Pall Corporation

Ultipleat® High Flow Filter Elements with Profile® UP media

For Particle Removal at Elevated Flow Rates

Ultipleat High Flow filter elements are designed for cost-effective, highly efficient particle filtration in high flow rate food and beverage applications.

Ultipleat High Flow Elements

Description

The Ultipleat High Flow filter elements are designed for high flow rates up to 113 m^3/hour (500 US gal/min) in a single 1524 mm (60 inch) cartridge. They utilize Profile UP 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 than 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
Fixed fiber matrix with no adhesives or surfactants	• Consistent filtrate quality • Highly stable structure • Higher product yields • Process reliability
Pleated (laid-over pleat geometry) media in a large diameter cartridge format	• Lower capital and installation costs* • Reduced installation footprint* • 30% lower operating costs* • Longer service life • Over 10% water savings*
Inside to outside flow configuration	• Protects filtrate from recontamination by trapping particulates inside the cartridge

*Typical 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

Materials of Construction

Filter Medium	Polypropylene
Support Mesh and Outer Wrap	Polypropylene
End Caps and Handle	Polypropylene (10% glass fiber reinforced)
O-ring Seal	Ethylene Propylene Rubber

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.

Technical Information

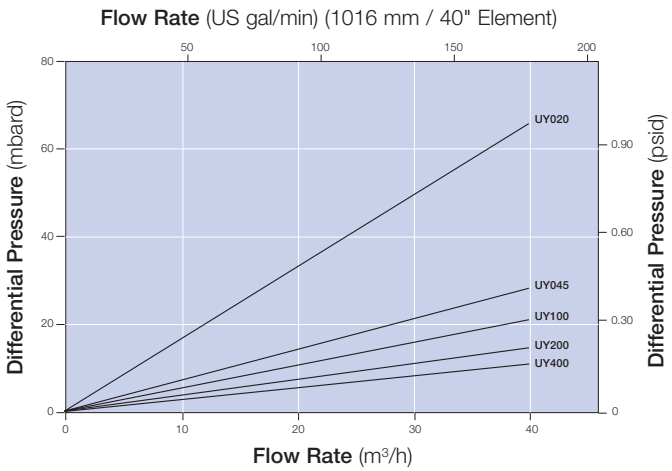
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

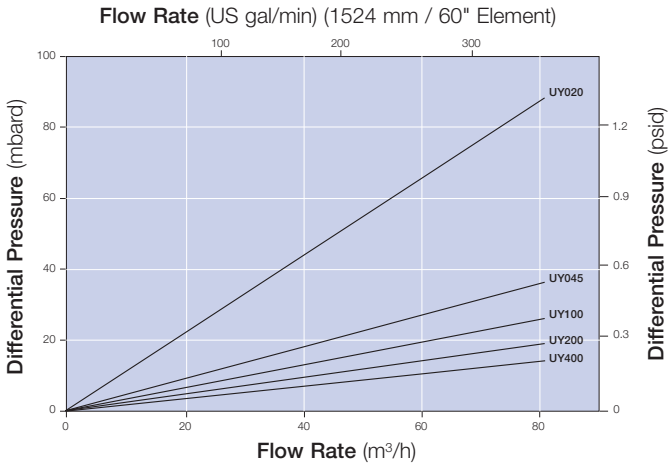
Operating Characteristics in Compatible Fluids[1]

Maximum Differential Pressure	Max. Operating Temperature[2]
3.45 bard (50 psid) (inside to out flow)	82 °C (180 °F)

[1] Fluids which do not swell, soften or adversely affect any of the filter components.
[2] Not recommended where the temperature is cycled by more than 28 °C (50 °F). Maximum temperatures are for continuous service.

Typical Flow Rates[3]





[3] Typical initial clean delta p, for 1016 mm (40") and 1524 mm (60") elements, water at 20 °C (68 °F). For assistance in filter assembly sizing, especially for fluids with a viscosity greater than 1 centipoise, contact your Pall representative.

Ultipleat High Flow filters are generally recommended for water flow rates greater than 20 m³/hour (88 US gal/min). Please contact your Pall representative for individual fluid applications and product options more suitable to lower flow rates.

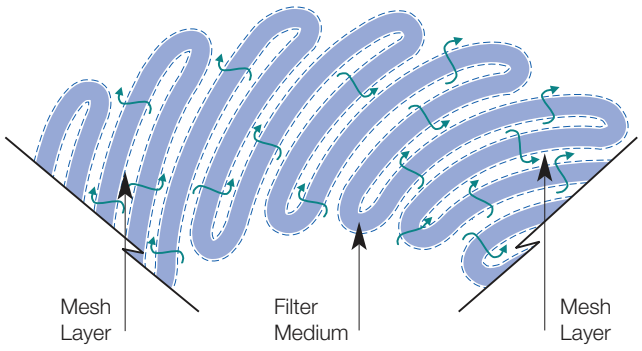


Figure 1: Ultipleat filter element construction, showing unique laid-over pleats and uniform flow distribution

Ordering Information

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

Example Part Number: **HFU640UY020JUW**

See bold reference codes in tables.

Element Part Number: HFU 6 ☐ ☐ JUW
Table 1 Table 2

Table 1: Nominal Length

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

Table 2: Removal Rating[4]

Code	Rating (µm) at 99.98% Efficiency (ß-5000)	Rating (µm) at 99% Efficiency (ß-100)
UY020		2.0
UY045	4.5	2.5
UY100	10	6.5
UY200	20	17.9
UY400	40	

[4] Removal efficiency for tight grades determined by a modified ISO 4572 test. For coarser grades, *i.e.* UY400, removal efficiency is determined by maximum spherical particle retention test.

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Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

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.

Filtration. Separation. Solution.SM

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