

# Pleiade® polymeric membranes

## Technical data sheet

### 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 m<sup>2</sup>.

The membrane pore size is from 30 nm (~150 kDa) 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.



### Experiences of ALSYS in the field of polymeric membranes technology

Industries	Applications	Benefits
<ul style="list-style-type: none"> <li>Automotive</li> <li>Surface treatment</li> <li>Agriculture &amp; Food</li> </ul>	<ul style="list-style-type: none"> <li>E-coat paint bath recycling</li> <li>Demineralized rinsing water recycling</li> <li>Clarification</li> <li>Valorization of by-products</li> </ul>	<ul style="list-style-type: none"> <li>Liquid product recovery and recycle</li> </ul>
<ul style="list-style-type: none"> <li>Automotive</li> <li>Surface treatment</li> <li>Leachate</li> <li>Feed &amp; Food</li> <li>Chemicals</li> </ul>	<ul style="list-style-type: none"> <li>Bioreactor treatment</li> <li>Pre-filtration for reverse osmosis</li> </ul>	<ul style="list-style-type: none"> <li>Industrial or domestic waste water recycle</li> </ul>

### What makes PLEIADE® unique?

- Flexible membrane surface from 7 m<sup>2</sup> to 88 m<sup>2</sup>
- 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

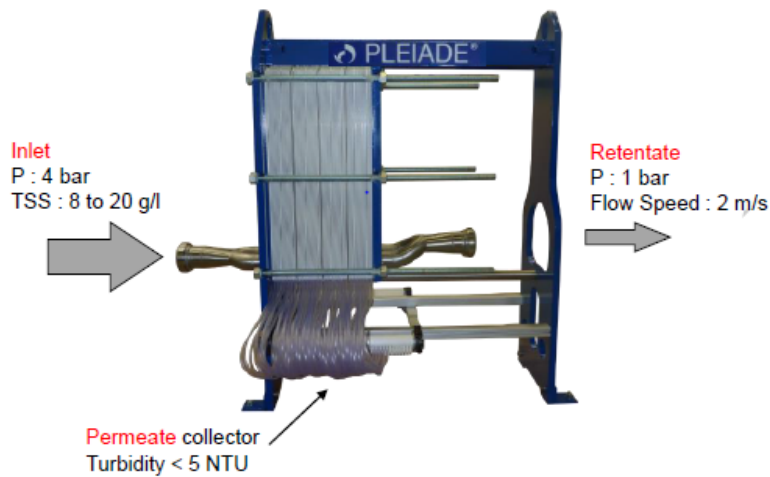
#### PLEIADE® polymeric membranes

- 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



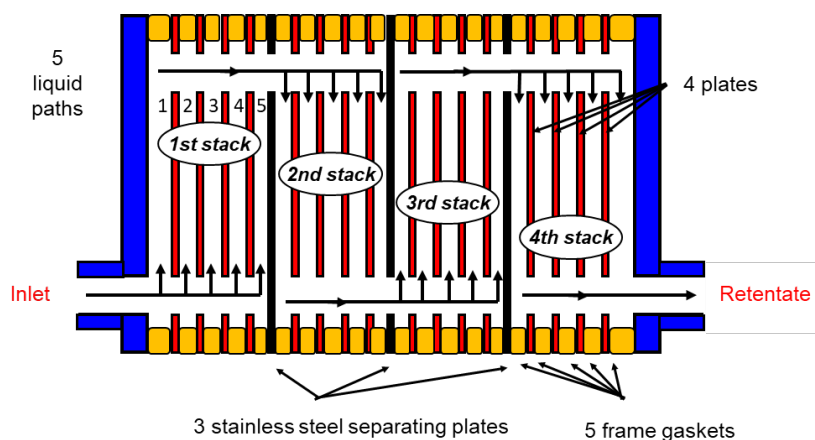
## Focus on plate



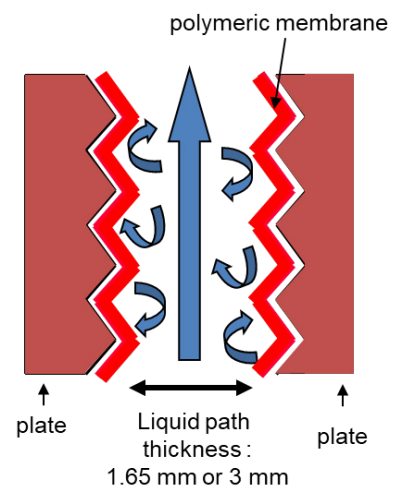
Each plate is individually removable

# ALSYS Pleiade® principle

## Pleiade® Module



## Focus on liquid path



## Technical Information

Specifications	
Total membrane surface	From 7 m <sup>2</sup> to 88 m <sup>2</sup>
Number of membrane plates	From 20 to 250 plates
Membrane surface area	0.35 m <sup>2</sup> / 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	<ul style="list-style-type: none"> <li>▶ PAN: 30 nm (~ 150 kDa)</li> <li>▶ PVDF: 100 nm, 200 nm</li> </ul>