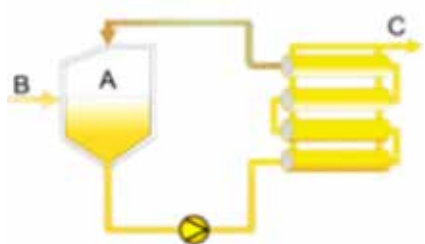


UltraStar XL



Cross-flow ultra filtration unit for the clarification of fruit juices, wines, aqueous plant extracts, and fermentation broths

- Maximum product yield and excellent juice quality
- Tubular membranes allow high solid concentrations
- Modular design, high performance on small footprint
- Reliable and fully automated system
- Integrated CIP system and tank management



Application

The Bucher Unipektin UltraStar XL has been designed for applications in the food industry and biotechnology. Due to its large diameter, tubular membranes, it is predestinated for the clarification of aqueous suspensions with medium to high suspended solids content. The Bucher Unipektin UltraStar XL is mainly used for the filtration of juices (from apples, pears, berries, stone fruits, citrus fruits, and pineapples), fruit wines and fermenter broths.

Design and functionality

The Bucher Unipektin UltraStar XL is a semicontinuous cross-flow filtration plant. The product that needs to be clarified (B) is circulated via a cir-

ulation tank (A) through the inside of the ½" diameter membrane tubes. A portion of the liquid phase thereby permeates through the membrane and leaves the system as permeate (C). Fresh product (B) is continuously added into the circulation tank (A). As soon as the maximum concentration of suspended solids has been reached, the retentate can optionally be diafiltered (leached out with water) to maximise the yield. Due to the modular design a wide capacity range is covered. Different membranes cut off enable an adaptation to various applications. The up- and downstream product tanks can be managed by the integrated control system.

Technical data

Membrane modules	KMS Super-Cor® XL Plus
Membrane types	UF (HFM 180), MF (HFM 513)
Membrane area	83–499 m ²
Temperature range	10–55 °C
pH-range	2.0–10.5
Connected load	36–85 kW
Dimensions (W x D x H in mm)	Units <250 m ² : 3'537 x 4'432 x 3'323 Units >250 m ² : 4'794 x 4'432 x 3'323
Scope of supply	Circulation unit with control cabinet assembled on frame, filter module unit, fully automated PLC control with touch panel.

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Products and Services

Process technology for fruit and vegetable processing to juices, concentrates and puree production, for brewing solutions, for filtration, for milk powder production, for the vacuum drying of liquid and solid products, for freeze drying of coffee, tea, fruits, vegetable, etc. Technology for municipal and industrial sludge dewatering and drinking water filtration

Products

Fruit reception lines, mills, mash heaters, hydraulic presses, membrane filtration equipment, cold block equipment, adsorber, ion exchanger, evaporators and aroma plants, pasteurizers, CIP systems, vacuum and freeze drying cabinets and belt dryer, zeolite adsorber, complete processing lines

Services

Process development and project engineering; assembly and commissioning; technical support; original spare parts; inspection; service contracts; retrofits; training; service and maintenance; NetService