

# Fluoroflow®-HSA

Increased performance all-fluoropolymer cartridge for aggressive applications

The Fluoroflow®-HSA filter cartridge provides good flow rates and on-stream life. The enhanced pleating provides more than 40% more surface area than our standard Fluoroflow®. This results in increased bath turnover and longer filter lifetime demanded by today's fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. 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

- Increased filtration area for longer life
- Higher flow rates for increased bath turn over
- Wet-pack option for quick installation
- Ultraclean wet-pack option for absolute cleanliness
- All-fluoropolymer for most 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

ENGINEERING YOUR SUCCESS.

# Fluoroflow®-HSA

## SPECIFICATIONS

### Materials of Construction

100% Fluoropolymer construction

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

### Effective Filtration Area

4.8ft<sup>2</sup> (0.45 m<sup>2</sup>) 4" (100mm) cartridge  
9.8ft<sup>2</sup> (0.91 m<sup>2</sup>) 10" (250mm) cartridge

### Metals Extractables\*

Standard: <20ppb (total)

Ultraclean: <5ppb (total)

\*In a 10% HNO<sub>3</sub> extraction

### Maximum Differential Pressure/Temperature

#### Forward:

80psid (5.5bar) @ 75°F (24°C)

55psid (3.8bar) @ 167°F (75°C)

30psid (2.0bar) @ 257°F (125°C)

15psid (1.0bar) @ 300°F (150°C)

#### Forward HT option:

100psid (6.8bar) @ 75°F (24°C)

75psid (5.1bar) @ 167°F (75°C)

50psid (3.4bar) @ 257°F (125°C)

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

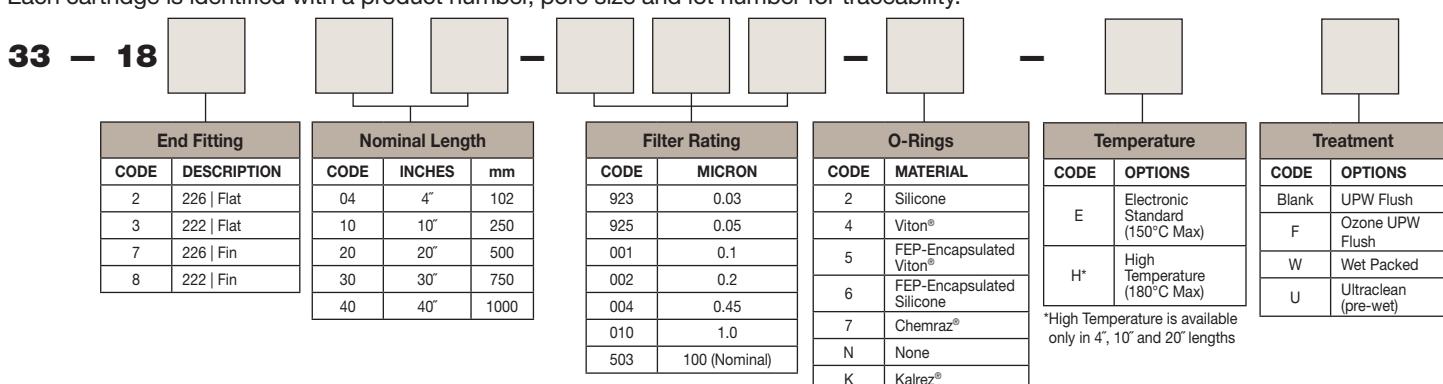
### TOC/Resistivity Rinse-up (wet-packed)

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

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

### Ordering Information

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



Specifications are subject to change without notification.

For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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