

LiquiPro™ F3

Hydrophobic PTFE Membrane Filters



LiquiPro™ F3 is recommended for a wide range of chemical filtration. LiquiPro™ F3 series filters have enhanced cleanliness and are made of Hydrophobic PTFE membrane for high chemical inertness. Suitable for strong acidic and base solutions.

Features and Benefits

- Enhanced cleanliness from cleanroom manufacturing, cleaning technologies with on-line process QC monitoring and class 100 cleanroom packaging to achieve a cleanliness level previously only achievable with all-Teflon filters.
- Optimised high-porosity, uniform pore-size distribution, large filtration area, low pressure-drop, high flow rate and long service life.
- Hydrophobic filter cartridges made with a thermal bonded PTFE membrane, with virgin grade polypropylene support and hardware without adhesives or binders.
- Certificate of quality enclosed with each product lot for quality assurance that ensures filter-to-filter, lot-to-lot performance.
- Fast rinse up time of UHP and E-Grade filters, which has been pre-flushed with UP DI water (18.2 Megaohm-cm, TOC <100 ppb).

Typical Applications

- Advanced wafer bumping, ultra-high-purity chemical manufacturing and OEM using ultra high-purity strong acidic solution and base solutions filtration.
- Solvent, photo chemical and DI water filtration.
- Hot DI Water $\leq 80^{\circ}\text{C}$ for facility or cleaning bath in semiconductor wafer fabs.
- Etch chemical applications in TFT-LCD and data storage manufacturing.
- Stripper filtration application.
- Electroless copper plating solutions.

Performance Specifications

Pore size rating

0.05, 0.1, 0.2, 0.45, 1, 3, 5, 10 μm

Maximum differential pressure:

1.37 bard (19.91psid) @ 90°C (194°F)

5.49 bard (79.65 psid) @ 20°C (68°F)

Materials of construction

Filter media: Polytetrafluoroethylene (PTFE)
Hydrophobic membrane

Support: Virgin grade polypropylene

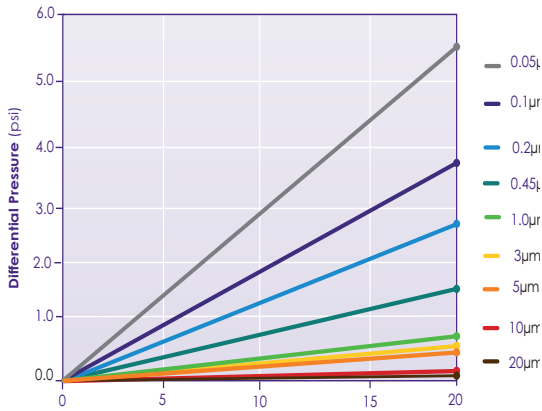
End caps: Polypropylene

Core, cage: Polypropylene

O-rings: FEP Encapsulated Silicone, FFKM,
E-FKM

Gaskets: PTFE (DOE only)

Flow Rates: LiquiPro™ F3 (FC) Series



*Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Dimensions FC / FCX

Diameter	Code A	Code M
5in	Code A = 123 mm +/- 2	
10in	Code A = 266 mm +/- 2	Code M = 254mm +/- 2 default. Customer to specify length
20in	Code A = 506 mm +/- 4	Code M = 508mm +/- 2 default. Customer to specify length
30in	Code A = 750 mm +/- 4	

Ordering Information

To form a part number, please choose one option from each column below.

Product Code: **1** **2** **3** **4** **5** **6** **7** **8** **FC005AGE05K**

Product Name	Micron Rating	Adaptor code	Seals	Cleanliness	Length	Key Option	Packaging Option
FC LiquiPro F3 (70mm OD)	005 0.05µm	A 222 / flat	G FEP Encap Silicone	E E-Grade High Purity TOC<50ppb	05 5"	K EZ Key compatible to use with ChemLock® cartridge housing	- Standard Dry
	010 0.1µm	B 226 / fin	K FFKM	U Ultra High Purity (< 40ppb)	10 10"		W pre-wetted
	020 0.2µm	C 222 / fin	T E-FKM		20 20"		
	045 0.45µm	K 226 / flat	J PTFE Gasket (Code M)		30 30"		
	100 1µm	M DOE					
	300 3µm						
	500 5µm						
	1000 10µm						

Product Code: **1** **2** **3** **4** **5** **6** **7** **8** **FCX005AGE10K**

Product Name	Micron Rating	Adaptor code	Seals	Cleanliness	Length	Key Option	Packaging Option
FCX LiquiPro F3 (83mm OD)	005 0.05µm	A 222 / flat	G FEP Encap Silicone	E E-Grade High Purity TOC<50ppb	10 10"	K EZ Key compatible to use with ChemLock® cartridge housing	- Standard Dry
	010 0.1µm		K FFKM	U Ultra High Purity Metal(< 40ppb)			W pre-wetted
	020 0.2µm		T E-FKM				
	045 0.45µm						
	100 1µm						
	300 3µm						
	1000 10µm						