

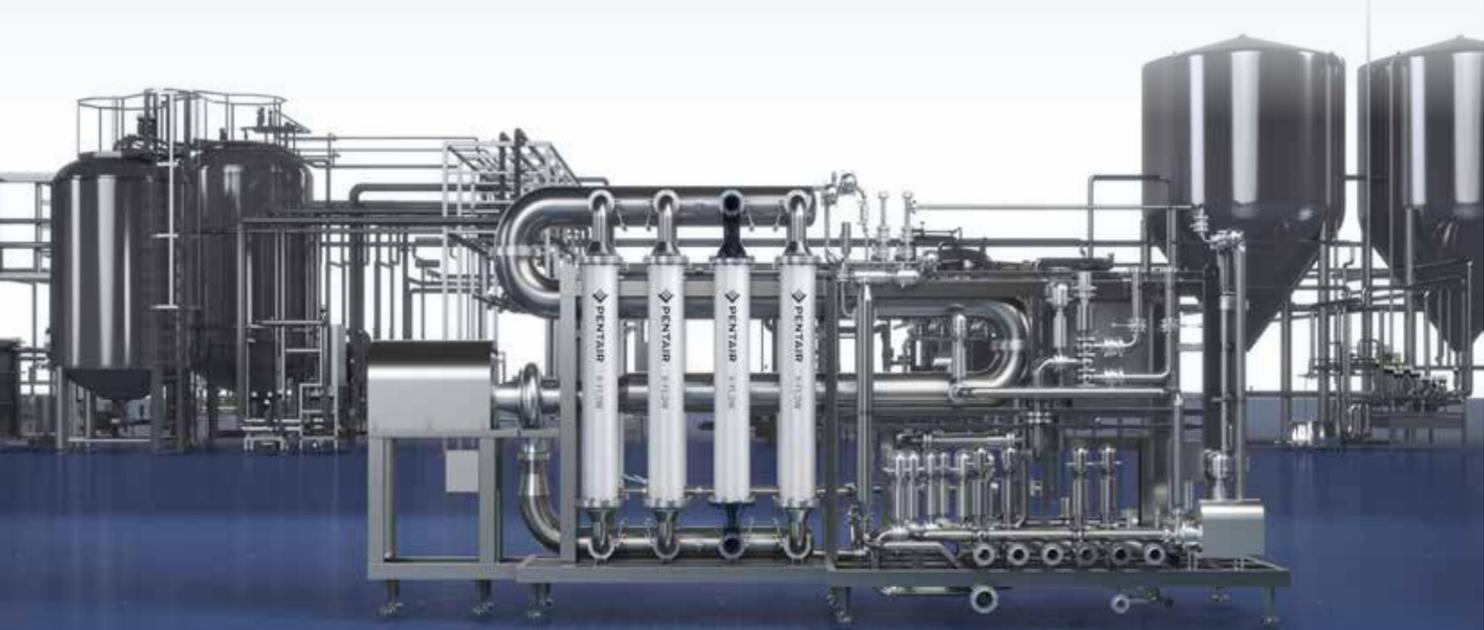


BEER MEMBRANE FILTRATION SYSTEMS

THE CLEARER WAY TO
FILTER YOUR BEER



PENTAIR.COM/BMF



THE CLEARER WAY TO FILTER YOUR BEER

Beer is a well-known and loved beverage, consumed and enjoyed worldwide. Your customers crave mouth-watering taste alongside outstanding quality. They want choice, with new beverage categories emerging from market demand.

But brewing requires energy-intensive crops, large quantities of utilities and produces waste.

Brewers seek the most cost-efficient, reliable, and sustainable way to brew to lessen the adverse effects on the environment and on their beverage production.

Choosing the right beer filtration technology can help support brewers like you on your journey towards creating a more flexible and sustainable brewing production process.

SMART, SUSTAINABLE BEER MEMBRANE FILTRATION

A dynamic filtration process is required to make the beer bright. Adapting to continuous modifications in variables such as beer type and volume is also key.

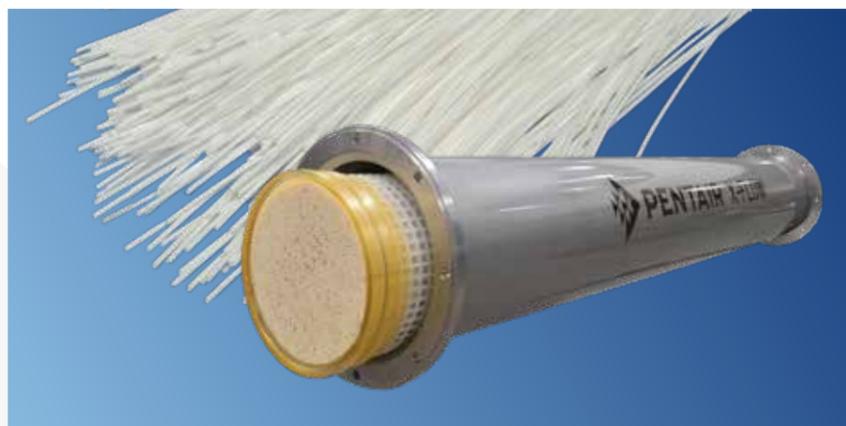
A reliable, optimized system is crucial to creating quality beer while maintaining demand momentum. A suboptimal filtration system will cost your brewery time, money, and beer.

Pentair equips breweries with a clearer way to filter their beer.

Equipped with Pentair X-Flow polymer beer membrane hollow fiber technology, you can rely on 20 years of expertise. Pentair Beer Membrane Filtration (BMF) Systems enable brewers to brew perfection through a reliable, agile, and sustainable filtration process.

Coupled with in-house project management & engineering and ongoing service support, Pentair BMF Systems help breweries create quality beer while meeting market demand through process efficiencies in predictable output and sustainable utility consumption.

Pentair X-Flow Membrane Element and Housing



Sustainable quality

Iron pickup is prevented when use of diatomaceous earth filter-aid is avoided, reducing the aging process and improving the beer's shelf life and taste stability.

By using a membrane filter with a narrow pore size, yeast cell blocking is assured at a high flux, and a strong reduction of beer-spoiling bacteria is achieved.

Sustainable operation

The use of membranes brings with them a more sustainable way of working.

Unlike single-use kieselguhr, membranes are reusable and will last several years, meaning zero filter media waste, a lower CO₂ footprint, and no safety concerns due to handling harmful kieselguhr chemicals.

The harmful disposal of filter media waste is also no longer needed.

Sustainable support

Experience greater peace of mind as Pentair BMF experts handle the entire project management of the Beer Membrane Filtration System installation, with dedicated service support for its lifetime.

Benefit from:

- ◆ 24/7 technical support
- ◆ Service packages
- ◆ Remote service monitoring
- ◆ Original spare parts

BENEFITS

- ◆ Reduce system downtime with dedicated service
- ◆ Eco-friendly, cleaner operation with membranes
- ◆ Benefit from predictable output
- ◆ Retain flexibility with system agility

FEATURES

- ◆ In-house:
 - Pentair X-Flow Hollow Fiber Membrane Technology
 - Project management and engineering> In-house
 - Pentair Südmo Process Valve Technology
 - Pentair Haffmans Quality Control Measurement
- ◆ Optional smart steering function
- ◆ Inline cleaning for lower consumptions



24/7 TECHNICAL SUPPORT

SERVICE PACKAGES

REMOTE SERVICE MONITORING

ORIGINAL SPARE PARTS

FILLING URGENT NEEDS

With a Pentair BMF you can rely on improved performance and beer quality, a flexible design and easy operation and contribution to sustainability.

Brewed perfection	Contributes to sustainability	System agility	Enhance filtration process
<p>With Pentair X-Flow membranes, benefit from:</p> <ul style="list-style-type: none"> • Consistent beer quality. • Improved taste stability due to no iron pick-up. • Reliable blocking of yeast. • Reduction of beer spoiling bacteria. 	<ul style="list-style-type: none"> • Ban on hazardous Diatomaceous Earth (DE) dust. • Up to 50% lower solid waste in the brewery. • Low water usage. • Lower CO₂ footprint. • Lower beer loss. 	<ul style="list-style-type: none"> • Straightforward process. • Unique stop-start-stop procedure. • No centrifuge utilized. • Ideal for brand changes • Suitable for batch & continuous filtration processing • Easy to expand. 	<ul style="list-style-type: none"> • Comparable capital expenditures • Low operational expenditures • Less disposal costs. • Fully automated. • No storage handling and logistics of DE.

A PENTAIR BMF FOR EVERY BREWERY

Whether you are a craft brewery or one of the larger market players in the world, we have a BMF for every brewery.



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BMF Systems (04-26-23)