

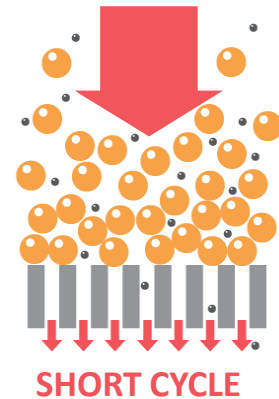
CROSSFLOW FILTER



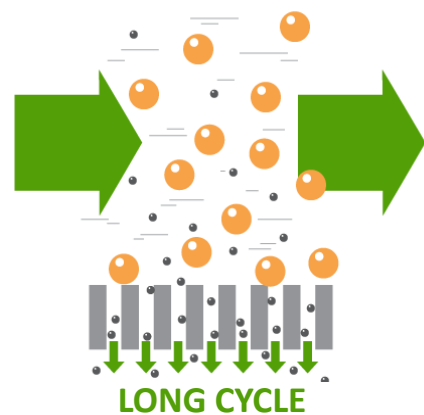
Process

In a classic filtration the liquid goes through the filtering surface just in a perpendicular way. In a crossflow filtration, where the filtering surface is a selective membrane, the liquid goes through and parallel of the membrane and thus keeps the membrane clean of residues. According to the pore size of the membrane we speak of microfiltration, ultrafiltration, nanofiltration, reverse osmosis.

Bared systems are the result of over 30 years of experience in crossflow membrane filtration. Thanks to capillary membranes with a nominal pore size up to 0.2 micron it is possible to obtain a sterile filtration. Membranes are gentle on the product and do not increase its temperature. By filtering with a Bared crossflow system it is guaranteed a crystalline product just in a single step compared to other systems that require more filtration stages, and therefore greater stress of the product.



Classic filtration



Crossflow filtration

Applications

The filter is suitable for:

- Filtration of still and sparkling wine
- Filtration of juices
- Filtration of beer
- Prevention of anomalous fermentations
- Protein stability improvement
- Recovery of second or third pressing

System highlights

BACK WASH	All models, except the B1 model, are equipped with this device. It makes a membrane's counter-current washing: it allows a non-stop filtration (24 hours or more) reducing the membranes' fouling.
AUTOMATION	Bared crossflow filters have an easy management: operator is not required during the filtering cycle. Anyway, it is available a fully automatic option where all operations, C.I.P. included, are controlled by a dedicated software.
ISOBARIC DESIGN	Every model can operate under isobaric atmosphere up to 6 Bar pressure.
CLEANING	Membranes are washed with fresh tap water, unlike to other systems that require softened water, which therefore need the installation of an additional system.
MODULAR DESIGN	Bared filters are designed to make doubling or extending possible. More, an option allows to work at 50% rates.
ERGONOMY	Our membranes' patented connection allows a compact space-saving with a 250 mm height lower than the filters in the market. The styling and clear design compliances with health and hygiene regulations.

Benefits

	Continuous running 24h filtering cycles		No waiting for fining process step Reduced tanks requirement
	Reduced labour Automatic system		Complete product recovery Lowest unfiltered volumes
	Constant flow rate Guarantee of processed volumes		Saving in energy 0,09 kW /100 L filtered product
	Operational reliability Operator mistakes are avoided		Eco friendly Just fresh water for cleaning
	Saving of production costs Filtering aids are not requested		Economy 0,0035 €/L filtered product

Models

	B1
Filtrate rate	500-1000 L/h
Capacity	9000-14000 L/day
Power	1.2 kW
Dimensions	800x900x1600 mm
Weight	170 Kg



	B2
Filtrate rate	1000-2000 L/h
Capacity	18000 - 35000 L/day
Power	2.5 kW
Dimensions	1000x1000x1700 mm
Weight	280 Kg

Models

	B3
Filtrate rate	1500 - 3000 L/h
Capacity	27000 - 50000 L/day
Power	3.5 kW
Dimensions	1800x1000x1700 mm
Weight	380 Kg



	B2+2
Filtrate rate	2000 - 4000 L/h
Capacity	36000 - 70000 L/day
Power	4.5 kW
Dimension	1600x1400x1700 mm
Weight	500 Kg

Models

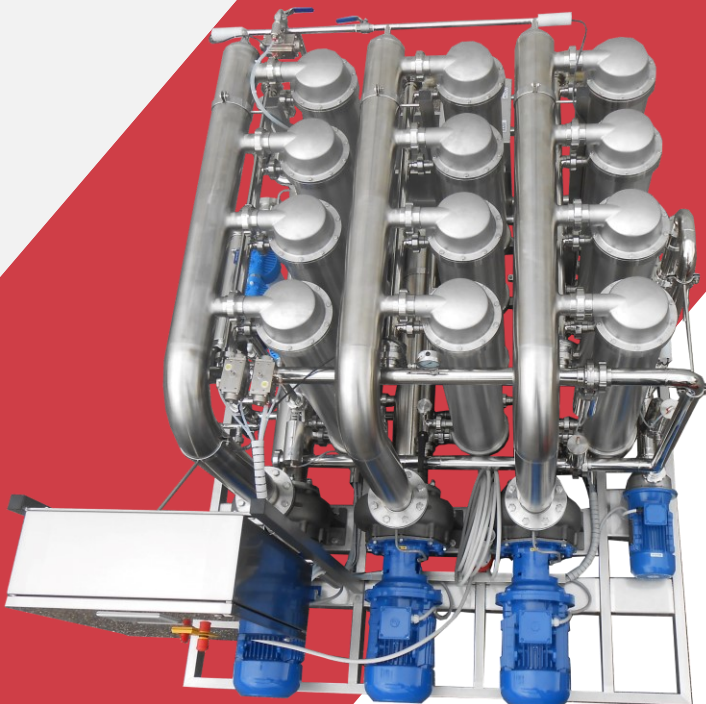
	B4
Filtrate rate	2000 - 4000 L/h
Capacity	36000 - 70000 L/day
Power	4.5 kW
Dimensions	2500x1000x1700 mm
Weight	500 Kg



	B6
Filtrate rate	3000 - 6000 L/h
Capacity	54000 - 100000 L/day
Power	6.0 kW
Dimension	2000x1500x1700 mm
Weight	700 Kg

Models

	B8
Filtrate rate	4000 - 8000 L/h
Capacity	72000 - 140000 L/day
Power	9.0 kW
Dimensions	2500x1500x1700 mm
Weight	820 Kg



	B12
Filtrate rate	6000- 12000 L/h
Capacity	110000 - 200000 L/day
Power	13.0 kW
Dimensions	2500x2000x1750 mm
Weight	1200 Kg

Models

	B16
Filtrate rate	8000 - 16000 L/h
Capacity	145000 - 260000 L/day
Power	18.0 kW
Dimensions	2500x2500x1750 mm
Weight	1600 Kg



Optional



STAINLEES STEEL PREFILTER

A stainless steel container replaces the plastic one of the second prefilter. It grants greater solidity and make easier the cartridge replacement during cleaning operation.



NO RETENTATE KIT

Using this device the filtration is carried out just with the feeding hose and the permeate hose. The retentate product stays inside the system.



SMART AUTOMATION

A plc with 7" coloured touch screen manages the main work phases, the control of operating parameters and process alarms. The software control the automatic filling/ filtration/ rinsing/ emptying of the system with nitrogen (or other gas) and it allows the membranes's integrity check.

A digital flow-meter allow the control of the flow rate and memorize the processed volume. The plc has an OPC-UA protocol and has got integrated remote assistance.



FULL AUTOMATION

All the operational programs: Filling / Filtration / Draining / Rinsing / Cleaning are controlled by a 7" PLC.

The filter runs all the different steps automatically and the software allow to do the membranes's integrity check.

A digital flow-meter allow the control of the flow rate and memorize the processed volume. The plc has an OPC-UA protocol and has got integrated remote assistance.



ACOUSTIC-VISUAL ALARM

Light tower that signals the status of the system to the operator.