PALL Food and Beverage

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	• Consistent filtrate quality • Highly stable structure • Media provides a typical 3 log reduction of *Giardia* cysts and *Cryptosporidium* oocysts • Process reliability
Pleated (laid-over pleat geometry) media in a large diameter cartridge format	• 10 % water savings* • 30 % lower operating costs* • Lower capital and installation costs* • Reduced installation footprint* • Longer service life
Inside to outside flow configuration	• At element change-out, protects filtrate from recontamination by trapping particulates inside the cartridge

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

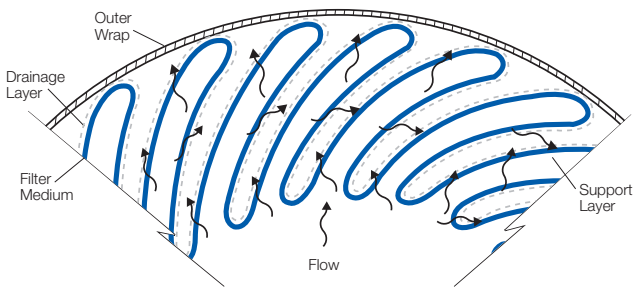
Quality

- 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[1]

Maximum Differential Pressure	Max. Operating Temperature[2]
3.45 bard (50 psid) (forward direction)	82 °C (180 °F)

[1]Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.
[2]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
Table 1

Example Part Number: **HFU640CAS010JUW**
See bold reference codes in tables.

Table 1: Nominal Length

Code	Description
40	1016 mm (40”)
60	1524 mm (60”)

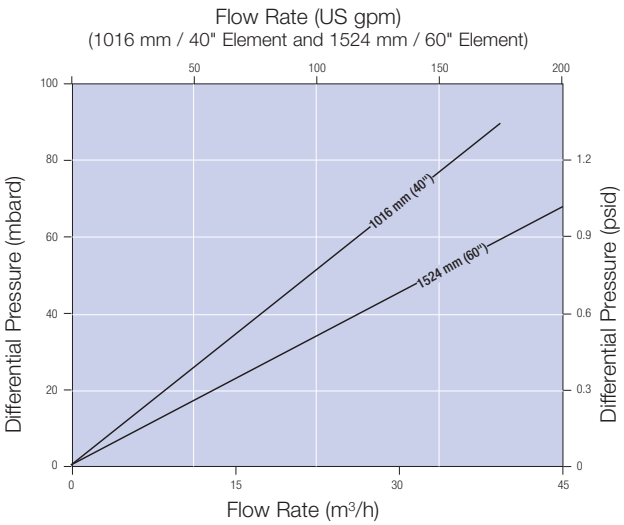
Outside to in flow is not recommended. Ultipleat High Flow filter elements are designed for water flow rates typically >10 m^3/h (44 US gpm), please contact your Pall representative for product recommendations more suitable to lower flow rates.

Sanitization[3]

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

[3]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[4]



[4]Typical initial clean media differential pressure (Δp) 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.

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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 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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