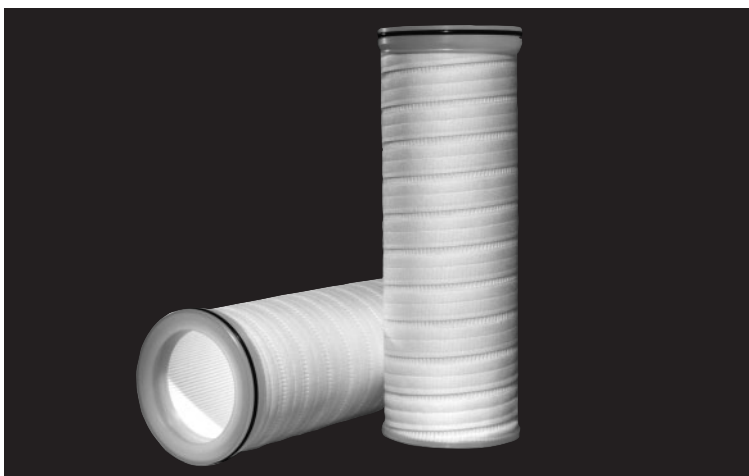


Ultipleat® High Flow Filters



Description

The Ultipleat High Flow filter is suited for applications such as cooling water, pre-RO, and resin trap filtration. It is a large diameter, coreless, single open-ended, pleated cartridge with an inside to outside flow pattern. The filter's patented crescent-shaped pleat geometry, combined with its large 6" / 152 mm diameter, reduces the number of filters and size of housing required. The cartridge is also available in a wide range of Pall media types for other applications.

- Up to 50% smaller filter system possible
- Up to forty times fewer elements to change out
- Very high flow rates per filter cartridge, up to 500 gpm / 114 m³/hr
- Available in 20" / 508 mm, 40" / 1016 mm and 60" / 1524 mm lengths
- Coreless construction to minimize waste disposal
- Absolute rated filter medium for reproducible performance
- Inside to outside flow configuration - all contaminants held within the single open ended filter

Specifications

Materials of Construction

- Filter Medium: Pleated polypropylene depth structure
- Support/Drainage: Polypropylene
- Endcaps: Glass filled polypropylene
- O-ring: Ethylene propylene

Removal Ratings

- 3.2 µm, 4.5 µm, 10 µm, 20 µm, 40 µm, 70 µm, 100 µm

Configuration

- Single open end, 6" / 152 mm diameter filter

Operating Conditions

- Maximum Operating Temperature: 180°F / 82°C
- Maximum Differential Pressure¹ (nominal inside to outside flow): 50 psid at 180°F / 3.4 bar at 82°C

¹ For fluids compatible with the filter element at the stated temperature.

Removal Rating / Pressure Drop

Cartridge Grade	Removal Rating in Microns (μm) at % Efficiency ²		Element Pressure Drop ³ 20" / 508 mm length (psid/gpm) / (mbar/m ³ /h)	Element Pressure Drop ³ 40" / 1020 mm length (psid/gpm) / (mbar/m ³ /h)	Element Pressure Drop ³ 60" / 1520 mm length (psid/gpm) / (mbar/m ³ /h)
	90%	99.98%			
UY020	< 1	3.2	0.0092 / 2.792	0.0046 / 1.396	0.003 / 0.91
UY045	1.2	4.5	0.0046 / 1.396	0.0023 / 0.698	0.0015 / 0.455
UY100	4.3	10	0.0034 / 1.032	0.0017 / 0.516	0.0011 / 0.334
UY200	10.5	20	0.0024 / 0.728	0.0012 / 0.364	0.0008 / 0.243
UY400	19	40	0.0014 / 0.424	0.0007/0.212	0.0005/0.152
UY700	35	70	< 0.0005 / < 0.152	< 0.0005 / < 0.152	< 0.0003 / < 0.091

Part Numbers / Ordering Information

Part Number	Removal Rating ⁴ (μm)	Nominal Length ⁴ (in / mm)	O-ring Material ⁴
HFU620UY020J	3.2	20 / 510	Ethylene Propylene
HFU640UY020J	3.2	40 / 1020	Ethylene Propylene
HFU660UY020J	3.2	60 / 1520	Ethylene Propylene
HFU620UY045J	4.5	20 / 510	Ethylene Propylene
HFU640UY045J	4.5	40 / 1020	Ethylene Propylene
HFU660UY045J	4.5	60 / 1520	Ethylene Propylene
HFU620UY100J	10	20 / 510	Ethylene Propylene
HFU640UY100J	10	40 / 1020	Ethylene Propylene
HFU660UY100J	10	60 / 1520	Ethylene Propylene
HFU620UY200J	20	20 / 510	Ethylene Propylene
HFU640UY200J	20	40 / 1020	Ethylene Propylene
HFU660UY200J	20	60 / 1520	Ethylene Propylene
HFU620UY400J	40	20 / 510	Ethylene Propylene
HFU640UY400J	40	40 / 1020	Ethylene Propylene
HFU660UY400J	40	60 / 1520	Ethylene Propylene
HFU620UY700J	70	20 / 510	Ethylene Propylene
HFU640UY700J	70	40 / 1020	Ethylene Propylene
HFU660UY700J	70	60 / 1520	Ethylene Propylene

² The test procedure used is an adaptation of ISO 4572, modified to determine the micronsize above which particles are quantitatively removed.

³ Pressure drop in psid per gpm and mbar per cubic meter per hour 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 fluid's 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.

⁴ Other options available - contact Pall Microelectronics for details.

Unit conversion: 1 bar = 100 kilopascals



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