UNITED FILTERS INTERNATIONAL

Pleated Filters

Recommended Applications:

- Water Purification
- Etchants
- Colloid Removal
- Solvents
- Pharmaceuticals
- Food and Beverages
- Photographic and Plating Solutions
- Printed Circuit Boards
- Chemicals: Ethers, Ketones, Acids Esters, Alcohols, Bases, and Solvents
- Magnetic Coatings
- Metal Finishing
- Biologicals
- Microorganisms/Bacteria Retention

Features:

- Nominal and Absolute Particle Retention Ratings
- Superior Flow Characteristics
- High Dirt Holding Capacity
- Many Lengths and Cartridge Styles
- Low Clean Differential Pressure Drops

The *Highest Quality* In Cartridge Filtration

United Filters pleated cartridge filters are an alternative to string wound or spun molded filters. These filters are economical, multi-use, premium quality products that are available in various micron ratings ranging from 50 micron nominal down to .10 micron absolute. End cap configurations include DOE (double open end, flat gasket) and SOE (single open end, external double 222 O-ring/button end cap). Filter medias available include self-bonded fine diameter polypropylene fibers as well as membranes constructed of polypropylene, nylon, or PTEF.

The pleated cartridge filters contain no surfactants or binders that can break down, leach out, or permit the typical problems of channeling and media migration. Maximum effective open surface areas allow for high flow rates at reduced pressure losses as well as high dirt holding capacity, long service life, large throughputs, and lower operating costs. These pleated cartridge filters may be used as either pre-filters or as final filters for bulk and point-of-use filtration. They are most appropriate for use when high efficiency filtration and economy are crucial.

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PLEATED POLYESTER

The chemical and bacteria resistance of the Series PE polyester media makes these cartridges suitable for potable water, most light industrial applications, swimming pool and spa, and well water applications. The durable, non-woven polyester fabric is reusable, while being pleated to maximize its dirt holding capacity and extending the time period between changes.

Specifications

Type:	Pleated Non-Woven Polyester
Construction:	Non-Woven Polyester Fabric Media Vinyl Plastisol End Caps Polypropylene Core
Operating Temperature Range:	40ºF (4.4ºC) to 125ºF (52ºC)
Micron Rating:	Nominal 1, 5, 10, 20, 30, 50

Dimensions:	Max. Recommended Flow Rates:
2 5/8” diam. X 9 3/4”, 10” long	5-7 GPM
2 5/8” diam. X 19 1/2”, 20” long	10-14 GPM
2 5/8” diam. X 30” long	15-21 GPM
2 5/8” diam. X 40” long	20-28 GPM
4 1/2” diam. X 9 3/4” long	10-15 GPM
4 1/2” diam. X 20” long	20-30 GPM

Nomenclature

PE 1 X 10 BB

Filter Media
PE- Polyester

Micron Rating
1
5
10
20
30
50

Length
9 3/4”
10”
19 1/2”
20”
30”
40”

Tube O.D.
All filters are standard 2 5/8” O.D. unless otherwise specified
BB - 4 1/2”

Custom sizes and end cap configuration available. Consult factory.

Warning:
- Filter is ideal for filtering out taste, color, and odor particles. But may not be suitable where water is microbiologically unsafe or with unknown quality without adequate disinfection before or after the system.

Note:
- PE product line is manufactured using FDA approved materials.
- It is recommended that you run the tap for 20 seconds prior to using the water for drinking or cooking purposes.

PLEATED POLYPROPYLENE

Features

- LOWER clean initial pressure drops
- MORE uniform filtration and overall enhanced cartridge performance
- HIGH particulate reduction efficiencies up to 95%
- OPERATE at HIGHER velocities and flow rates
- GREATER degree of depth filtration
- ADDED loading capabilities

Series PP polypropylene cartridges are designed for residential, commercial, and industrial filtration applications. Constructed of durable, chemical resistant polypropylene media, they can be employed on many acids, alkalies, plating solutions, water remediation, and saline solutions. The cartridge filters employ a five (5) layered, high porosity "Bi-Component" polypropylene media consisting of both spun bonded and melt blown polypropylene layers laminated together by ultrasonic sealing in order to provide depth filtration to the media. This depth filtration will allow the cartridge to collect more dirt particulate and in most instances offer a longer life. The soft spun bonded polypropylene having distinct dot patterns is employed on the outer three (3) layers to serve as a prefilter to reduce larger particles while the smooth textured melt blown polypropylene, which has been calendered in order to reduce the media pore size, is incorporated on the inner two (2) layers for microfiltration. This arrangement of both the "pre" and "post" filter components provides two separate gradient layers in one filter. "Gradient Density" filters reduce larger particles, which would blind-off ordinary surface filters on their outer layers, while reducing the final particles on their inner layers. This design is an advancement in filtration technology and maximizes utilization of the filtration media while enhancing overall cartridge performance. Cartridge ends have been immersed in vinyl plastisol, creating a unitized end cap and gasket which virtually eliminates by-pass.

Specifications

Type:	Pleated Bi-Component Polypropylene
Construction:	Bi-Component Polypropylene Media Vinyl Plastisol End Caps Polypropylene Core Polypropylene Outer Netting
Operating Temperature Range:	40ºF (4.4ºC) to 145ºF (63ºC)
Micron Rating:	Nominal 1, 5, 10, 20, 30, 50

Dimensions:	Max. Recommended Flow Rates:
2 -3/4" Ø X 9 3/4", 10" long	4-7 GPM
2 -3/4" Ø X 19 1/2", 20" long	8-14 GPM
2 -3/4" Ø X 30" long	12-21 GPM
2 -3/4" Ø X 40" long	16-28 GPM

Nomenclature

PP | 1 | X | 10 | BB

Filter Media
PP- Polypro

Micron Rating
1
5
10
20
30
50

Length
9 3/4"
10"
19 1/2"
20"
30"
40"

Tube O.D.
All filters are standard 2 5/8" O.D. unless otherwise specified

Custom sizes and end cap configuration available. Consult factory.

Warning: • Filter is ideal for filtering out taste, color, and odor particles. But may not be suitable where water is microbiologically unsafe or with unknown quality without adequate disinfection before or after the system.

Note: • It is recommended that you run the tap for 20 seconds prior to using the water for drinking or cooking purposes.

MEMBER OF WATER QUALITY ASSOCIATION

PLEATED CELLULOSE

Series C cellulose cartridges are designed for general water filtration purposes. They are economical, yet highly effective, at reducing sediment particulates down to nominal 1 micron in size.

The pleated corrugated media provides increased surface area and strength, which results in extended life. End caps are fused to the cellulose media preventing bypass and forming a gasket sealing area.

Specifications

Type:	Pleated Cellulose
Construction:	Resin Impregnated Cellulose Media Vinyl Plastisol End Caps Polypropylene Core
Operating Temperature Range:	40ºF (4.4ºC) to 145ºF (63ºC)
Micron Rating:	Nominal 1, 5, 10, 20

Dimensions:	Max. Recommended Flow Rates:
2 5/8” dia. X 9 3/4”, 10” long	5-7 GPM
2 5/8” dia. X 19 1/2”, 20” long	10-14 GPM
2 5/8” dia. X 30” long	15-21 GPM
2 5/8” dia. X 40” long	20-28 GPM
4 1/2” dia. X 9 3/4” long	10-15 GPM
4 1/2” dia. X 20” long	20-30 GPM

Nomenclature

C	1	X	10	BB
Filter Media	Micron Rating		Length	Tube O.D.
C-Cellulose	1		9 3/4”	All filters are standard 2 5/8” O.D. unless otherwise specified
	5		10”	
	20		19 1/2”	
			20”	BB - 4 1/2”
			30”	
			40”	

Custom sizes and end cap configuration available. Consult factory.

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