

## 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 unique crescent-shaped pleat geometry, combined with its large 152 mm / 6 in 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 m<sup>3</sup>/hr
- Available in 508 mm / 20 in, 1016 mm / 40 in and 1524 mm / 60 in 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



<b>Removal Ratings<sup>1</sup></b>	2.0 µm <sup>2</sup> , 4.5 µm, 10 µm, 20 µm, 40 µm, 70 µm, 100 µm
<b>Configuration</b>	Single open end, 152 mm / 6 in diameter filter
<b>Operating Conditions</b>	Maximum Operating Temperature: 82°C / 180°F Maximum Differential Pressure <sup>3</sup> (nominal inside to outside flow): 3.4 bar at 82°C / 50 psid at 180°F

<sup>1</sup> The test procedure used is an adaptation of ISO 4572, modified to determine the micron size above which particles are quantitatively removed.

<sup>2</sup> 2 micron at 99% efficiency.

<sup>3</sup> For fluids compatible with the filter element at the stated temperature.

## Removal Rating / Typical Pressure Drop

Cartridge Grade	Removal Rating in Microns (µm) at 99.98% Efficiency <sup>1</sup>	Element Pressure Drop <sup>2</sup> 508 mm / 20 in length (mbar/m <sup>3</sup> /h) / (psid/100 gpm)	Element Pressure Drop <sup>2</sup> 1016 mm / 40 in length (mbar/m <sup>3</sup> /h) / (psid/100 gpm)	Element Pressure Drop <sup>2</sup> 1524 mm / 60 in length (mbar/m <sup>3</sup> /h) / (psid/100 gpm)
UY020	2.0 <sup>3</sup>	3.31 / 1.091	1.64 / 0.540	1.10 / 0.362
UY045	4.5	1.48 / 0.489	0.73 / 0.242	0.49 / 0.162
UY100	10	1.04 / 0.344	0.52 / 0.170	0.35 / 0.114
UY200	20	0.74 / 0.243	0.36 / 0.120	0.24 / 0.080
UY400	40	0.55 / 0.182	0.27 / 0.090	0.18 / 0.060
UY700	70	0.12 / 0.040	0.06 / 0.020	0.04 / 0.013

## Part Numbers / Ordering Information

Part Number	Removal Rating <sup>4</sup> (µm)	Nominal Length <sup>4</sup> (in / mm)	O-ring Material <sup>4</sup>
HFU620UY020J	2.0	20 / 508	Ethylene Propylene
HFU640UY020J	2.0	40 / 1016	Ethylene Propylene
HFU660UY020J	2.0	60 / 1524	Ethylene Propylene
HFU620UY045J	4.5	20 / 508	Ethylene Propylene
HFU640UY045J	4.5	40 / 1016	Ethylene Propylene
HFU660UY045J	4.5	60 / 1524	Ethylene Propylene
HFU620UY100J	10	20 / 508	Ethylene Propylene
HFU640UY100J	10	40 / 1016	Ethylene Propylene
HFU660UY100J	10	60 / 1524	Ethylene Propylene
HFU620UY200J	20	20 / 508	Ethylene Propylene
HFU640UY200J	20	40 / 1016	Ethylene Propylene
HFU660UY200J	20	60 / 1524	Ethylene Propylene
HFU620UY400J	40	20 / 508	Ethylene Propylene
HFU640UY400J	40	40 / 1016	Ethylene Propylene
HFU660UY400J	40	60 / 1524	Ethylene Propylene
HFU620UY700J	70	20 / 508	Ethylene Propylene
HFU640UY700J	70	40 / 1016	Ethylene Propylene
HFU660UY700J	70	60 / 1524	Ethylene Propylene

<sup>1</sup> The test procedure used is an adaptation of ISO 4572, modified to determine the micron size above which particles are quantitatively removed.

<sup>2</sup> Pressure drop in psid per US 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 Ultiplex<sup>®</sup> High Flow filter(s) only; it must be added to the pressure drop due to the Ultiplex<sup>®</sup> High Flow filter housing.

<sup>3</sup> 2 micron at 99% efficiency.

<sup>4</sup> Other options available - contact Pall Microelectronics for details.

Unit conversion: 1 bar = 100 kilopascals



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