

LMA02 & LMS02 MEMBRANES TECHNICAL DATA



LMA02 & LMS02 Membranes

Polymer	PVDF COPOLYMER
pH Range	1.5 to 10.5
Maximum Pressure	7.0 BAR
Maximum Temperature	60°C
Feed Flow Rate	up to 30 l/min per single tube
Clean Water Flux (Typical)	min 750 l/m ² /hr at 15°C and 0.5 bar
Molecular Weight Cut Off	0.2 micron (NOMINAL)

CIP Solution

Step 1 Sodium hydroxide to pH 10.5 max. at 50-55°C. recirculated for 20 minutes.

Step 2 Sodium hydroxide to pH 10.5 max. plus sufficient sodium hypochlorite to give 220 ppm free chlorine (based on plant total volume), maximum 250 ppm at 50-55°C, recirculated for 30 minutes during

which further sodium hypochlorite may be added to maintain the level of free chlorine.

It is essential that the pH of 10.5 is achieved before addition of sodium hypochlorite in order to prevent attack of the membrane by the hypochlorite.

PCI Membranes (a Filtration Group brand) have proven experience in membrane technology, and its application in many industries, demonstrated over more than 45 years.

PCI products are used around the world to improve quality, efficiency and profitability, and to reduce waste.

The LMA02 & LMS02 Membranes have applications in many processes, in the food and beverage industries for example:

Dark Fruit Juice Clarification

Microfiltration using open-channel (tubular) membranes overcomes many of dark fruit juice clarification problems, and produces a high quality clear juice at low cost and with a significant reduction in the use of consumables. Furthermore, MF allows a much higher juice recovery to be realized in a single operation. To date the LM02 membrane has been successfully used to clarify a range of Dark Juice including cherry, blackcurrant, chokeberry and beetroot.

Red Wine Clarification

Wine can be clarified using a variety of techniques. Bag filtration, decanting and rotary vacuum filtration are all used to produce clear, visually acceptable wine. Microfiltration using membranes with a separation point produces crystal clear red wine which is also cold-sterilised by the membrane process.

PCI Membranes Guarantee of Quality encompasses:

- Highly-qualified technical support in product and process design and selection.
- Turnkey systems design, engineering and construction.
- Reliable, fast-response service network.
- Custom tailored membranes to optimize process performance.