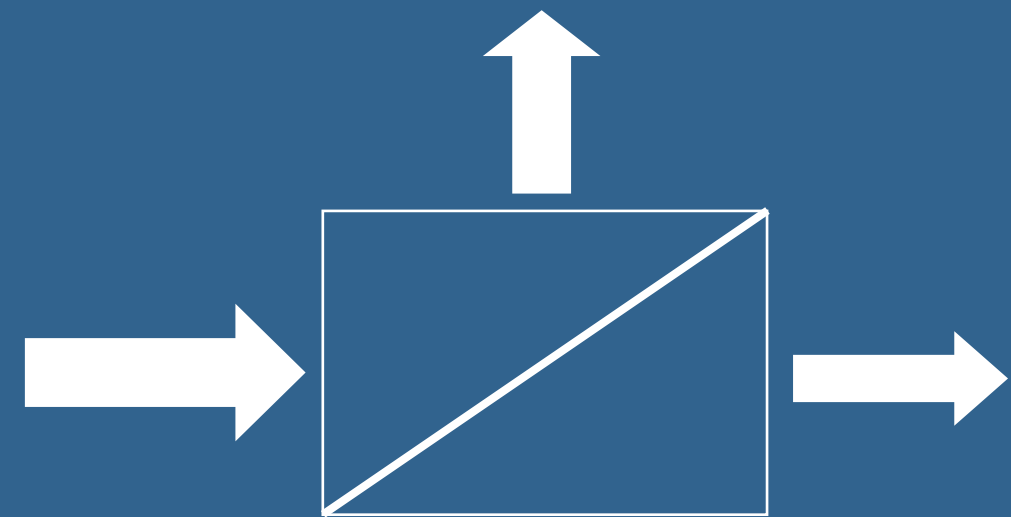


**EQUIPMENT FOR
TREATMENT, SEPARATION
AND PURIFICATION
THROUGH MEMBRANE
TECHNOLOGY**



Passion for innovation and service

ADVANCED SEPARATION PROCESSES THROUGH MEMBRANE TECHNOLOGY

APRIA Systems has extensive experience in design, construction and commissioning of equipment for membrane-based separation processes for research and process development purposes.

The equipment developed by APRIA Systems ranges from small laboratory scale to large pilot plant scale.

TECHNOLOGY

APRIA Systems applies cutting-edge technology to the filtration systems to guarantee the operational feasibility.

The technologies offered are:

- Microfiltration.
- Ultrafiltration.
- Nanofiltration.
- Reverse osmosis.
- Forward osmosis.
- Membrane distillation.
- Pervaporation.



APRIA Systems selects the most suitable membranes and modules for each application. If required, APRIA can design its own membrane modules tailored to the project requirements.



OUR COMPANY

APRIA Systems S.L. is a SME innovative company specialized in consultancy and engineering. Our activity is strongly influenced by research and development activities, accounting with highly specialized human resources.

Our main objective is to offer innovative alternatives, providing to our customer's bespoke solutions to fulfil the environmental regulations.

CUSTOMIZABLE EQUIPMENT SIMPLY TELL US YOUR PROJECT NEEDS

In APRIA Systems we know that each R&D project has its particular needs. Therefore, we adapt to our customer requirements, offering a wide range of alternatives to adjust our equipment to your needs.



The alternatives include:

- Pretreatment.
- Configuration of the membrane modules.
- Continuous and online measurements.
- Process operation: continuous, discontinuous or alternating.
- Level of automation in the process.

OUR EQUIPMENT

Some examples of equipment developed by APRIA Systems for R&D purposes at different scales can be found below.

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Membrane filtration pilot plant Pre-filter + UF



MAIN FEATURES

- ✓ Treated flow: 1-2 m³/h.
- ✓ Membrane module: hollow fibre “dead-end”.
- ✓ Automatized operation through PLC.
- ✓ Online measures of water quality and operational conditions.
- ✓ Pretreatment via filtration in porous media.

Membrane filtration pilot plant MF+UF+RO



MAIN FEATURES

- ✓ Treated flow: 1-2 m³/h.
- ✓ Membrane module: hollow fibre “dead-end” in spiral wound.
- ✓ Automatized operation through PLC.
- ✓ Online measures of water quality and operational conditions.
- ✓ Pretreatment via filtration in porous media.

Equipment for membrane distillation at lab scale (AGDM/DCDM)



MAIN FEATURES

- ✓ Membrane module configurable to operate in AGMD and DCMD.
- ✓ Measure and record of the main operational variables.
- ✓ Distribution and manoeuvre panel.
- ✓ Includes heat and cold service.