Liquid Filters | Food & Beverage/High Purity Water/Drinking water

PRODUCTS-Applications

Liquid Filters

Food & Beverage / High Purity Water and Drinking Water

Complete line of absolute rated membrane filter elements for your most demanding applications; we can also custom manufacture for your systems and applications up to 40 inches in length.

CLS helps you meet today’s regulatory requirements and provide fresh drinking water to satisfy growing population needs and water shortages. CLS’s filter cartridges and housings are designed to ensure your process will continue to provide fresh drinking water by eliminating sediment and other impurities. CLS continues to develop new and innovative products to meet the challenges in cost effective filtration.

RELATED PRODUCTS

Nylon 6,6 Membrane Cartridges
Polyethersulfone Membrane Cartridges
PTFE Membrane Cartridges
Melt Blown Cartridges
String Wound Cartridges
High Efficiency Pleated Cartridge
Carbon Cartridges
Liquid Filter Bags
POEL Extended Life Bag
625 HF Series High Flow Cartridges
Liquid Filters | Industrial Manufacturing / Micro Electronics / Solvents

Industrial Environments required specialized filtration that will withstand heavy application use. CLS has the product line to filter from .02 - 1000 microns. Housings and filter cartridges are suited to your environment. Whether you are filtering natural gas to remove impurities or eliminating metal shaving in a metal fabrication shop.
**Liquid Filters** | **Oil and Gas / Power Generation (liquid)**

**MicroGlass - Cellulose Blend or Resin Impregnated Cellulose Filter cartridges**

Elements offer economical, high quality Beta rated filtration for applications where “absolute” filters are required. Elements are available in cellulose, glass-cellulose and microglass media with a variety of end configurations and sizes. The pleated design ensures high contaminant retention due to the large surface area. Elements are available in ratings from 2 to 30 microns.

The N Series elements is an economical solution when absolute rated filtration is not required and are constructed with the same high quality material used in the B series. Elements are used for the removal of contaminant from a wide range of products as either prefilters or final filters. These cartridges are manufactured in a wide variety of configurations for replacing current industry cartridges. This pleated element is a superior alternative to conventional string would, resin bonded and meltblown cartridges. These elements are available in 10, 20, 30, 36 and 40” lengths.

**Liquid Filters** | **Synthetic Media Cartridges**

Designed for filtration of water, water based fluids, and a wide range of chemicals. These filter cartridges stand up to continuous use in water based fluids without the softening and/or deterioration common with many resin impregnated paper cartridges. These elements are made with an advanced synthetic polyester media, which allows high flow rates with low pressure drops as well as excellent temperature resistance.

SL elements are available in removal ratings from 5 to 40 microns. SLH elements have wire mesh support for pleat strength are available in micron ranges of 1/2 to 40. Sizes are available to replace many existing paper cartridges.
Liquid Filters | Hydraulic and Lubrication Oil filters

- Engines
- Machinery
- Marine

Hydraulic filter element applications are demanding and require filtration products that can withstand difficult conditions in industrial and mobile applications. Harsh conditions can often apply to hydraulic filter applications (like mining or military applications). Hydraulic power systems require assorted components like pumps, valves and cylinders to name a few. Keeping your system contamination-free with a quality hydraulic filter element can prolong the life of system components.

Stainless steel filter element products and metal felt filter element products for fluid power use. Either style can be cleaned to lengthen filter element life and reduce disposal costs.

Free and dissolved water in hydraulic systems can be removed using Sorbent Water Removal Filter Elements. These products are pleated with a special water absorber layer.

Our hydraulic filter elements are ideal replacements for many OEM elements and are designed to be functionally and dimensionally interchangeable.
Coalescer cartridges are offered in a variety of cartridge configurations to replace current industry cartridges. They are available with double open ends and flat gaskets, open ends with O-Ring seals, and thread base construction. Cartridges are available in a number of different diameters and lengths. All coalescers are single piece construction, resulting in increased strength and reducing the chance of bypass. We use a combination of one or more layers of pleated media and various layers of fiberglass. The pleated media removes the bulk of solids. Coalescing performance is determined by the type and number of layers of fiberglass.

Available in four different series of efficiency. These ratings are nominal and should be used for reference only:

<table>
<thead>
<tr>
<th>Series</th>
<th>Rated at</th>
<th>Normally used for</th>
<th>Removes water down to</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 series</td>
<td>25 micron</td>
<td>fuels such as diesel or heating oils.</td>
<td>25 ppm</td>
</tr>
<tr>
<td>5 series</td>
<td>5 micron</td>
<td>place of the 25 series when more efficiency is or tighter filtration is desired.</td>
<td>10 ppm</td>
</tr>
<tr>
<td>2 series</td>
<td>2 micron</td>
<td>lighter hydrocarbons such as kerosene, gasoline, or naphtha.</td>
<td>less than 5 ppm</td>
</tr>
<tr>
<td>1 series</td>
<td>1/2 to 1 micron</td>
<td>is designed for maximum coalescing and particulate removal efficiency</td>
<td>less than 5 ppm</td>
</tr>
</tbody>
</table>
Separator cartridge are available in two different designs – silicon treated pleated cellulose and a PTFE coated stainless steel screen. The silicon treated resin impregnated cellulose media is designed to repel small coalesced water droplets that do not settle by gravity and pass through the separator. This pleated media provides effective 5 micron particulate filtration. The PTFE coated screen separators are manufactured with 200 mesh stainless steel coated on both sides with PTFE. This media is hydrophobic allowing the hydrocarbon fluid to pass through while repelling the water droplets.

Center cores are perforated, plated steel. End caps are tin plated steel or glass reinforced nylon. Standard gaskets are Buna-N. Other gasket material are available upon request.
CLS cartridges and media are specifically designed for manufacturing and separation of paints and inks in your environment. We know the removal of impurities from your products is essential to your success. This is why we work closely with you to ensure your filtration needs are met. CLS’s filters have been designed to prevent unwanted large particulate formation in your products. CLS understands your need to provide consistency within your product line. Clean Liquid Systems can provide you the filtration products and support to ensure your operation flows smoothly.
**Liquid Filters** | **Housings and Strainers**

Sanitary (Food, Beverage and Laboratory)

Single and multi-round housings are constructed of 316L stainless steel designed with standards for filtration applications requiring high purity production. Design characteristics minimize hold up volumes, provide for easy draining and cleanability. External surfaces mechanically polished and internal surface is acid washed for a consistent, easy care finish. Available to accommodate multiple configurations and up to 36 individual cartridges.

Additional styles of Multi-round housings are constructed of durable stainless steel and meet general purpose industrial and commercial filtration needs. All wetted welded surfaces are 316 stainless steel.

Accepts 10", 20", 30" and 40" cartridges with DOE, 222 and 226 configuration options.

High Flow Series Accepts large filter elements. Available in vertical or horizontal orientations, the High Flow housings can accept from 1 to 7 filter elements.
Liquid Filters | Industrial (Cartridge, Bag and Strainer Basket)

Filter housings come in many sizes and styles, and all serve as a bag filter housing, filter strainer, cartridge filter or basket strainer. The filter housing covers are easily removed without special tools, and the element is easily cleaned or replaced. Please contact us to learn more about our filter housing products.
Shown Below are common Strainer baskets

Strainer baskets may be lined with finer mesh screen or used with a disposable bag. The bags are available in many grades of felt materials with numerous types of felt media. We can offer assistance to help determine what may be best for your application.
Natural GAS

Fiberglass coalescer cartridges have been designed for contaminant removal, fine filtration and the effective coalescing of aerosols that can be present in a gas stream, prior to compression, gas dehydration or other critical processes, providing dual process filtration within one product configuration.

The large surface area on the outside of the element, allows for the efficient collection of contaminants. The cartridge is ruggedly constructed with a tinplated steel core to prevent collapse. The center core is wrapped with a synthetic media to prevent media migration. The fiberglass tubes are single piece construction eliminating any chance of bypass. A woven sock functions as a core cover.

These products come in a wide variety of lengths, diameters, and micron ratings. We can retrofit a number of manufacturers. The standard direction of flow is outside to inside. However, a reverse flow series is also available. Standard outside diameters are 3.5", 4.5", and 5.5". Standard lengths are 12", 24", 36", and 72". Nominal ratings available are 10, 5, and 1 micron. A special 0.3 micron rated product is available.
Liquid & Vapor Phase Activated Carbon Media

(Deep Bed Scrubbers and Vessels) / Positive Pressurization Unit (PPU)

Bulk Activated carbon media (Available in bags, boxes, drums or super sacks)
- Toxic Fumes / VOC Removal / H₂S Removal
- Lift and pump stations / Holding tanks / Taste and Odor Control / Chloramine Removal
- Portable water treatment / Ground water remediation
- Soil Vapor Extraction / Industrial process treatment / Spill cleanup

Clean Liquid Systems offers the highest quality products for superior performance and efficiency for water treatment. We specialize in products that remove and reduce chemicals, pesticides, chloramines, unwanted contaminants, toxins, PFOA & PFOS contaminants, unwanted colors, odors, and tastes.


Air Filtration for Commercial & Industrial Applications

Our vapor phase carbon media is used as a typical treatment to remove contaminants and pollutants from the air by adsorption. Depending on your application, a coal or coconut shell base material paired with an impregnate of a specific type and concentration will be available. This activated carbon possesses a high mechanical strength and has a great distribution of macro and micro pores that accommodate a variety of molecular sizes and offers a low flow resistance.
Activated carbon media can be used for the remediation of vapors generated, the removal of VOCs from the air, soil venting and removal of other organics such as ammonia, sulfur compounds, mercury, and amines.

We will help you determine which media is right for your vapor treatment application, bulk orders available
Large Chem Scrub Units

Hold up to 20,000 pounds of activated carbon. May be run in duplex style side by side OR run as daisy chain style to run multiple units at one time.

Applications:
These can be used for cleaning of fracking water or removal of H2S from Liquid Natural gas. They can be piped as duplex vessels or in series for deep scrubbing of chemicals. Designed to treat liquid in a variety of adsorption applications. Modular design enables them to fit in most installation areas.
There are many options for our RL Series scrubbers, contact our sales team to assist you.
Kitchen Pollution Control Units

Pollution Control Units (PCU)
Control Rooms/ Restaurant Odor Control / Grow Rooms / Refineries / Casinos

Exhaust or Recirculation Units ensures your computer equipment operates within a corrosive free environment, and within the guidelines of major computer and instrument manufacturers' warranties. Equipment Advantages: 1. Self-Contained Exhaust or Recirculation System - Provides particulate and gaseous filtration, removing contaminants generated by in-room sources and those brought in from outside. 2. Target Specific Gases - Multiple banks of media allows system to be configured to handle the contaminant gases present in your environment. 3. System Design Flexibility - Design flexibility to meet your specific needs. 4. Local Service - Trained representatives are supported by laboratory services including environmental corrosion classification and media life analysis testing.

Two Pass Pollution Control Unit complete with fan shown below. This is available with or without fan and may be customized to be an exhaust only or inline unit.

![Image of Pollution Control Unit](image.png)

Various media types available. Blended Carbon or Potassium Permanganate coated alumina beads.
Pollution Control Units /Deep Bed Scrubbers

Sewage/ Waste water Treatment facilities

- Toxic Fumes /VOC Removal/H2S Removal
- Lift and pump stations / Holding tanks /Taste and Odor Control
- Industrial process treatment
- Spill cleanup

Deep Bed Scrubber shown below are typically used for positive pressure on control rooms. These units can have 6” to 18” thick beds and multiple series of stages of filter media. Often these units will have different media in the different sections to adsorb a range of gases. Deep Bed Scrubber (DBS) are designed for areas where there are high contaminant Gas levels and provide more effective protection against environmentally induced corrosions in control and switch gear rooms equipped with electronic process control systems, refineries, steel mills, smelters, chemical plants, petrochemical plants and other hostile environments.
Equipment Advantages:

1. Media Selection: Custom selection of up to 36 inches of different chemisorbant media, depending on the corrosive gases present in the environment.

2. Economical: Design allows for higher airflow rates and higher efficiencies at lower CFM costs.

3. System Compatibility: Designed to sit outside the space to be placed under positive or negative pressure. The Deep Bed Scrubber delivers clean pressurization air to recirculation systems, side access systems, or HVAC equipment.

4. Local Service: Our global network of experienced representatives provide a comprehensive service program to support each system in the field.
Air Vapor Phase Activated Carbon
Disposable Bonded Carbon Blocks in Panels, V-cells or Cylindrical

Carbon Block Technology in V-cell Frame
**Pleated Activated Carbon V-cells| with MERV 13 or MERV 15 efficiencies (low pressure drop)**

HEAVY DUTY Industrial grade Carbon V model filters are made up of activated carbon media, close pleated and bonded in a rigid V shaped construction with. These filters operate with no carbon shedding, with very low pressure drop and are incinerable. A combination of synthetic media and activated carbon ensure higher degree of filtration efficiency. Filters are designed for odor removal in air conditioning and industrial process applications. A header frame design allows easy installation in holding frames and housings. These filters are ideal for application in commercial buildings, airports, hospitals, hotels, restaurants etc.

Features 100% synthetic filter media made with activated carbon closely pleated and arranged in a V configuration which accommodates a very large quantity of filter media. The Mini-Pleated media packs are arranged in a perfect V design and sealed to the enclosing frame made up of (ABS). Each filter has a very large media area providing low initial pressure drop. These models are high capacity to handle large airflows, easy to install and dispose, suitable for gas adsorption and chemisorption, particulate filtration along with odor removal etc. Cleancarb V is made up of a dual layer media of carbon and synthetic to provide an efficiency of MERV13 and MERV 15 grade as per ASHRAE 52.2.

All filters are available in with 20mm or 25mm header thickness

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**Disposable V-cells with honeycomb “Style VH”** is a new generation carbon filter that meets the demand of odor removal in applications where the concentrations of odor are high. Carbon filters available these days are heavy and hence require more effort in handling. Carb VH is designed in a low weight construction and the weight of carbon dominates in its total weight. A variety of carbon or carbon blend selections are offered depending on the application.

Available in depth of 12”, 16” and 17” depth
Disposable Pleated carbon filters are pleated panels which offers extended surface filtration combined with odor control, designed to suit a wide variety of HVAC applications including Hospitals, Pharmaceutical companies, Food processing units, Restaurants, Airports, Commercial Buildings etc. The filters are available in MERV6 to MERV 13 efficiency with frame depth from 25 mm, 45mm and 95mm depths. These filters are recommended as direct replacements to existing pleated air filters. Filters are easy to install and completely disposable too.

Refillable metal Trays | for use with activated carbon, impregnated carbon or other chemisorbant media.

( Powder coated carbon steel/ Galvanized or Stainless Steel )

Trays are reusable panel filters that provide long life and excellent odor filtration, designed to suit a wide variety of HVAC applications including Hospitals, Pharmaceutical companies, Food processing units, Restaurants, Airports, Commercial Buildings etc. These comes in 20mm, 25mm and 45mm depths. These filters are used as direct replacements to existing air filters and also used in V Bank arrangements on Odor Control Units where handling of higher flow with high residence time is required.
Refillable Activated Carbon V-cells | and modules in metal or plastic

Cells may hold activated carbon in granular or pellets as well as round chemisorbant media.
Hydroponics | Refillable Canisters

Filled with Virgin Activated Carbon
Intake filters available from MERV 12 to MERV15 and Higher efficiencies to HEPA grades H12 or H13. The high efficiency Mini-Pleat compact filters made up of water resistant micro-fine glass fiber media or synthetic media are available in a wide range of efficiencies from MERV 12 to MERV 16 (65% - 95%+). V cells are designed for use in gas turbine installations where highest degree of air cleanliness is required. The compact design, larger surface area and low initial resistance made it an ideal alternative to ordinary bag filters & box type filters of the similar efficiencies. V-Cell compact filter models are also available with very high burst resistance, low pressure drop and high dust holding capacity for extreme operating conditions like gas turbine air intake fine filtration etc. VGT Models are available with plastic grid support optional. The header style is available in 12”, 16” or 17” depths with 20 or 25mm header.

Filters are absolutely metal free and so are incinerable and environmentally friendly. Filters can also be made in reverse flow design.

Hydrophobic Prefilter Panel Filters 2”, 4” and 6” thickness

HYDRO PLEAT filters are a new generation filter that replaces conventional coalescer filters. Hydro pleat filters are offered in G4 and M5 efficiency grades. A new generation hydrophobic synthetic media with a special coating offers 100% removal of water mist from the air combined with a G4/M5 filtration efficiency is an ideal pre-filter for AHUs and gas turbine intake systems operating in high humid environments like offshore installations. Hydro pleat is a 100% coalescer filter which can challenge any competitive brands.
Pro-Clean POLY-PLEAT filters are cleanable / washable panel filters made up of non woven, high lofted synthetic (polyester) filter media and are available in various efficiency grades ranging from G2 to F5. POLY PLEAT filters offer very high dust holding capacity combined with lower resistance than the other types of similar grade panel filters.
Reverse Pulse cartridges and Pleated bags

Pulse Cartridges available from MERV 12 to High Efficiency E12 ratings with Nanofiber. Medias perform day in and day out in some of the toughest turbine environments on earth. From the frigid cold, to scorching heat, and salt laden costal applications we have filters to take care of your application. Superior Nanofiber treated cellulose blends or synthetic bases in efficiencies from F8-E10+. Hydro and oleophobic nanofiber stops fine salt particulate and even low surface tension liquids from penetrating.

Air Inlet Self-Cleaning (pulsed) OR (static) Filtration Systems, one conical and one cylindrical filter are often paired and mounted horizontally to provide turbine protection. The conical and cylindrical pair is typical in many systems.

F9 Synthetic Filter Media
F9 Synthetic Filter Media - Hydrophobic Treated
MERV 16 Cellulose Blended Filter Media
F8 and F9 Cellulose Blended Filter Media
Intake Air applications for Stationary Engines, Gas Turbines, compressors and blowers. Several types of media can be used in the design of the intake air filter for your specific application. Impregnated Cellulose is used when moisture resistance is critical. Low energy media with acrylic resin/cellulose or PVA/Cellulose can be used in protective environments. Spun bonded, self supporting and wire backed polyester, along with microglass media are also available.

- Cartridge filter
- Inlet filters Panel style
- Marine Applications
Engine Intake Housings in Carbon Steel or Stainless Steel

1”NPT up to 60” Flange Connection

Air Filtration | Reverse Pulse Dust Collectors/Bag House

Pulse Cartridges available from MERV 12 to High Efficiency HEPA H12 ratings with Nanofiber

Cartridge, Conical, Flange style, Pleated bag style.
Spunbond polyester, Nano applied media, Membrane media, Safety Final Filters.
Air Filtration | HVAC (Heating, Ventilation and Air Conditioning)

HEPA Filters, 95%DOP, 98%DOP, 99.97%, 99.99%, 99.999% at 0.3 micron

ULPA rated at 0.12 micron

4V filters rated for up to 2000 CFM at 1.2”w.g.

6V Super High Capacity HEPA filters up to 2400 CFM at 1” w.g.

HEPA HV filters are manufactured from continuous length superior quality micro glass fiber paper media available in various efficiencies from H13 - H14. The filter media is moisture resistant and fire retardant. Anti-microbial treated papers are also available for special applications. The uniform and closed pleat filter pack grants a high crossing surface to hold the very fine dusts.

4V operates at very high air velocity up to 2000 CFM if required delivering a very low pressure drop. The V shaped arrangement allows more air flow per filter wherein a standard filter replacement can save energy up to 30%. Filters are light weight and its fully plastic body makes it incinerable as well.
Standard and High Capacity HEPA in metal or wood frames with Aluminum Separators up to 2000CFM

HEPA SC & HC filters are deep pleated aluminum separator filters with efficiencies ranging from 95%DOP to 99.97%, 99.99% and 99.999% at 0.3 micron and EN1822 grades E10 to H14. These filters are available in wood and metal construction. Box type or double turned flanged version available.

High-Temperature applications with Alum separators in deep pleat box style filters. Filters are available from MERV 12, MERV14 and HEPA range. Filters are silicone free and can withstand up to 725°F/385°C

**HEPA Max 500°F**
**V-Cells | Available in Glass and Synthetic media**

ASHRAE 52.2 Efficiencies from MERV 12 to MERV 16 Plus DOP and HEPA rated V-cells
EN779 Rated  M6, F7, F8, F9
EN1822 Rated E10, E11, E12, H13, H14
All plastic frame with 20 or 25mm Headers 12”, 16” or 17” depth
Plastic Blow out grids to withstand up to 25” W.G.
V-Cells are designed to use in HVAC installations where highest degree of air cleanliness is required. The compact design, larger surface area and low initial resistance made it an Ideal alternative to ordinary Bag filters & Box type filters of the similar efficiencies.

**Rigid Cells | Synthetic or Glass Media**

MERV Rated MERV 11 to MERV 15 available in BOX or Header style for Variable Air Volume Systems in 4”, 6” and 12” depths. Medium to high efficiency extended surface deep pleated rigid box filters are manufactured from a new generation range of inherently anti-microbial, high lofted synthetic fiber filter media or micro - fine glass fiber filter media. It is capable of removing contaminants from the air stream and is an ideal fine filter for HVAC systems.
**Pocket Filters | Bag Filters (Synthetic)**

MERV 11, MERV 12, MERV 13, MERV 14, MERV 15 and MERV 16  
EN779 Rated M6, F7, F8, F9

Medium to high efficiency extended surface bag filters are manufactured from a new generation range of inherently anti-microbial high lofted synthetic fiber filter media. S-BAG offers excellent filtration performance combined with high dust holding capacity and suitable for applications where highest degree of air cleanliness is required.

**Pocket Filters | Bag Filters (Microglass)**

MERV 12, MERV 13, MERV 14, MERV 15  
EN779 Rated M5, M6, F7, F8

G-BAG provides extended surface filtration through media formed into individual dust holding pockets. These pockets are created by internal span stitches to maintain uniform airflow channels for even dust loading and long filter life. The perfectly balanced pocket design allows full pocket inflation without crowding or restricting airflow to ensure optimum media utilization and thereby offering long service life. Each pocket is bonded and sealed to its own “J” channel support frame which is fastened to a heavy duty corrosion resistant steel frame with soft edges to avoid damage to the filter media.
SPX-BAG filters are medium to high efficiency extended surface self-supporting Pocket (bag) filters made of super fine synthetic (Polyester) filter media. The progressive density multi-layered fiber arrangement offers excellent filtration performance combined with very high dust holding capacity. SPX bags are ideal for air intake applications in Automotive paint booths, powder coating and other surface treatment plants. This is also used in air conditioning systems in Hospitals, Pharmaceutical plants, food processing plants, electronic manufacturing facilities etc. With a unique aerodynamic design, this is also available for air intake applications like gas turbines, diesel generators.

The rigid pockets are formed by welded construction and aerodynamic design. The pockets are mechanically fastened in an ABS frame. This construction ensures 100% leak proof operation. SPX-BAG Filters are completely metal free and are designed to withstand high burst pressure tested up to 25 inches water gauge. These filters can operate well in 100% humid conditions and in salt-laden environments.
**Mini-Pleat Panel filters**

are the new generation of high efficiency compact filters available in a wide range of efficiencies from MERV12 to MERV 14. These filters are designed for use in HVAC installations where highest degree of air cleanliness is required. The compact design, larger surface area and low initial resistance made it an ideal alternative to ordinary bag filters and box type filters of the similar efficiencies.

These filters are made up of water-resistant micro glass filter media, closely pleated and separated by continuous thermo-plastic bead separators. This design accommodates a very large quantity of media which offers a longer service life and low pressure drop. The Mini-Pleated media packs are encased in a metal or plastic frame that are available with single, double or no header style. Available from 1” to 6” depth.

*Also available in 100% synthetic filter media* made from a modified meltblown process having graded fiber density ensuring coarse fibers upstream and fine fibers downstream is closely pleated adding thermo-plastic bead separators which gives a unique V configuration to the pleats and accommodates a very large quantity of filter media. The low initial pressure drop, longer service life and the compact design made it an ideal design for all types of air conditioning installations. The filters are available in plastic or metal frames. The filter media used is inherently anti-microbial and so it inhibits the growth of microorganisms.
**High Temperature | Mini-Pleats**

MPHT filters are designed for drying plants operating at high temperatures. This filter operates at 725°F /385°C, with lower pressure drop and longer service life. They replace the conventional deep pleat style filters in similar range. Maximum recommended pressure drop is 1.4” w.g. Available in 1.6”, 2.17” and 3.08” depths and efficiencies MERV 12 and MERV 14. HEPA 99.99% grade available with a Max Temp of 500°F

HT pleat filters are designed as a pre filter operating at high temperatures up to 500°F/260°C, with low pressure drop and long service life. Filters are classified with MERV8/G4/EU4 efficiency. They are made with a pleat distribution of 13 pleats per linear foot and are recommended to operate up to 2000 CFM. These filters are available in 45mm (2”) and 95mm (4”) depths. Filter face area can be custom made in many dimensions and the maximum recommended pressure drop is 1.2”w.g./300 Pa.
Washable filters

Expanded Aluminum Foil Filter is an impingement type panel filter designed for use in residential, commercial and industrial HVAC applications to remove large airborne particulate. Popular applications include outside air intake ducts, rooftop hoods and air handling units. It is an ideal solution for any HVAC system that desires a washable and durable pre-filter with low resistance to airflow.

Screen Mesh available in Aluminum, Galvanized or Stainless Steel

Often used in high velocity applications, screen mesh industrial grade filters are an impingement type panel filter designed for use in residential, commercial and industrial HVAC as well as large electrical motor applications to remove large airborne particulate and mist from the airstream. Applications include outside air intake ducts, rooftop hoods and air handling units. It is an ideal solution for any HVAC system that desires a washable pre-filter with low resistance to airflow. The filter uses a metal frame to enclose the media pack consisting of multiple layers of corrugated screen wire assembled in a criss crossing pattern for strength. The pack is then placed between two layers of expanded metal and is made to fit firmly inside the frame giving the filter exceptional strength and durability. The frame is made with mitered corners and is closed with rivets. The frame has drain holes for ease in cleaning.
Paint Booth Filtration | Prefilter rolls

Fiberglass filter media rolls used in paint overspray collection and surface coating applications. Filter media is made up of glass fiber media. Typical thicknesses 2.5” are available in rolls and cut to length pads.

Various weights per square ft of glass fiber media provide different efficiency levels and greater dust holding capacity.

Ring Panels

2 ply panels are used in paint booth cross draft applications where the user requires a good basic filter and cost is a major consideration. Typical 1.5” green, 2-ply, self-sealing, tackified polyester media. Panels are heat sealed around steel frame. Available in panels, pads, and blankets

83% efficient @ 5-10 micron range @ 100fpm
Used in HVAC or Paint Booth applications

Extra tack panels for use in cross draft applications. An industry favorite, the Extra Tack is a long-life filter that is a proven performer at a great price. A standard 1.75" blue, 2-ply, self-sealing, tackified polyester media. Panels are heat sealed around steel frame. Available in panels, pads, and blankets.

94% efficient @ 5-10 micron range @ 100fpm

- Air Intake
- Paint Overspray
- Downdraft Filters

**Air Filtration Housings** | **Engine and Compressor Intake**

Air Intake from 10 CFM to 40,000 CFM  Cylindrical Or Panel Style design

Single stage to 5 stage filtration

Wire Mesh to HEPA grade filters
HVAC

Flat Bank Housing

The Flat Bank air filter housing is a permanent housing designed to hold ASHRAE rated air filters. Standard filter sizes are 2” or 4” in depth. Housings are manufactured in 8-½” and 12” depths. This housing is fabricated from galvanized steel or -optional T304 stainless steel and is welded together and or bolted together. The unit is one-piece construction with aluminum extrusion to hold the filters in place. Upstream corner gussets increase the rigidity of the unit. Each unit is manufactured to meet specific end user requirements.
The Side Access air filter housing is a permanent housing designed to specifically accommodate ASHRAE rated air filters. Filter efficiencies range anywhere from 30-95% by ASHRAE test method. This 22-¼, 34-¼, 42” or customized depth housing is manufactured with galvanized steel- optional T304 stainless steel and is intermittently welded and or bolted together. All seams are silicone caulked for airtight seal. The unit is a one-piece construction with filter track extrusion permitting either a 2”, 4” or 6” prefilter track and a 1” final filter header track. Each housing is custom manufactured to meet specific end user requirements.

Aluminum Extrusion

Prefilter and secondary 1” header filter tracks are available with 2” and 4” prefilters.

Woven Nylon Seal
**V Bank filter housing** is a permanent single stage unit designed to hold pleated ASHRAE rated filters. The unit can accommodate both 2” and 4” filters in a low-pressure drop configuration. The V Bank unit is manufactured out of either galvanized steel or optional stainless steel and is welded and or bolted together. Each housing is custom manufactured to meet specific end user requirements.

**Carbon filter/adsorber** housing is a permanent multi stage unit designed to remove particulate and gas phase molecular contaminants. The molecular contamination unit accommodates either a 2” or 4” deep prefilter section as well as nominal ¾” carbon trays. Tray configuration is based on twelve trays per twenty-four inches of height. The air filter housing can accommodate multiple face style filters in a low-pressure drop. This Carbon housing is fabricated out of galvanized steel optional stainless steel. Corner gussets are added to strengthen the structure of the housing. Shelves within the unit are bolted in place in order to accommodate varying manufacturers filters. Each housing is custom made to meet specific end user requirements.
BIBO (Bag in / Bag out) Critical Containment Housings

Single Door Unit

Double Door Unit
Larger unit with isolation dampers
Custom filters | Designed to order

Custom HEPA filters

Custom High Pressure Stainless Steel mesh filters

Custom CAD cut shapes from High grade Disposable Polyester media.

Send us the design that fits your fan or equipment and we will make it. 50 pcs or 10,000 pcs.
Replacements for most major Brands

Air Housings
- Ajax
- Caterpillar
- Clark
- Cooper Bessemer
- Ingersoll Rand
- MEP
- Moisture Master
- Solar Gas Turbine Systems (Saturn thru Titan)
- Solberg
- Waukesha-Pearce
- White Superior
- Worthington

Dust Collectors
Donaldson/Torit
- American Air
- Braden
- Camfil
- Farr
- FilterOne
- Clean Air Consultants
- Lincoln Electric
- Nordson
- Pneumafil
- GEMA
- MAC Equipment
- Trion
- Wheelabrator
and many others
Liquid cartridges

- Amazon Filter
- Filtration Group
- GE
- Jonell
- Parker (Commercial)
- Pall
- Strainrite

Coalescers & Separators

- American Filter Tech
- Baldwin
- C&M Filtration
- Facet
- Guardian Labs
- HILCO
- Jonell (Filtration Group)
- Kaydon
- Murphy
- Pall
- Parker
- Peco
- Refilco
- Racor (Parker)
- Velcon (Parker)
- APEL
- AQE
- ATLAS COPCO
- BACT
- BALDWIN
- BCP (BLAST PRO)
- BEALE
- BHA
- BHA
- BINKS
- BIO BLAST
- BLASTEC
- BLASTRAC
- BOWSER
- BRADEN
- BURGESS MANNING
- CAMFIL FARR
- CASCO
- CATERPILLAR
- CAVEL
- CHAMPION
- CHAMPION LABS
- CHEMCO
- CLARK
- CLEAN AIR OF AMERICA
- CLEMCO
- COMMERCIAL
- COMPLETE
- CONAIR
- CONSLER
- COOPER AIR
- DEIMCO
- DIVERSIFIED ENGINE PRODUCTS
- DIVERSITECH
- DOLLINGER
- DONALDSON TORIT
- DSP MONOXIVENT
• DUST HOG
• DUSTEX
• EARTH FILTRATION
• ECO
• EMPIRE
• ENDUSTRA
• ENTECH APC
• ENVIRO-SYSTEMS
• ENVIRONMENTAL
• EXIJET
• FACET
• FALLS FILTRATION
• FARR
• FILMSCO
• FILTER CLONE
• FILTRATION GROUP
• FILTRATION SYSTEMS (FSI)
• FILTREX
• FISHER KLOSTERMANN
• FLANDERS
• FLEETGUARD
• FLEXKLEEN
• FORCAST SALES
• FRAM
• FREUDENBERG
• FSX
• GARDNER DENVER
• GEMA
• GENERAL RESOURCE
• GORE
• GUYSON
• HILCO
• HOFFMAN BLAST ROOM
• HOFFMAN BLOWER
• IFM (INDUSTRIAL FILTER MFG)
• INGERSOLL RAND
• IONTECH
- IPEC
- JBI
- JET AIR
- JONELL
- KAYDON KEENE
- KEI
- KINGTOOL
- KOCH
- LUBER FINER
- MAC
- MAC TIFLOW
- MAKINO SINTO
- MCNELIUS
- METROPLEX
- MICRO AIR
- MIKROPOR
- MIKROPUL
- MONROE ENVIRONMENTAL
- MPF
- NAFCO
- NAPA
- NEDERMAN
- NEW YORK BLOWER
- NORDSON
- NUGENT
- OSPREY
- PALL
- PANGBORN
- PAULI SYSTEMS
- PAXTON
- PECO
- PEERLESS
- PENN STATE INDUSTRIES
- PHOENIX FILTRATION
- PIOVAN
- PLYMOVENT
- PNEUMAFIL
• POLARIS
• POWER BOSS
• PROGRESSIVE BLASTING
• RACOR
• REED
• REFILCO
• ROBOVENT
• ROSS
• ROYAL
• ROYAL FILTER
• ROYAL FILTERMIST
• SAITY METCO
• SAITY METRO
• SCIENTIFIC
• SEMCO
• SIEMENS
• SLY
• SNOW
• SOLBERG
• SONIC BLOWER
• SPARKS
• SPITZER
• STANDARD
• STEELCRAFT
• STEPHENS
• STODDARD
• SULLAIR
• SUNSHINE
• SWITCH FILTRATION
• TDC
• TENNANT
• TEREX JOHNSON ROSS
• TEXAS FILTRATION
• TIPTON
• TORIT
• TRION
• TVS
- UAS
- ULTRA
- UNITED ENGINE LIFE
- UNIVERSAL SILENCER
- UNIWASH
- US AIR FILTRATION
- VAC U MAX
- VELCON
- VIKING
- VILEDON
- WAGNER
- WAM
- WAUKESHA
- WHEELABRATOR
- WHITE SUPERIOR
- WHITLOCK
- WHITNEY
- WIX
- WOO YANG
- ZEPHYR

- Busch Filters
- Mann & Hummel Air Filters
- Conair Filters
- McQuay Filters
- Baldwin Filters
- CUNO Water Filters
- Dollinger Filters
- Pall Hydraulic Filters
- Solberg Air Filters
- Stoddard Silencer Filters
- Grainger Air Filters
- Heidelberg Filters
- Universal Silencer Filters
- Ingersoll Rand Air Filters
- Becker Pump Filters
- Keltec Filters
- Liquid Bag Filters
- Air Handler filters
- Aeolus
- Aircon
- Air Flow Technology
- Airflow Products
- Airflow Systems
- Airguard
- Barneby & Sutcliffe
- BHA
- Cambridge
- Chemco
- Columbus Industries
- Consler/Graver
- Continental
- CSC
- Duralast
- Industrial
- Endustra
- Environmental Filter Corp
- Facet
- Farr
- Fiberbond
- Filter Mart
- Filtration Group
- Flanders
- Flanders / Precisionaire
- Glasfloss
- Hefco
- HEPA Corp
- Koch
- MicroAir
- Parker
- PECO
- Purafil
- Purolator
- Quality Filters
- Research Products
- Royal Filters
- RSE
- Servodyne
- Shawndra
- Smith
- Sparks
- Swift
- TDC
- Tri-Dim
- Viledon
- Aercology
- Donaldson
- Ingersol Rand
- NAFCO
- Sunshine
- Filpro
- Filter All

- AAF
- ABSOLENT
- AC DELCO
- AERCOLOGY
- AEROSTAR
• AIR MAZE
• AIR PANEL
• AIRCLEAN SYSTEMS
• AIRFLOW PRODUCTS
• AIRFLOW SYSTEMS
• AIRGUARD
• AIRSAN
• ALUMINUM FILTER
• ALUMINUM MESH PANEL
• ATLAS COPCO
• BUNN
• BURGESS-MANNING
• CAMERON
• CAMFIL FARR
• CARBON FILTER
• CHICAGO CFM
• CHICAGO PNEUMATIC
• CLARK
• COMPAIR
• COMPAIR-LEROI
• COMPLETE FILTRATION
• CONSLER
• COOPER
• DIVERSIFIED AIR
• DOLLINGER
• DONALDSON
• DONALDSON TORIT
• ELLIOTT
• EMAG
• ENDUSTRA
• EUCLID
• EZ KLEEN
• FARR
• FILPRO
• FLAMEGARD
• FLANDERS
• FLEETLIFE
• FLUITEK
• FORD
• FORECAST SALES
• FRAM
• FUMEX
• GENERAL ELECTRIC
• GLASFLOSS
• GMC
• GRAINGER \ HALCO
• HERTZ KOMPRESSION
• HOFFMAN
• HONEYWELL
• IFM
• INDUSTRIAL MAID
• INGERSOLL RAND
• JOY
• KEMP
• KOCH
• KOCH FILTER
• KOMATSU
• LEROI
• LUBERFINER
• MCMASTER-CARR
• MIKROPOR
• MOTION
• MOTION INDUSTRIES
• MOTORCRAFT
• NAFCO
• NAPA
• NEWARK
• NORDSON
• ORANGE AND WHITE
• PAD HOLDING FRAME
• PANEL FILTER
• PLEATED AIR FILTER
• PLEATED PANEL
• PLEATED PAPER
• POLY PAD
• POLY PANEL
• PUROLATOR
• QUINCY
• ROTRON
• SCHMIDT
• SHAWNDRA
• SOLAR
• SOLAR TURBINE
• STANDARD CAP HEPA
• STODDARD
• TENNANT
• TORIT

• TRANE
• TRION
• TROX
• UNIVERSAL SILENCER
• US AIR COMPRESSOR
• US TURBINE
• VILEDON
• WAUKESHA WHEELABRTOR