



ABSMIR CT™

Charged UHMWPE Membrane Filters for the Electronics / Triple Layers



INDUSTRIES & APPLICATIONS

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

ABSMIR CT™ is a charged UHMWPE(Ultra High Molecular Weight Polyethylene) membrane filter designed for retention of both particulate matters and metal ions from aggressive chemicals including acids, bases, solvents and photoresists in the electronic industries.

ABSMIR CT™ is composed of 3 layers of UPE membrane, which provides reliable and consistent metal ion removal with high capacity and exceptional filter life.

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
- 100% UPW flushed and integrity tested
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- Available in a wide range of end styles and micron ratings

TECHNICAL DATA

Nominal Dimensions

- Cartridge 68Ø**
- Length : 250, 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

- **Filtration Media** UHMWPE
- **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

0.05, 0.1, 0.2, 0.45, 1 µm

Ion Exchange Capacity

- **Cartridge 68Ø** : > 80meq / 10 inch
- **CAP I** : > 18meq / unit
- **CAP II** : > 40meq / unit

Pre-Flush

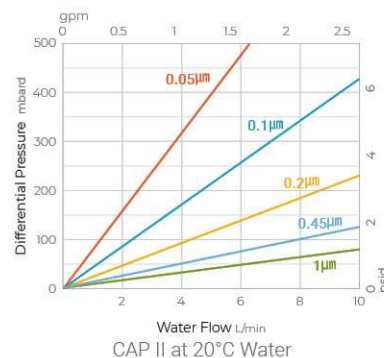
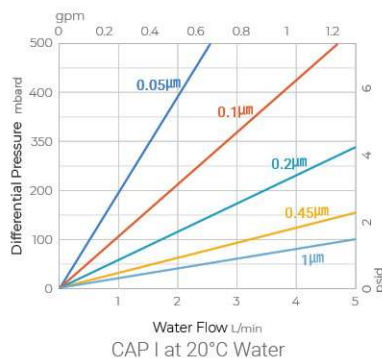
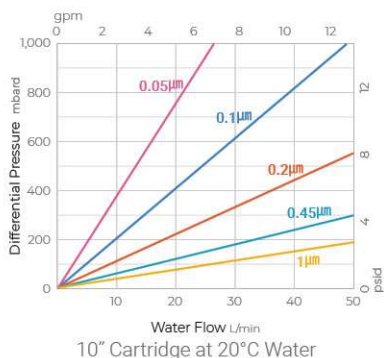
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

Filtration Area

- **Cartridge 68Ø** : 0.55 m² / 10 inch
- **CAP I** : 0.11 m² / unit
- **CAP II** : 0.28 m² / unit

TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP



ORDERING INFORMATION

CARTRIDGES

①	②	③	④	⑤	⑥
MCT	001	C1	P	S	10
MICRON RATING		END STYLE	HARDWARE	SEALS	LENGTH
P05 : 0.05µm P10 : 0.1µm P20 : 0.2µm 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

CAPSULE SERIES

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