

Instruction for use

8" Spiral-Wound PuraMem® Selective, Performance and Flux Modules

SPECIFICATIONS PURAMEM® S, PURAMEM® P AND PURAMEM® F

General

- Membrane Material: Silicone-coated polyacrylonitrile (PAN)

Spiral Wound	8040
Nominal Size (Dia x L)	8.0"×40"
Nominal Membrane Area (m ²) ¹	30 – 35
Typical Feed Flow (L.h ⁻¹)	10,000 – 15,000
Standard Feed Spacer	30 mil (0.76 mm)

¹ Membrane area is a nominal value and depends on the spacer dimensions used in the module.

SOLVENT STABILITY

- PuraMem® membranes are stable in mild and non-polar solvents²:
 - e.g. Alcohols (e.g. Methanol, Ethanol, 2-Propanol)
 - Aliphatic hydrocarbons (e.g. Hexane, Heptane)
 - Aromatic hydrocarbons (e.g. Toluene, Xylene)
 - Butyl Acetate, Ethyl Acetate
 - Methyl-Ethyl-Ketone
 - Methyl-tert-Butyl-Ether
- PuraMem® membranes are not recommended for use in aqueous/water mixtures. For aqueous/organic solvent mixtures, please contact us for membrane recommendations.
- Female type of spiral-wound module

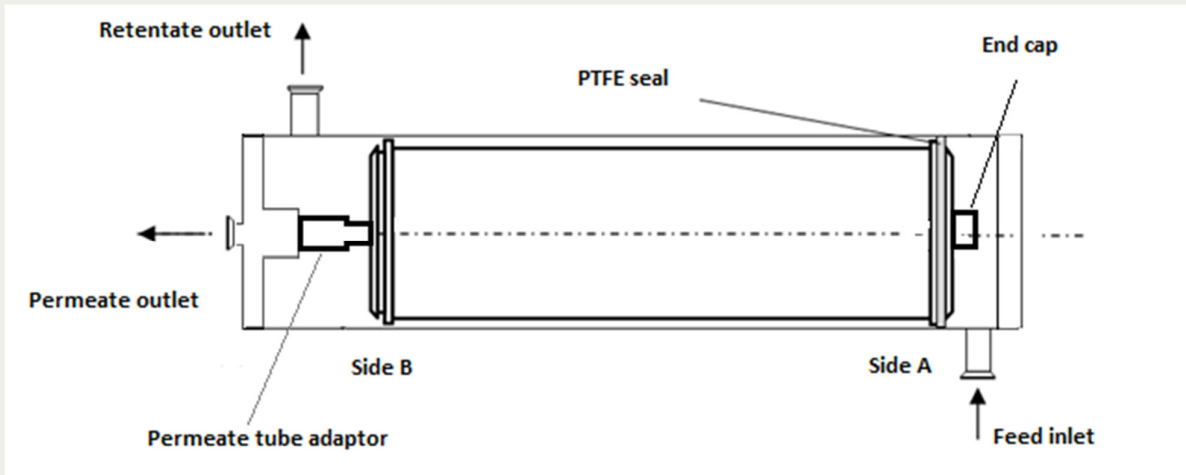
USE CONDITIONS

Typical Operating Pressure (bar)	20-40
Maximum Pressure (bar)	60
Maximum Temperature (°C)	50
Allowable pH	7

² Performance Data are approximate and based on flat-sheet membrane. Test conditions: toluene at 30 bar and 30°C.

³ Data referring to membrane sheets with pure solvents. If you intend to use a solvent not listed above please contact us for further advice.

MODULE POSITION IN HOUSING



TYPICAL MODULE INSTALLATION PROCEDURES

Spiral-wound membrane modules can be installed either individually or in series in a pressurized housing.

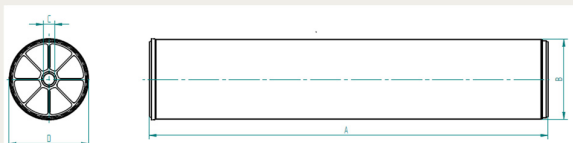
1. Membrane module should be installed inside a housing in a way that the (white) PTFE seal is facing the feed inlet.
2. Block one side of the module permeate tube, using an end cap (type and size?).
3. Connect a permeate tube adaptor into the other side of the module permeate tube (30.15 ± 0.05 mm inside diameter)
4. Hold the module assembly horizontally and insert it inside the housing slowly. Please keep the module assembly straight and do not bend the module or tube, and do not force the module into the housing (The PTFE seal should be facing the feed inlet (Side A)).
5. Install the flange with permeate tube into the housing (Side B) by connecting the permeate tube adaptor to the permeate tube of the flange by gently pushing the module assembly from Sides A to B. Make sure the permeate tube adaptor is aligned with the permeate tube before pushing, and do not apply excess force onto the tube while pushing.
6. Install the blank flange to close the housing (Side A).

PRECONDITIONING OF MEMBRANE MODULES

PuraMem® Selective, Performance and Flux membranes do not require preconditioning. Stable membrane performance is achieved after 3–4 hours filtration.

DIMENSIONS

8" Spiral-Wound PuraMem® Selective, Performance and Flux Modules



Module	A (mm)	B (mm)	C (mm)	D (mm)
8040	1016	200	30,15	201-203

STORAGE OF USED MODULES

Once installed and preconditioned (wetted), the membrane module should not be removed from the module housing. If the module will not be used for prolonged periods, the module housing should be filled with an appropriate organic solvent and the module stored *in situ*. The preconditioning procedure should be carried out prior to re-use. Please contact us if you have any questions.

Disclaimer

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