# Ultipleat® High Flow Series Filter Cartridges

PIUHFENg

## Description

The Ultipleat High Flow filter 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 152.4 mm (6-inch) diameter and proprietary range of available Pall filter media, allows you to use significantly fewer filters and smaller housings for high flow-rate applications.

## Features and Benefits

- Coreless large diameter cartridge, synthetic construction, to minimize waste disposal
- High flow rate per filter cartridge
  - Up to 40 times fewer cartridges to change out
  - Up to 50% smaller filter system possible
- Available in a variety of filter lengths and grades
- Absolute-rated filter medium for reproducible performance
- Features proprietary unique crescent-shaped pleat geometry
- Inside-to-outside flow pattern that traps contaminant inside the element, thus preventing polluting the treated water during the cartridge change-out
- Handle for easy cartridge replacement

*Ultipleat High Flow Series Filter*

## Materials of Construction

| Filter Medium Type | Filter Medium | Support/Drainage Materials | End Caps | Wrap Materials |
|---|---|---|---|---|
| **HDC® II Medium** | High-Area Polypropylene Structure | Polypropylene | Glass-Filled Polypropylene | Polypropylene and Polyolefin Hotmelt |
| **Profile® Medium in Ultipleat Format** | Pleated Polypropylene Depth Structure | Polypropylene | Glass-Filled Polypropylene | Polypropylene |
| **Ultipor® GF Medium** | Resin Bonded Glass Fiber / Polyester Support | Polyester / Nylon | Glass-Filled Acetal | Polyester and Polyamide Hotmelt |
| **Ultipleat HT Medium** | Glass Fiber Media with Aramid Support | Craneglass/ Polybutylene Terephthalate | Acetal | Aramid |
| **Ultipleat CAS Medium** | Pleated Polypropylene / Polyether Sulfone Membrane | Polypropylene | Glass-Filled Polypropylene | Polypropylene |

## Operating Conditions[1]

| | Polypropylene Medium/ CAS Composite Medium | Glass Fiber Medium and HT Medium[1 and 2] |
|---|---|---|
| Maximum Differential Pressure[2] (normal inside-to-outside flow) | 3.44 bard at 82°C<br>50 psid at 180°F | 3.44 bard at 121°C<br>50 psid at 250°F |

## Ordering Information/ Specifications

**Filter Cartridge Part Number: HFU ▲ ● ◆**

| Code ▲ | Filter Dimensions, (nominal) Diameter (in / mm) x Length (in / mm) | Suggested Maximum Water Flow Per Cartridge- US gpm / L/min / MGD |
|---|---|---|
| 620 | 6 / 152.4 x 20 / 508 | 175 / 663 / 0.25 |
| 640 | 6 / 152.4 x 40 / 1016 | 350 / 1325 / 0.5 |
| 660 | 6 / 152.4 x 60 / 1524 | 500 / 1900 / 0.7 |
| 680 | 6 / 152.4 x 80 / 2032 | 500 / 1900 / 0.7 |

| Code-Filter O-Ring ◆ | Material |
|---|---|
| H13 (Standard for glass fiber and aramid fiber filters) | Nitrile |
| H13U[3] | Nitrile U-Cup |
| J (Standard for polypropylene filters) | Ethylene Propylene |
| JU[3] | Ethylene Propylene U-Cup |
| H4 | Silicone |
| H | Fluoroelastomer |

**Filter Cartridge Pressure Drop (typical) per Filter Length Shown[4]**

| Medium Type | Grade ● | Absolute Liquid Removal Rating (microns) at 99.98% by particle count[5] | 508 mm / 20 inch length | | 1016 mm /40 inch length | | 1524 mm / 60 inch length | | 2032 mm / 80 inch length | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | psid/ 100gpm | mbar/ M³/hr | psid/ 100gpm | mbar/ M³/hr | psid/ 100gpm | mbar/ M³/hr | psid/ 100gpm | mbar/ M³/hr |
| HDC II Medium | J060 | 6 | 0.158 | 0.48 | 0.080 | 0.24 | 0.058 | 0.17 | 0.040 | 0.12 |
| | J100 | 10 | 0.120 | 0.36 | 0.060 | 0.18 | 0.040 | 0.12 | 0.030 | 0.09 |
| | J200 | 20 | 0.100 | 0.30 | 0.050 | 0.15 | 0.033 | 0.10 | 0.025 | 0.08 |
| Profile Medium in Ultipleat Format | UY020[6] | 2 | 1.091 | 3.31 | 0.540 | 1.64 | 0.362 | 1.10 | 0.270 | 0.82 |
| | UY045 | 4.5 | 0.489 | 1.48 | 0.242 | 0.73 | 0.162 | 0.49 | 0.121 | 0.37 |
| | UY060 | 6 | 0.395 | 1.20 | 0.196 | 0.59 | 0.131 | 0.40 | 0.098 | 0.30 |
| | UY100 | 10 | 0.344 | 1.04 | 0.170 | 0.52 | 0.114 | 0.35 | 0.085 | 0.26 |
| | UY200 | 20 | 0.243 | 0.74 | 0.120 | 0.36 | 0.080 | 0.24 | 0.060 | 0.18 |
| | UY400[7] | 40 | 0.182 | 0.55 | 0.090 | 0.27 | 0.060 | 0.18 | 0.045 | 0.14 |
| | UY700[7] | 70 | 0.040 | 0.12 | 0.020 | 0.06 | 0.013 | 0.04 | 0.010 | 0.03 |
| | UY1000[7] | 90 | 0.027 | 0.08 | 0.013 | 0.04 | 0.009 | 0.03 | 0.007 | 0.02 |
| Ultipor GF Medium | GF010 | 1 | 0.718 | 2.164 | 0.361 | 1.087 | 0.240 | 0.723 | 0.180 | 0.542 |
| | GF020 | 2 | 0.219 | 0.66 | 0.110 | 0.33 | 0.073 | 0.22 | 0.055 | 0.17 |
| | GF060 | 6 | 0.180 | 0.55 | 0.090 | 0.27 | 0.060 | 0.18 | 0.045 | 0.14 |
| | GF100 | 10 | 0.159 | 0.48 | 0.080 | 0.24 | 0.053 | 0.16 | 0.040 | 0.12 |
| | GF200 | 20 | 0.119 | 0.36 | 0.060 | 0.18 | 0.040 | 0.12 | 0.030 | 0.09 |
| | GF400[7] | 29 | 0.100 | 0.30 | 0.050 | 0.15 | 0.033 | 0.10 | 0.025 | 0.08 |
| HT Medium | HT060 | 6 | | | | | 0.130 | 0.40 | 0.097 | 0.30 |
| Ultipleat CAS Medium | CAS010 | 1 | 1.496 | 4.54 | 0.740 | 2.25 | 0.496 | 1.51 | 0.370 | 1.12 |

*1) Maximum temperature in wet hydrocarbon applications is 60°C / 140°F for GF medium and 100°C / 212°F for HT medium.*

*2) For fluids compatible with the filter element at the stated temperature.*

*3) U-Cup seal is standard for the 1 micron composite filter.*

*4) Multiply this value by the total system flow to determine the aqueous pressure drop. 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 contribution from the Ultipleat High Flow filter housing.*

*5) The test procedure used is an adaptation of ISO 16889 :2008, modified to determine the micron size above which particles are quantitatively removed.*

*6) 2 micron at 99% efficiency.*

*7) Precision evaluation of the 99.98% removal efficiency for these coarse grades is not possible with the ISO modified test procedure utilized. The removal efficiency was determined by the maximum spherical particle analysis.*

PALL CORPORATION

**Corporate Headquarters**
Port Washington, NY, USA
+1-800-717-7255 toll free (USA)
+1-516-484-5400 phone

**European Headquarters**
Fribourg, Switzerland
+41 (0)26 350 53 00 phone

**Asia-Pacific Headquarters**
Singapore
+65 6389 6500 phone

**Visit us on the Web at www.pall.com/industry**
**Contact us at www.pall.com/contact**

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