Pall Corporation

Ultipleat® High Flow Series Filter Cartridges

Description

The Ultipleat® High Flow filter is a large-diameter, coreless, single open-ended, pleated cartridge with an inside-to outside flow pattern.

The filter's unique crescent-shaped pleat geometry, combined with its large 6-inch (152.4 mm) diameter and proprietary range of available Pall filter media, allows you to use significantly fewer filters and smaller housings for high flow-rate applications.

Features and Benefits

- Coreless large diameter cartridge, synthetic construction, to minimize waste disposal
- High flow rate per filter cartridge
  - Up to 40 times fewer cartridges to change out
  - Up to 50% smaller filter system possible
- Available in a variety of filter lengths and grades
- Absolute-rated filter medium for reproducible performance
- Features proprietary unique crescent-shaped pleat geometry
- Inside-to-outside flow pattern that traps contaminant inside the element thus preventing polluting the treated water during the cartridge change-out
- Handle for easy cartridge replacement

Materials of Construction

Filter Medium Type	Filter Medium	Support/Drainage Materials	End Caps	Wrap Materials
HDC® II	High-Area Polypropylene Structure	Polypropylene	Glass-Filled Polypropylene	Polypropylene and Polyolefin Hotmelt
Ultipleat® Profile®	Pleated Polypropylene Depth Structure	Polypropylene	Glass-Filled Polypropylene	Polypropylene
Ultipor® GF	Resin Bonded Glass Fiber / Polyester Support	Polyester / Nylon	Glass-Filled Acetal	Polyester and Polyamide Hotmelt
Ultipor® GFK	Resin Bonded Glass Fiber / Polyaramid Support	Polyphenylene Sulfide / Nylon	Glass-Filled Acetal	Nylon and Polyamide Hotmelt
Ultipor® K	Resin Bonded Aramid Based Fibers / Polyaramid Support	Polyphenylene Sulfide	Glass-Filled Acetal	Polyphenylene Sulfide and Polyamide Hotmelt
Ultipleat® CAS	Pleated Polypropylene / Polyether sulfone Membrane	Polypropylene	Glass-Filled Polypropylene	Polypropylene

Operating Conditions[3]

	Polypropylene Medium / CAS Composite Medium	Glass Fiber Medium	Aramid Fiber Medium
Maximum Differential Pressure[1] (normal inside-to-outside flow)	3.44 bar at 82°C 50 psid at 180°F	3.44 bar at 121°C 50 psid at 250°F	3.45 bar at 93°C 50 psid at 200°F[2]

1) For fluids compatible with the filter element at the stated temperature.
2) Filter rated for 93°C / 200°F in water service
3) Maximum temperature in aqueous systems is 60°C / 140°F

Ordering Information/Specifications

Filter Cartridge Part Number: HFU ▲ ● ◆

Code ▲	Filter Dimensions, Inches (nominal)	Suggested Maximum Flow Per Cartridge- US gpm / L/min / MGD of Water
620	6" Diameter x 20" Long	175 / 663 / 0.25
640	6" Diameter x 40" Long	350 / 1325 / 0.5
660	6" Diameter x 60" Long	500 / 1900 / 0.7

Code-Filter O-Ring ◆		Material
H13	(Standard for glass fiber and aramid fiber filters)	Nitrile
H13U[1]		Nitrile U-Cup
J	(Standard for polypropylene filters)	Ethylene Propylene
JU[1]		Ethylene Propylene U-Cup
H4		Silicone
H		Fluorocarbon

[1] U-Cup seal is standard for the 1 micron composite filter

Medium Type	Code ●	Absolute Liquid Removal Rating (Microns) at 99.98% Efficiency by Particle Count[1]	Element Pressure Drop[2] 20 inch length (psid / US gpm) / (mbard/m³/hr)	Element Pressure Drop[2] 40 inch length (psid / US gpm) / (mbard/m³/hr)	Element Pressure Drop[2] 60 inch length (psid / US gpm) / (mbard/m³/hr)
HDC® II Medium	J200	20.0	0.001 / 0.304	0.0005 / 0.152	0.0003 / 0.091
Ultipleat® Profile® Medium	UY020	3.2	0.0108 / 3.278	0.0054 / 1.639	0.0037 / 1.123
	UY045	4.5	0.0046 / 1.396	0.0023 / 0.698	0.0015 / 0.455
	UY100	10.0	0.0034 / 1.032	0.0017 / 0.516	0.0011 / 0.334
	UY200	20.0	0.0024 / 0.728	0.0012 / 0.364	0.0008 / 0.243
	UY400	40.0	0.0014 / 0.556	0.0007 / 0.278	0.0005 / 0.146
	UY1000	100.0	<0.001 / <0.292		
Ultipor® GF Medium	GF020	2.0	0.0022 / 0.668	0.0011 / 0.334	0.0007 / 0.212
	GF100	10.0	0.0016 / 0.486	0.0008 / 0.243	0.0005 / 0.152
	GF200	20.0	0.0012 / 0.364	0.0006 / 0.182	0.0004 / 0.121
Ultipor® GFK Medium	GFK100	10.0	0.0020 / 0.607	0.001 / 0.304	0.0007 / 0.213
Ultipor® K Medium	K200	20.0	0.0031 / 0.941	0.0015 / 0.455	0.001 / 0.304
Ultipleat® CAS Composite Medium	CAS010	1.0	0.0148 / 4.492	0.0074 / 2.246	0.0049 / 1.488

1) The test procedure used is an adaptation of ISO 4572, modified to determine the micron size above which particles are quantitatively removed.
2) Pressure drop in PSID per US gpm for the cartridge length shown. Multiply this value by the total system flow to determine the aqueous pressure drop. Next for fluids other than water, multiply this value by the fluids viscosity at the operating temperature in centipoise. This value is the pressure drop across the Ultipleat High Flow filter(s) only; it must be added to the pressure drop due to the Ultipleat High Flow filter housing.

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