Profile® UP Filters

Data Sheet MEPUEN

Description

This Profile UP filter consists of a pleated, depth medium using the Ultipleat® filter geometry. The result is a resin trap, pre-RO or cooling water filter with superior flow vs. differential pressure capabilities.

Features & Benefits

- All polypropylene construction
- High particle removal efficiency
- Long service life
- Fixed pore structure
- Low extractables
- No surfactants or binder resins used during manufacture
- Available in many removal ratings
- Available in an RF configuration so the cartridge may fit into a housing designed to hold either a 64 mm or 70 mm / 2½ in or 2¾ in O.D. filter
- Very low clean pressure drop

Specifications

Materials of Construction

Components	Materials
Filter Medium	Polypropylene
Core, Cage and End Caps	Polypropylene
Gasket	Polyethylene
O-ring	Silicone

Removal Ratings	3.2 µm, 4.5 µm, 6 µm, 10 µm, 20 µm, 30 µm, 40 µm, 50 µm, 70 µm, 100 µm
Cartridge Length	RF style filter available as a 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in, or 1016 mm / 40 in long filter cartridge
Diameter	64 mm / 2½ in
Connection Type	Double open end, flat gasket welded to each end
	AB style Code 3, 7 and 8 available
Maximum Differential Pressure	0.41 MPa @ 30 °C / 60 psid @ 86 °F
	0.34 MPa @ 50 °C / 50 psid @ 122 °F
	0.21 MPa @ 70 °C / 30 psid @ 158 °F
	0.10 MPa @ 80 °C / 15 psid @ 176 °F

Removal Rating / Pressure Drop

Cartridge Grade	Removal Rating in Microns (µm) at % Efficiency[1]		Clean Pressure Drop in Water Per 254 mm / 10 in Element	
	90 %	99.98 %	kPa / 10 L / min	psi / gpm
UY020	< 1	3.2	2.37	0.13
UY045	1.2	4.5	1.55	0.085
UY060	2.5	6	0.64	0.035
UY100	4.3	10	0.55	0.030
UY200	10.5	20	0.46	0.025
UY300	16.5	30	0.36	0.020
UY400	19	40	0.27	0.015
UY500	25	50	0.18	≤ 0.010
UY700	35	— [2]	0.18	≤ 0.010
UY1000	60	— [2]	0.18	≤ 0.010

Part Numbers / Ordering Information

Part Number	Removal Rating (µm)	Nominal Length[3] (mm / in)	Configuration[3] Code	O-Ring / Gasket Material[3]
AB1UY0203H4	3.2	254 / 10	3	Silicone
R1FUY020J8	3.2	254 / 10	Double Open End / Flat Gasket	Polyethylene
AB1UY0453H4	4.5	254 / 10	3	Silicone
R1FUY045J8	4.5	254 / 10	Double Open End / Flat Gasket	Polyethylene
AB1UY0603H4	6	254 / 10	3	Silicone
R1FUY060J8	6	254 / 10	Double Open End / Flat Gasket	Polyethylene
AB1UY1003H4	10	254 / 10	3	Silicone
R1FUY100J8	10	254 / 10	Double Open End / Flat Gasket	Polyethylene
AB1UY2003H4	20	254 / 10	3	Silicone
AB1UY4003H4	40	254 / 10	3	Silicone
R1FUY400J8	40	254 / 10	Double Open End / Flat Gasket	Polyethylene
AB1UY10003H4	100	254 / 10	3	Silicone

[1] Rating of filter is based upon the modified Oklahoma State University (OSU) F-2 Filter Performance (Beta Rating) Test.

[2] Precision evaluation of the 99.98 % removal efficiency for these coarse grades is not possible with the OSU test procedure utilized.

[3] Other lengths, configurations and gasket materials are available.

Unit conversion: 1 bar = 100 kilopascals

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