



MTEC-E

Pleated Polyethersulfone Membrane Cartridge Filters

- Manufactured, flushed, tested and packaged, in an ISO Class 7 Cleanroom Environment.
- Available in a variety of end cap/adaptor configurations

Ideal for post-filtration of ultra pure water in a variety of micro-electronics applications.



SUITABLE USES



Electronics

ADDITIONAL FEATURES

Pleated 2.7" OD element with exceptional dirt holding capabilities.

Micron ratings from 0.03µm to 0.45µm.

100% flushed with 18 MΩ -cm DI water and integrity tested.

Steamable/sanitizable for cleaning and reuse.

Pore size, lot and serial number are stamped on each filter for identification and traceability.

INTEGRITY TEST SPECIFICATIONS

Maximum diffusive air flow (per 10-inch cartridge) values for MTec-E filters wet with water:

0.03 µm | ≤ 50 cc/min @ 45 psig (3.1 bar)

0.1 µm | ≤ 50 cc/min @ 40 psig (2.8 bar)

0.2 µm | ≤ 35 cc/min @ 30 psig (2.1 bar)

0.45 µm | ≤ 35 cc/min @ 20 psig (1.4 bar)

*For more information, please contact
info@fil-trek.com or visit Fil-Trek.com*

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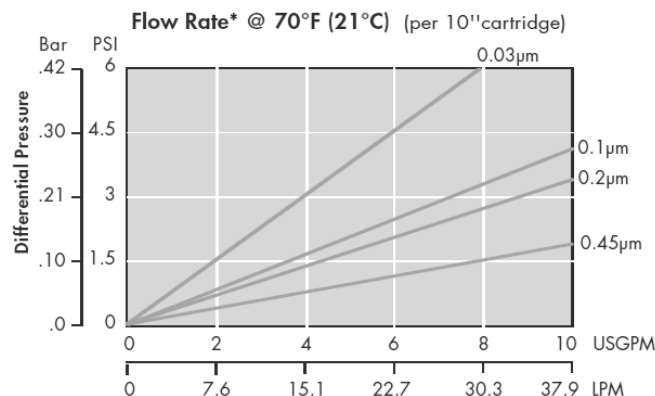
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STANDARD SPECIFICATIONS

MAX. DIFFERENTIAL PRESSURE	60 PSID (4.14 bar) @ 80°F (27°C) 30 PSID (2.07 bar) @ 160°F (71°C) 15 PSID (1.03 bar) @ 200°F (93.3°C)
MAX. REVERSE DIFFERENTIAL PRESSURE	40 PSID (2.8 bar) @ 70°F (21°C)
REC. CHANGE OUT PRESSURE	35 PSID (2.4 bar)
DIMENSIONS	
Outside Diameter	2.7" (6.9 cm)
Inside Diameter	1.0" (2.54 cm)
Available Lengths	10" 20", 30", 40" (25.4 cm, 50.8 cm, 76.2cm, 101.6 cm)
Surface Area	7.6 ft ² (0.7 m ²) per 10" length
MEDIA	Asymmetric Polyethersulfone membrane
INNER CORE, END CAPS, CAGE	Polypropylene
SUPPORT LAYERS	Spunbonded Polypropylene
GASKETS/O-RINGS	Buna-N, EPDM, Silicone, Viton, Teflon encap. Viton
MICRON RATINGS	0.03, 0.1, 0.2, 0.45

FLOW RATE



HOT DI WATER

Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.

CLEANING/SANITIZATION

Compatible with most common chemical cleaning, sanitizing and Sterilizing agents and with pH range from 1-14. Consult factory for specific compatibility information.

RINSE-UP VOLUMES

- Resistivity rinse-up to 18 MΩ-cm: <30 minutes at a flow of 3 gpm per 10-inch element.
- Rinse-up to single digit ppb TOC in <120 minutes at a flow of 3 gpm per 10-inch element.

PRODUCT NOMENCLATURE

MTEC-E	0.45	30	E2	VI
MTEC-E SERIES	MICRON	LENGTH	END CAP	O-RING/GASKET
	0.03 0.1 0.2 0.45	10 20 30 40	E2 - DOE w / Gaskets E4 - 222 / Flat Single Open End E5 - 222 / Fin Single Open End E6 - 226 / Flat Single Open End E7 - 226 / Fin Single Open End E14 - SOE w / Internal O-ring	BN - Buna-N EP - EPDM SI - Silicone VI - Viton TEV - Teflon encap. Viton*
				*O-rings only



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For more information, e-mail: info@fil-trek.com or visit Fil-Trek.com