



Pall Corporation

UHF / HP

Ultipleat® HP System

Ultipleat High Flow for Reverse Osmosis Pre-Treatment

Ultipleat HP System enables high-flow filtration in high-pressure vessels to provide ideal protection of reverse osmosis membranes.

Combining unique **Ultipleat** High Flow filter cartridges with high pressure 8" GRP vessels, Pall has created a cost effective protection for spiral wound reverse osmosis membranes.

Ultipleat HP System extends on line service period for reverse osmosis membranes between chemical cleans and removes the need for a low pressure pumping stage.

Equipment

- Large diameter Pall **Ultipleat** High Flow filter cartridges, 40 and 60" long, with a range of low pressure drop media
- Standard High Pressure RO vessels
- Retaining ring with finger pull for quick release of end plates
- Standard **Victaulic**® couplings

Advantages

- Operation with high pressure pumps for processing underground water, surface water, brackish water, seawater and wastewaters
- Flow rate up to 80 m³/h per element
- Easy and quick cartridge change out
- Small footprint

Filtration. Separation. Solution. SM

Specification ⁽¹⁾

Ultipleat High Flow Filter

	40 " cartridge	60 " cartridge
Nominal Length (mm / inch)	1 016 / 40	1 524 / 60
Diameter (mm / inch)	160.4 / 6.315	160.4 / 6.315
Material	Polypropylene	Polypropylene
Seal	Ethylene Propylene	Ethylene Propylene



8-inch Pressure Vessel

Shell	Fiber Glass + Epoxy
External Finish	Polyurethane Coating
Bearing Plate	Aluminum 6061-T6 Anod. Duro
Sealing Plate	PVC
Inlet / Outlet Port	3" - SS 316L
Drain Port	1" - SS 316L
Vent Port	3/4" - SS 316L
Connections	Victaulic
Design Code	ASME X
Installation	Horizontal (2)
Supplied with	Support saddles, clips & fixings

Internal Cage

Material	Polypropylene
Internal Seal	EPDM

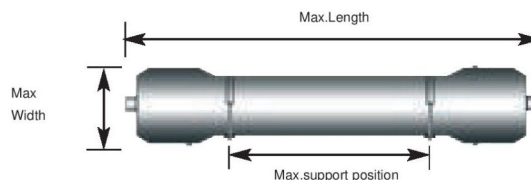
Part Numbers

	40 " cartridge	60 " cartridge
Pressure Vessel with Internal Cage	4POPO31S200050	4POPO31S200050
Ultipleat High Flow Cartridge	HFU640UY ■ J	HFU660UY ■ J
■ Removal Rating (3 or 4 digits)		
2 µm (99%)	020	020
4.5 µm (99.98%)	045	045
10 µm (99.98%)	100	100
20 µm (99.98%)	200	200
40 µm (99.98%)	400	400
100 µm (99.9%)	1000	1000

- (1) Given for information purposes only. Subject to changes.
 (2) Vertical installation on request.
 (3) Higher pressure available on request.

Ultipleat HP System Characteristics

	With 40 " cartridge	With 60 " cartridge
Maximum Inlet Flow Rate (m³/h)	50	80
Temperature Range (°C)	1 – 50	1 – 50
Max. Operating Pressure (bar at 45 °C)	10 (3)	10 (3)
Max. Operating Differential Pressure (bar)	2	2
Typical Water Flow Pressure Drop		
Pressure vessel + internals		
mbar at 20 °C - 25 m³/h	18	18
mbar at 20 °C - 50 m³/h	69	70
mbar at 20 °C - 80 m³/h	-	175
Cartridge		
mbar / m³/h at 20 °C - 2 µm	1.639	1.123
mbar / m³/h at 20 °C - 4.5 µm	0.698	0.455
mbar / m³/h at 20 °C - 10 µm	0.516	0.334
mbar / m³/h at 20 °C - 20 µm	0.364	0.243
mbar / m³/h at 20 °C - 40 µm	< 0.3	< 0.2
mbar / m³/h at 20 °C - 100 µm	< 0.3	< 0.2
Weight Empty (kg)	28	39
Weight Full of Water (kg)	55	75
Max. Length (mm)	1 544 ± 5	2 052 ± 5
Max. Width (mm)	327 ± 2	327 ± 2
Max. Support Position (mm)	680	1 185



Pall Corporation

3 rue des Gaudines
 BP 5253
 78175 Saint-Germain-en-Laye Cedex
 France

Tél. : +33 (0)1 30 61 38 00
 Fax : +33 (0)1 30 61 22 61
 Site Internet: www.pall.com



www.polyspin.co.in
 +91 9718719090
admin@polyspin.co.in

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12.2003
 Printed in France.