

PLEATED POLYPROPYLENE FILTERS (PP SERIES)

PP Series 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, alkalis, plating solutions, water remediation, and saline solutions. The cartridge filters employ a five 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 with distinct dot patterns is employed on the outer three layers to serve as a pre-filter 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 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 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 bypass.



★ OVERVIEW

- **Type:** Pleated Bi-Component Polypropylene
- **Construction:**
 - Vinyl Plastisol End Caps
 - Bi-Component Polypropylene Media
 - Polypropylene Outer Netting
- **Operating Temperature Range:** 40 °F (4.4 °C) to 145 °F (63 °C)
- **Micron Rating:**
 - Nominal: 1, 5, 10, 20, 30, 50, 100
 - Absolute: 0.35, 0.5

★ 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

★ SPECIFICATIONS

DIMENSIONS	MAX. 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
4-1/2" Ø x 9-3/4", 10" long	10–15 GPM
4-1/2" Ø x 19-1/2", 20" long	20–30 GPM
4-1/2" Ø x 30" long	25–35 GPM

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: All raw material used in the manufacture of United Filters International products is compliant with RoHS III, REACH197, and California Proposition 65. All are FDA Food and Beverage grade; many are NSF 42 and or NSF 61 approved. It is recommended that you run the tap for 20 seconds prior to using the water for drinking or cooking purposes.

