

Long-time proven membranes

PLEIADE® modules consist of flat-sheet PAN or PVDF membranes installed on plates.

Each module includes from 20 to 250 plates. Each plate has 0.35 m².

The membrane pore size is from 30 nm (~150 kD) to 200 nm. Alternative pore size possible on demand.

The module operates in cross-flow mode with open channel (liquid path without spacer). Liquid path thickness of 1.65 mm or 3 mm.



ALSYS experiences in the field of polymeric membranes technology

Industries	Applications	Benefits
- Automotive - Surface treatment - Agriculture & Food	- E-coat paint bath recycling - Demineralized rinsing water recycling - Clarification - Valorization of by-products	Liquid product recovery and recycle
- Automotive - Surface treatment - Leachate - Feed & Food - Chemicals	- Bioreactor treatment - Pre-filtration for reverse osmosis	Industrial or domestic waste water recycle

What makes PLEIADE® unique?

- Flexible membrane surface from 7 m² to 88 m²
- Easy maintenance: all membranes are accessible from ground level and can be individually isolated for troubleshooting
- **Long-time proven polymeric membranes**
- Designed for robust batch or continuous operations: open channel (liquid path without spacer) with large thickness
- High durability: membrane is clipped on a polypropylene plate. Plates are separated by nitrile seals. Frame is made of stainless steel

PLEIADE® polymeric membranes

- Fabric-backed polymer
- Materials: PAN, PVDF (or PES)
- Pore size: from 30 nm to 200 nm. Alternative pore size possible on demand.
- Temperature limitation: up to 45°C

ALSYS Pleiade®

Pleiade® Module

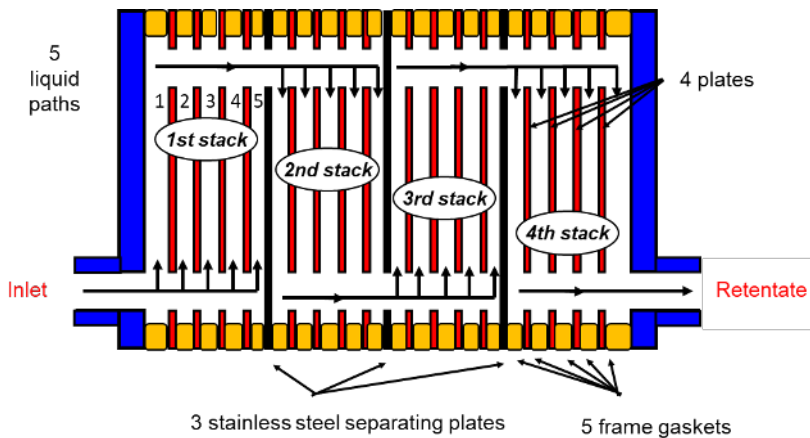


Focus on plate

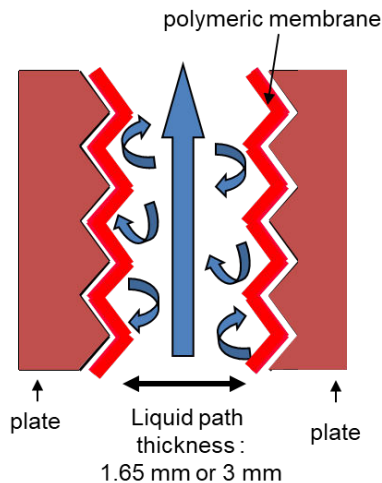


ALSYS Pleiade® principle

Pleiade® Module



Focus on liquid path



Technical Information

Specifications	
Total membrane surface	From 7 m ² to 88 m ²
Number of membrane plates	From 20 to 250 plates
Membrane surface area	0.35 m ² / plate
Liquid path thickness	1.65 mm or 3 mm
Height x Width x Length (mm) :	1710 x 438 x 1340 or 1920 or 2610
Standard Cut-off	PAN: 30 nm (~ 150 kD) PVDF: 100 nm, 200 nm