

Microelectronics

Ultipleat[®] PKS Filter



Description

Ultipleat PKS filter cartridges are designed for high flow rate, aqueous applications required for 5G to the newest generation of liquid crystal display (LCD) processes. These filters can handle flow rates up to 250 L/min, thereby reducing system footprint and change-out costs. Ultipleat PKS filters are available in four filter media types; polypropylene, highly asymmetric hydrophilic polysulfone, polyethersulfone and PTFE, with removal ratings from 0.1 µm to 20 µm.

- Ideally suited for most LCD wet processing applications, such as developing, etching, stripping and DI water rinsing
- Broad choice of membranes and removal ratings, suitable for many different applications
- Patented, crescent-shaped pleat structure allows for high flow rates and long service life
- Compact design makes for efficient filter change-outs, thus reducing equipment down-time

Specifications

Materials

- Media options: (I) Polypropylene, (II) highly asymmetric, hydrophilic polysulfone, (III) hydrophilic polyethersulfone, or (IV) PTFE
- Support and drainage: Polypropylene
- Core: Polypropylene
- End caps: Polypropylene
- Sealing options: (I) Ethylene propylene (EP), (II) Fluoroelastomer or (III) FEP encapsulated fluoroelastomer

Removal Ratings

- Polypropylene:
 2 μm, 4.5 μm, 10 μm, 20 μm
- Highly asymmetric, hydrophilic polysulfone: 0.1 µm, 0.2 µm
- Hydrophilic polyethersulfone: 0.45 µm, 1.2 µm
- PTFE:
 - 1 µm, 3 µm, 10 µm

• Maximum Operating Temperature:

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 (I) Polypropylene, (II) highly asymmetric, hydrophilic polysulfone, (III) hydrophilic polyethersulfone: 80°C / 176°F
 (IV) PTFE: 85°C / 185°F
- Maximum Differential Pressure: 0.69 MPa @ 20°C / 100 psid @ 68°F, 0.34 MPa @ 80°C / 50 psid @ 176°F

Please contact your Pall representative for information on housings

Pressure Drop vs. Liquid Flow Rate¹

Polypropylene







¹ For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in mPa•s

Dimensions

(nominal)



Highly Asymmetric Hydrophilic Polysulfone Hydrophillic Polyethersulfone



Part Numbers/Ordering Information

Part Number	Removal Rating (µm)	O-Ring Material	Core Materials
Polypropylene Media			
UPK310UY020J	2	EP	Polypropylene
UPK310UY045J	4.5	EP	Polypropylene
UPK310UY100J	10	EP	Polypropylene
UPK310UY200J	20	EP	Polypropylene
Highly Asymmetric Hydroph	hilic Polysulfone Media		
UPK310S100J	0.1	EP	Polypropylene
UPK310S200J	0.2	EP	Polypropylene
Hydrophilic Polyethersulfor	ne Media		
UPK310S450J	0.45	EP	Polypropylene
UPK310S1200J	1.2	EP	Polypropylene
PTFE Media			
UPK310F010H1	1	FEP encapsulated fluoroelastomer	Polypropylene
UPK310F030H1	3	FEP encapsulated fluoroelastomer	Polypropylene
UPK310F100H1	10	FEP encapsulated fluoroelastomer	Polypropylene

Specifications and availability: The information provided in this literature was reviewed for accuracy at the time of publication.

Product availability may be subject to change without notice.

For current information, consult your local Pall distributor or contact Pall Corporation directly.



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Corporate Headquarters

25 Harbor Park Drive Port Washington, NY 11050 +1 516 484 3600 telephone +1 800 289 7255 toll free US microelectronics@pall.com

Nihon Pall Ltd

6-8-1, Nishishinjuku, Shinjuku-ku Tokyo 163-6017 Japan Phone: 81.3.6901.5710 Fax: 81.3.5322.2109

Visit us on the Web at www.pall.com/micro

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