

PENTAIR[®] X-FLOW[™] R-120 MICROFILTRATION MEMBRANE

ARTICLE CODES :2031EL422A

GENERAL INFORMATION

R-120 is a stainless steel module used for the filtration and/or clarification of aqueous solutions and beverages such as wine, juice or cider.

Mode of operation is feed and bleed in crossflow mode with regular backwash.

CONNECTION SPECIFICATIONS

Feed side Permeate side Tri clamp DN150 DIN 32676-B Tri clamp DN50 DIN 32676-A

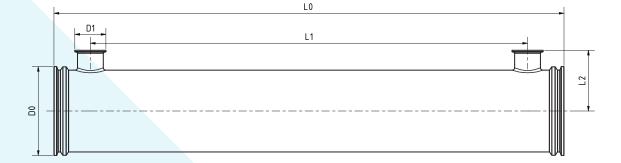
MATERIALS OF CONSTRUCTION

Housing	Stainless steel AISI 316/316L
Potting	Epoxy, food grade
0-ring	EPDM
Membrane	PES/PVP

MODULE SPECIFICATIONS

Module weight: 13,7 kgModule length L₀: 1050 mmPermeate port distance l₀: 900 mmPermeate port protrusion l₁: 125 mmFeed connection D₀: 183 mmPermeate connection D₁: 64 mm

HYDRAULIC MEMBRANE DIAMETER	MEMBRANE AREA
[mm]	[m ²]
1.5	12







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OPERATING SPECIFICATIONS

MAX. System Pressure	MAX. TRANS- MEMBRANE PRESSURE	MAX. BACKFLUSH PRESSURE	TEMP. Range
[kPa]	[kPa]	[kPa]	[°C]
at 20 °C 800	at 0-50 °C 300	at 0-30 °C 200	65
at 65 °C 600	at 50-65 °C 200	at 30-40 °C 150	
		at 40-65 °C 100	

PROCESS CHARACTERISTICS*

MEMBRANE DIAMETER	CROSSFLOW FLOW RATE (*)	PRESSURE-DROP ACROSS MODULE AT 1 M/S	PRESSURE-DROP ACROSS MODULE AT 2 M/S
[mm]	[m ³ /h]	[kPa]	[kPa]
1.5	12 x v	14	58

* Water, 20 °C

Superficial velocity (v) in m/s

- Final maximum operating limits are determined by the lowest values of the membrane and element pressure and temperature specifications
- Backwash water should be free of particulates and should be of permeate quality or better
- Backwash pumps should preferably be made of noncorroding materials, e.g. plastic or stainless steel. If compressed air is used to pressurize the backwash water, do not allow a two-phase air/water mixture to enter the element
- To avoid mechanical damage, do not subject the membrane module or element to sudden temperature changes, particularly decreasings. Do not exceed 65 °C process temperature. Bring the module or element back to ambient operating temperature slowly (typical value 2-3 °C/min). Failure to adhere to this guideline can result in irreparable damage

STORAGE

New membrane modules can be stored as supplied.

Membrane modules should be stored in a dry, normally ventilated place, away from sources of heat, ignition and direct sunlight. Store between 0 and 40 °C at a relative humidity between 20 and 80 %.

The membrane modules should not be subjected to any freezing temperatures.

After use, MF membranes can be dried. After drying the membrane can be spontaneously re-wetted without the use of any wetting agents.

To avoid biological growth during shutdowns or storage, wet membranes should be treated with a compatible biocide. The membrane is compatible with many common disinfecting agents or biocidal preservatives.

For short-term shutdowns, a daily flush with permeate quality water containing up to 2.0 ppm free available chlorine for 30 to 60 minutes may be adequate for bacteria control.

In case of long-term storage, membranes should be cleaned before the disinfection step is carried out. For disinfection, a 1% sodium metabisulfite solution can be used.



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