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FLUOROFLOW[®]-HSA

All-fluoropolymer cartridge for aggressive chemical filtration in high flow-rate applications



Fluoroflow[®]-HSA pleated filter cartridges are recommended for the filtration of aggressive chemical in high flow-rate applications. These cartridges feature an all-fluoropolymer construction: this provides the highest level of fluid purity and process application versatility. Fluoroflow[®]-HSA cartridges are flushed with UPW to minimize extractables. The Fluoroflow[®]-HSA filters offer excellent resistance in aggressive chemical applications.

BENEFITS

- Higher membrane area increases filter life to reduce equipment down time
- Higher flow-rates help increase product yield
- All-fluoropolymer construction provides the highest degree of chemical compatibility
- Operating temperature 150°C (up to 180°C with HT option)
- Ultra low extractable levels minimize defect-causing contamination
- Wet-packed option eliminates lengthy wetting procedure minimizing equipment downtime

APPLICATIONS

- Processes using aggressive chemicals
- High turn over recirculation baths
- Ozonated and/or hot UPW

SPECIFICATIONS

Materials of construction

100% Fluoropolymer construction

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

Effective filtration area

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

Metals extractables

<20ppb (total) in a 10% HNO₃ extraction of 1.5 liters for 24 hours at ambient temperature

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
Dry-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

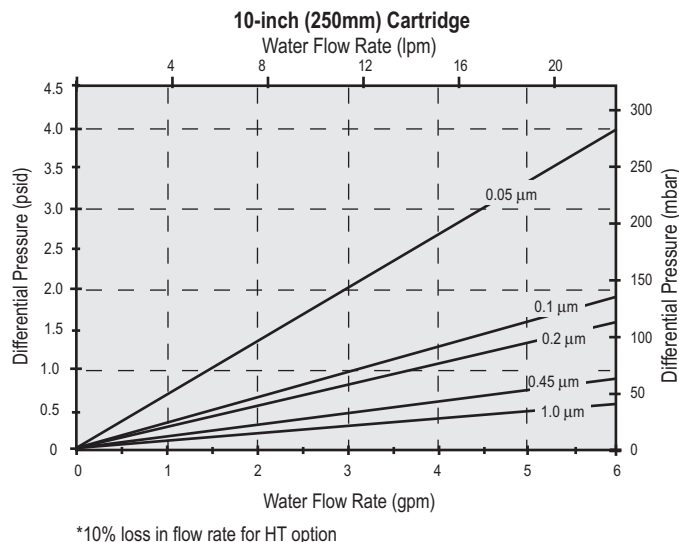
FILTER RATING	BUBBLE POINT*	
	psig	bar
µm		
0.05	>40	2.8
0.1	≥21	1.5
0.2	≥13	0.9
0.45	≥7	0.5
1.0	≥3	0.2

*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		Nominal Length		Filter Rating		O-Rings		Options		Options	
CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	TEMPERATURE	CODE	TREATMENT
2	226/Flat	04	4" (102mm)	925	0.05µm	2	Silicone	E	Electronic Standard (150°C Max)	Blank	UPW Flush
3	222/Flat	10	10" (250mm)	001	0.1µm	4	Viton®	H*	High Temperature (180°C Max)	F	Ozone UPW Flush
7	226/Fin	20	20" (500mm)	002	0.2µm	5	FEP-Encapsulated Viton			W	Wet Packed
8	222/Fin	30	30" (750mm)	004	0.45µm	6	FEP-Encapsulated Silicone				
		40	40" (1000mm)	010	1.0µm	7	Chemraz®				
				503	100 (Nominal)	N	None				

* High Temperature is only available in 4", 10" and 20" lengths

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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