### JonAIR™ PRE Series Pre-Filters

The PRE series media panel is a replaceable media designed to reduce replacement costs by extending the service life of panel air filters.

Made from 100% non-woven bonded fibers, the pre-cut pads are engineered for single or multi-ply grades.

Available dry or treated with non-toxic, non-migratory, odorless adhesives that are incorporated into the fiber media.



### JonAIR™ R Series Round Style Filter Elements

JonAIR R Series (JAF) pleated round air filters are designed for high flow capabilities with greater dirt holding capacity and extended service life.

Designed for the toughest of operations and are available in various media grades, hardware, adhesives, and gaskets to suit your specific applications



### CarboPur™ V Series (JVF) Longitudinal Flow Activated Carbon Canisters

CarboPur V Series Vertical Flow Activated Carbon Canisters are designed to maximize carbon utilization allowing for the highest amount of surface area versus volume available.

As a result, the process liquid has 30% more carbon contact as it flows through the canister.



### CarboPur™ Bulk Activated Carbon

CarboPur Bulk Carbon is specially selected to maximize performance in gas processing applications where the target contaminant is long chain hydrocarbon molecules.

Used in all Jonell Systems carbon canisters, our activated carbon is also available in bulk form, small easily managed bags, and large super sacks.



### ClayPur™ (JFE) Fuller's Earth Canisters

ClayPur Series Fuller's Earth Canisters are designed for use in decolorizing and removing surfactants from light hydrocarbon liquids.

These canisters absorb polar compounds, color bodies, and inorganic contaminants from refined fluids, such as diesel, jet fuel, propane, etc. Our Fuller's earth canisters help eliminate discarded fuel runs and will quickly repay their costs.



**JONELL** SYSTEMS™  
Filtration Group®

Scan QR Code to find our locations



+1 844 GOFILTR

[jonellsalesinfo@filtrationgroup.com](mailto:jonellsalesinfo@filtrationgroup.com)  
[www.jonellsystems.com](http://www.jonellsystems.com)

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