



# IONPRO CN™

Negative Charged PP Filters



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Photoresists, Ultrapure water, Rinse solutions
-  **Chemicals** : Acids, Bases, Solvents

IONPRO CN™ is a negative charged polypropylene filter designed for a removal of metallic ion contaminations from ultrapure water and some organic solvents.

IONPRO CN™ is composed of very thin fibrous filter media multi layered, proving for removal of low level of most cationic metal ions with extended filter life.

IONPRO CN™ 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 : 200, 500 mm
- Inner Diameter : 30 mm
- Outer Diameter : 68 mm

### CAP I

- Length : 143, 216 mm
- Outer Diameter : 71 mm / 73 mm

### CAP II

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



### Capsule series CAP I and CAP II



\* For details, see the Appendix II – Capsule Filter Types

### Materials of Construction

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

### Recommended Change Out Differential Pressure

2 bard (29.0 psid)

### Nominal Pore Sizes

0.45, 1 µm  
 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)

### Pre-Flush

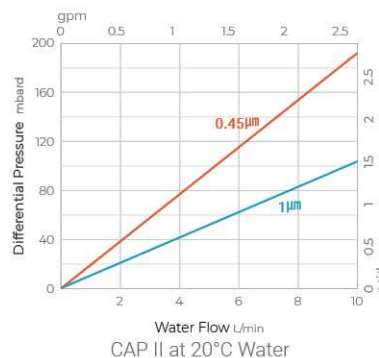
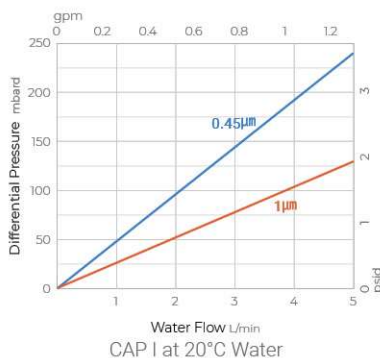
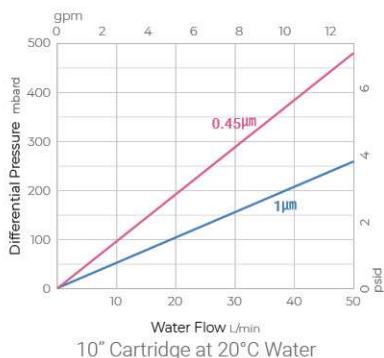
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

### Filtration Area

- **Cartridge 68Ø** : 0.58 m<sup>2</sup> / 10 inch
- **CAP I** : 0.11 m<sup>2</sup> / unit
- **CAP II** : 1.22 m<sup>2</sup> / unit

## TYPICAL CLEAN WATER FLOW

### CARTRIDGE & CAP



## ORDERING INFORMATION

### CARTRIDGES

①	②	③	④	⑤	⑥	⑦
ICN	P45	C3	P	S	11	F
	MICRON RATING	END STYLE	HARDWARE	SEALS	LENGTH	OPTION
	P45 : 0.45µm 001 : 1µm	C1 : DOE C2 : 226Lock/FLAT C3 : c222/cFLAT E3 : 222/FLAT C7 : 226Lock/FIN E8 : 222/FIN	P : PP E : HDPE	S : Silicone E : EPDM V : Viton F : TEV	10 : 250mm 20 : 500mm 1E : 254mm 2E : 508mm	Blank : Standard F : UPW Flush

### CAPSULE SERIES

①	②	③	④	⑤	⑥	⑦																																					
C1	ICN	001	S6	P	S	1S	F																																				
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