

Membrane equipment



Technology



Module configuration



Area

The equipment

Apria Systems has designed a series of flexible membrane plants as **single stage or integrated in hybrid processes**, addressing a wide range of applications.

We select the most suitable commercial membranes and modules for each application. Likewise, in the cases that require it, we design and manufacture completely **tailor-made membrane modules**.

Our experts can help you find the most **suitable membrane technology** to meet your requirements.



Technologies

We have extensive experience in the **design, construction, and commissioning**, from laboratory to industrial scale, of the following technologies:



Pressure

- Microfiltration
- Nanofiltration
- Reverse osmosis
- Ultrafiltration



Concentration

- Forward osmosis
- Gas permeation
- Pressure retarded osmosis
- Reverse electrodialysis



Electric potential

- Electrodialysis
- Reversible electrodialysis



Temperature

- Membrane distillation

We offer a wide range of alternatives to adjust our equipment to your needs

Characteristics

Module configuration	Spiral / Hollow fiber / Plates and frames / Tubular
Operation mode	Continuous / recirculation
Flowrate (m³/h)	Selectable
Membrane material	Ceramic / polymeric
Case material	Polycarbonate (PC) / Polypropylene (PP) / Stainless steel
Sealing gaskets material	Ethylene propylene diene monomer (EPDM) / Thermoplastic polyurethane (TPU) / Viton [®]
Connection type	Barb fitting / Quick plug
Optional items	Automatization / Online measurements (pH, O ₂ , conductivity, etc.) / Temperature control