

# Bevflo BH

- Highly effective filtering area
- Integrity testable in situ
- Repeatedly steamable in situ
- Santisable and regenerable
- Thermowelded construction
- EC - listed materials for food contact
- FDA - listed materials per CFR21



The Bevflo BH filter element design incorporates proprietary technology which allows you to achieve better filtration results; the design optimises the flow distribution between the media and the internal core to avoid restrictions and to exploit the full area of the cartridges. This leads to higher flow rates, lower pressure drop and a longer service life.

The filter media in PES membrane (Hydrophilic Polyethersulfone) pleated with upstream and downstream supports is steamable and sanitiser resistant and withstand regeneration cycles in hot water.

Manufacturing is performed in a controlled environment and each cartridge is integrity tested.

## Materials of Construction

Filter media	Asymmetric PES membrane
Upstream supports	Polyester
Downstream supports	Polyester
Internal Core	Polypropylene
External Cage	Polypropylene
End caps / Adapters	Polypropylene

## Food Safety

Bevflo BH filter elements meet (EU) regulation 10/2011 and its subsequent amendments and regulations (EC) 1935/2004 and 1895/2005.

## Quality of Standards

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

## Recommended wine flow rate l/h 10" cartridge

Micron rating	$\Delta P = 0.1 \text{ bar}$
0.45 $\mu\text{m}$	500
0.65 $\mu\text{m}$	500
0.8 $\mu\text{m}$	500
1.2 $\mu\text{m}$	500

## Recommended Operating Conditions

- Maximum continuous operating temperature 65°C
- Maximum cumulative time of steam sterilisation is 80 cycles of 30 minutes at 121°C
- Sanitisation with hot water is 80°C maximum
- Sanitisation with chemicals - can be sanitised by standard chemical agents
- Regenerability is 2% NaOH solution at room temperature
- Maximum differential pressure is 5.0 bar at 25°C
- Recommended change out differential pressure is 2.0 bar at 25°C

ABSOLUTE FILTRATION RATING IN LIQUIDS	ACCEPTABLE LIMIT FOR PRESSURE HOLD TEST*		TEST PRESSURE
	Nr. 1 30" cartridge	Nr. 8 30" cartridges	
0.45µm	≤ 0.12 bar	≤ 0.13 bar	1.1 bar
0.65µm	≤ 0.14 bar	≤ 0.15 bar	0.8 bar
0.80µm	≤ 0.12 bar	≤ 0.13 bar	0.6 bar
1.2µm	≤ 0.12 bar	≤ 0.13 bar	0.5 bar

\*The values are related to 5 minutes and are indicative as they depend on the housing volume upstream of the filter element

## Bacterial Retention

ABSOLUTE FILTRATION RATING (Micron)	BACTERIAL RETENTION FOR 10" CARTRIDGE
0.45µm	≥ 10 <sup>10</sup> Leuconostoc oenos
0.65µm	≥ 10 <sup>12</sup> Saccharomyces cerevisiae
0.8µm	≥ 10 <sup>11</sup> Saccharomyces cerevisiae
1.2µm	≥ 10 <sup>11</sup> Saccharomyces cerevisiae

BEVFLO BHcartridges are proven to retain the micro-organism reported in the table

## Bevflo BH Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
BH	0.45µm	10"	3	E - EPDM	
	0.65µm	20"	4	S - Silicone	
	0.80µm	30"	7		
	1.2µm	40"	8		
				28	

**Ordering Guide Example: BH-0.65-20-3S**

**European Manufacturing, Sales & Service**  
 Envirogen Group  
 Unit 9, Wimsey Way, Alfreton Trading Estate,  
 Alfreton, Derbyshire DE55 4LS,  
 United Kingdom  
 T: +(0)1531 636328  
 E: info@envirogengroup.com

**European Sales & Distribution**  
 Envirogen Technologies BV  
 Penningweg 71, 1507 DG Zaandam,  
 The Netherlands  
 T: +31 (0)75 204 72 00  
 E: ninfo@envirogengroup.com

**Middle East Sales & Distribution**  
 Envirogen Group  
 Block 115, Road 1510,  
 Building 737, Office 81,  
 Hidd, Kingdom of Bahrain  
 T: +973 13107790  
 E: infobahrain@envirogengroup.com