

Cerinox[®]MF

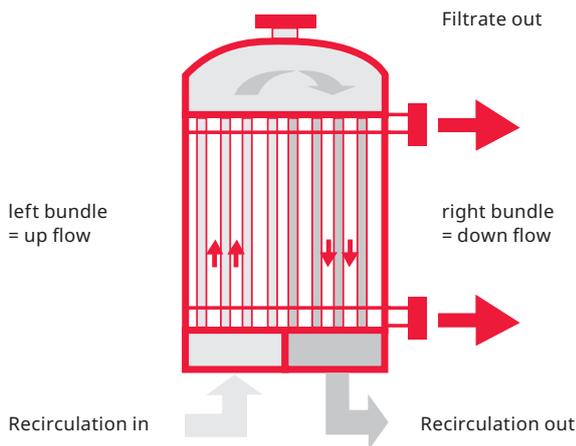


Cross-flow filtration plants with ceramic membranes for fruit juices, cider, vinegar, gelatine and other food stuff

- Wide range of membranes available
- Easy expandability
- Standardized or tailor-made units

The dual-flow module

The name of the dual-flow-module is derived from the two different flow directions – upwards and downwards – of the unfiltered liquid in the channels of the installed ceramic elements.



Thanks to this concept, a maximum of packing density and a minimum of pipe connections are achieved. Complete venting and draining is guaranteed by discharging the liquid through the top and bottom plate.

This concept allows for easy maintenance by simply taking away the top cover of the housing.

With two different sizes of dual-flow modules, filtration surface from 30 m² filter up to 200 m², and hence by modularly increasing filter area, an optimal plant design for all required application is possible in one module.

Characteristics

Cerinox® is a compact cross-flow filtration plant equipped with ceramic tubular membranes. There are standard units available as well as custom-designed installations.

The special design of the so-called dual-flow modules allows a high packing density of filter surface, which leads to small footprints and lower heights of Cerinox® plants. Especially because of the latter, the Cerinox® is easy to maintain. Due to the compactness of the plant, its inner volume is small compared to the installed filter area. This leads to low water consumption as well as low product losses. Tailor made ceramic membranes guarantee high economic benefit and high filtrate quality. The high durability of the membranes, together with a well proven process, lead to very reliable systems with very low demand for operator presence and maintenance. This makes the Cerinox® a standard solution for ultra and microfiltration of food products.

Applications

There have been systems sold for various applications all over the world:

Product	Membrane type	Size
Wine	2.4 mm	45/110 m ²
Cider	2.4–2.8 mm	30–150 m ²
Fruit juice	2.4–6 mm	30–200 m ²
Vinegar	2.4–6 mm	30–250 m ²
Food products	2.4–8 mm	30–... m ²

Characteristics of the membranes

For every specific process tailor-made ceramic membranes in tubular multi channel elements have been developed:

Channel diameter	1.35–8 mm
Pore size	0.2–0.8 µm
Pressure resistance	30 bar
Temperature	> 90 °C
pH	0–14

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Technical changes reserved.

Products

We develop and produce a wide range of specialized equipment and provide engineering solutions dedicated to help brewers to optimize their processes.

Combining experience and innovation we supply brewing equipment such as Filtration systems, Yeast plants, Water Deaeration, Blending, Carbonation, Dosing and Hard Seltzer systems, Dealcoholisation, CIP, Cold sterilisation, Flash Pasteurization and Beer tanks.

Services

We have a global presence. Our sales and service network is always available for you to provide consultancy, technical support and after sales service.