Food & Beverage Data Sheet



FBDSPAREENb

Pasteurizer Replacement Filter Family For "Sterile" Filtration of Beer

Pasteurizer Replacement filter cartridges are a family of pre-filters and hydrophilic membrane filters designed for reliable retention of spoilage microorganisms in the filtration of beer in the CFS NEO system or standard housings.

Description

The Pasteurizer Replacement filter cartridge family was developed and validated for removal of beer spoilage microorganisms in the CFS NEO system or standard housings.

There are 7 family members providing reduction in microbial spoilage organisms from beer. Five of the cartridges are constructed from microbial removal membranes with a correlated integrity test value. Two of the cartridges are pre-filters designed not only to protect the selected downstream final membrane filter but also aid in the removal of beer spoilage organisms. The single open ended (SOE) configuration is designed to fit into the sanitary housings on the CFS NEO system to ensure effective microbial reduction and assembly integrity.

Pasteurizer Replacement filter cartridges are suitable for exposure to repeated hot water sanitization and *in situ* steam sterilization cycles for longer service life in the CFS NEO system. The optimized support and drainage materials, provide increased mechanical strength during operation, repeated hot water, chemical and steam sanitization and thus, high throughput.

Features	Benefits	
Cartridges resistant to numerous sanitization cycles	 Process reliability Economical operation Consistent filtrate quality 	
Hydrophilic membranes	 Easy to wet and integrity test Microbial stabilization of beer 	
Validated with beer spoilage microorganisms	 Brand protection Increased process safety 	
Individually serialized cartridges	 Full traceability 	
Integrity testable	Brand protection Documentation for quality records	



Quality

- · Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2015 certified Quality Management System
- All final filters are 100% integrity tested before manufacturing release

Food Contact Compliance

Please refer to the Pall website https://www.pall.com/ en/food-beverage/compliance-and-safety.html for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Microbial Removal Rating

	Test Organism Log Reduction Value (LRV)		
Final Membrane Filters	Serratia marcescens (ATCC 14756)	Lactobacillus brevis in beer	Pediococcus damnosus in beer
ABN4PAREM7WH4	11	8.5	9
AB4PAREQWH4	8	8	7
AB+PAREQII+W+	8	8	7
ABN4PAREV7WH4	7.5	9	8
ABN4PAREY7WH4	6	8	8
Pre-filters	Serratia marcescens (ATCC 14756)	Lactobacillus brevis in beer	Pediococcus damnosus in beer
AB4PAREG7WH4	4	_	_
AB4PAREJ7WH4	2.5	_	_

Challenges were performed at a level of $\geq 10^7$ per cm² of effective filtration area on new and unused filters. For detailed information regarding microbial removal please contact Pall for the appropriate technical performance guide.

+See next page for construction and ordering details

* Filters provided a yeast free effluent when challenged.

Materials of Construction and Part Numbers for Ordering

Table 1: Pre-filters

Table 2: Standard Final Membrane Filters¹

Part Number	Media and hardware description	Part Number	Media and hardware description
AB4PAREG7WH4	All polypropylene media and hardware construction	ABN4PAREM7WH4	Nylon 6:6 filter media in a Nylon 6-10 filter construction
AB4PAREJ7WH4	All polypropylene media and hardware construction	AB4PAREQ7WH4	Supor® polyethersulfone filter membrane in a polypropylene filter construction
		AB+PAREQII+W+	Supor polyethersulfone filter membrane in a polypropylene filter construction
		ABN4PAREV7WH4	Nylon 6:6 filter media in a Nylon 6-10 filter construction

ABN4PAREY7WH4

 $^{\rm 1}$ See next page for full ordering information for the PAREQII filter part numbers

construction

Nylon 6:6 filter media in a Nylon 6-10 filter

CFS NEO system



Ordering Information for Extended Line of Supor Polyethersulfone Filter Membrane in Polypropylene Laid Over Pleat Configuration

Cartridge Part Number

AB	PARE	QII 🛛 \	N
Та	ble 1	Table 2	Table 3 Table 4

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

Table 1: Nominal Length

Code	Description	
1		
2	508 mm (20")	
3		
4*	1016 mm (40")	

* 40" filter elements are suitable for use in a CFS system

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 end and external 222 O-rings	
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	



PAREQII filter cartridge

Table 4: Sterilization and Sanitization

Media	Temperature	Cumulative Exposure Time*/ cycles
Steam	125 °C (257 °F)	125 x 20 min cycles
Hot water	90 °C (194 °F)	200 x 30 min cycles

*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.



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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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