Clariflow®-E

Hydrophilic PES membrane cartridges for aqueous applications

Clariflow® -E cartridges are optimized for use in microelectronics applications such as DI water and aqueous-based chemicals. The unique mirrored-anisotropic PES (Polyethersulfone) membrane has exceptionally high flow rates and on-stream lifetime while providing consistent removal of both organic and inorganic particulates.

The combination of hydrophilic PES membrane and a high-purity, all-polypropylene support structure results in a very low level of ionic and organic extractables, broad chemical compatibility, and resistance to particle shedding.

Every cartridge is fabricated in a clean room environment, pre-flushed with 18 megohm-cm ultrapure DI water, and 100% integrity tested in an ISO-certified facility.



Contact Information

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Benefits

- High-retention hydrophilic membrane
- High flow rate
- Broad chemical compatibility for multiple applications
- Long on-stream life
- 100% integrity tested

Applications

- BOE
- Dilute HF
- POU DI rinse
- Bulk DI water systems
- Copper plating
- Ni plating
- Hard disk wash processes
- · Other dilute acids and bases



Clariflow®-E

SPECIFICATIONS

Materials of Construction

Membrane: Polyethersulfone Polypropylene Support layers: Structure: Polypropylene

All components are thermally bonded to ensure

integrity and minimize extractables.

Effective Filtration Area

6.8ft²(0.63m²) per 10" (250mm) cartridges

Maximum Differential Pressure/Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)

40psid (2.8bar) @ 180°F (82°C)

Reverse: 50psid (3.4bar) @ 75°F (24°C)

Cleanliness (particle shedding)

Dry-packed: <1 particles/ml >0.2µm

after 6gal @ 1gpm

Data as from open bag and installed, no additional installation flushing.

Resistivity Rinse-up

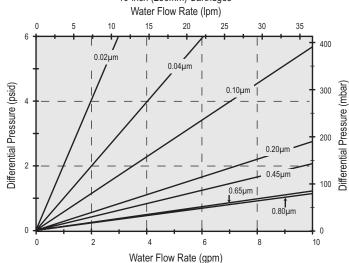
Resistivity rinse-up to background minus 0.2megohm-cm of feed after 20gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.02	0.5	2.75
0.04	1.0	5.49
0.1	1.8	9.88
0.2	3.7	20
0.45	4.8	26
0.65	8.9	49
0.8	9.5	52

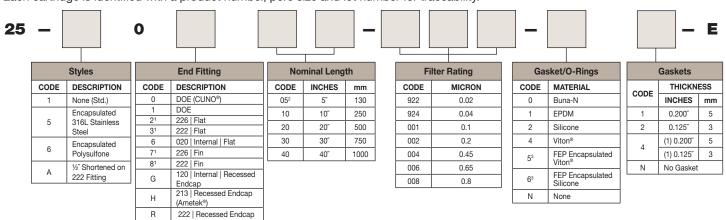
^{*} Per 10-inch (250mm) cartridge equivalent.

10-inch (250mm) Cartridges



Ordering Information

Each cartridge is identified with a product number, pore size and lot number for traceability.



¹ 5" cartridges are available in these configurations.

Specifications are subject to change without notification. For User Responsibility Statement, see www.parker.com/safety Clariflow is a registered trademark of Parker-Hannifin Corporation Vilton is a registered trademark of E.I. DuPont de Nemours & Co., Inc. Cuno is a registered trademark of Cuno Inc.



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DS ME Clariflow-E Rev. A

² 5" cartridges are available in 0.04 through 0.8 µm ratings.

³ O-rings only.