



We optimize your process

An ISO 9001:2008 Certified Company

Welcome to Trinity Filtration Technologies

Thank you for taking time to review this Brochure.

While we wish to showcase some of our popular products, we also want to show you who we are: our values, our vision and the way we work with our customers.

We are passionate about our business and we believe our products will help our customers to optimize their processes. We truly value each client.

Our Company Trinity Filtration Technologies is the leader in the Designing, Manufacturing and Marketing of Advanced Filtration, Ultrafiltration. High Efficiency Separation Systems and Water Treatment Plants serving the Indian Industry.

Trinity's products are employed in diverse markets including Bio-Pharmaceutical, Food & Beverage, Electronics, Paints, Automotive Coatings, General Engineering, Water Treatment, Petrochemical, Power Generation, Oil & Gas & Metal Working Fluids.

We offer complete solutions to our customers in project management, engineering, manufacturing, training, installation and after sales service. Our engineers are qualified and trained to handle complex processes and will serve with enthusiasm & integrity.

Our manufacturing plant is located at Rabale, Navi Mumbai (ISO 9001:2008 Certified), where we manufacture Filter Housings, Strainers, Filtration Systems, Trolley/Skid Mounted Systems, Ultrafiltration Systems, Water Treatment Plants etc. We are also a leading exporter of stainless steel Filter housings to few OEMs in the USA & Europe.



Trinity Filtration Technologies Pvt. Ltd.

An ISO 9001:2008 Certified Company

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MICRO-STRING WOUND FILTER CARTRIDGES

TRINITY MICRO-STRING wound filters are manufactured using the latest winding technology which gives true graded density with denser layers inside and coarser layers outside. This produces superior depth filters with increased filtration capacity, longer service life, and higher performance that reduces overall costs. Micro-String filters have high structural integrity combined with a greater voids volume, giving a lower pressure drop, much improved dirt holding capacity and efficiency compared to conventional wound filters.

Filter Specifications

Media : Polypropylene, Cotton (CFR 21 Listed) & Glass Fibre
Core : Polypropylene, Tinned Steel, Stainless Steel 304 & 316
Removal ratings : 1, 3, 5, 10, 25, 50, 100 μ m
End connections : DOE-Standard / SOE-Optional

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.5 inches (63mm)
Inside Diameter : 1 inch (25.4mm)

Operating Conditions

Maximum operating Temp :
PP : 80°C, Cotton with SS Core : 120°C; Glass Fibre with SS Core : 400°C
Recommended Change-out differential pressure : 35 psig



Applications

- RO Prefiltration • Petrochemicals
- Desalination • Plating Solutions
- Photographic Chemicals
- Edible Oils • Paints and Inks
- Water & Waste Water Treatment

MICRO-STRING BLANKET MEDIA FILTERS



TRINITY Micro-String Series BLANKET MEDIA Filter cartridge is a major innovation in blanketed filter technology. It combines an enhanced open wind process with an internal media blanket. This provides superior flow rates, greater filtration efficiency, and consistent filter performance from batch to batch

Applications:

- Pre-RO Filtration • Electronics & Electroplating Filtration
- Raw Water Filtration • Chemical Pre-Filtration
- Pharmaceutical Pre-Filtration • Paints & Inks
- Water & Waste Water Treatment
- PCB Manufacturing
- Desalination • Edible Oils
- Photographic Chemicals

Operating Conditions

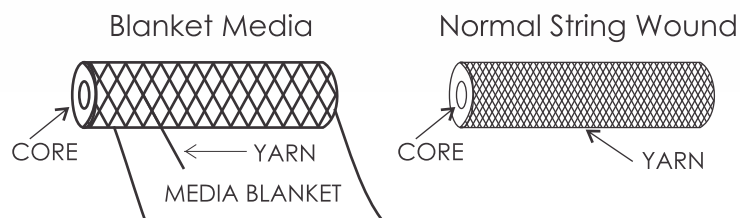
Max. Operating Temp : 80 °C for PP with PP core
: 120 °C for Cotton with SS core
Recommended change out Differential Pressure: 35 PSID

Filter Specifications:

Filter Media : Polypropylene / Cotton Media Blanket
Core : Polypropylene / SS304 / SS316
Micron rating : 0.5, 1, 3, 5, 10, 25, 50, 75, 100 μ m
End Connections : DOE-Standard / SOE-Optional

Dimensions

Nominal Lengths : 250, 500, 750, 1000 mm
Inner Diameter : 1 "



SPUN-BOND DEPTH FILTER CARTRIDGES



TRINITY SPUN-BOND depth filters are made of 100% Polypropylene, with no additives or surfactants used that can cause foaming or other undesirable effects to the filtrate quality. With true graded density construction, these cartridges have the most dirt holding capacity available. The SPUN-BOND cartridges are the perfect choice when both economy and efficiency are critical.

Applications

- RO Prefiltration
- Petrochemicals
- Desalination
- Plating Solutions
- Photographic Chemicals
- Edible Oils
- Paints and Inks
- Water & Waste Water Treatment

Filter Specifications

Media : Polypropylene
Structure : Coreless
Removal ratings : 1, 3, 5, 10, 25, 50, 75, 100 µm

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.6 inches (66mm)
Inside Diameter : 1.1 inch (28mm)

Operating Conditions

Maximum operating Temp : 80°C
Recommended Change-out differential pressure : 35 psig

PURE-BOND RBC FILTER CARTRIDGES

TRINITY PURE-BOND Resin-Bonded Cartridge filters feature an Acrylic Fiber-Phenolic resin construction that produces an extremely rigid pore structure. This construction allows the filter to withstand extreme viscosities and temperature without compression or collapse. In addition, a true graded density construction allows complete utilization of the filter's depth, with coarse particles captured in the outer zones and finer particles captured in the inner qualifying zone.

Operating Conditions

Maximum operating Temp : 121°C
Recommended Change-out differential pressure : 35 psig

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.6 inches (66mm)
Inside Diameter : 1 inch (25.4mm)

Applications

- Paints & Resins
- Inks • Adhesives
- Lacquers, Varnishes
- Fuel Oils, Crude Oils
- Machine Coolants
- Dielectric Oils
- Lube Oil
- Cutting Oil
- Plasticizers

Filter Specifications

Media : Acrylic Fiber-Phenolic Resin
Removal ratings : 1, 2, 3, 5, 10, 25, 50, 75, 100, 125, 150 µm

Available in plain surface Cartridge (Acrylic / Phenolic only)
and grooved surface Cartridge Polyester / Phenolic &
Cellulose / Melamine -CFR 21 compliant.



PURE-GURAD BI-COMPONENT FIBER FILTER CARTRIDGES

TRINITY Pure-Guard Bi-component thermally bonded filter cartridges are manufactured using a unique technology using polyolefin thermally bonded bi-component fibers resulting in a rigid complex filter matrix. The unique fiber-to-fiber bond forms a very rigid, stable porosity matrix thereby eliminating the need for a support core. The unique construction of the Bi-Component filter cartridge provides consistent filtration and eliminates pore size variability and media migration. The rigid construction also provides a three dimensional fiber network that offers a high tolerance to differential pressures. This unique feature also prevents changes in the fiber matrix throughout the life of the filter providing for precise filtration and eliminating filter unloading.

Filter Specifications

Media : Bi-component Fibers of Polyolefin
Core : Coreless
Removal ratings : 1, 3, 5, 10, 25, 50, 75, 100, 125 & 200 μ m

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.5 inches (63 mm)
Inside Diameter : 1.1 inch (29 mm)

Operating Conditions

Maximum operating Temp : 82°C
Recommended Change-out differential pressure : 35 psig



Applications

- Pharmaceutical Pre filtration
- High Quality Paint, Resins & Ink
- CED / Top Coat in Automotive Coatings
- Bottled Water / Blend water in Breweries
- Process / Rinse water
- Desalination / Pre RO
- Cathode Ray Tube / CD-DVD Manufacture
- Lens Coatings
- Printed Circuit Boards

FLOW-MAX PLEATED POLYPROPYLENE FILTERS



TRINITY Flow Max Pleated filter cartridges are designed to optimize on the surface area of the PP media for higher flow rate, lower clean Delta P and longer Service life.

High Efficiency Pleated Polypropylene (PP) Filter Cartridges provide more surface area for higher flow rate and longer life. Designed for food, pharmaceutical, semiconductor, and other demanding process industries applications, the all PP construction and gradient density microfibre media provide excellent removal efficiencies and high contaminant holding capacities.

Filter Specifications

Media : Polypropylene Pleated Media
Removal ratings : 0.2, 0.45, 1, 5, 10, 20, 50 μ m

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.7 inches (69 mm)
Inside Diameter : 1 inch (25.4 mm)

Applications

- Pharmaceutical Pre filtration
- DI Water
- Process / Rinse water
- Fine Chemicals
- Lens Coatings
- DE Trap filters in Breweries
- CD / DVD media

Operating Conditions

Maximum operating Temp : 82°C
Recommended Change-out differential pressure : 35 psig

All materials of construction are CFR 21 compliant for food contact applications.

PES STERILIZING GRADE FILTERS

Polyethersulfone Sterilizing grade filters are manufactured to conform with the stringent quality standards required by filters that come in contact with biologicals, pharmaceuticals and other critical processes. The filter cartridges conform to Toxicity tests, meet the requirement of USP 29 Biological test for Plastics, and are manufactured using components that comply with CFR 21 regulations. The Filters are supported by a validation guide prepared specifically for manufacturers requiring product documentation as part of their qualification process.

Filter Specifications

Media	: 0.2 μ m Double layer Asymmetric Polyethersulfone membrane (0.45 μ m, 0.6 μ m, 0.8 μ m & 1.0 μ m available)
Support Media	: Polypropylene
Cage/Core/End Caps	: Polypropylene
'O' Rings / Gaskets	: Buna N, EPDM, Silicone, Viton
Internal Support Ring	: Stainless Steel
Dimensions	
Nominal lengths	: 9.75, 10, 20, 30, 40 inches
Outside Diameter	: 2.7 inches (69mm)
Inside Diameter	: 1 inch (25.4mm)
Operating Conditions	
Max.Diff. Pressure	: 4 Bar at 20°C / 2 Bar at 60°C
Sterilization	: Autoclave 30 minutes at 126°C. Steam 30 Mins at 121°C



Applications

- Pharmaceuticals
- Biologicals
- Solvents
- Ophthalmic Solutions
- LVP/SVP/Sterile API
- Vaccines
- High Purity Chemicals
- High Purity Water
- Wines

PTFE MEMBRANE FILTER FOR CRITICAL PHARMACEUTICAL APPLICATIONS



PTFE Sterilizing grade filters are carefully constructed for the Bio-pharma, beverage and fine chemical industries to provide secure reliable-filtration. They are designed to completely remove bacteria and particles from air and gas streams, even in the presence of humidity and moisture. The filter is ideal for filtration of solvents in sterile API manufacture, fermenter inlet air and exhaust venting, sterile process air and sterile venting of tanks and autoclaves. The filters have a 0.2 micron PTFE membrane validated for absolute bacterial retention with the challenge data correlated to water intrusion testing.

Filter Specifications

Media	: 0.2 μ m Hydrophobic PTFE membrane
Support Media	: Polypropylene
Cage/Core/End Caps	: Polypropylene
'O' Rings / Gaskets	: Buna N, EPDM, Silicone, Viton
Internal Support Ring	: Stainless Steel

Dimensions

Nominal lengths	: 9.75, 10, 20, 30, 40 inches
Outside Diameter	: 2.7 inches (69mm)
Inside Diameter	: 1 inch (25.4mm)

Operating Conditions

Max.Diff. Pressure	: 4.1 Bar at 20°C / 2.1 Bar at 60°C
Sterilization	: Autoclave 30 minutes at 126°C. Steam 30 Mins at 121°C

Applications

- Sterile venting
- Sterile Filtration of Air & Gas
- Sterile Filtration of Solvents
- Ophthalmic Solutions
- Vent for Autoclaves, Stills & WFI tanks
- Bulk Tank vents
- High Purity Chemicals
- Phage removal from Air

PURE-GURAD LARGE DIAMETER FILTER CARTRIDGES



Pure-Guard large diameter cartridges are new addition to the already successful Pure-Guard Bi-component Fiber standard size cartridges. The Large diameter cartridges ensure handling of high flow rates at relatively lower pressure drops vis-à-vis conventional standard size cartridge filters. This results in two key benefits 1) Lower foot print of the housing resulting in lower initial capital costs and 2) lower cost of filtration.

Filter Specification:

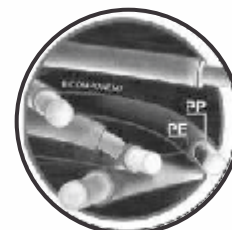
Media : Bi-component Fibers of Polyolefin
Structure : Coreless cartridge
Removal Ratings : 1, 5, 10, 25, 50, 75, 100 Micron

Dimensions

Nominal Lengths : 250mm, 500mm, 750mm, 1000mm
Outside Diameter : 140 mm
Core ID : 56 mm, 89 mm & 113 mm

Operating Conditions:

Maximum Operating Temp. : 80°C
Maximum Differential Pressure : 70 PSI (4.8 Bar) at 25°C
Recommended Change out Differential Pressure : 35 PSID



Cross Section of the Bi - Component Fibre



SEM photograph of the Bonded Filter matrix

Applications

- RO Pre Filtration
- Desalination
- DI Water
- Pre filter for UF Systems
- Water & waste water treatment

HIGH-FLOW FILTER CARTRIDGES

Trinity High Flow Cartridges addresses one of the critical need of the industry – Absolute Filtration at high flow rates. Trinity High Flow Filter Cartridges are direct replacement to the Pall Ultipleat® and 3M Cuno® High-Flow Systems and are available in various end configurations to suit individual needs

Specifications / Construction Materials:

Filtration Media : Polypropylene / Glass Micro Fiber
Support & Drainage Layer : Polypropylene
Inner Core : Polypropylene
End Caps : Polypropylene
Gaskets/'O' Ring Options : Silicone, Buna N, EPDM, Viton
Removal Ratings : 0.5, 1, 2, 5, 10, 25, 40 & 70 µm
Maximum Differential Pressure : 3.5 Kg/cm² (50 PSID)

Recommended change out Differential Pressure : 2.5 Kg/cm² (35 PSID)
Maximum Operating Temp: 80 °C

Dimensions:

Outside Diameter : 165 mm
Inside Diameter : 76 mm
Length : 20", 40" & 60"

Applications:

Amine Sweetening, Coolant Filtration, Process Water, Beverage Filtration, Desalination, Water & Waste Water Treatment, Condensate Polishing, Completion Fluids, Pharmaceutical Pre Filtration, RO Pre Filtration, Pre-Filter for Ultrapure Water.



META-PORE STAINLESS STEEL FILTER CARTRIDGES



TRINITY Meta-Pore all stainless steel filter cartridges are the perfect choice for high temperature (250°C) & High viscosity applications. Produced from 304L or 316L sintered stainless steel mesh / Sintered Powder / pleated mesh cartridge offers excellent reliability for critical applications. Produced in cylindrical or pleated media for extended cartridge life and more dirt holding capacity. All welded construction gives Meta-Pore cartridges the highest mechanical strength. The cartridges are designed for cleanable and reusable applications thereby eliminating frequent cartridge change out. Optional pleat protector available to prevent denting and damage to the pleated surface.

Filter Specifications

Media : 304L SS, 316L SS
Removal ratings : 1, 3, 5, 10, 20, 50, 100 µm

Applications

- Steam Filtration
- Catalyst recovery in Petrochemical & Chemical
- Polymer Filtration
- Gas Filtration
- Oil Filtration
- Fuel & Hydraulic Oil
- Paints

Dimensions

Nominal lengths : 9.75, 10, 20, 30, 40 inches
Outside Diameter : 2.7 inches (69 mm)
Inside Diameter : 1 inch (25.4 mm)

Operating Conditions

Maximum operating Temp : 250°C
Recommended Maximum differential pressure : 35 psig

FLOW-PURE SERIES BAG FILTER ELEMENTS

Trinity Bag filters are produced using advanced manufacturing process using high performance Polypropylene and Polyester felt media. A specially designed plastic 'V' collar is welded to the media using a thermal welding process. The 'V' collar assures a positive seal and thereby eliminates possibility of channeling and media migration.

Specifications :

MOC : Polypropylene, Polyester, Nylon (NMO)
Type : PP/PE felt, nylon mesh & Multi layer High Efficiency Bag Filters
Sizes : 7" Dia 16" L, 7" Dia 32" L, 4" Dia 8" L, 4" Dia 14" / 20" L,
Max. operating Temp : PP : 80°C, Polyester : 135°C
Removal Ratings : 1, 5, 10, 25, 50, 100, 200 µm, upto 1000 Micron (NMO)



BAG FILTER HOUSINGS



Features :

- CE, ASME Code compliant Design for safety and durability
- Single, Multi Bag & Duplex units.
- Permanently Piped Housings with swing bolt closure design allows easy disassembly and fast bag element replacement.
- Standard Pressure Rating : 150 PSI
- MOC : Carbon Steel, Stainless Steel 304, 316, 316L, 904L, Duplex Steel, Monel®, Hastelloy® & Rubber / GRP lined vessels.
- Multi round housings to accommodate higher flow rates.
- Large area, heavy duty basket internals.

FLOW-PURE SERIES OIL ABSORBENT BAG FILTER ELEMENTS

Trinity's New Oil Absorbent bag filters are manufactured with multi-layer construction offering high dirt loading, oil absorption and low differential pressure drops. Made with polypropylene micro-fiber these bags offer excellent chemical compatibility and a high level of filter efficiency

Trinity Oil absorbent bag filters are available in ratings of 1, 2, 5, 10, 25, 50 micron. Our 25 microns bag is the ideal choice for removal of "free" oil. These bags are a good choice for applications up to 180° F.

Features & Benefits:

- Made from 100% Pure Polypropylene
- Micro Fibers combined with other Proprietary oil retaining fibers
- Micron Ratings from 1.0 to 50.0 • 2 industry Standard Sizes
- Wide Chemical Compatibility • Excellent oil absorbing capabilities
- Long service life, high dirt holding capacity and low initial pressure drop
- Easy change-out to reduce down time
- Multilayered construction, high surface area
- Contamination Captured inside the bag, convenient handling
- Bag compressibility, no waste water consumption

Applications:

- Automotive Pre treatment - PT/CED • Food and Beverage • Chemical Processing • Paints, Inks, Resins and Coatings • Electronics
- Oil and Gas • Municipal Water • Industrial Water • Pulp and Paper • Pharmaceutical • Lubricants, Metalworking Fluids • Solvents
- Parts Manufacturing • Parts Washing • Hydraulic Systems • Gelatinous Contaminants • Vacuum pump • Natural gas Sweetening
- Natural Gas Dehydration • Auto coating & paint • Water purification & processing • Bulk & fine chemicals



Specifications:

- Micron Rating (μm) : 1, 2, 5, 10, 25, 50
- Suggested Max. Differential Pressure: 15 psid
- Max. Operating Temperature : 180° F

LENTICULAR FILTERS FOR PHARMACEUTICAL APPLICATIONS



TRINITY Lenticular positively Charged Cellulose depth filters are specifically formulated to meet the performance demands of biopharmaceutical and biotech applications. The filter media utilize mechanical and electro-kinetic adsorptive capture mechanisms to remove particles, microorganisms, colloids and pyrogen from critical process streams.

Trinity can provide on-site trial assistance to validate the performance of these filters in new processes and applications. The Pharmaceutical Grade filter modules are manufactured to procedures described in a Drug Master File (DMF) on record at the National Center for Drugs and Biologics.

Filter Specifications

- | | |
|-----------------|---|
| Media | : Cellulose Fibers with Inorganic Filter Aids |
| End Caps | : Polypropylene |
| Cartridge bands | : Stainless Steel |
| Gaskets/O-Rings | : Ethylene Propylene, Silicone, Neoprene, Nitrile, Viton® |

Operating Conditions

- | | |
|-----------------------|-------------------------------------|
| Max. Diff. Pressure | : 35 psid (2.5 bar) @ 140° F (60°C) |
| Max. Oper. Temp | : 60°C |
| Recommended Flow rate | : 0.5 to 1 GPM/ft ² |

Applications

- Antibiotics
- Blood Products
- Large Volume parenterals
- Cell Separation
- Cough Syrups
- Pre filtration of Sterile membrane filters
- Chromatography Column protection
- Post Fermentation Clarification

Lenticular Filters are also available for Food & Beverage applications like Beer, Wine and Industrial applications like Di - Electric Oils, Hydraulic Oils, Lubrication Oils, Coolants and other Industrial applications.

TRINITY CARBON BLOCK FILTERS

Trinity Carbon Block Filters provide the most efficient filter performance possible by combining the highest quality, FDA-compliant raw materials with cutting-edge manufacturing methods resulting in un-equalled performance. Trinity Carbon Block Filters employ a premium grade carbon with industry-leading surface area allowing for the optimum use of the carbon's adsorptive capacity. Higher surface area extends the life of the cartridge, lowering the need for frequent filter changes. Trinity Carbon Block Filters offer exceptional consistency, which further maximizes the adsorption capacity and maintains consistent flow rates.

Features & Benefits:

- Wide range of removal ratings to meet diverse application needs
- No media migration (No release of Carbon fines; initial Rinsing of filters recommended)
- Exceptionally low clean pressure drop
- Manufactured from NSF Std 61 Certified Coconut Shell Carbon
- NSF Certified for Material Safety- Standard 42
- Consistent performance at lower cost of filtration

Trinity Carbon Block Filters compliment any drinking water treatment system in a wide range of applications including POE, POU, Commercial & Industrial Applications

Specifications:

- 5 Micron (Standard), 10 & 25 Micron (Optional)
- High chlorine taste and odor reduction – high chlorine elimination capacity
- High dirt holding capacity and therefore extended service life
- Excellent for pre-filtration or pre-treatment in RO applications
- Designed to be used in most standard-size housings



Dimensions:

Outer Diameter (mm) : 70, 114
Length (mm) : 248, 508
Removal Rating : 5 Micron – Standard.
Optional Removal Rating of 10 Micron
& 25 Micron available

Material Used:

- Carbon - NSF listed Std 61
- End Caps - Polypropylene; White (Standard), Green or Black (Optional)
- Inner Outer Wraps - Polypropylene; White (Standard), Green (Optional)
- Nettings - Polyethylene; White (Standard), Green (Optional)
- Gaskets - NBR
- Temperature Rating - 40°F to 180°F

MAX-FLO SERIES SANITARY FILTER HOUSINGS

- Engineered with Bio-Pharmaceutical Industry in Mind
- Electro polished crevice free 316/316L stainless steel construction provides maximum durability, corrosion resistance & Product Purity, Reduces bacterial / particle adhesion.
- T-Style and inline configurations allow flexible piping options.



- Low Hold-Up Volume - maximizes product recovery.
- Quick-release clamp closure allows easy dis-assembly and fast cartridge filter replacement.
- 222(code 8), and 226 (code 7) Style Connection will accommodate all Manufacturers' Cartridges.
- No internal threaded parts that come in contact with the process fluid.
- Sanitary vent and drain valves permit easy venting, draining sampling or Integrity testing operations.

Applications :

- Active Pharmaceutical Ingredients
- SVP / LVP • Biotechnology, Vaccines
- Formulation and Filling • Plasma Fractionation
- Sterile Filtration • Venting and Gas Filtration
- Breweries and Distilleries • Winery



MAX-FLO SERIES INDUSTRIAL FILTER HOUSINGS



Features :

- CE, ASME Code Stamp compliant Design for safety and durability.
- Single, Multi round Cartridge, duplex units expertly engineered for reliability & ease of use.
- Sure sealing covers with swing bolt closure design allows easy disassembly and faster cartridge filter replacement.
- MOC : Carbon Steel, Stainless Steel 304,316, 316L, 904L, Duplex Steel, Monel®, Hastelloy® & Rubber/GRP lined vessels.
- Standard Pressure Ratings 10 Bar. Higher pressure ratings- optional
- Aqueous Flow rates up to 4500 GPM or more
- Unique cup design to accommodate both Double open end (DOE) and 222-Oring style SOE cartridges without modification in the housing.



ALL FRP (GRP) FILTER HOUSINGS



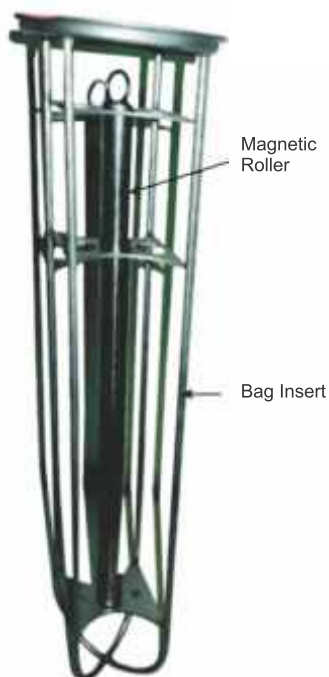
Features :

- Fibre Glass Reinforced Plastic housings can last 3-5 times longer than that of stainless steel when exposed to corrosive and harsh environments.
- Less weight and stronger than stainless steel.
- Housing designed to meet ASME Code, Section X Design standards.
- Design Pressures up to 150 PSI and factory tested at twice the working pressure.
- Corrosion resistance – compatible with fluids in the PH range of 2-13.
- Isophthalic, Bisphenol, Vinyl ester Resins selected as per the compatibility.
- Seamless Construction eliminates leakages.

Applications :

- Desalination
- Pre RO application
- Acids
- Alkalies & Brines
- Oil well Injection
- Produced water filtration

TRINTY RARE EARTH MAGNETS



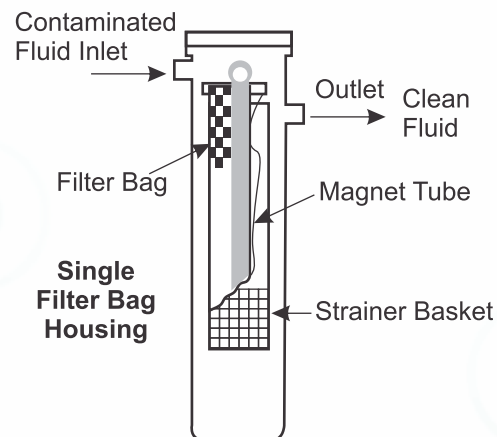
Trinity Rare Earth Magnets are ideal for removing ferrous, carbide fines from various Process Fluids. These Magnets are designed to remove ferrous particles in sub-micronic size, smaller than that can be extracted by traditional filters. Trinity Rare Earth Magnets are permanent magnets made from neodymium-boron-iron (NdFeB). These magnets are the strongest type of permanent magnets made, producing significantly stronger magnetic fields than other magnets. Trinity Rare Earth Magnets don't use consumables & hence contamination is quickly and easily removed as a 'cake' that can be easily disposed of as scrap without losing expensive fluids.

Advantages :

- Lower Dust Count on Coated surface
- Longer fluid life
- Improved surface finish of products
- Increased component accuracy
- Reduced wear & tear on machine tools
- Increased Bag Filter Life

Specifications

- Type : Rare Earth (NdFeB)
- Dia : 27 mm Standard (Other Sizes Optional)
- Length : Customized Lengths
- Grade : N40 (Higher Grades available for Special Requirements)
- Surface Magnetic Induction measured at poles : 9300 to 10200 Gauss when measured at each pole with the Hall Probe of a Gauss Meter
- Sleeve Material : SS304 Standard, SS316 (Optional)
- Lifting Hook : SS304 Standard, SS316 (Optional) provided at one end. 30 mm Dia
- Locator Pin : SS304 Standard, SS316 (Optional) provided at other end. 8 mm Dia.
- Customized Shapes & Sizes available to suit individual requirements



Applications

- Automotive Pretreatment (PT/CED)
- Engineering, Industrial & Aerospace
- Food & Beverage • Pharmaceutical
- Gearboxes (including final drives, differentials, etc.), both forced circulating and splash fed
- Large diesel engines, especially where the full-flow filter may prematurely go into bypass without indication

EP SERIES ULTRAFILTRATION SPIRAL ELEMENTS

Designed for extended life in a wide range of industrial and electrocoat applications, EP Ultrafiltration Spiral Elements provide greater resistance to fouling by colloidal particles and oily contamination. The Polyvinylidene Fluoride (PVDF) membrane provides excellent chemical and temperature resistance under a variety of process conditions

Benefits

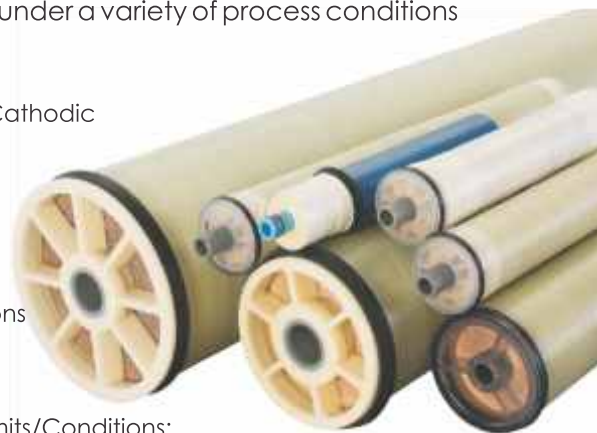
- Available in sealed (low flow) or netted (high flow) design
- Membrane has no electrical charge and can be used on either Anodic or Cathodic electrocoat paints
- Resistant to fouling due to contamination or color pigments
- Element construction developed for extended life in industrial applications
- Available in standard diameter or custom sized configurations for maximum performance and optimal cleaning
- Increased resistance to oxidizing cleaning agents
- Available in many configurations to retrofit competitive elements Applications
- Anodic/Cathodic Paint • Select Water Borne Paints • Waste Water Recycle
- Alkaline Cleaner Recovery • PVA Recovery

Materials of Construction:

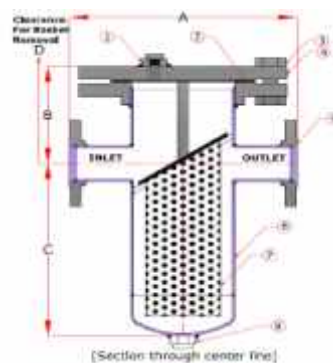
- Membrane: Polyvinylidene Fluoride
- Backing Material: Polyester
- Permeate Tube: Polyvinyl Chloride (PVC)
- Seal Carrier: ABS Plastic
- Brine Seal: EPDM

Operating Limits/Conditions:

- Maximum Inlet Pressure: 60 psi (4.1 bar)
- Typical Inlet Pressure: 40-60 psi (2.7-4.1 bar) (application specific)
- Maximum Operating Temperature: 122°F (50°C)
- pH Range, continuous: 2-10
- pH Range, short-term cleaning: 2-11.5 @ 122°F (50°C)



BASKET STRAINERS / T TYPE / Y TYPE STRAINERS

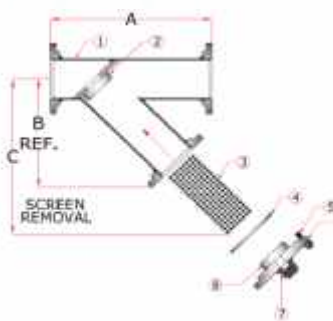


Trinity Fabricated Basket & Y Strainers designed to your specific application in Carbon Steel or Stainless Steel. The welded construction allows units to be designed for any application with respect to flow, pressure, material requirements & design code. Pipe Size available from 1½" to 40" in 150# and 300# for Basket Strainer & 2" to 40" in 150# and 300# for Y Strainer



Features:

- Welded Units designed to increase the capacity & maximum Pipe Size available
- Sizes Available to hold sufficient solids for the required time between clean-outs.
- The end connections are available with Flanges or Butt Weld Connections to fit existing piping to achieve the required clean pressure drop.
- Davit Assembly can be optional
- Dimensional flexibility
- Design flexibility
- Varied flow rate handling capacity



Specifications

- Sizes: 40 NB to 1000 NB
- MOC Body: CS, SS304, SS316, MPRL, MSGRP
- MOC Element: SS304, SS316
- Flow Direction : Inside to Outside
- End connection Butt Weld or Flanged
- Accessories: Spare Mesh, Mating Flanges With Bolts, Nuts and Washers, Davit Arm Assembly, Supports Legs, Vent, Drain With Necessary Isolation Valves
- Design Code : GEP (Standard), ASME (Optional)



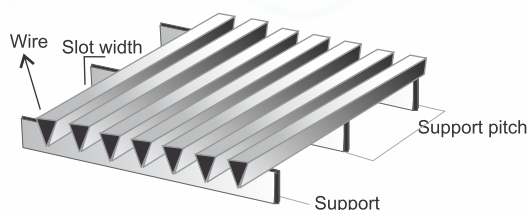
SELF CLEANING FILTERS



Trinity Self Cleaning Filter system consists of cylindrical wedge wire screen element (fully cleanable media) with a inbuilt cleaning blade supported by a motor / pneumatic cylinder. The standard system has a IN to OUT flow with a cleaning blade mounted on the inside of the wedge wire media element.

Some of the salient features are :

- Continuous, operator independent operation
- No need for disposable filter cartridges thereby reducing the cost of replacement elements, change-out labor, and downtime.
- No Operator exposure, hence no health hazards
- Unique welded wedge wire type mesh, strong, rugged and durable
- Higher percentage of open area, provides significantly higher flow throughput, lower pressure drops.
- Removal Ratings : 15 to 500 Microns.



Applications:

Automotive	: Automotive Pre Treatment
Food & Beverage	: Chewing gum base, Chocolate, Sauces, Corn Syrup, Juices, Candy, Cooking oil
Inks And Coatings	: Solvents, Water, Paint, Clear coat, Inks, Industrial Water, Lacquers, Wax, Varnish, Adhesives
Cosmetics	: Toothpaste, Lotions, Soaps, Mouthwash, Mineral oils
Chemical Processing	: Lube oil, Grease, Wax, Paraffins, Petrochemicals, Fuel oil, Catalyst Recovery
Oil And Gas	: Crude oil, Drilling fluids, Completion fluids, Catalyst Recovery
Metal Finishing	: Machine coolants, Plating solutions, Stripping solutions, hydraulic press oil
Recycling	: Automotive oil, Anti-freeze, Hydraulic oil.

TROLLEY / SKID MOUNTED FILTRATION SYSTEMS

Trolley Mounted / Skid Mounted Filtration Systems are ideal for batch filtration applications where a single unit is required to be used at different locations in a manufacturing plant. A Trolley mounted unit can be used as a viable & economical alternative to multiple permanently installed filtration systems.

A Typical trolley mounted unit consists of a complete filtration system mounted on a mobile trolley with isolation valves, provision for bye pass, pump, motor, pressure gauges and can be automated to meet individual application needs.

Benefits include :

- Pre engineered for Reliable Operation.
- Fully Integrated components for ease of use and control.
- Compact footprint. • Quick installation and commissioning choice of housings suitable for different types of filter media / cartridges.
- Pre Installed pumps, motors and other instruments like pressure gauges, valves etc. (Flexible Piping, Flow meters level controllers, transmitters, flame proof motors etc. are optional)
- Fully automated PLC / SCADA based, customized skid mounted systems can be made available for critical pharma / biotech applications.



Applications :

- Paints & Resins
- Inks & Dyes
- Hydraulic / Lube oil manufacturing
- Oil Filtration / Purification in Machine shops.
- Transformer oil Reconditioning
- Pharmaceutical / Biotech / Vaccine Manufacturing

TRINITY OIL PURIFICATION SYSTEMS

TRINITY OIL PURIFICATION SYSTEMS can be used directly as an ON-LINE or OFF-LINE system depending on your shop-floor need. Trinity Oil Purification systems allow filtration to take place independently of your equipment / machinery operation and there is no need for permanent installation per machine as one trolley / skid mounted unit can service multiple machines



Features & Benefits:

- Particle Removal – Coarse filtration application
- Particulate removal to meet NAS Cleanliness standards
- Water Removal
 - All Free Water and > 99.9% emulsified / dissolved water removed
- Improved Reliability
 - 75% - 80% of hydraulic problems are related to inadequate contamination control practices
- Longer Service Intervals
 - Reduced Down time
 - Higher Asset Availability

Trinity Mobile Oil Purification Systems



Type I: Particulate Filtration

This unit consists of a two stage filtration system. 5 Micron Resin Bonded Cartridges as a Pre-filter followed by 1 Micron Resin Bonded Cartridges as a final filter. Along with Pump with motor mounted on a Trolley / Skid & interconnecting piping with valves.

Standard Flow Rates : 4 LPM, 12 LPM, 25 LPM, 50 LPM, 100 LPM
(Higher Flow rates can be customized to suit a particular requirement.)

Type II: NAS Standard Oil Purification Systems

This unit consists of a two stage filtration system. 5 Micron Flow-Max series High Flow filter elements as a Pre-filter followed by 1 Micron Flow-Max series High Flow filter elements as a final filter. Along with Pump with motor mounted on a Trolley / Skid & interconnecting piping with valves.

Standard Flow Rates : 25 LPM, 50 LPM, 100 LPM
(Higher Flow rates can be customized to suit a Particular Requirement.)

Type III: Water/Moisture Removal Systems

This Unit includes Cardev SDU-H350 Housing with SDFC Cartridge designed to suit your flow rate. Pump with motor mounted on a Skid / Trolley & interconnecting piping with valves.

Standard Flow Rates : 4 LPM, 8 LPM, 16 LPM, 32 LPM
Systems can be customised with additional Pre Filter, Accessories to suit a particular requirement.

BENEFITS :

- Removes water and particle contamination, maintaining Oil in “**CLEANER THAN NEW**” condition.
- Oil filtered whilst the system runs - clean the entire system, not just the Oil in reserve.
- Improved machine reliability & availability • Extended Oil Life • Reduced waste Oil.
- Reduced component wear.

Accessories:



Particle Detector



Moisture Sensor



Particle Counter CM20



CARDEV & SDFC are registered trade marks of Environment Technologies, UK. The accessories offered above are manufactured / marketed by Environment Technologies, UK.

Trinity Filter Support Group's mission is to optimize customer's process thereby reducing overall cost of filtration. Our services include :

- Design Support
- Value Engineering
- Quality Assurance & Control
- In House Manufacturing
- Installation Support
- Project Management
- Testing & Validation
- Plant/ Process Audits
- Customer Training.



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