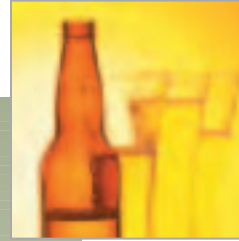
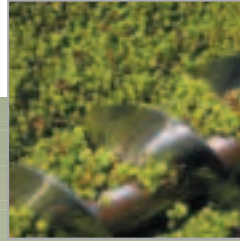
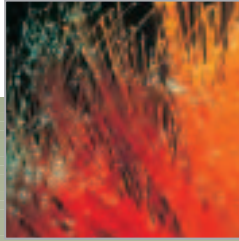


Filter Media Selection Guide

High Performance
Liquid Filter Media



Accufit[®] Welded

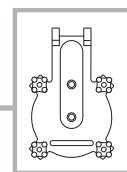
Ultrafit[®] Welded

SEDTEK[®]

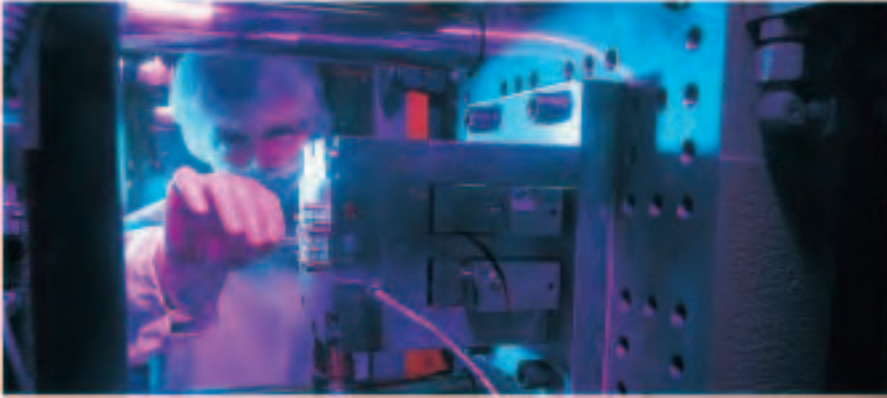


Filtration Systems

Division of Mechanical Mfg. Corporation



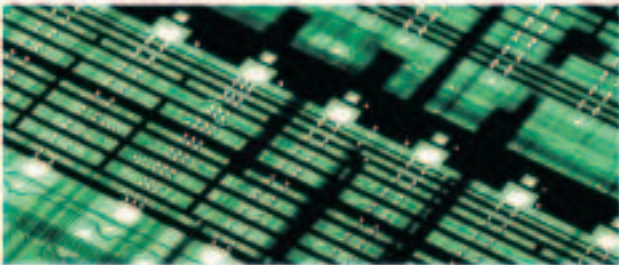
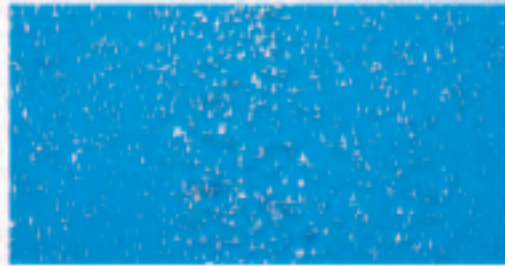
FILTRATION SYSTEMS LIQUID FILTER MEDIA



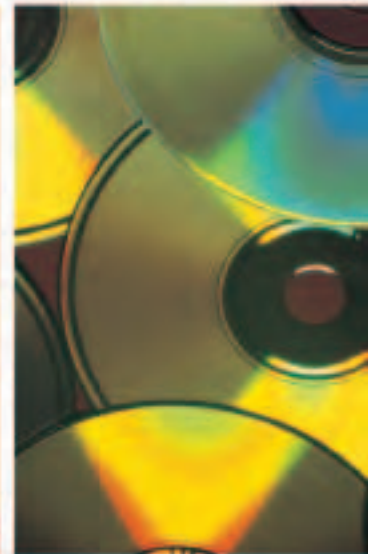
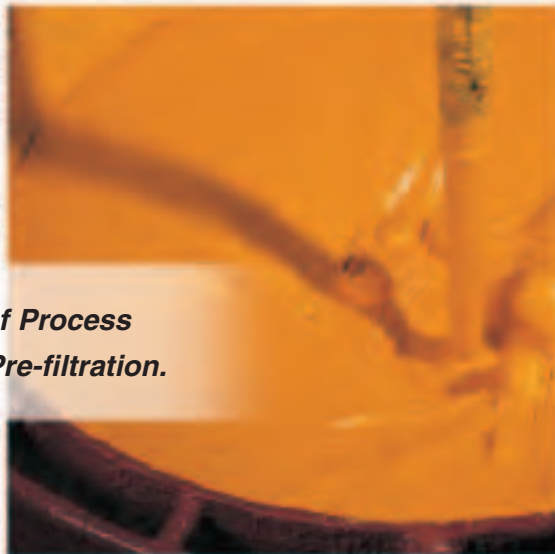
Companies that invest in the refinement of their liquid filtration processes are rewarded with higher quality products, increased productivity and reduced labor costs.

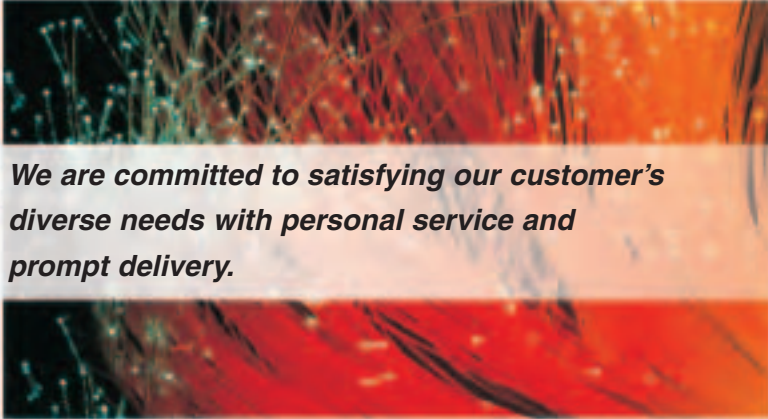


Filtration Systems vessels and filter media are widely used throughout the world for liquid clarification and high-purity filtering applications.

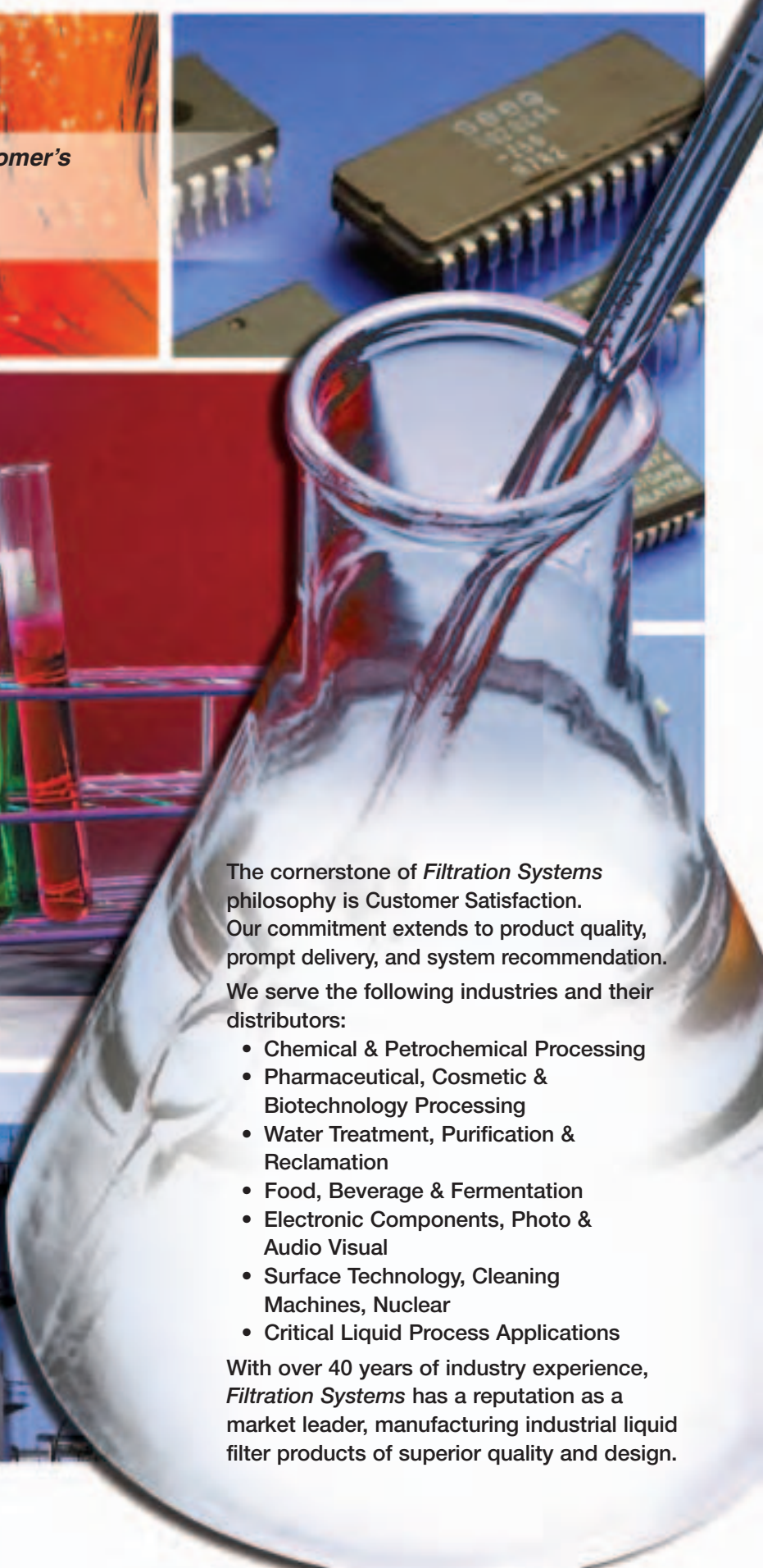




We have extensive experience in the areas of Process and Industrial Filtration, Microfiltration and Pre-filtration.





We are committed to satisfying our customer's diverse needs with personal service and prompt delivery.




The cornerstone of *Filtration Systems* philosophy is Customer Satisfaction. Our commitment extends to product quality, prompt delivery, and system recommendation.

We serve the following industries and their distributors:

- Chemical & Petrochemical Processing
- Pharmaceutical, Cosmetic & Biotechnology Processing
- Water Treatment, Purification & Reclamation
- Food, Beverage & Fermentation
- Electronic Components, Photo & Audio Visual
- Surface Technology, Cleaning Machines, Nuclear
- Critical Liquid Process Applications

With over 40 years of industry experience, *Filtration Systems* has a reputation as a market leader, manufacturing industrial liquid filter products of superior quality and design.



Our vessels and filter media are specifically designed to work together as a system, maximizing efficiency.

FILTRATION SYSTEMS LIQUID FILTER BAG FEATURES

Fully Welded Construction

Ultrasonically welded seams prevent solids, larger than the micron rating of the media, from bypassing the Filter Bag. Conventional Filter Bags are sewn, allowing particles to bypass through the needle holes of seams.

Zero-Bypass® Bag Collar

The *Zero-Bypass* Collar provides an optimum compression seal, when used in a *Filtration Systems* Filter Vessel. When the Filter Bag is under elevated pressure, the flanged Bag Collar prevents bypass of unfiltered liquid.

Elevated Filter Bag Handles

A dual handle lift-out, located above the liquid level, eliminates contact with dirt and unfiltered materials, and allows quick Filter Bag removal for replacement. Liquid spills are reduced, product waste is minimized and productivity is increased.

Rounded Bottom

The round bottom of the Filter Bag is designed to conform to the shape of the Support Basket. Additional length ensures that the bag will remain fully supported by the Basket.

Product Identification

Accufit® and *Ultrafit*® Welded Liquid Filter Bags have the model number, including the micron rating, embossed on the outside of each Filter Bag.

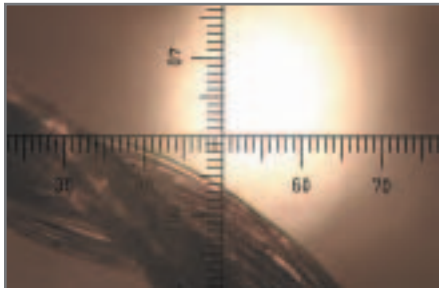
Filter Bag Sizes

P1 Size: 7" dia. x 16" long

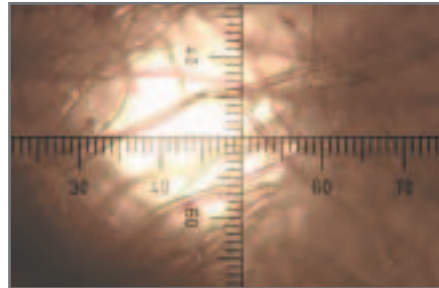
P4 Size: 4" dia. x 14" long

P2 Size: 7" dia. x 33" long

P5 Size: 4" dia. x 24" long



Microscopic image of thread used in conventional sewn filter bags. Thread diameter: 400 Micron



Microscopic image of stitching hole resulting from the thread used in a sewn seam. Hole size: 600 Micron



Compression of the patented Zero-Bypass Collar by the vessel lid eliminates bypass, keeping unfiltered liquid upstream where it belongs.



Filter Bags are permanently embossed with the Micron Rating and Size to assure correct replacement and identification.

When a filter bag has stitching holes, resulting from sewn seams, the path of least resistance is through the holes and not the filter media. Filtration Systems Liquid Filter Bags have no sewn seams anywhere, eliminating solids bypass.

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Polypropylene Felt or Nylon Monofilament		Large Diameter, High Loading Cartridges	
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ACCUFIT WELDED STANDARD FEATURES

- Nominally rated solids retention
- Economically priced
- Available in Polypropylene Felt or Nylon Monofilament
- Single-use, disposable filter bag
- 50 bags per case

Accufit Welded-P Series

- 100% Polypropylene, including *Zero-Bypass Collar*
- Single layer, depth loading filter bag
- Supported Polypropylene Felt with exterior glazed finish minimizes fiber migration downstream
- Media is up to 40% thicker than most competitors' felt bags
- Available micron ratings:
1, 3, 5, 10, 15, 25, 50, 75, 100, 150, 200

Accufit Welded-IP Series Integrated Polymeric Support®

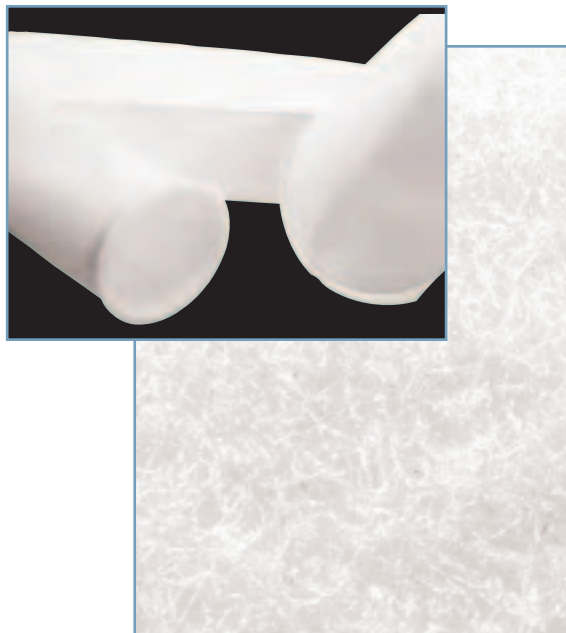
The *Accufit* Welded-IP Series filter bag is upgraded with some of the features found in our *Ultrafit* Welded Series:

- An additional structural layer is welded to the exterior of the *Accufit* Filter Bag
- Longer filter bag life than single layer bag
- Increased flow rates by *40%; reduces the number of vessels required
- Sustains greater differential pressure prior to change-out
- Support Jacket prevents fiber migration downstream
- Finished edge and inverted bottom
- Individually wrapped for cleanliness
- 100% Polypropylene, including *Zero-Bypass Collar*
Media: Supported Polypropylene Felt
IP Layer: Polypropylene Monofilament
Downstream Support Jacket: Polypropylene, non-woven spunbond
- Available micron ratings: 1, 3, 5, 10, 15, 25, 50, 75, 100, 150, 200

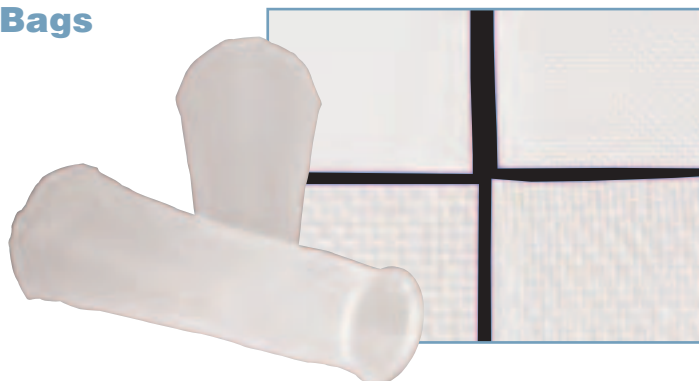
* Compared to our standard *Accufit-P* Series filter bag, tested under similar conditions.

Accufit Welded-NMO Series Nylon Monofilament Liquid Filter Bags

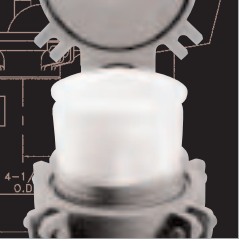
- 100% FDA compliant Nylon, including *Zero-Bypass Collar*
- Nylon Monofilament filter media (21 CFR 177.1500)
- Single layer filter bag
- Thermally and chemically compatible with a broad range of applications where Polypropylene is not suitable
- Sustains temperatures up to 350° F
- Individually wrapped for cleanliness
- Available micron ratings: 150, 200, 400, 600



*Supported Polypropylene Felt
enlarged to show detail*



ULTRAFIT® WELDED HIGH PERFORMANCE LIQUID FILTER BAGS



ULTRAFIT WELDED STANDARD FEATURES

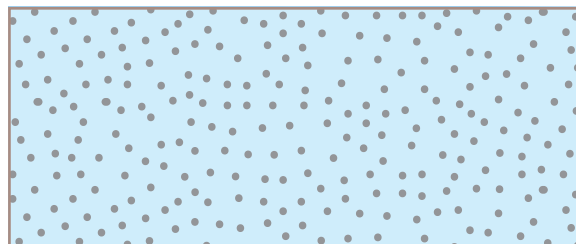
- Absolute Retention Ratings with efficiencies up to 99.98% (beta 5000)
- Graded-Density, *Composite Layer Design Technology™* combines coarse and fine layers to optimize flow, efficiency, and dirt-holding capacity
- Individual layers of absolute rated media create high loading, depth filtration
- Progressive filtration removes particles of decreasing size with each successive layer
- *Integrated Polymeric Support* is a standard design feature
- Polypropylene Construction: Series 100, 500, 800
- 100% FDA compliant materials (21 CFR 177.1520)
- Support Jacket prevents fiber migration downstream
- Finished edge and inverted bottom
- Replaces cartridges and other more expensive filter media
- Individually wrapped for cleanliness
- Single-use, disposable filter bag
- 20 bags per case



Graded Density, Composite Layer Design Technology™ promotes full-depth filtration and enhanced solids loading.

Ultrafit Welded 100 Series

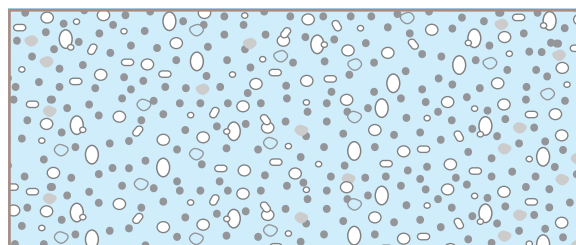
- Ideally suited for batch filtration, polishing, or as a final filter
- Low to medium solids holding capacity
- Designed to filter liquids where the range of particle size is narrow and consistent
- Provides highly efficient liquid filtration for applications requiring consistent levels of purity
- *Integrated Polymeric Support* is a standard design feature
- 97% efficiency ratings
- Available micron ratings: 1, 2, 5, 10, 25, 50, 100, 200



The Ultrafit Welded 100 liquid filter bag is ideally suited for batch or smaller applications, or as a final filter where the range of particle size is narrower and more consistent.

Ultrafit Welded 500 Series

- For applications requiring high-purity results
- High solids loading capacity
- 60% more surface area than *Ultrafit 100* filter bags
- Designed to filter liquids where particles vary in both size and distribution
- *Integrated Polymeric Support* is a standard design feature
- 99% efficiency ratings (beta 100)
- Available micron ratings: 1, 2, 5, 10, 25, 50



For applications demanding both high loading and efficiency, the Ultrafit Welded 500 filter bag has the unique ability to filter liquids where particles vary in both size and distribution.

ULTRAFIT® WELDED HIGH PERFORMANCE LIQUID FILTER BAGS

Ultrafit Welded 500 EXP® Series

- Sub-micron rated retention
- Multiple layers of the same micron rating allow finer filtration
- *Integrated Polymeric Support* is a standard design feature
- 99% efficiency ratings (beta 100)
- Available micron ratings: 0.5, <1.0

Ultrafit Welded 800 Series

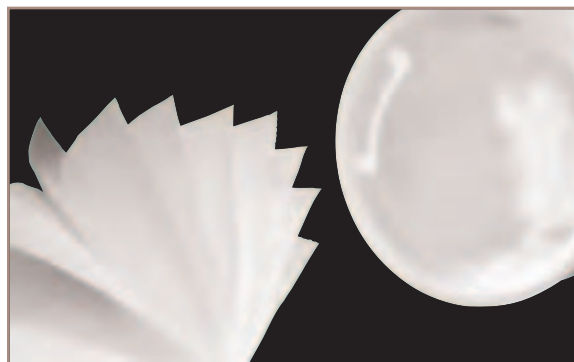
- Sub-micron rated retention
- Ideal for high-purity and critical liquid process applications
- *Integrated Polymeric Support* is a standard design feature
- 99.98% efficiency ratings (beta 5000)
- Available micron ratings: 0.4, 0.6, 0.8

Ultrafit Welded 800 EXP Series

- Sub-micron rated retention
- Multiple layers of the same micron rating allow finer filtration
- *Integrated Polymeric Support* is a standard design feature
- 99.98% efficiency ratings (beta 5000)
- Available micron rating: 0.2



Ultrafit Welded 500 - EXP Series



Ultrafit Welded 500 - IP Integrated Polymeric Support

INTEGRATED POLYMERIC SUPPORT®

- A structural layer is ultrasonically laminated within the internal composite of the bag
- Allows the filter bag to sustain significantly greater differential pressure before change-out is required, without increased pressure drop
- Longer run times allow enhanced solids loading

Our vessels and filter media are specifically designed to work together as a system, maximizing efficiency and results.



ULTRAFIT® WELDED-NYLON SERIES HIGH PERFORMANCE LIQUID FILTER BAGS

ULTRAFIT WELDED - NYLON SERIES STANDARD FEATURES

- 100% FDA compliant Nylon, including *Zero-Bypass Collar*
Upstream Jacket: Nylon Web
Filter Material: Meltblown Nylon 6 Microfiber
Downstream Support Jacket: Nylon Monofilament
- *Composite Layer Design Technology™*
- Individual Layers of absolute rated media create high-efficiency, depth filtration
- Suitable for Sanitization, Autoclaving, or In-Situ Steam Sterilization
- No mildew or bacterial effects
- Abrasion resistant
- Thermally and Chemically compatible with a broad range of applications where Polypropylene is not suitable
- Sustains temperatures up to 350° F
- Individually wrapped for cleanliness
- Single-use, disposable filter bag
- 20 bags per case

Ultrafit Welded - N Series

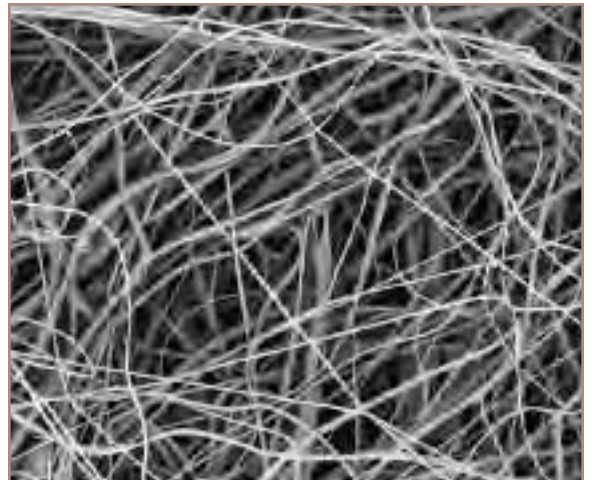
- 99.9% efficiency ratings (beta 1000)
- Available micron ratings:
1, 5, 10, 25, 50

Ultrafit Welded - N EXP Series

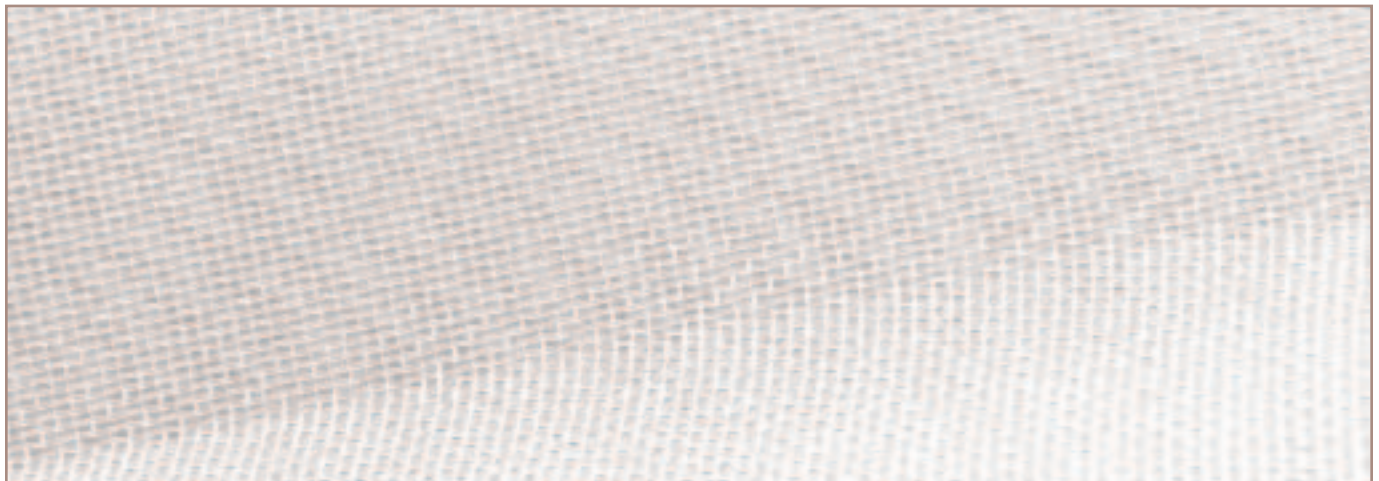
- Sub-micron rated retention
- Multiple layers of the same micron rating allow finer filtration
- 99.9% efficiency ratings (beta 1000)
- Available micron ratings: 0.5, <1.0



Ultrafit Nylon Filter Bag Composition



Close-up view of Nylon Microfiber



ULTRAFIT WELDED-AMT® SERIES ANTIMICROBIAL TECHNOLOGY

ULTRAFIT WELDED - AMT® SERIES

Standard Features and Materials of Construction

- Multi-Layer, High Performance Liquid Filter Bag
- Graded Density, *Composite Layer Design Technology™*
- Antimicrobial agent incorporated into the final filtering layers of the bag
- 99.98% efficiency ratings (beta 5000)
- Materials of construction: 100% FDA Compliant Polypropylene
- Single-use, disposable filter bag
- Available micron ratings: 0.4, 0.6, 0.8, 1, 3, 5
- 20 bags per case

Benefits of Antimicrobial Technology

- Antimicrobial agent inhibits the growth of broad spectrum bacteria, fungi, protozoa, and yeast on the treated layers
- Antimicrobial agent lasts the life of the filter
- Non-Toxic and insoluble in water

Q & A AMT® Series

What are some uses for Ultrafit Welded-AMT Series High Performance Filter Bags?

When properly installed in a Filtration Systems *Over-The-Top®* design housing, *Ultrafit* Welded-AMT Series filter bags are useful in filtering many types of liquids, including water, transformer cooling oil, synthetic oil, lubricants, paints, and other water-based liquids, when prevention of fluid contamination during the filtering process is important to the final product.

Why is Antimicrobial Protection important for my filtering process?

Microorganisms can contaminate liquids causing spoilage, odor, degradation, and reduced shelf life of products. Other effects of contamination may include changes in viscosity or pH, discoloration, gassing during processing, or swelling of finished product containers. During the filtering process the formation of *biofilms* may inhibit liquid flow, contaminate or corrode process piping, and affect heat exchange.

How does Antimicrobial Technology work?

Antimicrobial additives disrupt the metabolic function of thin walled, aerobic and anaerobic microorganisms, inhibiting their ability to function, grow, and reproduce on the filter media.

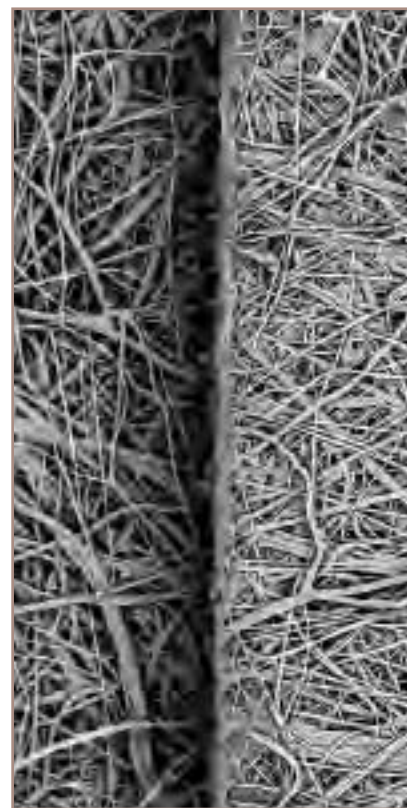
How is the Antimicrobial agent built into the media?

The antimicrobial agent is incorporated into the polymeric voids of the polypropylene fiber, without affecting the physical properties of the fiber. The submicron-sized particles migrate to the surface of the fiber, where they become an integral part of the microfibril. Since it is part of the fiber, not a surface coating, it will not wash or wear out. The antimicrobial agent is insoluble in water and lasts the life of the filter.

Is it safe?

Antimicrobial agents only attack thin-walled cells. Human and animal cells are thick-walled, and are therefore impermeable to the antibacterial additive. The antimicrobial agent, Triclosan (Chlorinated Phenoxy Compound), is registered with the EPA as a safe, non-toxic product.

NOTE: The *Ultrafit* Welded-AMT Filter Bag does not protect users or others against food-borne (or disease causing) bacteria. Mechanical Manufacturing Corporation, Filtration Systems Division is not making any health claims for this product.



SEDTEK® LARGE DIAMETER LIQUID CARTRIDGE FILTERS

SEDTEK STANDARD FEATURES

For liquid filtration applications demanding large dirt-holding capacity, *SEDTEK* Cartridges provide 99.9% efficiency at ratings as low as 1 micron. Our pleat and channel design, large diameter cartridges have greater surface area for higher loading and longer life. *SEDTEK* Cartridges are used with a "Cartridge Chamber", a removable, positive sealing basket that converts our bag filter housings into cartridge housings, without modification of existing process piping or change of liquid flow path.

SEDTEK Cartridges are 6-inch diameter by 24" or 30" long, and are configured for outside to inside flow. They are available in FDA compliant Polypropylene or Cellulose. The reliable, double O-Ring seal assures proper seating of the cartridge in the chamber and eliminates bypass. A built-in handle facilitates cartridge removal. Available micron ratings 1, 3, 10, 20, 40, 75, 100

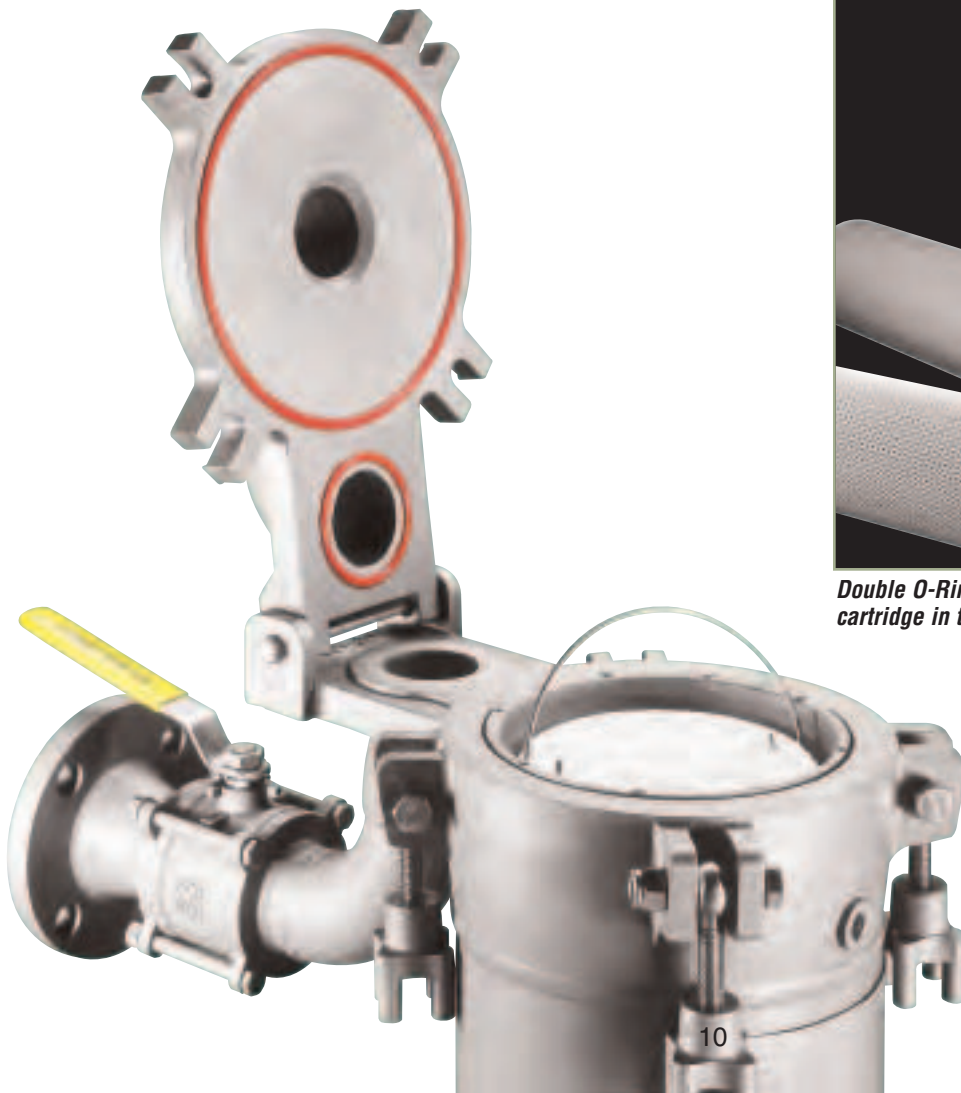
SEDTEK 624: 6" dia. x 24" long, for use in Model 122 housing
SEDTEK 630: 6" dia. x 30" long, for use in Model 130 housing



SEDTEK High Loading Cartridge Filter



Double O-Ring seal assures proper seating of the cartridge in the chamber and eliminates bypass



GLOSSARY OF TERMS

Needled Felt Filter Media A filter media constructed of interlocking fibers, mechanically bound to a web. Needled felt features a three-dimensional porous structure, creating a medium having high flow rate, solids loading, and depth filtration characteristics. The addition of a scrim, integrated within the material, provides mechanical strength.

Filtration occurs by capturing particles throughout the depth of the media; as a result, needled felt cannot be washed or reused. Needled felt is the most commonly used non-woven fabric for liquid filtration. Our polypropylene felt is not registered as FDA compliant, as it is manufactured with needles on a loom, requiring lubrication.

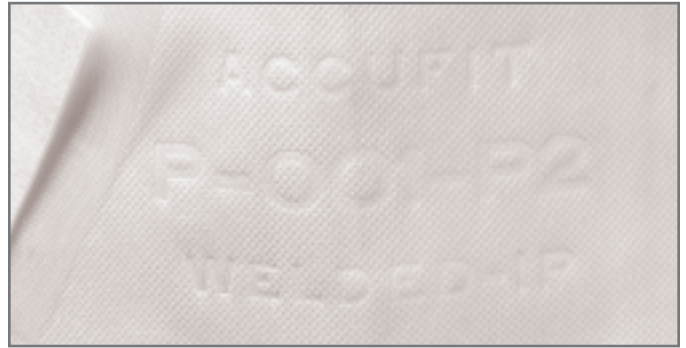
Filtration Systems offers *Accufit*[®] Welded polypropylene felt filter bags, in a nominal micron range of 1-200, with efficiency ratings of 60% to 70%.



Meltblown Microfiber Filter Media The meltblown production method generates fine fibers, with precise diameters, extruded from molten polymer resin. Uniform diameter fibers, with controlled web formation, accurately establish the porosity of the filter media. These *microfibers* are thermally bonded to each other, and then calendered into layers, forming a non-woven web. This web, having high void volume, is capable of capturing large amounts of solids. The bonding process prevents fiber migration and creates a fixed pore structure, adding mechanical strength. Filtration occurs by deposition of particles throughout the depth of the media; as a result, microfiber cannot be washed or reused.

Filtration Systems offers *Ultrafit*[®] Welded Polypropylene and Nylon microfiber filter bags, manufactured with 100% FDA compliant materials. Disposable, single-use bags are available in absolute ratings of .2 to 200 micron, with efficiencies of 97% to 99.98%.

Graded-Density, Composite Layer Design Technology[™] Individual layers of absolute rated media, sequenced in a proprietary array, are ultrasonically laminated



and constructed with patented techniques that form our high performance filter bags. Final layers of dense media on the downstream side, preceded by higher lofted upstream layers, having high void volume, achieve an ideal balance of dirt-holding capacity, efficiency and mechanical strength.

IP Series-Integrated Polymeric Support[®]

A structural layer, ultrasonically laminated within the internal composite of the filter, allows the bag to sustain significantly greater differential pressure before change-out is required, without increasing initial pressure drop. Longer run times allow enhanced solids loading. *IP* is optional on *Accufit* Welded, and is a standard feature on *Ultrafit* 100, *Ultrafit* 500, *Ultrafit* 500 *EXP* Series and 800 Series.

EXP[®] Series The *EXP* filter bag is comprised of multiple layers of the same micron rated filter media, *exponentially* increasing the efficiency and performance ratings of the *Ultrafit* Welded High Performance Liquid Filter Bag. The use of redundant layers of the same porosity makes the *EXP* bag ideally suited for use as a final or polishing filter, when precise, sub-micron retention is required. *IP- Integrated Polymeric Support*[™] is a standard feature of *Ultrafit* *EXP* Filter Bag. *EXP* Series is available in the *Ultrafit* 500 and *Ultrafit* 800 sub-micron rated filter bags.



Over-The-Top[®] Housing Design

Over-The-Top housing design, featured on all *Filtration Systems* vessels, maximizes filtration performance by preventing bypass of unfiltered liquid. When the vessel is closed, the machined face of the lid compresses the top of the *Zero-Bypass*[®] bag collar, forming an absolute seal. As there is no “dead space” between the top of the bag and the housing lid, unfiltered liquid cannot accumulate in the housing, eliminating clean

up of the vessel interior during change-out. The used bag, containing filtered solids, is simply removed and replaced with a clean filter bag.

When choosing filter media for your application, consider the following parameters: micron rating requirement, efficiency level, particle loading (size and distribution), flow rate, pressure drop, thermal or chemical compatibility, and cost. Any combination of these factors can affect optimum performance and maximum value. *Filtration Systems* offers various methods to help users determine the best filter media to meet specific performance requirements.

Ultrafit Welded Calibrated Test Bag

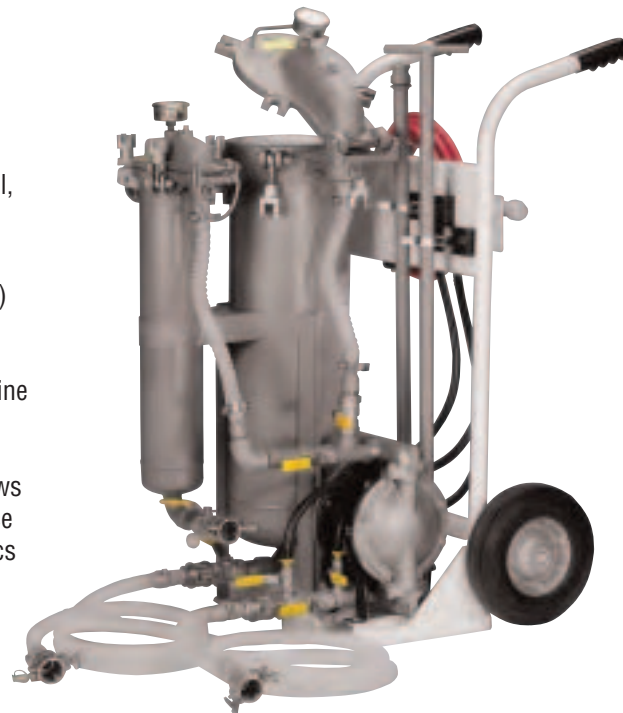
This unique and patented filter bag is an economical and rapid method for evaluating the size and distribution of solids present in a liquid. Six calibrated layers of absolute rated, melt-blown microfiber collect larger solids in the upstream section, while finer particles are captured in the downstream layers that follow. Observation of visible loading in one or more of the calibrated layers can assist users in determining the micron rating of *Ultrafit* Welded Liquid Filter Bags to meet their filtration needs.

Portable Test/Process System

The Portable Test/Process System consists of two filter housings and a double-diaphragm pump, mounted on a mobile cart. This self-contained system runs on factory compressed air. A valve, located next to each vessel, allows liquid flow to be directed through either filter housing for testing or batch processing.

Small quantities of liquid may be run through the smaller housing (NS-151) for sample testing, allowing validation of the filtered liquid (effluent) based upon observation or evaluation. The larger housing (NS-122) may be used with an *Accufit* or *Ultrafit* Welded filter bag, or *SEDTEK* cartridge to determine solids loading characteristics, which can be “scaled-up” (extrapolated) to provide general sizing information for full-size production applications. Additionally, filtering with an *Ultrafit* Calibrated Test Bag in the NS-122 allows the user to determine the micron rating of *Ultrafit* Welded High Performance filter bag for their process. By observing visible performance characteristics of specific filter media, users benefit by participating in their own Quality Control Testing Process.

In addition to its test function capabilities, the Portable Test/Process System is a very desirable piece of equipment for any factory, due to its versatility as a “go-anywhere” portable filtering system.



Model PNS-151/122-35

Filtration Systems Particle Characterization Lab™

Filtration Systems offers Particle Characterization Studies of liquid samples. Particle Analysis provides meaningful data, useful in identifying filtration requirements for the selection of equipment and Filter Media. Particle Analysis includes:

1. Photo-Microscopic Particle Imaging for size and distribution evaluation.
2. Electronic Particle Characterization Study of customer supplied samples(s), including particle distribution, size variance and frequency analysis.

Our firm understands the need for client privacy; maintaining your trust and confidence is important to us. We do not disclose any professional or non-public information about our clients, former or current, obtained in the course of our assistance to them.

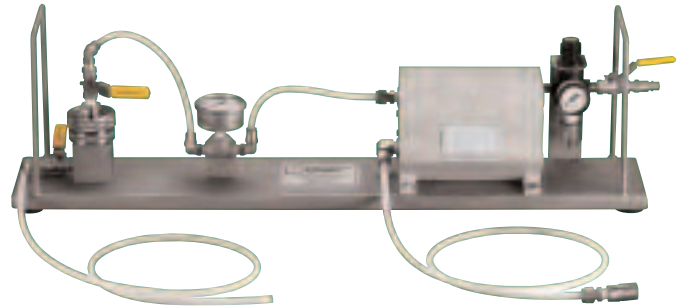
DISC FILTER HOUSING SYSTEMS

PORTABLE DISC FILTER HOUSING SYSTEM

The Portable Disc Filter Housing System consists of a Variable Compression Disc Filter and an adjustable flow, diaphragm pump. This system is designed for sample testing, validation and optimum media selection.

Applications

- Collect data to determine the optimum grade of filter media for your specific requirements
- Test filter media on a small scale basis for all General Filtration and Microfiltration applications
- Sample small amounts of liquid for process scale-up or pilot studies, or from production runs
- Evaluate the performance characteristics of *Ultrafit*® and *Accufit*® Welded Filter Bag products



Model PPDF-4, Portable Disc Filter Housing System

DISC FILTER HOUSING

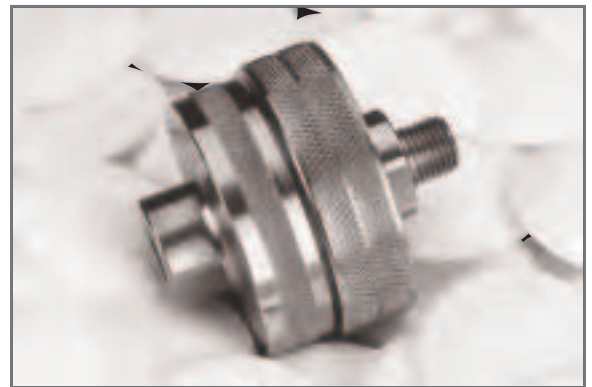
The *Variable Compression Disc Filter Housing* secures the *Ultrafit* Welded 47mm composite layer filter disc, while a small amount of liquid is filtered. Visual observation or analysis of the filtered liquid helps users select the optimum media for specific applications.

Housing Design Features

- Variable Compression design assures an absolute seal with media of various thickness and multiple layers
- 3-Piece Housing is simple, portable, and economical to use
- Threaded Compression Ring allows easy opening and closing
- Stainless Steel Housing is compatible with most test liquids
- 1/4" NPT Inlet and Outlet Connections
- Buna-N O-Ring included

Filter Disc Features

- 47mm Filter Discs replicate *Filtration Systems* filter media with *Composite Layer Design Technology*™
- Ultrasonically sealed circumference eliminates bypass and directs liquid flow through the filter disc
- Available in all micron ratings of *Ultrafit* Welded 100, 500, and 800 Series Liquid Filter Bags
- *Accufit* Welded Filter Discs also available



Variable Compression Disc Filter Housing and 47mm Composite Layer Filter Discs



Component parts of the Variable Compression Disc Filter Housing

Warranty: Filtration Systems warrants its products to be free from defects in workmanship for a period of one year from the date of purchase, when used in accordance with our specific guidelines. Our only obligation and a customer's remedy, subject to our inspection and evaluation, shall be to repair or replace the product, or refund the purchase price.

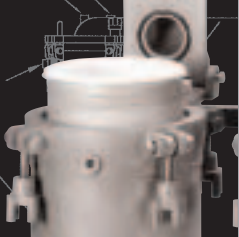
Limitation of Liability: Filtration Systems shall not be held responsible or liable for any loss resulting from the resale, direct or indirect misuse, incidental or consequential damages, arising out of the use of this product. Not all questions or issues may have been addressed in this manual. If you require any additional assistance or technical information, please contact our Customer Service Department.

Product Specifications: With over 40 years of industry expertise and proven performance, Filtration Systems manufactures responsibly priced, quality products. We continually strive to improve our products through ongoing research and development; therefore, we reserve the right to change specifications without notice.

Intellectual Property: Filtration Systems products offer exclusive manufacturing technology. Our company is committed to protecting its patents, trademarks, and proprietary rights from those who would wrongfully use them.

Partial Listing of Registered Trademarks of Mechanical Manufacturing Corporation...

Over-The-Top®, *Ultrafit*® Welded Liquid Filter Bags, *Accufit*® Welded Liquid Filter Bags, *Zero-Bypass*® Collar, IP Series-*Integrated Polymeric Support*™, *EXP*® Series, *Composite Layer Design Technology*™, *SEDTEK*® Liquid Cartridge Filters, *AMT* Series-Antimicrobial Technology™



PRODUCT SPECIFICATIONS

LIQUID FILTER BAGS

	SERIES		ACCUFIT NMO	ULTRAFIT 100 IP	ULTRAFIT 500 IP	ULTRAFIT 500 EXP	ULTRAFIT 800	ULTRAFIT 800 EXP	ULTRAFIT-NYLON	ULTRAFIT-NYLON EXP	ULTRAFIT AMT	ULTRAFIT Test Bag
	ACCUFIT P	ACCUFIT IP										
Polypropylene Felt	●	●										
Meltblown Microfiber, Polypropylene (P) or Nylon (N)				P	P	P	P	P	N	N	P	P
Nylon Monofilament			●									
Zero-Bypass® Bag Collar with Dual Lift-Out Handles	●	●	●	●	●	●	●	●	●	●	●	●
FDA Compliant Materials			●	●	●	●	●	●	●	●	●	●
Graded-Density, Composite Layer Design Technology™				●	●		●				●	●
IP-Integrated Polymeric Support®		●		●	●	●	●	●			●	●
Support Jacket		●		●	●	●	●	●	●	●	●	●
Efficiency Rating	Nominal	Nominal	Nominal	97%	99%	99%	99.98%	99.98%	99.9%	99.9%	99.98%	99%
Maximum Temperature (deg. F)	180°	180°	350°	180°	180°	180°	180°	180°	350°	350°	180°	180°
Available Sizes	1,2,4,5	1,2,4,5	1,2	1,2,4,5	1,2,4,5	1,2,4,5	1,2,4,5	1,2,4,5	1,2	1,2	1,2,4,5	2

MICRON RATING AVAILABILITY

MICRON RATING	.2	.4	.5	.6	.8	<1	1	2	3	5	10	15	20	25	40	50	75	100	150	200	400	600	
NOMINALLY RATED FILTER BAGS																							
ACCUFIT P							●		●	●	●	●		●		●	●	●	●	●			
ACCUFIT IP							●		●	●	●	●		●		●	●	●	●	●			
ACCUFIT NMO																			●	●	●	●	
ABSOLUTE RATED HIGH PERFORMANCE FILTER BAGS																							
ULTRAFIT 100 IP							●	●		●	●			●		●		●		●			
ULTRAFIT 500 IP							●	●		●	●			●		●							
ULTRAFIT 500 EXP			●			●																	
ULTRAFIT 800		●		●	●																		
ULTRAFIT 800 EXP	●																						
ULTRAFIT NYLON							●			●	●			●		●							
ULTRAFIT NYLON EXP			●			●																	
ULTRAFIT AMT		●		●	●		●		●	●													
LARGE DIAMETER, LIQUID CARTRIDGE FILTERS																							
SEDTEK POLYPROPYLENE							●		●		●		●		●		●		●		●		
SEDTEK CELLULOSE										●		●		●		●		●		●		●	

MAXIMUM FLOW RATES

gpm (water)	FILTER BAG SIZE			
	P2	P1	P4	P5
ACCUFIT P	90	55	25	45
ACCUFIT IP	130	85	35	65
ACCUFIT NMO	130	85	–	–
ULTRAFIT 100 IP	70	45	16	30
ULTRAFIT 500 EXP	30	15	7	12
ULTRAFIT 500 IP	60	30	15	25
ULTRAFIT 800	23	12	6	10
ULTRAFIT 800 EXP	15	8	3	6
ULTRAFIT NYLON	50	25	–	–
ULTRAFIT NYLON EXP	30	15	–	–
ULTRAFIT AMT	23	12	6	10

SEDTEK Large Diameter Cartridges	624	630
SEDTEK Polypropylene	50	65
SEDTEK Cellulose	50	65

MAXIMUM DIFFERENTIAL PRESSURE

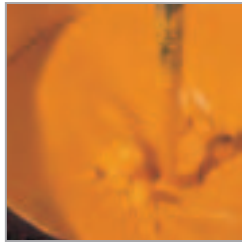
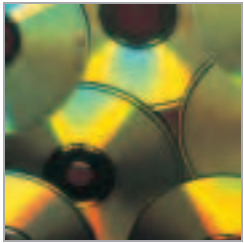
(psig) Initial Pressure plus...	FILTER BAG SIZE			
	P2	P1	P4	P5
ACCUFIT P	20	20	20	20
ACCUFIT IP	40	40	40	40
ACCUFIT NMO	20	20	–	–
ULTRAFIT 100 IP	34	34	34	34
ULTRAFIT 500 EXP	34	34	34	34
ULTRAFIT 500 IP	34	34	34	34
ULTRAFIT 800	45	45	45	45
ULTRAFIT 800 EXP	45	45	45	45
ULTRAFIT NYLON	24	24	–	–
ULTRAFIT NYLON EXP	34	34	–	–
ULTRAFIT AMT	45	45	45	45

SEDTEK Large Diameter Cartridges	624	630
SEDTEK Polypropylene	35	35
SEDTEK Cellulose	35	35

GENERAL CHEMICAL COMPATIBILITY OF POLYPROPYLENE, NYLON, AND CELLULOSE

CLASSIFICATION	TYPICAL EXAMPLES	POLYPROPYLENE	NYLON	CELLULOSE
BASES (ALKALIES)	Amines, Ammonium Hydroxide, Potassium Hydroxide, Sodium Hydroxide	Generally Compatible	Testing Recommended	Not Recommended
BRINES	Calcium Chloride, Potassium Chloride, Sodium Bromide, Sodium Chloride	Generally Compatible	Generally Compatible	Generally Compatible, Not Recommended for Sodium Bromide
INORGANIC ACIDS	Boric, Dilute Nitric, Dilute Sulfuric, Hydrochloric, Phosphoric	Generally Compatible	Testing Recommended	Not Recommended
ORGANIC SOLVENTS	Alcohols, Amides Cellosolves, Esters, Esthers, Glycols, Ketones	Testing Recommended	Generally Compatible	Not Recommended
	Aromatics (Benzene, Toluenes, Xylenes)	Not Recommended	Generally Compatible	Not Recommended
	Petroleum Products (Aviation Gasoline, Diesel Fuel, Kerosene)	Not Recommended	Generally Compatible	Generally Compatible; Not Recommended for Kerosene
	Hydrocarbons (Fats, Hexane, Octane, Oils, Petroleum Ether)	Testing Recommended	Generally Compatible	Not Recommended
	Halogenated Hydrocarbons (Methylene Chloride, Perchloroethylene)	Testing Recommended	Testing Recommended	Generally Compatible
SALT SOLUTIONS	Aluminum Chloride, Sodium Nitrate, Sodium Sulfate	Generally Compatible	Generally Compatible	Generally Compatible
WATER	Ambient	Generally Compatible	Generally Compatible	Generally Compatible
Maximum temperature limits for any fluid. Requires evaluation on an individual basis.		180° F	350° F	225° F

Important Note on Chemical Compatibility: The information presented in this table is based on exposure at room temperature and is for general guidance only. In most cases, the use of specific filtering material, such as polypropylene, nylon, or cellulose, can be safely recommended without special testing. However, since many factors can affect the chemical resistance of a given product, the user under actual on-site operating conditions must determine filter bag compatibility. Factors such as degree of concentration of a substance in a fluid, temperature, and duration of exposure should be considered, as they may compromise the structural integrity and performance of the filter media.



The cornerstone of *Filtration Systems* philosophy is Customer Satisfaction. Our commitment extends to product quality, prompt delivery, and system recommendation.

We serve the following industries and their distributors:

- Chemical & Petrochemical Processing
- Pharmaceutical, Cosmetic and Biotechnology Processing
- Water Treatment, Purification and Reclamation
- Food, Beverage & Fermentation
- Electronic Components, Photo & Audio Visual
- Surface Technology, Cleaning Machines, Nuclear
- Critical Liquid Applications

With over 40 years of Industry experience, *Filtration Systems* is ISO 9001:2000 Certified in the Design and Manufacture of Liquid Filter Housings and Media.



Filtration Systems

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