

LIQUID CAPABILITIES

Process Filtration



PROCESS FILTRATION

For over 35 years, Donaldson Process Filtration has provided quality liquid filtration products to process industries around the world. Donaldson innovative filter designs focus on energy efficient operation at high flow rates and are available in a wide variety of materials, micron ratings, and end styles to meet your specific requirements. From pre-filtration to final, and from low capacity to high, when you think purity, think Donaldson.

ADVANCED FILTRATION TECHNOLOGY

With Donaldson's advanced technology in place, it's possible to reduce your total cost of ownership by optimizing filter performance and improving energy efficiency. LifeTec™ liquid filters with a unique media configuration and cage design that substantially increases dirt-holding capacity, flow through, and strength.



UNRIVALED SUPPORT AND EXPERTISE

Your business and brand reputation depend on cleanliness throughout your production process. That's why it's important to have a filtration partner who is experienced, reliable, and available when you need them.

- Extensive filter analysis and troubleshooting
- Complete facility assessments

- Comprehensive product warranty
- In-stock and ready to ship

EXTENSIVE PRODUCT PORTFOLIO

We stock thousands of elements, housings, and accessories for Donaldson filters as well as replacement elements for most other brands. Our elements and housings are engineered to help strengthen your food safety initiatives and protect your brand by meeting:

- FDA Code of Federal Regulations, Title 21
- GFSI sanitary guidelines such as SQF and BRC
- 3-A sanitary and hygienic guidelines
- EC 1935/2004 (Food Contact Materials)
- EU 10/2011 (Plastic materials with Food Contact)
- EC 2023/2006 (Good Manufacturing Practice for Food Contact Materials)

LIQUID FILTRATION MARKETS

From filtration of non-alcoholic beverages to filtration of food ingredients, our liquid filtration solutions will help preserve the integrity of your products.



Non-alcoholic Beverages



Alcoholic Beverages



Dairy Products



Bottled Water



Food Ingredients

APPLICATIONS



Removing treatment chemicals, such as chlorine, from water to avoid unwanted tastes in the final product.*



Removing particulate* from liquids in a facility. A few applications would be:

- Boiler feed water
- RO membrane protection
- CIP water



Removal of organic matter* prior to packaging. For example, wine, beer, bottled water and juice all require product filtration.

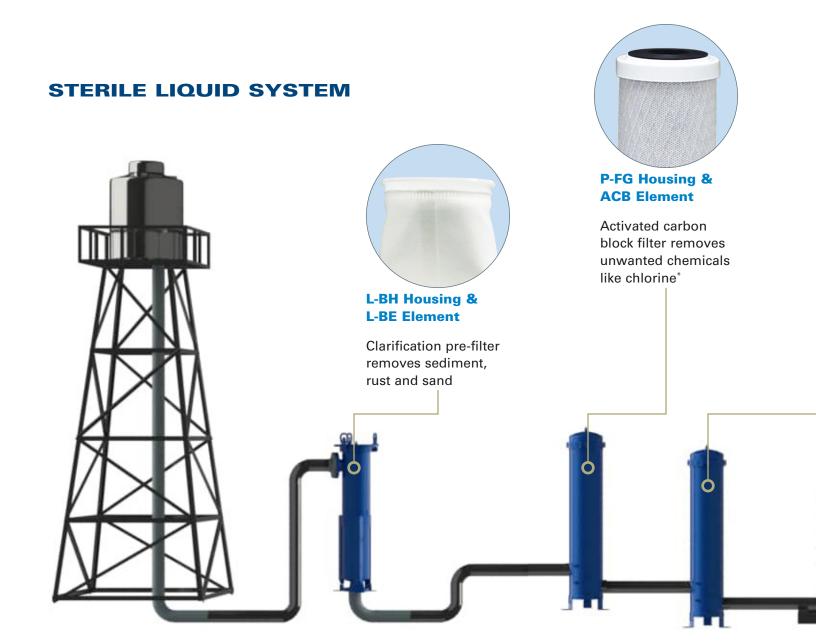


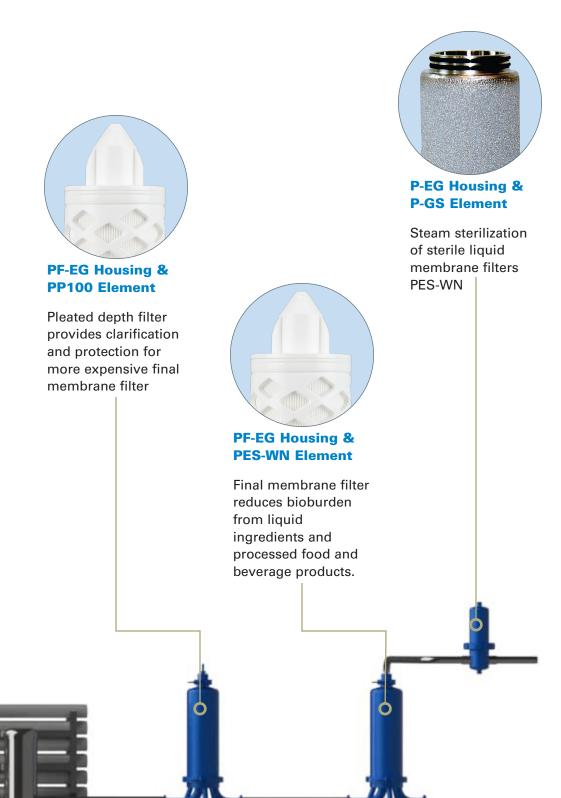
Removal of bacteria* from liquids that are used as ingredients or are products themselves.

^{*}Microorganism retention rates not tested and certified by NSF.

PURITY AND PROTECTION AT ALL STAGES

Producing a liquid-based food and beverage product that is free of dirt, rust, living bacteria, microorganisms, and other contaminants is one of the most important aspects of your job.* Proper filtration is an effective way to help ensure protection against such contaminants. This involves multiple phases, including coarse filtration and bioburden reduction of ingredients and the final product.





Reverse Osmosis System

P-FG Housing &

Clarification depth

pre-filter protects

from contaminants

RO membranes

PP-FC Element

INCREASED PROCESS RELIABILITY WITH LIFETEC

Donaldson's ground-breaking line of LifeTec process filtration products are stronger, longer-lasting, and have higher flow rates than most products on the market today.

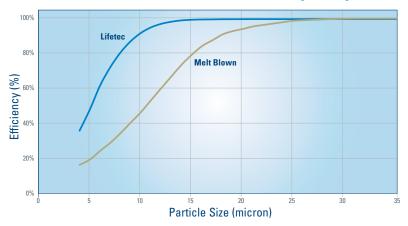
- Depth filters for pre- and fine filtration of inorganic particulate
- Membrane filters for final filtration of processed food ingredients and processed food products
- Retention rates from 0.2 to 50 microns
- Increased dirt holding capacity of filter media
- · A wide range of media options to fit your application needs
- Lengths from 254mm to 1016mm (10 to 40 inches)



LIFETEC

Higher Efficiency = Less Contamination

Melt Blown versus LifeTec Efficiency Comparison



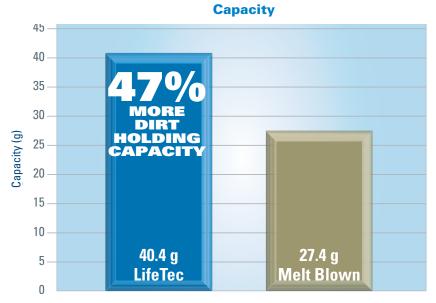
MORE EFFICIENT

Efficiency is used to describe how effective an element is at trapping contaminant at a given micron size.

This graph illustrates that this LifeTec element is about 99% efficient at capturing particulate that is 15 micron or larger.* This standard melt blown element is only about 80% efficient at 15 micron, meaning that 20% of the particulate that is 15 micron will pass through the filter and move further down the process stream. The LifeTec element offers more efficiency which results in increased process integrity.

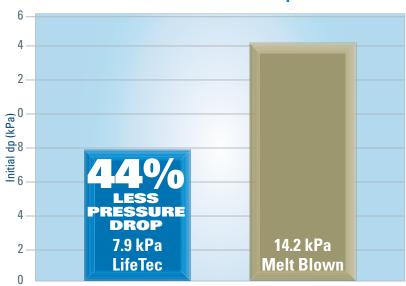
LONGER LIFE

LifeTec's revolutionary cage and pleat design improves overall filtration performance while reducing cost of ownership. Compared to traditional melt blown cartridges, LifeTec offers greater holding capacity and lower pressure drop, allowing for longer life and fewer changes outs, helping save time and money.



^{*}Microorganism retention rates not tested and certified by NSF.

Lower Pressure Drop



COUNT ON SIGNIFICANT SAVINGS

Process owners with their eye on the bottom line know that using Lifetec filters equates to significant cost savings. When compared to standard melt blown elements, LifeTec elements deliver 44% less pressure drop. This reduction in pressure drop translates to less energy consumption and more environmentally friendly operation of a facility.

FEWER CHANGEOUTS SAVE ENERGY, MAINTENANCE AND FILTER COSTS

LIFETEC CUTS OPERATING COSTS BY 27%*





SUPPORTING PROCESS AND PRODUCT INTEGRITY

Extensive Product Portfolio

- · Process air, steam and liquid filtration products
- · Performance engineered to sanitary guidelines
- Wide range of filtration media for any application
- Housings, elements, and parts in-stock, ready to ship

Advanced Technology

- Optimized filtration performance and efficiency
- · Extensive research and development capabilities
- Advanced design and testing capabilities
- Over 1,000 engineers and scientists worldwide

Unrivaled Support and Expertise

- Expert technical specialists available as resource
- · Comprehensive pre- and postsale support
- Extensive filter analysis and trouble-shooting
- 100 years of successful global manufacturing























donaldson.com/process

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Contact us



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, specifications, availability and data are subject to change without notice, and may vary by region or country.