

Fuente II Filter Cartridges For Final Water Filtration

Fuente II filter cartridges are a unique combination of Ultipleat® filter construction and optimized built-in pre-filtration to give longer filter life and lower filtration costs.

Description

The **Fuente II** filter was developed as a final filter for bottled water. It provides a reliably stable product when applied directly before bottling.

The cartridge is constructed from two layers of hydrophilic Supor® polyethersulfone (PES) membrane. The single open ended (SOE) configuration is designed to fit into sanitary housings to ensure effective microbial stabilization and assembly integrity.

Fuente II filter cartridges are suitable for exposure to repeated cold chemical, hot water and *in situ* steam sanitization cycles for longer service life.

Features	Benefits
Cartridges resistant to numerous sanitization cycles	<ul style="list-style-type: none"> • Process reliability • Economical operation • Consistent filtrate quality
Hydrophilic PES media	<ul style="list-style-type: none"> • Microbial stabilization of bottled water • Easy to wet and integrity test
Ultipleat filter construction and built-in pre-filtration layer	<ul style="list-style-type: none"> • High flow rate per module • Added colloidal resistance • Longer filter life • Lower operating costs
Individually serialized modules	<ul style="list-style-type: none"> • Full traceability
Multiple adaptor options	<ul style="list-style-type: none"> • Easy installation into sanitary housings

Removal Rating

A technical performance report is available for **Fuente II** filter cartridges upon request.



Fuente II Filter Cartridges

Materials of Construction

Filter Media	PES
Support and Drainage	Polypropylene
Core, Cage, End Cap and Fin End	Polypropylene
Adaptor	Polypropylene with an internal stainless steel reinforcing ring
O-ring Seal	Ethylene propylene rubber or Silicone elastomer

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 www.pall.com/foodandbev for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Technical Information

Operating Characteristics in Compatible Fluids¹

Maximum Differential Pressure	Operating Temperature
5.0 bard (72.5 psig) (forward pressure)	40 °C (104 °F)
1.0 bard (14.5 psig) (reverse pressure)	40 °C (104 °F)
1.0 bard (14.5 psig) (forward pressure)	<i>in-situ</i> steam sterilization

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

Sanitization, Sterilization and Cleaning*

Media	Temperature	Cumulative Time/Cycles ²
Steam	125 °C (257 °F)	40 hours / 120 x 20 minute cycles
Hot water	85 °C (185 °F)	100 hours / 300 x 20 minute cycles
Peracetic acid based products (325 ppm of PAA and 1275 ppm of hydrogen peroxide)	Ambient	400 hours
*Nitric acid (0.5%)	Ambient	100 hours
*Phosphoric acid (0.5%)	Ambient	100 hours

² Measured under laboratory test conditions. The actual cumulative time depends on the process conditions. For applications requiring Sterilization or Sanitization Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use. Contact Pall for recommended procedures.

Pressure Drop vs. Liquid Flow Rate³

15 liters per minute @ 100 mbar

2.74 US gpm @ 1 psi

Typical initial clean media differential pressure (ΔP) per 250 mm (10") cartridge for water at 20 °C (68 °F); viscosity 1 centipoise. For 508, 762 mm and 1016 mm configurations divide the differential pressure by 2, 3, and 4 respectively.

Ordering Information

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Part Number: AB FFN W
Table 1 Table 2 Table 3

Table 1: Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2: Adaptor

Code	Description
3	SOE – single open end with flat closed end and external 222 O-rings
7	SOE – single open end with fin end 2 locking tabs and external 226 O-rings
8	SOE – single open end with fin closure end and external 222 O-rings on open end
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

Table 3: O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber



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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/corporate_contact.asp

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.

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