



TurboClean® Beverage Microfiltration Elements

TurboClean® Beverage MF elements are designed for clarification of products such as wine and vinegar. They feature a polyvinylidene fluoride (PVDF) microfiltration (MF) membrane, a parallel feed spacer, polysulfone components and a rugged TurboClean® hard shell. The patented TurboClean hard shell offers a safe and sanitary operating system with none of the stagnant areas created by the brine seals of fibreglassed membrane elements where bacterial growth is often found. With 60% less bypass flow than net-wrapped elements, TurboClean elements deliver energy savings, the most effective cleaning and sanitizing and the best performance.

MEMBRANE CHARACTERISTICS

Membrane	PVDF MF
Nominal Pore Size (µm)	0.2

DESIGN INFORMATION

Model	Membrane Area m² (ft²)	Feed Spacer Thickness (mil)^a
TurboClean® Bev 8040-MF	26.9 (290)	47

^a This model has a TurboClean sanitary outer wrap and parallel feed spacers. This model includes anti-telescoping devices (ATDs) attached to the ends of the element and one interconnector. A brine seal is not included and is not required.

OPERATING PARAMETERS

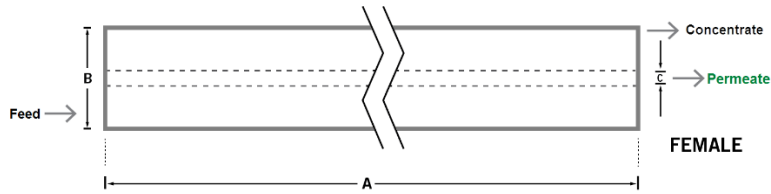
Maximum Operating Pressure	10.3 bar (150 psi)
Maximum Operating Temperature	50°C (122°F)
Cleaning pH Range¹	1.0 - 12.0
Cleaning Chlorine Tolerance	200 ppm (sanitization) at pH ≥ 10.5
Maximum Pressure Drop	1.4 bar (20 psi) per element; 6 bar (80 psi) per housing

¹ Refer to temperature and pH limits in our Membrane Cleaning Guides.

PHYSICAL DIMENSIONS

Model	Element Weight kg (lb) ^b	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C ^c mm (inches)	Permeate Tube
TurboClean® Bev 8040-MF	16 (36)	1,016 (40.0)	201 (7.9)	28.6 (1.125)	Female

^c Shipping weight is dependent on packaging material and quantity shipped.
^d Dimension "C" is the Inner Diameter.



IMPORTANT INFORMATION

- Start-up:** MANN+HUMMEL Water & Fluid Solutions recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see Element Start-Up Guide – System Start-Up (TSG-O-005).
- Cleaning:** TurboClean® membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see our Membrane Cleaning Guides.
- Storage:** TurboClean membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guides (TSG-O-009 & TSG-O-010).
- Regulatory:** This model uses FDA (CFR Title 21) compliant materials.

CUSTOMIZABLE SPECIALTY ELEMENTS

MANN+HUMMEL Water & Fluid Solutions offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact us to customize a product that satisfies your specific requirements.

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