

# LiquiPro™ F2

All-PTFE Filters



**LiquiPro™ F2 are superior pleated PTFE membrane filters with PFA support for chemical inertness across a broad range of microelectronics process chemical applications.**

Final assembly is purged with filtered nitrogen for initial cleanliness. A variety of end fittings are offered for easy installation.

Superior advanced duo-retention filtration mechanisms for dilute HF and BOE cleaning applications.

## Features and Benefits

- Optimised 80-95% porosity, uniform pore size distribution and filtration area with low pressure drop, high flow rate and long service life.
- Manufactured without the use of additives, surface modification agents or post-treatments, to ensure purity performance is not compromised.
- Certificate of quality enclosed with each product lot for quality assurance that ensures filter-to-filter and lot-to-lot performance.
- High purity application filters manufactured in a clean room environment.
- Fast rinse-up time as filters has been pre-flushed with Ultrapure DI water (18.2 Megaohm-cm, TOC less than 50 ppb).

## Typical Applications

- Chemical delivery system filtration of strong acid and base solution at room temperature for semiconductor manufacturing.
- Solvent filtration.
- Aggressive chemical processes in the photovoltaic and data storage industries.

## Performance Specifications

### Pore size rating

0.05, 0.1, 0.2, 0.45, 1, 5, 10 µm

### Maximum differential pressure:

5.0 bar (72.5 psid) @ 25°C (68°F)  
2.0 bar (29 psid) @ 120°C (248°F)

### Compatibility and purity

Filters do not use any binders, surfactants and adhesives for broad usage compatibilities. Only 100% high purity virgin polypropylene is used.

### Materials of construction

Filter media: PTFE hydrophilic membrane  
Support: PFA  
End caps, core, cage: PFA  
O-rings: EPDM, FKM, E-FKM

### AT Cartridge Dimension

67mm (2.6") diameter and 10" nominal length.

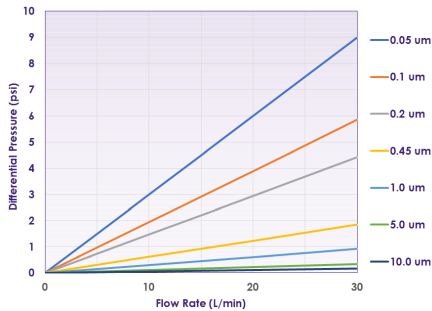
### Metallic Cleanliness

<25µg per device. Ultra-High-Purity.

### Maximum operating temperature

180°C (356°F) at the above conditions.

**Flow Rates: LiquiPro™ F2 AT series Flow dP**



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

**Ordering Information**

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

Product Name	Micron Rating	Adaptor Code	Seals	Cleanliness	Length	Key Option	Packing Option
FL : LiquiPro™ F2	005: 0.05 μm	A : 222/flat	T: E-FKM	B: Bump / strip TOC<50ppb	04: 4in	- : N/A	- : Standard Dry
	010: 0.1 μm	K: 226/flat†	K: F-FKM	U: Ultra high purity** <25ppb	10: 10in		W: Pre-wetted
	020: 0.2 μm	V: 226/fin†		M: Ultra low metal* <10ppb	20: 20in		
	045: 0.45 μm	M: DOE†			30: 30in		
	100: 1 μm						
	500: 5 μm						
	1000: 10 μm						

†: Non-standard request. Request technical service. May have longer lead time.

Diameter	Code-A	Code-V	Code-M	Code-K
4inch	A:102.0 mm +/-2 B:115.5 mm +/-2 C:125.5 mm +/-2			A:102.0 mm +/-2 B:115.5 mm +/-2 C:134.0 mm +/-2
10inch	A:239.5 mm +/-2 B:249.0 mm +/-2 C:263.0 mm +/-2	A:236.5 mm +/-2 C:373.5 mm +/-4	A:236.0 mm +/-2 C:243.5 mm +/-2	A:239.5 mm +/-2 B:249.0 mm +/-2 C:271.6 mm +/-2
20inch	A:466.0 mm +/-3 B:475.5 mm +/-3 C:489.5 mm +/-3	A:309.5 mm +/-2 C:546.5 mm +/-4	A:473.0 mm +/-3 C:481.0 mm +/-3	A:466.0 mm +/-3 B:475.5 mm +/-3 C:498.1 mm +/-3
30inch	A:714.0 mm +/-4.5 B:723.5 mm +/-4.5 C:737.5 mm +/-4.5		A:711.0 mm +/-4 C:718.0 mm +/-4	A:714.5 mm +/-4.5 B:723.5 mm +/-4.5 C:746.1 mm +/-4.5