# Fluoroflow®-XL

Highest-performance all-fluoropolymer cartridge for aggressive applications

The Fluoroflow®-XL filter cartridge is setting the new standard for exceptional flow rates and on-stream life. It utilizes a larger diameter cartridge (3.25") combined with our unique SELECT pleating technology that increases filtration area and flow rate by over 70%. This results in increased bath turnover and longer filter lifetime demanded by today's advanced 300mm fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180 °C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



## **Contact Information**

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## **Benefits**

- Extra large filtration area for longer life
- Highest flow rates for maximum bath turn over
- Wet-pack option for quick installation
- Ultraclean option for absolute cleanliness
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality

## **Applications**

- · Wet etch and clean
  - Phosphoric acid
  - Sulfuric acid
  - Hydrofluoric acid
  - Nitric acid
  - Piranha
  - SC1,SC2
  - NMP-based solvents
- Other high temperature or ozonated processes



# Fluoroflow®-XL

#### **SPECIFICATIONS**

#### **Materials of Construction**

100% Fluoropolymer construct

All components are thermally bonded to ensure integrity and reduce extractables.

# Effective Filtration Area per 10" (250mm) Cartridge

22.5ft² (2.04 m²) 0.03μm 21.5ft² (1.99 m²) 0.05μm 18.5ft² (1.71 m²) 0.10μm

### Metals Extractables\*

Standard: <30ppb (total)
Ultraclean: <7ppb (total)
\*In a 10% HNO<sub>2</sub> extraction

# Maximum Differential Pressure/Temperature

### Forward:

70psid (5.5bar) @ 75°F (24°C) 50psid (3.8bar) @ 167°F (75°C) 30psid (2.0bar) @ 257°F (125°C) 15psid (1.0bar) @ 300°F (150°C)

### Forward HT option:

15psid (1.0bar) @ 356°F (180°C)

#### Reverse:

50psid (3.4bar) @ 75°F (24°C) 15psid (1.0bar) @ 250°F (121°C)

### Cleanliness (particle shedding)

Wet-packed: <2 particles/ml >0.2μm

after 7gal @ 1gpm

<u>Dry-packed:</u> <2 particles/ml >0.2μm

after 12gal @ 1gpm

### TOC/Resistivity Rinse-up (wet-packed)

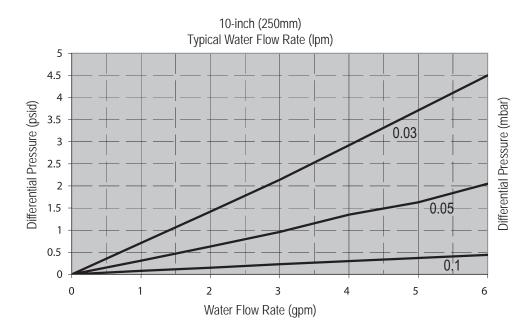
TOC recovery within 3-5ppb of feed without additional rinse-up.

Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm.

#### **Performance Attributes**

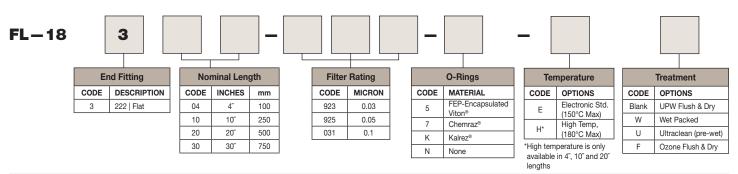
Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.03	1.4	7.7
0.05	3.3	18
0.1	13.0	71

<sup>\*</sup>Per 10" (250mm) cartridge equivalent.



### **Ordering Information**

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



Specifications are subject to change without notification.
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