

GR-WB Filter Cartridges

The GR-WB filter cartridge was specially designed to meet the high demands of beverage applications.

GR-WB cartridge filters utilize a special polyethersulfone membrane to provide consistent removal of spoilage organisms and inorganic particulate. The product offers excellent retention efficiency and extended on-stream life making it an ideal filter for the clarification of beer, wine and bottled water.

Main Features:

- Manufactured in an ISO Class 7 clean room Environment
- 100% flushed with ultrapure DI water and integrity tested
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.2440 as applicable for food and beverage contact.
- USP Class VI: Meets USP Class VI Biological Test for Plastics
- Steamable / sanitizable for cleaning and reuse
- Complete qualification guide available
- High log reduction values for spoilage organisms
- Low adsorption of protein color and flavor components
- European Directive for Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.



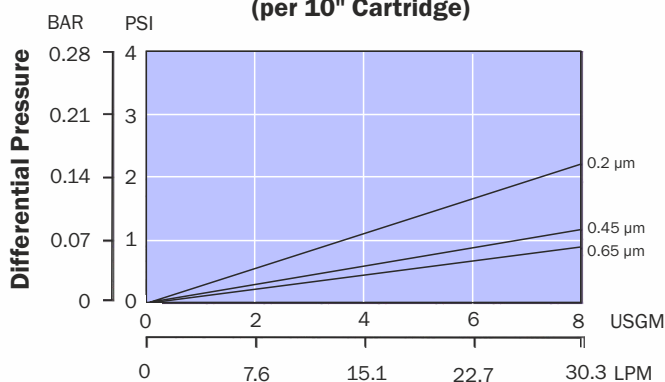
Typical Applications

- White Wine
- Red Wine
- Beer
- Champagne
- Liquor
- Sparkling Wine
- Bottled Water
- Distilled Spirits

Diagram

Typical Flow Rate Clean Water at Ambient Temperature (per 10" cartridge)

Flow Rate (per 10" Cartridge)



General Technical Data

Media:	Asymmetric Polyethersulfone Membrane
Inner core, end caps, cage:	Polypropylene
Support layers:	Spunbonded Polypropylene
Gaskets/O-Rings:	Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Viton
Micron ratings:	0.2 µm, 0.45 µm und 0.65 µm
Inside diameter:	25,4 mm
Outside diameter:	69 mm
Surface area:	0,7 m ² (per 10" element)
Operating temperature:	Max. 80 °C (at 1,38 bar differential pressure)
Differential pressure:	forward: Max. 5.5 bar @ 21 °C Max. 2.8 bar @ 71 °C reverse: Max. 2.8 bar @ 21 °C
Recommended change-out pressure:	2.4 bar

PERFORMANCE SPECIFICATIONS

- Hot DI Water**

Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.

- Cleaning/Sanitization**

Compatible with most common chemical cleaning, sanitizing and sterilizing agents and with pH range from 1-14. Consult factory for specific compatibility information.

- Steam/Autoclave**

Cartridges may be steamed or autoclaved for at least 50 thirty-minute cycles @ 275°F (135°C).

- TYPICAL BACTERIAL RETENTION** (LRV= Logarithmic Retention Value)

0.2 µm: LRV for Pseudomon aeruginosa ≥ 11

0.45 µm: LRV for Lactobacillus brevis ≥ 7.6 LRV for Oenococcus oeni ≥ 10.0

0.65 µm: LRV for S. cerevisiae ≥ 8.7

INTEGRITY TEST SPECIFICATIONS

Retention Rating	Bubble-Point	Diffusive Air Flow
0,2 µm	≥ 2,1 Bar	≤ 35 cm ³ /min @ 1,7 Bar
0,45 µm	≥ 1,4 Bar	≤ 35 cm ³ /min @ 1,1 Bar
0,65 µm	≥ 1,2 Bar	≤ 35 cm ³ /min @ 1,0 Bar

Order Information:

GR25-WB -



End Configuration	
1	DOE
2	226/ Flat
3	222/ Flat
6	O-Ring Inboard (Ametek)
7	226/ Fin
8	222/ Fin

Length	
05	5"
93	9 3/4" *
10	10"
20	20"
30	30"
40	40"

* only for DOE

Retention Rating	
002	0,2 µm
004	0,45 µm
006	0,65 µm

Gasket or O-Ring	
0	Buna
1	EPDM
2	Silikon
4	Viton
5	Teflon encap. Viton
5	Teflon *

*Flat Gasket for DOE Adapter

Order Example:

GR25-WB-320-006-1