

Pall® Pasteurizer Replacement Filter Cartridges (PAREQ)

For Clear, Fresh and Cold Stabilized Beer

Description

The Pall PAREQ filter cartridges have been specifically designed and qualified for the brewing industry for secure and reliable removal of harmful beer spoilage microorganisms. The Supor® medium is a highly efficient polyethersulfone membrane which, in combination with the construction of the PAREQ filter, ensures excellent service life and filtration results.

This filter cartridge, due to the high mechanical strength and improved titer reduction increases the potential for filtration to replace pasteurization for final beer treatment.

The AB style cartridges are available in single open ended (SOE) configurations to fit in sanitary housings to ensure effective microbial removal and assembly integrity.

Characteristics and Advantages

- Filter materials preserve the organoleptic properties of the product
- Fixed pores, non-shedding membrane, adhesive and surfactant free
- Reliable removal of specific beer spoilage microorganisms as a function of the retention rate
- Broad chemical compatibility
- Repeated sterilization capability for economical operation
- Easy to wet with cold water for integrity test purposes

Quality

Stringent quality controls during the manufacturing process and test procedures assure the high quality standard of all Pall filters and fulfill the special requirements of the brewing industry. Manufacture is carried out according to procedures within a Quality Management System certified to ISO 9001:2015. Each individual filter is integrity tested during manufacture.

Food Contact Compliance

- The materials of construction meet 21 CFR 170-199
- The filters meet the requirements for food contact use, European Regulation (EC) Number 1935/2004 for slightly alcoholic beverages such as beer



Typical Titer Reduction¹

Test Organism	LRV (Log Reduction Value)
<i>Lactobacillus brevis</i>	≥7
<i>Pediococcus damnosus</i>	≥7
<i>Serratia Marcescens</i>	≥7

¹ The typical Log Reduction Value is determined in laboratory liquid challenge tests on 254 mm (10") new filter.

For *Lactobacillus brevis* and *Pediococcus damnosus*, challenges were performed at a level of $\geq 10^5$ per cm^2 of effective filtration area on new and unused filters.

For *S. marcescens*, challenges were performed at a level of $\geq 10^7$ per cm^2 of effective filtration area on new and unused filters.

Traceability

In order to ensure traceability each filter cartridge is marked on the cage with the part number and batch number. In addition, every filter cartridge bears an individual number. Microbial removal rating, part number and batch number are indicated on the packing label.

Technical Data

All construction parts of the PAREQ filter are thermo-plastically welded, that means no adhesives are used.

Materials of Construction

Component	Description
End caps	Polypropylene
Cage	Polypropylene
Drainage / Support non-woven	Polypropylene
Filter membrane	Polyethersulfone (Hydrophilic)
Core	Polypropylene
Adaptor	Polypropylene incorporating a stainless steel ring
O-ring seals	Silicone elastomer ²

² The seal materials employed meet FDA requirements for food contact use as detailed in 21 CFR Section 177.2600.

Available Sizes

Nominal Length	Nominal Filter Area
1016 mm (40")	2.4 m ² (25.8 ft ²)

Typical Flow Rate/Pressure Drop 20 °C (68 °F)

112 L/min @ 100 mbar (20.4 USgpm @ 1 psid)

Typical flow rate per 1016 mm (40") filter for clean water (new and unused).

For assistance in filter assembly sizing and housing selection, contact your local Pall Distributor or Pall Corporation directly.

Maximum allowable Differential Pressure

The maximum allowable differential pressure in the forward flow direction for the PAREQ filter is shown in the table below.

Temperature	Max. allowable Differential Pressure ³
Up to 40 °C (104 °F)	5 bard (72.5 psid)
Up to 80 °C (176 °F)	3 bard (43.5 psid)

³ In fully compatible fluids which do not chemically attack, soften or adversely affect the filter in any way.

Sterilization and Sanitization

The PAREQ filters can be repeatedly steam-sterilized or be sanitized with hot water.

Media	Temperature	Cumulative Time/Cycles ⁴
Steam	125 °C (257 °F)	50 hours/150 cycles
Hot water	85 °C (185 °F)	50 hours/100 cycles

⁴ Measured under laboratory test conditions. The actual cumulative time depends on the process conditions.

Ordering Information

Cartridge Part Number: **AB4PAREQ7WH4**

Length	Adaptor	O-ring seal material
4 - 1016 mm (40")	7 - Bombfin with bayonet lock and double 226 O-rings	H4 - Silicone



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Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

IF APPLICABLE 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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