

IONPRO CPTM

Positive Charged PP Filters



INDUSTRIES & APPLICATIONS



Pharmaceuticals: Endotoxin reduction



Electronics: Process chemicals, Photoresists, Ultrapure water, Rinse solutions



Chemicals: Acids, Bases, Solvents

IONPRO CP[™] is a positive charged polypropylene filter designed for a removal of negative charged organic agglomerates and endotoxin from ultrapure water and some organic solvents.

IONPRO CP^{TM} is composed of very thin fibrous filter media multi layered, proving for removal of negative charged organic contaminations and endotoxin with extended filter life.

IONPRO CP[™] filter is available in both removal of metallic ions and particles with absolute micron ratings at the specified retention ratings.

FEATURES & BENEFITS

- High surface area provides reliable and extended metallic ion contamination removal
- Capsule filter types simplify installation and change out with minimizing contamination of the process and downtime
- High capacity reduces processing time and maintenance cost
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- Available in a wide range of end styles and filter types

TECHNICAL DATA

Nominal Dimensions

Cartridge 68Ø

· Length: 250, 500 mm · Inner Diameter: 30 mm · Outer Diameter: 68 mm

CAPI

· Length: 143, 216 mm

· Outer Diameter: 71 mm / 73 mm

CAP II

· Length: 203, 212 mm · Outer Diameter: 97 mm



Outer Diameter: 68 mm

Capsule series CAP I and CAP II





* For details, see the Appendix II - Capsule Filter Types

Materials of Construction

Charged Media
Filtration Media
Support Media
Inner Core
Outer Cage
End Caps
Shell
Polypropylene
Polypropylene
Polypropylene
Polypropylene
Polypropylene

· O-rings / Gaskets Silicone, EPDM, Viton, TEV

Max. Operating Temperature

60°C (140°F)

Max. Operating Forward Differential Pressure

4 bard (58.0 psid) at 20 °C

3 bard (43.5 psid) at 40 °C

2 bard (29.0 psid) at 60 °C

1 bard (14.5 psid) at 80 °C

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Recommended Change Out Differential Pressure

2 bard (29.0 psid)

Endotoxin

Meet the requirements of the USP <85> LAL Test, $\leq 0.25 \text{EU/ml}$

Pre-Flush

Pre-flushed with 18 MΩ UPW at 10LPM for 5min

Nominal Pore Sizes

 $0.45, 1 \, \mu \text{m}$

99.98% (β-Ratio 5000) in accordance with modified ASTM F-795-88 (Single pass, constant flow of 10LPM/10° cartridge, ISO standard dust A3 in water)

TOC (Total Organic Carbon)

Meet the requirements of the USP <643> TOC, <500ppb

Filtration Area

· Cartridge 68Ø: 0.58 ㎡ / 10 inch · CAP I: 0.11 ㎡ / unit

 \cdot CAP II: 1.22 m^2 / unit

Food Contact Compliance

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR 177

Conductivity

Meet the requirements of the USP <645> Conductivity, <1.3uS/cm

Biological Safety

All materials of construction are conform to the relevant requirements of USP <88> Class VI-121°C, plastics

NVR (Non-Volatile Residue)

Meet the requirements of the USP <661> NVR, <15 mg $\,$

Particle Releasing

Meet the requirements of USP<788> Particulate matter, ≤ 25particles/ml at 10um, ≤ 3particles/ml at 25um

Autoclave Sterilization

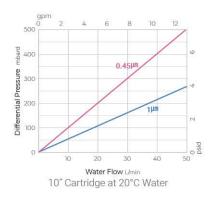
Can be repeatedly autoclaved up to 10cycles of 30minutes at 121°C

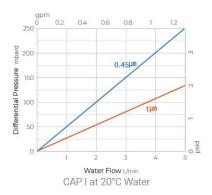
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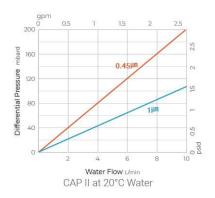


TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP







ORDERING INFORMATION





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