Industrial filtration

LifeASSURE BBA filter cartridge

Provides reliable microorganism control in food and beverage applications. Designed for durable and long-lasting performance in a variety of food and beverage applications.



Food & beverage applications

- Beer
- Wine
- Bottled water
- Soft drinks
- Hard seltzer (Alcoholic)

IBWA INTERNATIONAL BOTTLED WATER ASSOCIATION

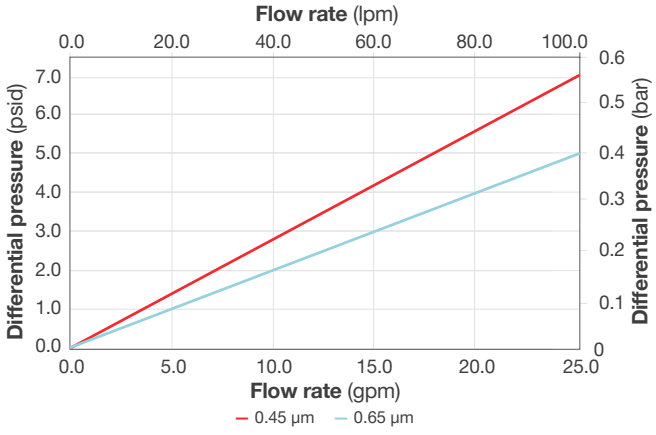
Technical product benefits

- The Thermo Scientific™ LifeASSURE™ BBA Filter Cartridge is manufactured under an ISO 9001:2015 certified quality management system.
- LifeASSURE BBA 0.45 µm and 0.65 µm rated filter cartridges provide excellent retention of common spoilage microorganisms.
- LifeASSURE BBA filter cartridges deliver reliable spoilage microorganism retention for: *Lactobacillus brevis* (0.45 µm) and *Saccharomyces cerevisiae* (0.65 µm).
- The LifeASSURE BBA filter cartridge design combines asymmetric PES membrane and meltblown polypropylene microfiber media.
- Certain LifeASSURE BBA products are compliant with US FDA 21 CFR. Contact your Thermo Fisher Scientific Inc. representative for detailed declaration of compliance information for food contact applications.
- LifeASSURE BBA filter cartridges are stable with most cleaning and sanitization regimes.
- LifeASSURE BBA filter 0.65 µm filter cartridges are tested in accordance to NSF/ANSI Standard 401 for microplastic reduction (≥ 85% efficiency for particles ≥ 0.5 µm)

Thermo Scientific™ LifeASSURE™ BBA Filter Cartridges	Microorganisms	Typical log reduction value (LRV)
BBA 0.45 µm	*Lactobacillus brevis*	7
BBA 0.65 µm	*Saccharomyces cerevisiae*	7

Log reduction values are calculated using the following formula:

$$\text{LRV} = \log\left(\frac{\text{total number or organisms entering the filter cartridge}}{\text{total number or organisms exiting the filter cartridge}}\right)$$



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Materials of construction

Component	Materials
Membrane	Polyethersulfone
Support layers	Polypropylene
Inner core, outer cage, end caps	Polypropylene
End cap adaptors	Polypropylene with or without embedded stainless steel reinforcing ring
O-rings	Silicone or EPR

Ordering guide

Thermo Scientific™ LifeASSURE™ Filter Cartridges	Ratings (µm)	Cartridge configuration	Length (inches)	End modification	O-ring/ gasket material	Adapter insert
BBA	**045** – 0.45 **065** – 0.65	**A**	**01** – 10 **02** – 20 **03** – 30 **04** – 40	**B** – 226 O-rings & spear **C** – 222 O-rings & spear	**A** – Silicone **C** – EPR	**0** = No insert **2** = SS insert

BBA045A01BA0 - LifeASSURE BBA, 10 in, 0.45 µm, 226 with spear endcap and silicone O-ring.

Technical data and operating parameters

Nominal filter cartridge dimensions	
Effective filtration area (10-inch element)	6.1 ft.^{2} (0.56 m^2)
Filter cartridge diameter	2.72 in (69 mm)
Filter cartridge lengths	10 in (254 mm), 20 in (508 mm), 30 in (762 mm), 40 in (1016 mm)

Operating parameters	
Recommended flow rate (10-inch element)	Beer: 1-2 gpm (3.8-7.6 lpm) Wine: 2-3 gpm (7.6-11.4 lpm)
Maximum forward differential pressure	80 psid @ 77°F (5.5 bar @ 25°C) 35 psid @ 194°F (2.4 bar @ 90°C)
Maximum hot water sanitizing temperature	Hot water: 194°F (90°C) – 75 hrs. 1 gpm (3.8 lpm), 10 psi (0.69 bar)
Steam sanitizing temperature	266°F (130°C) – 150, 30-minute cycles
NaOH cleaning duration	1M conc. @ 149°F (65°C) - 100 hrs.
Paracetic acid sanitizing (27% hydrogen peroxide, 5.0% peracetic acid)	1% conc. @ 77°F (25°C) - 100 hrs.
Potassium metabisulfite	2 oz/gal @ 77°F (25°C) - 100 hrs.
Ethyl alcohol, v/v (ethanol)	70% conc. @ 77°F (25°C) - 100 hrs.

Compliance

Standard
ISO 9001:2015 certified quality management system
100% Diffusion flow tested prior to shipment
Certain LifeASSURE BBA products are compliant with US FDA 21 CFR. Contact your Thermo Fisher representative for detailed declaration of compliance information for food contact applications.
LifeASSURE™ BBA filter 0.65 µm filter cartridges are tested in accordance to NSF/ANSI Standard 401 for microplastic reduction (≥ 85% efficiency for particles ≥ 0.5 µm).

	BBA045 (0.45 µm)	BBA065 (0.65 µm)
Forward flow test pressure	16 psi (1.1 bar)	4.5 psi (0.2 bar)
Maximum diffusion (10" element)	≤ 24 sccm	≤ 7 sccm
Minimum bubble point	≥ 1.4 bar (20.3 psi)	≥ 0.4 bar (5.8 psi)
Pressure hold test	Consult filtration and separation representative	Consult filtration and separation representative

Intended Use: LifeASSURE BBA filter cartridges products are intended and are compliant for use in Food and Beverage filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and where materials of construction are compatible. For specific details regarding use or limitations for food contact applications please contact your Thermo Fisher Scientific Inc. representative for more information.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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