



0.2 Micron Fluorocap Capsules

The Fluorocap-SELECT filter capsule provides exceptional flow rates and on-stream life. It utilizes unique SELECT pleating that increases filtration area. This results in increased bath turnover and longer filter lifetime demanded by today's fabs. The **all-fluoropolymer (Teflon)** 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. The ultraclean wet-packed offers the lowest metal extractables in the industry.

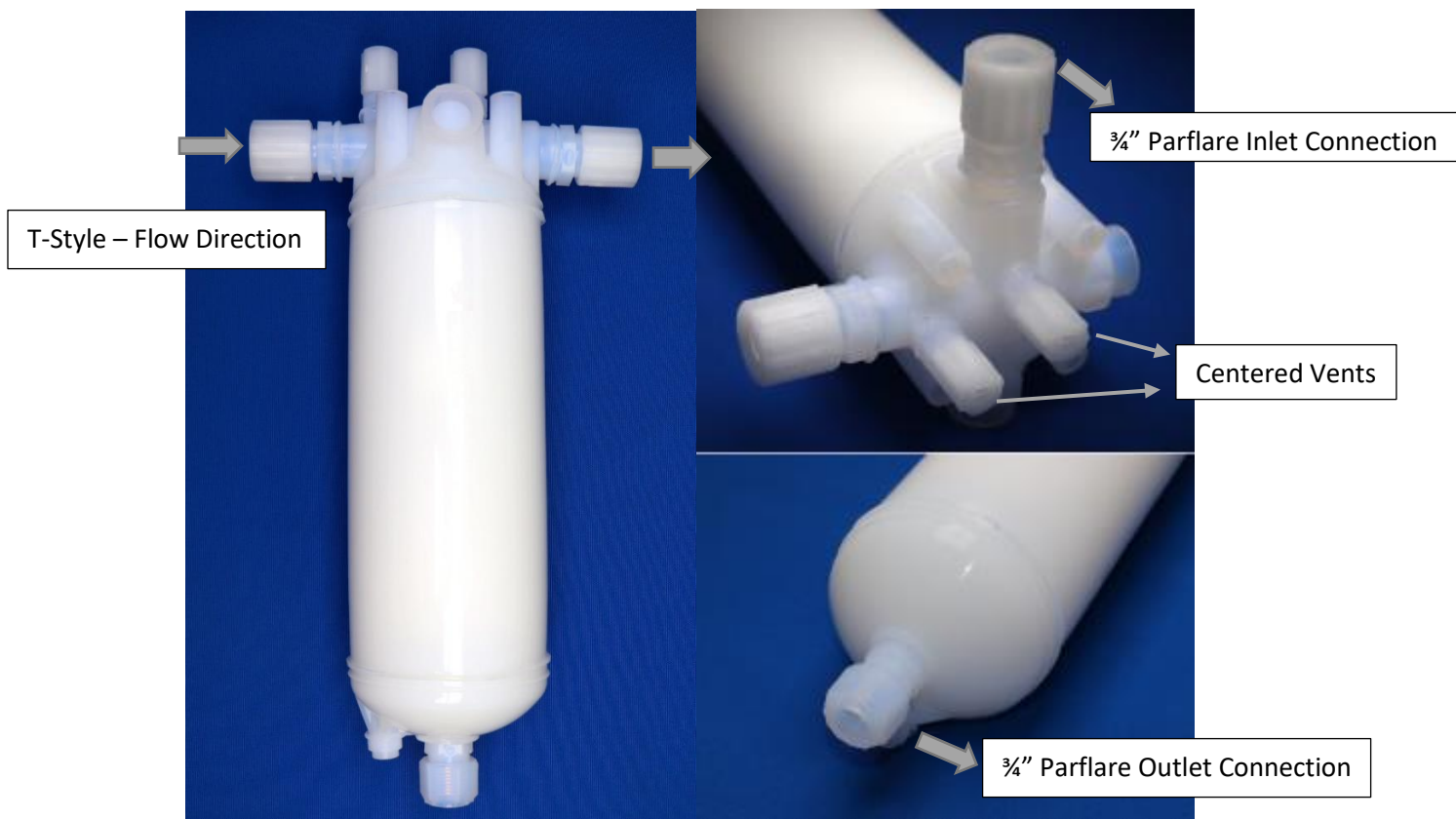
Benefits:

- Large filtration area for longer life
- High 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

Application:

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

Technical Data Sheet





Common Configurations:

Catalog Number	Style	Size	Connection (Inlet/Outlet)
FC-C02CS-002	In - Line	4 – Inch Long	$\frac{3}{8}$ PARFLARE 90°
TC-C12FC-002	T- Style	10 – Inch Long	$\frac{3}{4}$ PARFLARE
LC-C12FC-002	L-Style (Left)	10 – Inch Long	$\frac{3}{4}$ PARFLARE
*Other connections, micron rating and vent O-rings are available upon request			

Material of Construction:

100% Fluoropolymer construction

Media: PTFE

Core: PFA & FEP

All components are thermally bonded to ensure integrity and reduce extractables

Filter Micron Rating:

0.2 Micron

Effective Surface Area:

11.4 ft^2 (10590 cm^2) per 10-inch (250mm) filter length

Volume Filtered:

130L-180L per 10-inch (250mm) filter length

Performance Attributes:

gpm/psid: 4.6

lpm/100mbar: 25

Maximum Operating Differential Pressure:

Forward: 80psid (5.5bar) @ 75°F (24°C)

Standard: 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 (3.4 bar) @ 75°F (24°C)

15psid (1.0 bar) @ 250°F (121°C)

Cleanliness (particle shedding):

Wet-packed: <2 particles/ml>0.2 μ m after 7gal [26.5 liter] @ 1gpm [3.79 lpm]

Metal Extractables:

Standard: <20ppb (total)

Ultraclean: <5ppb (total)

[In a 10% HNO₃ extraction]

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

TOC recovery within 3-5ppb of feed after 12gal [45.42 liters] @ 1gpm [3.79 lpm]

Resistivity recovery within 0.4 megohm-cm of feed after 22gal [83.28 liters] @ 1gpm [3.79 lpm]



Special Configurations:

Micron Rating Options:

- 0.03
- 0.05
- 0.10
- 0.45
- 1.0

Styles Options:

- In-Line
- T-Styles
- L-Styles (Left)
- R-Styles (Right)

Element Length Options:

- 4 – inch [100 mm]
- 10 – inch [250 mm]
- 20 - inch [500 mm]
- 30 – inch [750 mm]

Connection Options:

- $\frac{3}{8}$ " PARFLARE 90°
- $\frac{1}{2}$ " PARFLARE 90°
- $\frac{3}{4}$ " PARFLARE 90°
- $\frac{3}{4}$ " PARFLARE
- $\frac{3}{4}$ " Flarelock
- $\frac{3}{4}$ " MNPT

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