Industrial filtration

LifeASSURE EPF filter cartridges

Polyethersulfone membrane filter cartridges

Thermo Scientific™ LifeASSURE™ EPF Filter Cartridges have been designed to provide fast rinse-up time and flow rates with low pressure drop for process water, ultrapure water, critical parts cleaning and aqueous based chemical applications. The hydrophilic PES membrane with polypropylene hardware construction provides excellent chemical and thermal compatibility.

LifeASSURE EPF filter cartridges are ideally suited for critical applications requiring high particle retention, and high flow rates.



Features and benefits

Hydrophilic PES membrane

- The high flow rate increases the rate of re-circulation which allows particle counts to be achieved more rapidly
- No IPA pre-wetting and system flushing required – eliminates a potential source of contamination while reducing downtime, energy use and hazardous waste disposal
- Reduces the potential for micro-bubble formation by not de-wetting in outgassing fluids unlike hydrophobic membranes

Superior filter construction

- Excellent compatibility with wide range of chemicals
- Provides consistent performance throughout filter life
- Low cartridge extractables
- Free of amides, silicone and flushed with 18 Mohm UPW prior to packaging

Applications

- Process water
- Ultrapure water (UPW)
- Aqueous cleaning chemistry
- Aqueous-based chemicals
- Hot UPW up to 176ºF (80ºC)
- Solvent cleaning
- CMP slurry

Operating parameters and specifications

Cartridge component	Materials of construction
Filtraton ratings	0.04, 0.1, 0.2, 0.45, 0.65 and 1.2 µm
Cartridge length (nominal)	10 in (254 mm), 20 in (508 mm), 30 in (762 mm), 40 in (1,016 mm)
Filtration surface area (per 10-inch cartridge)	8.6 ft^2 (0.8 m^2)
Outside diameter (nominal)	2.7 in (69 mm)
Membrane material	Hydrophilic PES
Cage, core, end caps, membrane support layer	Polypropylene

Operating parameters	Specification
Maximum operating temperature	176°F (80°C)
Maximum differential pressure	60 psid @ 77°F (413.7 kPa @ 25°C) 25 psid @ 176°F (172.4 kPa @ 80°C)

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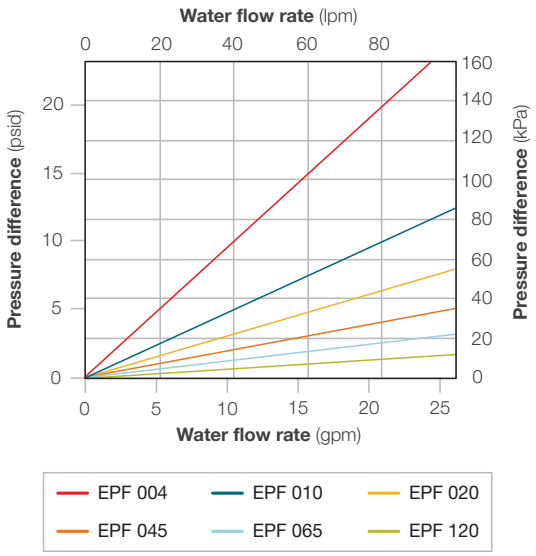


Figure 1. LifeASSURE EPF filter cartridges 10-inch cartridge typical water flow rates

LifeASSURE EPF filter cartridges ordering guide

Cartridge type	Grade code	Grade rating (µm)	Configuration	Length (inches)	End modification	Gasket/O-ring material	Option
EPF	004 010 020 045 065 120	0.04 0.10 0.20 0.45 0.65 1.20	A	01 / 10 in 02 / 20 in 03 / 30 in 04 / 40 in	B - 226 O-ring & spear C - 222 O-ring & spear D - Double open end (10-inch length) E - Double open end (9.75-inch length) U - 222 O-ring & flat cap	A - Silicone B - Fluorocarbon C - EPR D - Nitrile[1] K - PTFE[2]	S - Standard P - Pre-flushed R - Pre-rinsed PJ - Pre-flushand integrity tested SJ - Standardand integrity tested

[1]Available for C End modification only.

[2]Available for B and C End modifications only.

47 mm discs available for lab evaluation.

Please consult with your Thermo Fisher Scientific representative to determine the appropriate part number for your application.

Intend Use: LifeASSURE EPF filter cartridge products are intended for use in industrial, chemical and electronics filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and where materials of construction are compatible.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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LifeASSURE EPF filter cartridge products are not for use in food contact applications.

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