



338

FLUOROFLOW[®]-UC (an Ultraclean product)

Leading the industry for cleanliness in metals extractables



U L T R A C L E A N

Leading the industry in cleanliness, Fluoroflow-UC all-fluoropolymer cartridge filters exceed current standards by offering a less than 5ppb metals extractables level (16 metals, based on data for 10" cartridges). They are specially processed to meet customer needs in critical semiconductor processes such as etching, stripping and cleaning. All Ultraclean products are wet-packed to eliminate lengthy wetting procedures thus maximizing equipment uptime and ensuring superior cleanliness.

BENEFITS

- <5ppb extractables level for 16 metals
- All-fluoropolymer construction provides the highest degree of chemical compatibility
- High flow-rates for smooth process operation
- Manufactured in a certified clean environment

APPLICATIONS

- Semiconductor wet bench and clean
 - Etching
 - Stripping
 - Cleaning
- Aggressive chemical applications

SPECIFICATIONS

Materials of construction

100% Fluoropolymer construction

Effective filtration area

6.8ft² (0.63m²) per nominal 10" (250mm) cartridge

Metals extractables

<5ppb(total) in a 10% HNO₃ extraction of 1.5 liters for 24 hours at ambient temperature

Maximum differential pressure

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)
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 at 1gal/min

TOC/resistivity rinse-up (wet-packed)

TOC recovery within 10ppb of feed after 12gal @ 1gal/min.
Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gal/min.

Integrity test values

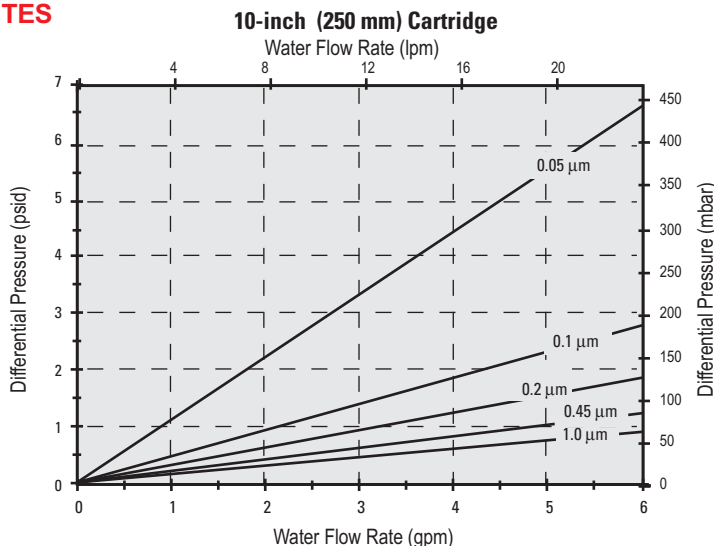
FILTER RATING	BUBBLE POINT*	
	psig	bar
µm		
0.05	>40	2.8
0.1	≥21	1.5
0.2	≥13	0.9
0.45	≥7	0.5
1.0	≥3	0.2

*Tested in 60/40 IPA/water @ 25°C

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PERFORMANCE ATTRIBUTES



ORDERING INFORMATION

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

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End Fitting	
CODE	DESCRIPTION
2	226/Flat
3	222/Flat
7	226/Fin
8	222/Fin

Nominal Length	
CODE	LENGTH
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)

Filter Rating	
CODE	MICRON
925	0.05μm
001	0.1μm
002	0.2μm

O-Rings	
CODE	MATERIAL
2	Silicone
4	Viton [®]
5	FEP-Encapsulated Viton
6	FEP-Encapsulated Silicone
7	Chemraz [®]
D	Kalrez [®]
N	None

TECHNICAL SUPPORT AND PRODUCT ORDERING

domnick hunter Advanced Filtration provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.domnickhunter-af.com or through your nearest domnick hunter Advanced Filtration office.

domnick hunter Advanced Filtration designs and manufactures an extensive line of innovative solutions for specific applications in Biopharmaceutical, Microelectronics, Food and Beverage, Industrial and Chemical industries.

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