

## Ultipleat® High Flow Filter Elements

### for fine particle removal from water

Ultipleat High Flow filter elements are designed for high particle removal efficiency of fine particulates from water applications.

### Description

The Ultipleat High Flow filter elements utilize polyethersulfone (PES) media with unique, laid-over pleat geometry. The Ultipleat High Flow element is a large diameter, single open ended, pleated cartridge with an inside to outside flow pattern and a core-free construction.

The filter's unique laid-over pleat geometry, combined with its large diameter means fewer elements are required for a given flow rate when compared to standard diameter cartridges. Filter vessels are correspondingly smaller, resulting in lower capital and installation costs, as well as reduced operating costs.

### Features and Benefits

| Features  | Benefits   |
|---|--|
| Polyethersulfone membrane with no adhesives or surfactants                    | <ul style="list-style-type: none"> <li>• Consistent filtrate quality</li> <li>• Highly stable structure</li> <li>• Media provides a typical 3 log reduction of <i>Giardia</i> cysts and <i>Cryptosporidium</i> oocysts</li> <li>• Process reliability</li> </ul> |
| Pleated (laid-over pleat geometry) media in a large diameter cartridge format | <ul style="list-style-type: none"> <li>• 10 % water savings*</li> <li>• 30 % lower operating costs*</li> <li>• Lower capital and installation costs*</li> <li>• Reduced installation footprint*</li> <li>• Longer service life</li> </ul>                        |
| Inside to outside flow configuration  | <ul style="list-style-type: none"> <li>• At element change-out, protects filtrate from recontamination by trapping particulates inside the cartridge</li> </ul>  |

\*Typical when compared to standard cartridges used in test comparison.

### Quality

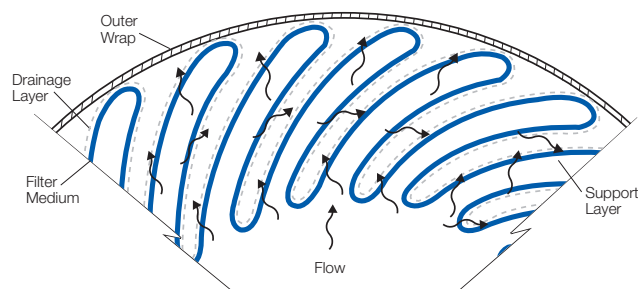
- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

### Food Contact Compliance

Please refer to the Pall website <http://www.pall.com/foodandbev> for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.



Ultipleat High Flow Elements



Ultipleat filter element construction, showing uniform flow distribution

### Materials of Construction

|                             |  |
|-----------------------------|--|
| Filter Medium               | Pre-filtration layer Pall proprietary melt blown polypropylene media, Final filtration layer Pall proprietary Supor® membrane (polyethersulfone) |
| Support mesh and outer wrap | Polypropylene  |
| End Caps and Handle         | Polypropylene (10 % glass fiber reinforced)  |
| O-ring Seal                 | Ethylene Propylene Rubber  |

## Technical Information

### Operating Characteristics in Compatible Fluids<sup>1</sup>

| Maximum Differential Pressure           | Max. Operating Temperature <sup>2</sup> |
|---|---|
| 3.45 bard (50 psid) (forward direction) | 82 °C (180 °F)                          |

<sup>1</sup>Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.

<sup>2</sup>Not recommended where the temperature is cycled more than 10 °C (50 °F).

### Ordering Information

This information is a guide to the part number structure and possible options. For availability of specific options and housing details, please contact Pall.

Element Part Number: **HFU 6**  **CAS010 JUW**

Example Part Number: **HFU640CAS010JUW**

See bold reference codes in tables.

**Table 1: Nominal Length**

| Code      | Description   |
|-----------|---------------|
| <b>40</b> | 1016 mm (40") |
| <b>60</b> | 1524 mm (60") |

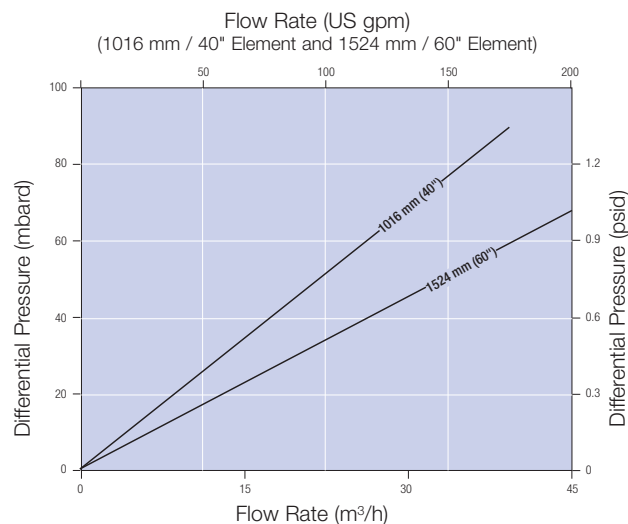
Outside to in flow is not recommended. Ultipleat High Flow filter elements are designed for water flow rates typically >10 m<sup>3</sup>/h (44 US gpm), please contact your Pall representative for product recommendations more suitable to lower flow rates.

### Sanitization<sup>3</sup>

| Method                  | Temperature           | Cumulative Time |
|-------------------------|-----------------------|-----------------|
| Hot Water               | 85-90 °C (185-194 °F) | 10 hours        |
| 320 ppm total peroxides | 20 °C (68 °F)         |                 |

<sup>3</sup>Measured under laboratory test conditions. Users should verify suitability against their own conditions of use. Where indicated 10 minute sanitization cycles were utilized.

### Typical Flow Rates<sup>4</sup>



<sup>4</sup>Typical initial clean media differential pressure ( $\Delta p$ ) per 1016 mm (40") and 1524 mm (60") cartridge for water at 20 °C (68 °F); viscosity 1 centipoise. For assistance in filter assembly sizing and housing selection, contact your Pall representative.



Pall Food and Beverage

25 Harbor Park Drive  
Port Washington, NY 11050  
+1 516 484 3600 telephone  
+1 866 905 7255 toll free US  
foodandbeverage@pall.com


Portsmouth - UK  
+44 (0)23 9230 2269 telephone  
+44 (0)23 9230 2509 fax

Visit us on the Web at [www.pall.com/foodandbev](http://www.pall.com/foodandbev)

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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit [www.pall.com](http://www.pall.com) to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 667,800; EP 982,061; EP 1,380,331; US 5,543,047; US 5,690,765; US 5,725,784; US 6,113,784; US 7,083,564; US 7,318,800.

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