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FLUOROFLOW[®]-SELECT-UC (an Ultraclean product)

Leading the industry for cleanliness in metals extractables, flow-rates and throughput



U L T R A C L E A N

Fluoroflow-SELECT-UC cartridges combine SELECT pleat technology with extremely low metals extractables levels (<5ppb for 16 metals based on data for 10" cartridges). They are recommended for sensitive chemical processes requiring high flow-rates and Ultraclean conditions. They are specially designed and developed to meet customer needs in critical semiconductor processes like etching, stripping and cleaning. All Ultraclean products are wet-packed to eliminate a lengthy wetting procedure thus minimizing equipment downtime and ensuring superior cleanliness.

BENEFITS

- <5ppb extractable level for 16 metals
- All-fluoropolymer construction provides the highest degree of chemical compatibility
- SELECT pleat technology with optimized membrane surface area for maximized filter life and flow-rates
- High flow-rates for smooth process operation
- Operating temperature 150°C (up to 180°C)
- 100% integrity tested to ensure quality
- 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

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

Effective filtration area

6.0ft ² (0.56 m ²)	4" (100mm) cartridge
12.2ft ² (1.1 m ²)	10" (250mm) cartridge

Metals extractables

<5ppb (total)	in a 10% HNO ₃ extraction of 1.5 liters for 24 hours at ambient temperature
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Maximum differential pressure/temperature

Forward	100psid (6.8bar) @ 75°F (24°C)
	75psid (5.1bar) @ 167°F (75°C)
	50psid (3.4bar) @ 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 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

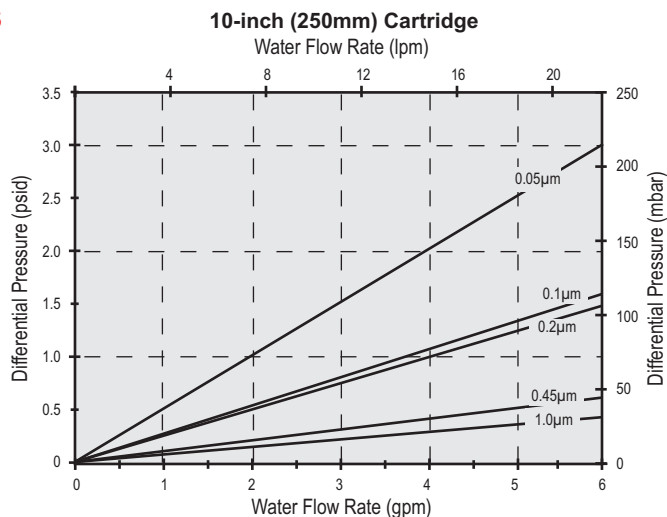
FILTER RATING	BUBBLE POINT*	
	psig	bar
µm		
0.05	>40	2.8
0.1	≥21	1.5
0.2	≥13	0.9
0.45	≥7	0.5
1.0	≥3	0.2

*Tested in 60/40 IPA/water @ 25°C

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PERFORMANCE ATTRIBUTES



*10% loss in flow rate for HT option

ORDERING INFORMATION

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

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End Fitting		Nominal Length		Filter Rating		O-Rings		Options	
CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	TEMPERATURE
2	226/Flat	04	4" (100mm)	925	0.05µm	2	Silicone	E	Electronic Standard (150°C Max)
3	222/Flat	10	10" (250mm)	001	0.1µm	4	Viton [®]	H	High Temperature (180°C Max)
7	226/Fin	20	20" (500mm)	002	0.2µm	5	FEP-Encapsulated Viton		
8	222/Fin	30*	30" (750mm)			6	FEP-Encapsulated Silicone		
						7	Chemraz [®]		
						D	Kalrez [®]		
						N	None		

*HT is not available in 30" length

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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Specifications are subject to change without notification

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*US Patents Pending 4,588,464 and 4,663,041