

PENTAIR® X-FLOW™ P-170A

MICROFILTRATION MEMBRANE

8" P-170A INSERT PSU 1.5MM MF02-LE
 ARTICLE CODE : 4142RL422A

GENERAL INFORMATION

Pentair X-Flow P-170A is a microfiltration insert used in food & beverage industry. For example for the separation of milk proteins.

The element is available as an insert, where the stainless steel housing is a part of the installation. For building in, one should follow the manual as delivered by the supplier.

MATERIALS OF CONSTRUCTION

- Art. No. 4142RL422A: P-170A insert: Spacer and spacer connection PP/PP; Potting EP resin; Potting ring: PES; Membrane PES/PVP, quantity 1
- Art. No. 09050209: O-ring 190x8mm Concentrate, EPDM black, quantity 2
- Art. No. 09050222: O-ring 200x8 mm Permeate: EPDM black, quantity 2

ELEMENT SPECIFICATIONS

ELEMENT TYPE	MEMBRANE DIAMETER [1] [MM]	MEMBRANE AREA [1] [M ²]
P-170A	1.5	17

[1] Nominal

Dry weight of total membrane insert: ca. 6 kg

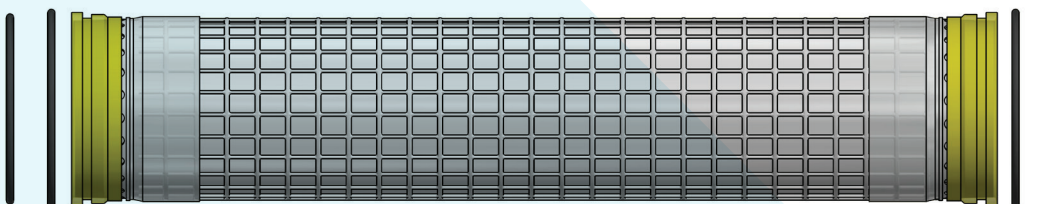
Length of the total membrane insert: ca. 1.0 m

MEMBRANE CHARACTERISTICS

- X-Flow B.V. product code: 1.5 MF02M2 LE
- Hydrophilic membrane composed of a blend of polyvinylpyrrolidone and polyethersulfone
- Structure asymmetric/microporous
- High performance and a very good anti-fouling behaviour

STORAGE

Dry membrane elements 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 ≤80% in the original packaging.



OPERATING SPECIFICATIONS

MAX. SYSTEM PRESSURE	MAX. TRANSMEMBRANE PRESSURE		MAX. BACKFLUSH PRESSURE		MAX. OPERATING TEMPERATURE
[kPa]	[kPa]		[kPa]		[°C]
Specified by system supplier	0 - 30 °C	300	0 - 30 °C	300	80 [1]
	30 - 60 °C	200	30 - 60 °C	200	
	60 - 80 °C	100	60 - 80 °C	100	

[1] This temperature can influence lifetime guaranteed by supplier

- Cleaning fluids should be of permeate quality or better
- Cleaning pumps should be made of non-corroding materials
- To help avoid mechanical damage, do not subject the membrane module or element to sudden temperature changes. Do never exceed the temperatures mentioned by the installation builder. During heating or cooling the max value 3°C/min above 35°C should never be exceeded. Failure to adhere to this guideline could result in irreparable damage
- To help avoid mechanical damage or leakage, avoid pressure shocks or water hammering at any time

CLEANING CHEMICAL RESISTANCE

Operation of membrane elements at any combination of maximum limits of pH, concentration of chemicals, pressure or temperature, during cleaning or production as mentioned by supplier, could influence the membrane and/or module lifetime.

START-UP

- New element should be cleaned during a complete Cleaning in Place (CIP), before start up
- The use of lubricant based on fat or oil should be avoided at any time

CERTIFICATIONS

- USA: FDA 21 CFR 177 compliant
- Europe: tested and in compliance with EU regulations EC 1935/2004 and EC 10/2011.



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