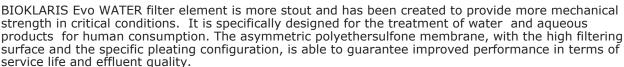


BIOKLARIS Evo WATER

- New PES membrane with enhanced characteristics
- High effective filtration area with more retention capacity
- Easy integrity testable in situ
- Steamable in situ
- Sanitizable and cleanable
- Thermowelded construction
- EC- listed materials for Food contact
- FDA-listed materials per CFR21
- Increased service life to reduce filtration cost



service life and effluent quality.

BIOKLARIS Evo WATER cartridges can be repeatedly steam sterilized or sanitized with chemicals and can be regenerated with hot solution of sodium hydroxide.

The removal of undesired microorganisms is guaranteed by the bacterial challenge test according to ASTM F 838. The filter element is testable in situ either before and after the filtration process. The construction is carried out in a controlled environment, with constant monitoring of all production parameters. The cartridges are 100% integrity tested and verified in production.



Membrane	Polietersulfone (hydrophilic)	
Upstream supports	polypropylene	
Downstream supports	polypropylene	
Internal Core	polypropylene	
External Cage	polypropylene	
End caps / Adapters	polypropylene	

FOOD-SAFETY

BIOKLARIS Evo WATER filter element materials meet regulation 10/2011 and its amendments, regulations (EC) 1935/2004 AND 1895/2005.

Construction materials are in compliance with requirements according to CFR 21; par. 177-199. FDA

QUALITY STANDARDSProduced under a ISO 9001 certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	75 °C	
- max. cumulative number of steam sterilization cycles	≥100 hours at 121 °C, ≥80 hours at 125 °C* with max ΔP 0,3 bar (cycles of 60 minutes)	
- sanitization with hot water	90 °C max	
- sanitization with chemicals	can be sanitized by usual chemical agents	
- regeneability	NaOH solution up to 3% at 85 °C	
- max. differential pressure	5,0 bar at 25 °C and 1,0 bar at 90 °C	
- recommended change out differential pressure	2,0 bar at 25 °C	
* maximum in-line sterilization temperature	•	

INTEGRITY TEST DATA

CODE	ABSOLUTE FILTRATION RATING IN LIQUIDS	PRESSURE HOLD VALUE *	TEST PRESSURE	MAX. DIFFUSION FLOW VALUE IN WATER FOR 10" CARTRIDGE (ml/min)
		8 cartridges of 30"		
ВС	0,2 μm	≤ 0,11 bar	1,8 bar	≤20
BD	0,45 μm	≤ 0,12 bar	1,1 bar	≤20

the values are related to a test time of 5 minutes and are indicative: they depend on the housing volume upstream the filter element.



TYPICAL FLOW RATE I/h **FOR 10" CARTRIDGE**

CODE	ΔP= 0,1 bar
BC 1200	
BD	1500

BACTERIAL RETENTION

CODE	FILTRATION RATING micron	* BACTERIAL RETENTION > 10 ⁷ per cm ²
ВС	0,2	Pseudomonas aeruginosa / Escherichia coli / Enterobacteriacee / Serratia marcescens
BD	BD 0,45 Serratia marcescens / Clostric perfringens/ Oocycistes Criptospordium / Giardia	

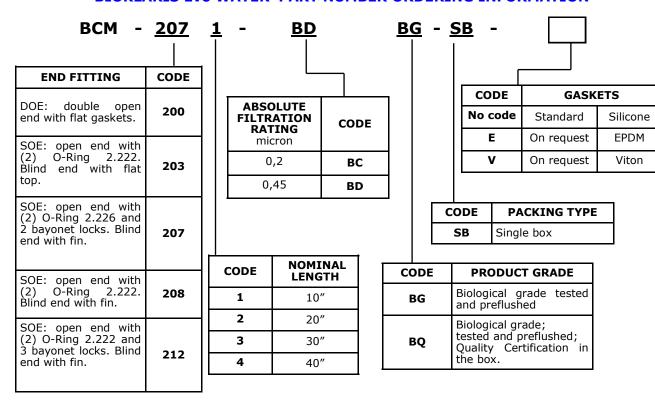
* As per ASTM F838

Filtration area up to 7500 cm² for 10" cartridge

Filtration rating 0.2 micron is able to retain $10^7\,$ UFC of Brevundimonas diminuta for 10'' cartridge.

Filtration rating 0.45 micron is able to retain 107 UFC of Serratia marcescens for 10" cartridge.

BIOKLARIS EVO WATER PART NUMBER ORDERING INFORMATION



TRACEABILITY

In order to ensure the complete traceability, each filtering element is identified with Part Number, lot number, serial number and filtration rating.

QUALITY

Each filtering element is tested during the production and before the final packaging.

Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product fits for particular purpose and is suitable for User's applications.



DS-BCM-520-EN-21/Water