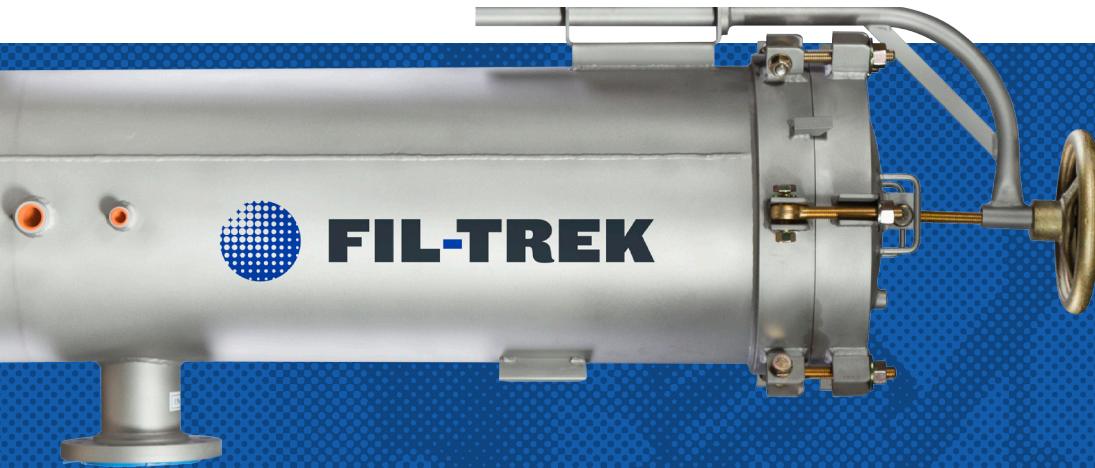




FIL-TREK

PRODUCT CATALOGUE



**HOUSINGS
STRAINERS
TANKS
MEDIA
CUSTOM**





FIL-TREK

ONTARIO

70 Fleming Drive
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COMPANY PROFILE



“We bring next generation filtration to our customers.”

Lou Faustini, President and Founder

About Fil-Trek

Fil-Trek is an industrial filtration manufacturer strategically located in Cambridge, Ontario, Canada. We produce both standard and custom filter housings, strainers, tanks and rentals to the filtration industry in markets including water, desalination, chemicals, food & beverage, oil & gas, power generation, paper and many more.

Designing, manufacturing, servicing and renting both standard and custom built filtration products is what we do best. Fil-Trek thrives on being a filtration manufacturer with the ability to provide our customers with complete solutions by supplying equipment, replacement media and all spare parts. We have the capability to ship all of our equipment worldwide.

Fil-Trek is a privately owned company, established in 1997 and has proven success year after year with steady and continuous growth in staff, sales and most importantly, customers.

All of our equipment is designed and manufactured in Ontario with complete sales support, technical support and engineering staff. Fil-Trek also services Canada's Western provinces with a strong sales force and equipment warehousing in Red Deer and Calgary, Alberta as well as warehousing and sales support in the US and worldwide.



Air & Gas



Desalination



Coolant



Water



Electronics



Coatings



Oil & Gas



Chemical



Pulp & Paper



Power



Marine



Equipment

ENGINEERING CAPABILITIES

Fil-Trek offers a wide range of professional engineering services for developing industrial filtration systems and products. Our experienced team of mechanical designers and draftspersons use the most current computer-aided design tools including industry leading Solidworks 3D parametric modelling software incorporating design for manufacture and assembly principles for all of our equipment and products.



EXPERIENCED MECHANICAL DESIGNERS

- Advanced 3D modelling and virtual prototyping capabilities
- High-Def/HD image rendering and animation capabilities
- Showing a video is an extremely powerful way to communicate across languages and between technical and non-technical people
- Finite element analysis (FEA) programming/design capabilities

CUSTOMIZATION

- Capacity and pressure rating
- Mechanical and electropolished surface finishing
- Stationary or portable design
- Cone, sloped or dished bottoms
- Fixed or removable tops
- Port types, sizes and locations
- Skid assembly
- Accessories such as gauges, valves lights, agitators, sightglasses, handholes, etc

SERVICES

- Consultation and evaluation
- Process recommendations and equipment selection
- Preliminary drawings and specifications provided for review and approval by customer
- Equipment modification drawings and specifications detailing your application requirements
- Equipment layout drawings.
- Tie-in specifications for existing equipment and/or utilities
- Assurance of compliance to industry guidelines
- Test procedures and documentation for validation

FIL-TREK CERTIFICATIONS

- | | |
|-----------------------------|--------------------------------------|
| ▪ ASME Section VIII, div 1. | ▪ TSSA |
| ▪ U Stamp | ▪ Canadian Registration Number (CRN) |
| ▪ UM Stamp | ▪ CE |
| ▪ NB | ▪ NSF/ANSI 61 |
| ▪ R Stamp | |

MANUFACTURING CAPABILITIES

Fil-Trek takes pride in being a single source filtration company. With in-house mechanical engineers, over 68,000 square feet of manufacturing space and multiple buildings across North America for our stock equipment. Our product lines of replacement media complete our filter housings while offering competitive pricing and minimizing your company's need to source multiple companies for a single job.

INDUSTRIES SERVED

- Water
- Desalination
- Chemicals
- Electronics
- Food & Beverage
- Inks/Paints/Coatings
- Power Generation
- Coolants
- Pulp & Paper
- Sour Service
- Frac Water
- Brackish Water
- Desanders
- RO Pre-filtration

MANUFACTURING/DESIGN OPTIONS

HOUSING MATERIALS

- Carbon steel
- SS304/SS316
- FRP
- AL6XN
- 2507
- 2205
- LDX2101
- Monel 400
- Hastelloy C276
- Zeron 100

SEALS

- Buna-N
- EPDM
- Viton
- Silicone
- Teflon
- Teflon Encap. Viton

COATINGS

- 3M Scotchkote
- Rubber lining
- Ceramic
- Epoxy
- Teflon
- Other coatings available

COVER CLOSURE & LIFTING MECHANISMS

- Syrpis® Quick Open Closure
- T-Bolt
- Swing Eye Bolts
- Hex-Nuts
- Stud-Bolts
- V-Band
- Spring
- Counterbalanced
- Hydraulic Davit
- Hand Wheel Davit

SURFACE FINISHING

- Sand Blasted
- Painted
- Electro-Polished
- Acid-Pickled
- Coated

CONNECTIONS

- Standard Flanges and Threads (DIN, NPT, ANSI, BSP)
- Sanitary (Tri-Clamp, Milk Pipe, IDF, RJT)

CUSTOM DESIGN

- Skid assembly
- Custom piping
- High pressure up to 5,000 PSI, design capabilities up to 10,000 PSI

SKID AND PIPING ASSEMBLY

Fil-Trek can turn any standard or custom design vessel into a complete skid package or build and assemble piping for specific job requirements

STANDARD CARTRIDGE FILTER HOUSINGS

Cartridge filter housings offer an endless spectrum of design options suitable for almost any type of filtration application. With cartridge filter lengths ranging between 10" and 40" and a wide variety of filter media options, including economical depth filters, absolute rated membrane filters and cleanable stainless steel filters. Most of our cartridge filter housings are available in both vertical and horizontal configurations with ASME stamp.

DETAILS

- Multi-purpose, ASME U and UM code and non code
- Accepts multiple 10", 20", 30" and 40" cartridges
- 150 PSIG (10.3 bar) @ 250°F (121.1°C) design pressure (standard)
- Available in variety of materials including carbon steel, SS304, SS316 and more
- Accepts industry standard 2.5" and 2.75" DOE or SOE cartridges
- Swing bolt closures allow for quick element change out
- Available in duplex and skid systems
- Horizontal configuration also available
- High pressure capabilities
- Housing models include:
GL, GLH, MP, MPH, L, LH, FRP, FRPH, HT, MSO and EAQ Series

Custom sizes, configurations, materials and other options may be available. Contact Fil-Trek for more information via e-mail at info@fil-trek.com or visit Fil-Trek.com.





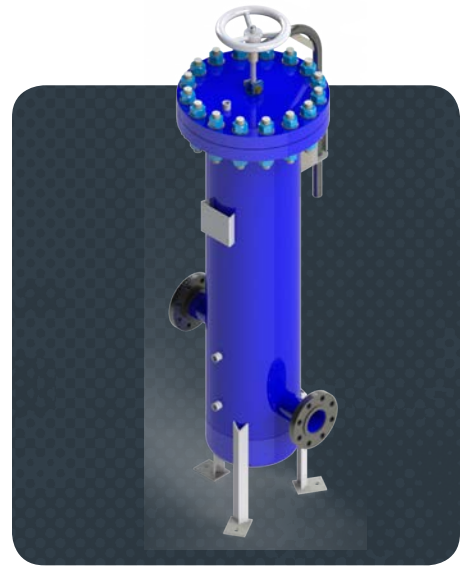
GL/GLH Series

- Broad range of applications
- NSF/ANSI 61 certified
- Vertical and horizontal configurations
- Flow rates up to 3,600 GPM



MP/MPH Series

- Membrane protection
- NSF/ANSI 61 certified
- Vertical and horizontal configurations
- Flow rates up to 4,900 GPM



HT Series

- Designed for high temperature
- ASME blind flange closure
- Flow rates up to 450 GPM
- Custom designs available



CORROSION RESISTANT HOUSINGS

Coating Benefits

- Cost effective
- Long-term durability
- Long-term corrosion protection
- On-site repair kits available
- Broad chemical resistance
- Mechanical shock resistant
- Cures at room temperature

Available Models and Materials

FRP SERIES

- FRP material

L SERIES

- Rubber lined
- Epoxy
- Teflon
- Skotchkote
- Other

SP SERIES

- Ceramic coated

LARGE DIAMETER & HIGH FLOW FILTER HOUSINGS

High capacity filter housings offer reliable, efficient filtration results when flow rates as well as differential pressures are high.

These housings are becoming more popular due to the extended time between filter change outs, the decreased time to change out filters, the decreased replacement filter costs as well as maximizing filtration efforts with a much smaller housing profile when installation space is hard to come by.

DETAILS

- Multi-purpose, ASME U and UM code and non code
- Accepts multiple 20", 40" and 60" Ultra Flow, High Flow and 700 Series filters(40" for 700 only).
- 150 PSIG (10.3 bar) @ 250°F (121.1°C) design pressure (standard)
- Available in variety of materials including carbon steel, SS304, SS316 and more
- Swing bolt closures allow for quick element change out
- Available in duplex and skid systems
- Horizontal configuration also available
- High pressure capabilities
- Housing models include:
UF, UFH, HF, HFH, 700V and 700H Series

Custom sizes, configurations, materials and other options may be available. Contact Fil-Trek for more information via e-mail at info@fil-trek.com or visit Fil-Trek.com.



UFV Series



UF/UFH Series

- NSF/ANSI 61 certified
- Vertical and horizontal configurations
- Flow rates up to 6,475 GPM



HF/HFH Series

- Vertical and horizontal configurations
- Flow rates up to 6,475 GPM
- Comparable to CUNO/3M High Flow systems



700V/700H Series

- Vertical and horizontal configurations
- Flow rates up to ___ GPM
- Comparable to 3M 740 filter systems

DUPLEX & SKID OPTIONS

Skid & Piping Assembly

Fil-Trek can turn any standard or custom design vessel into a complete skid package or build and assemble piping for specific job requirements



Customization to suit your application

- Capacity and pressure rating
- Mechanical and electropolished surface finishing
- Stationary or portable design
- Cone, sloped or dished bottoms
- Fixed or removable tops
- Port types, sizes and locations
- Skid assembly
- Accessories such as gauges, valves lights, agitators, sightglasses, handholes, etc

BAG FILTER HOUSINGS

Bag filter housings offer a diverse range of filtration solutions but are ideal for more industrial applications such as dirt removal or large particulate removal about 1 micron.

From single round to multi-round, we can manufacture bag filter housings to meet your specific needs.

SUITABLE USES



Air & Gas



Chemical



Water



Marine



Oil & Gas



Coolant



Power



Coatings



Desalination



Pulp & Paper



Electronics



Equipment

DETAILS

- Multi-purpose ASME "U" & "UM" code and non-code design housings
- Accepts multiple single length (P1) or double length (P2) bag filters
- Swing-bolt closure allows for quick element change out
- Available in duplex and skid systems
- Housing models include: **SL, ESL, TL, HSL, LP, ELP, BMB Series**

Custom sizes, configurations, materials and other options may be available. Contact Fil-Trek for more information via e-mail at info@fil-trek.com or visit Fil-Trek.com.





SL Series

- Accepts 1 bag filter (P1 or P2)
- ASME Code, non code also available
- Flow rates up to 240 GPM



LP Series

- Accepts multiple bag filters
- NSF/ANSI 61 certified
- ASME Code, non code also available
- Flow rates up to 5,000 GPM



BMB Series

- Bottom in/bottom out configuration
- Accepts multiple bag filters
- ASME Code, non code also available
- Flow rates up to 5,000 GPM

SOUR SERVICE APPLICATIONS

Fil-Trek can modify almost all of our bag and cartridge housings to accomodate sour service applications.

Sour service typically means that the filtered fluid contains H2S and requires vessels and components to be compatible with aggressive corrosive properties

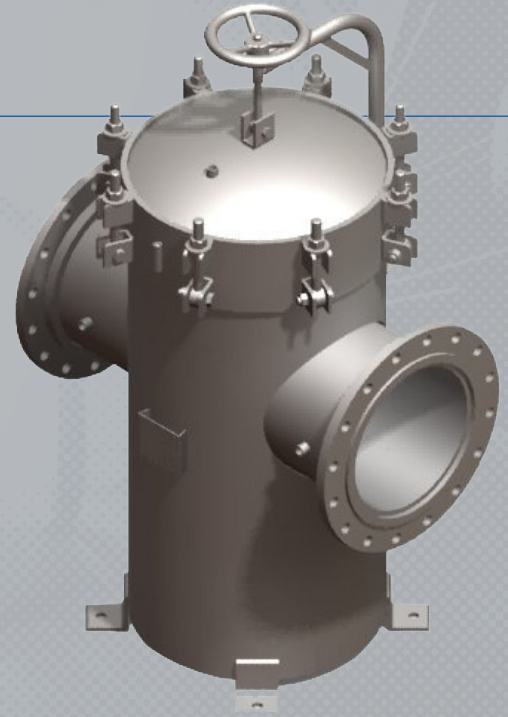
DESIGN CHANGES INCLUDE:

Corrosion Allowance	1/8" for CS, incl. PWHT 1/16" for 304SS and 316SS
Post Weld Heat Treatment	Standard for CS N/A for 304SS/316SS
Weld Standard	All seams butt welded Welded legs
NDE/NDT	X-Ray (RT-4 standard) <i>Optional:</i> LPI, UT <i>Contact for other NDT options</i>

FABRICATED STRAINERS

Strainers are an excellent solution for projects where the liquids being processed require regular cleaning maintenance. Strainers are an ideal solution to protecting valuable pumps or second-stage filtration systems from large debris such as dirt, oil and other impurities that could compromise the integrity of equipment.

Manufactured to ASME Section VIII Div 1, U and UM code requirements. All of our strainers are available in a variety of standard and exotic metals and designed to meet flange requirements of up to 2500 lbs.



BASKET OPTIONS

We can manufacture replacement and custom basket designs for basket strainers, T strainers, Y strainers, duplex strainers and more.

We can customize our basket design to meet a variety of nonstandard requirements.



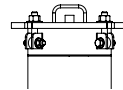
Multi-Basket Design



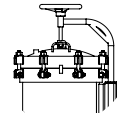
Single Basket Design

CLOSURE AND QUICK OPENING COVER OPTIONS

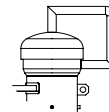
Fil-Trek designs and fabricates a variety of closure and quick opening cover options to accommodate strict applications and requirements. All materials of construction are in accordance with ASME specifications.



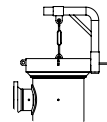
Hinged Cover



Mechanical Davit Assembly



Threaded Hinged Cover



Yoke



90/91/92 Series | Basket Strainers

- NSF/ANSI 61 certified.
- Flanged or butt weld.
- Available in ratings up to ASME 2500.



93 Series | Duplex Strainers

- NSF/ANSI 61 certified.
- Flanged or butt weld.
- Four duplexing options.



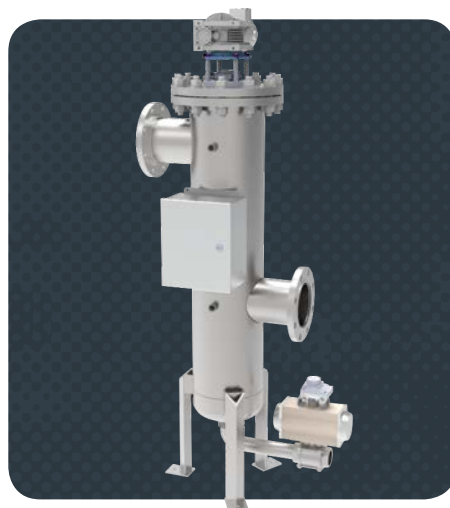
94/95 Series | Y Strainers

- NSF/ANSI 61 certified.
- Pipe or elbow design.
- Sizes up to 36".



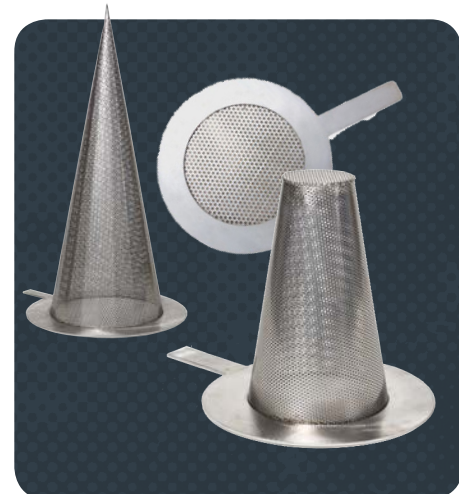
96 Series | T Strainers

- NSF/ANSI 61 certified.
- Flanged or butt weld.
- Available in ratings up to ASME 2500.



98 Series | Automatic Strainers

- Ideal for continuous removal of debris.
- Flow rates up to 36,000 GPM.
- Available in ratings up to ASME 300.



Temporary Strainers

- Available in cone, basket, or plate designs.
- Excellent for pipeline start-up or minimal solid loading.
- Sizes from 3/4" to 36".

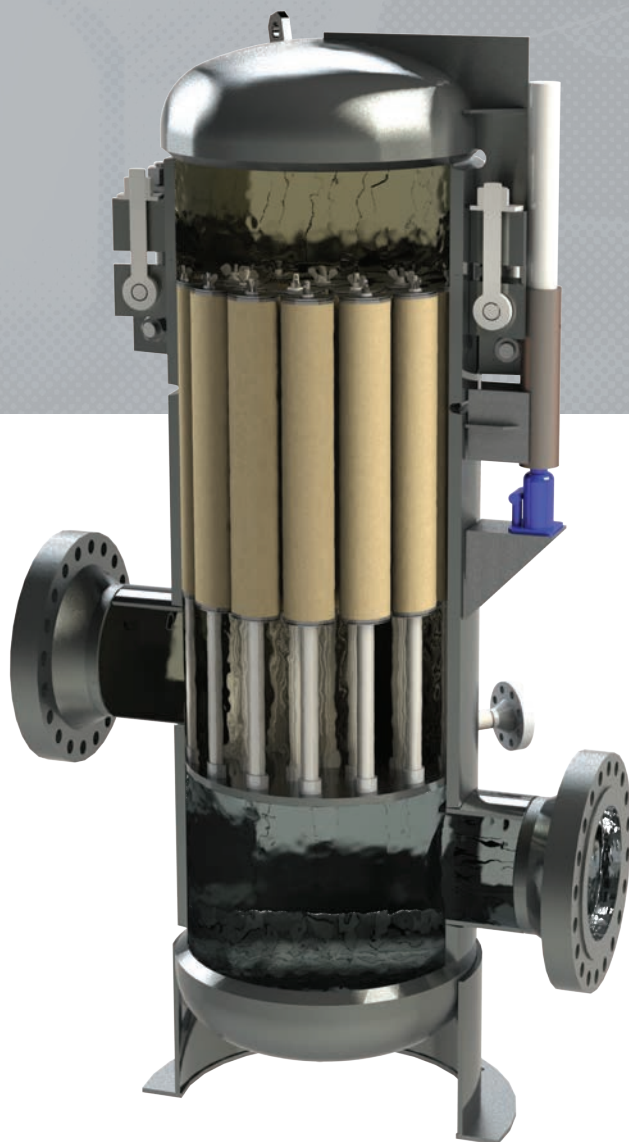
GAS FILTRATION

Fil-Trek has a wide line of gas filtration equipment including gas coalescers, dry gas filters, gas filter-separators, gas scrubbers, fuel/water separators and liquid filters.

We can build to retrofit almost all competitor housings and elements.

DESIGN OPTIONS

- Inlet/outlet connection size can be changed
- Vessel design temperature up to 650°F available
- Design pressure up to 10,000 PSIG
- Any size or material
- Designed for sour service applications
- Closure options include swing bolt (standard), Sypris Technologies quick-open closures, yoke type quick-open closures, screwed closures or blind flange closures, depending on design specifications and preferences.
- Filter element supports available in SS304, SS316 and other materials



OUR EQUIPMENT CAN BE USED FOR THE FOLLOWING INDUSTRIES;

- | | | | |
|-------------------------------------|--------------------|--------------------------|---------------------------|
| ■ Offshore Exploration & Production | ■ Gas Processing | ■ Power Generation | ■ Fractionation |
| ■ Water Disposal | ■ Gas Transmission | ■ City Gates | ■ Refining |
| ■ Gas Gathering | ■ Gas Storage | ■ Vehicle CNG | ■ Petrochemical and more. |
| | ■ LNG Liquefaction | ■ NGL Pipeline & Storage | |

FEATURED GAS HOUSINGS



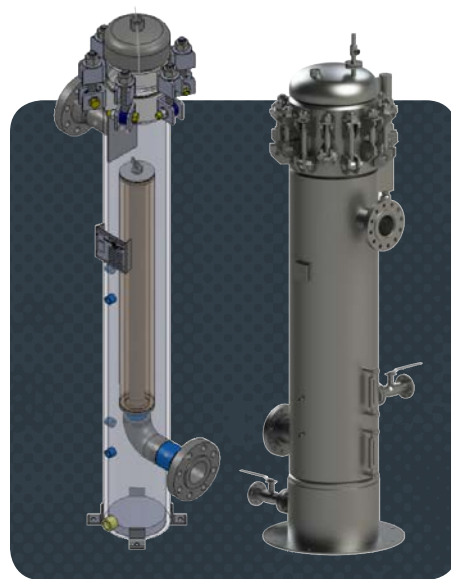
70V/70H Series

- Dry gas housing
- Gas/Solid
- Single stage design
- Ideal for the removal of solid contaminants such as dirt, rust and pipe scale from natural gas streams



75V/75H Series

- Gas filter separator
- Gas/Solid
- 2 stage design
- Ideal for the removal of both liquid and solid pipeline contaminants



77V Series

- Gas coalescer
- Gas/Liquid
- Single stage design
- Reverse flow
- Ideal for removal of aerosol mists and solid contaminants and from gas streams 0.3 micron and larger

Knock Out Drums

Knock out drums are used to slow down gasses and allow liquids to fall out of the gas stream. Available in both horizontal and vertical configurations.

Gas Vane Separators and Scrubbers

High efficiency reliable free liquid and aerosol mist removal. Units are available with or without slug catching ability, in vertical and horizontal configurations.

Gas Separators & Scrubbers

Designed to remove traces of liquid droplets from gas streams to protect downstream equipment from damage and failure.

Typically used upstream of gas treating equipment that contains dry desiccants or mechanical equipment such as compressors. It is also used downstream of equipment where liquids have condensed from the gas.

Liquid/Liquid Coalescer Separators

Designed to coalesce immiscible non-continuous phase liquids from continuous phase liquids.

CARTRIDGE FILTERS

Cartridge filters offer a diverse selection of media, filter construction and materials that can meet stringent removal requirements as low as 0.01 micron. Depth, pleated and string wound filters give you reliable surface removal and can help extend change out periods due to the larger amount of available surface media.

- Broad range of micron ratings and media types
- DOE or SOE end configurations
- FDA and NSF 61 certified filters available

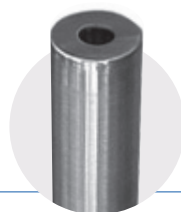
AG Pleated Filter

Pleated Filters



- Nominal and absolute rated media available
- Micron ratings ranging from 0.2 to 70
- Available in a variety of end cap configurations
- Wide selection of media available
- Suitable for a variety of processes including desalination, process water, chemicals, oil and gas

Stainless Steel Filters



- Stainless steel can be cleaned and reused keeping disposal costs low
- Available in absolute and nominally rated media
- Stainless steel is capable of meeting high temperature applications
- Excellent corrosion resistance
- Effective nominal removal with micron rating available between 3 and 1000

Depth Filters



- Melt blown/spun wound
- String wound
- Resin bonded
- Nominal and absolute rated media available
- Micron ratings ranging from 0.5 to 150
- Available in a variety of end cap configurations

Carbon Filters



- Carbon filters are ideal in removing unwanted odours, colours and tastes
- Nominally rated at 90% and available in 3 and 5 micron
- Available in a variety of end cap configurations



BAG FILTERS

Fil-Trek offers a multitude of filter bags that are compatible with all of our cartridge filter housings. All of our filters are available in a variety of different media, micron ratings, lengths and flange/collar options.

Single Layer Bags

- Nominally rated
- Micron ratings ranging from 1 to 200
- Designed to fit most industry standard housings and available with multiple flange/collar options
- Wide selection of media available



Multi-Layer Bags

- High efficiency bags with a dirt holding capacity of 10-20 times the amount of a single layer bag
- Micron ratings ranging from 1 to 32
- Available in polypropylene and polyester
- Suitable for various applications including process water and oil



Pleated Bags

- Nominal and absolute rated bags available
- Pleated bags contain higher surface area than single and multi-layer bags allowing for extended lifespan and minimizing disposal costs
- Available in micron ratings between 1 and 100
- Available in multiple media options including polypropylene, polyester, micro glass and nylon
- Inside to outside flow pattern helps trap unwanted particulate



ULTRA FLOW & HIGH FLOW FILTERS

Ultra flow cartridge filters offer superior, absolute filtration for high flow rate and high differential pressure applications. With an outside diameter of 6"-6.5" and a variety of lengths available, these filters help maximize the time between change outs and minimize maintenance and disposal costs.

Ultra Flow Series

- Absolute rated at 99.98%
- Inside to outside flow path
- Available in polypropylene, polyester, microglass and cellulose media
- 6" outside diameter
- Available in 20", 40" and 60" lengths
- NSF 61 certified polypropylene available



High Flow Series

- Absolute rated at 99.98%
- Outside to inside flow path
- Available in polypropylene, polyester, microglass and cellulose media
- 6.5" outside diameter
- Available in 20", 40" and 60" lengths



700 Series

- Absolute rated at 99.98%
- Outside to inside flow path
- Available in polypropylene, polyester and microglass media
- 6.5" outside diameter
- Available in 40" lengths
- Comparable to 3M 740 series filters



GAS FILTERS

Gas coalescing cartridges deliver high removal efficiencies for liquid and solid aerosols in air and gas applications. Used in a variety of applications including protecting compressors, turbines, heat exchangers, measuring equipment and mechanical seals.

Gas Filter Elements

Effective in recovering entrained solvents and hydrocarbon liquids. Both end caps and centre cores are constructed of either plated carbon steel or stainless steel and standard end cap gaskets are made of Buna-N which make the core and caps resistant to all hydrocarbons.

- Special media and pre-filtration options available
- Spiral formed, plated steel cores are standard to prevent cartridge collapse at high differential pressures
- Elements come standard with Buna-N gaskets with other options available

Gas Coalescers

- Used in gas/liquid applications
- Absolute rated at 99.98%
- Micorglass media available in a variety of lengths, diameters and end configurations



Gas Filter Separators

- Used in gas/liquid applications
- Absolute rated at 99.98%
- Micorglass, polyester and nylon media available in a variety of lengths, diameters and end configurations



SPARE PARTS

All filtration equipment will require the replacement of a variety of internal parts as time passes due to general wear and tear. The most common items include:

Bag Filter Housings

- O-rings
- Baskets
- Basket o-rings
- Bag filters
- Closure swing bolt assemblies
- V-band closures



Accessories

During the life of your equipment, additional items may be required to help improve the end filtration result including:

- Bag retainers
- Pressure gauges
- Omega springs
- Bag magnets
- Valves
- Air eliminators



RENTALS

Fil-Trek's rental program helps your company get the most accurate filtration results for projects that only require short term use. Rental housings eliminate permanent equipment on site when it is not necessary and is picked up by us when the job is complete. All rental housings are open to customization to help meet the specific requirements of your project.

Fil-Trek uses single and duplex units on skids as part of our standard mobile fleet. These housings are designed to remove solids and promote water recycling by eliminating the need to haul fresh water to the site. With trailer mounts that are included on each rental, regular transport to various job sites have become hassle-free and convenient. All mobile units are built to withstand the most demanding environments and can be customized to meet specific flow rate requirements and valve configurations.

The Benefits of a Rental

- Decreased operation costs due to the reduction of hauling fresh water to job sites
- Filtration is continuous with no interruption because pods can be isolated for easy filter change-out
- Conveniently located bypass valves, gauges and catwalks for easy filter change-out and monitoring
- Flow rates up to 3,000 GPM
- Filter vessels may be customized in size to fit any application requirements
- Mechanical parts are oil field durable and replacement of parts will not be needed
- Fil-Treks' expert servicing team can provide installation, maintenance and tear down at minimal cost



Standard Rental Packages Include

- Bag filter housings
- Cartridge filter housings
- Strainers
- Tanks
- Sand filters
- Large scale, multi-housing skid systems
- Duplex filter housings



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[Visit Fil-Trek.com](http://Fil-Trek.com)

