



ALSYS Group

PRODUCT BROCHURE

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CROSSFLOW FILTRATION MINIPILOT WITH ELECTRONIC INSTRUMENTATION

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ALSYS

Smart Filtration = Ceramic Membrane + Electronic Sensors for Rapid Testing

Crossflow filtration Minipilot with electronic instrumentation

Pilot systems from Orelis Environnement, Alsys Group, evolve with your needs. Designed for applied research and industrial development, the membrane filtration Minipilot is a **compact, mobile, and fully instrumented unit**.

It enables **crossflow filtration of liquids**, using high-performance MicroKleansep™ ceramic tubular membranes. Ceramic membranes provide excellent chemical resistance, high thermal stability, and proven durability, even under harsh conditions.

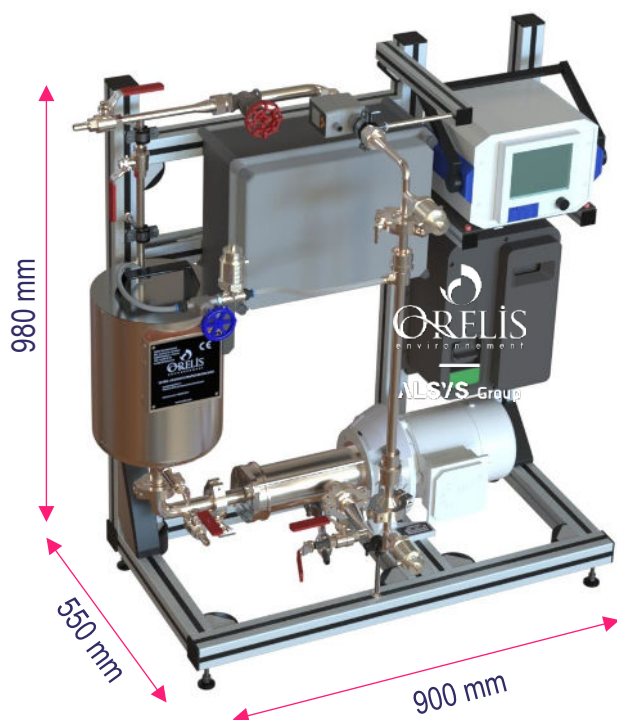
The Minipilot is equipped with integrated electronic sensors, enabling continuous measurement of pressure, temperature, and flow rate .

An analog input is also available to connect external equipment for continuous monitoring of an additional parameter (equipment not included).

You benefit from **precise, real-time control** to optimize the filtration process conditions at every step.

The Minipilot is designed specifically for Proof of Concept, **laboratory-scale feasibility studies**. The results obtained may be used to guide the selection of membranes to be used for pilot testing.

Minipilot – Technical Specifications



MicroKleansep Ceramic Tubular Membrane: single-channel MF, UF, and/or NF, 400 mm length

Integrated Digital Instrumentation: 3 pressure transmitters, 1 temperature transmitter, 1 circulation flow transmitter. Data retrieval via USB / RJ45 and SD card. 1 available analog input for customer-specific measurement

Compact Design: skid with casters for easy mobility. 5 L double-jacketed tank. Operating pressure up to 4 bar

Durable Materials: 316L stainless steel, EPDM/FPM seals

Control & Automation: manual operation with data acquisition and storage

Technology: crossflow filtration – process fluid flows across the membrane surface, promoting efficient separation

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An essential tool for product developers and operations personnel, alike

Whatever your role in the value chain...

...or your **field** – food and beverage, biotech, chemistry, pharmaceuticals, nuclear – the Orelis Minipilot is a reliable and flexible tool which will help you to innovate, validate, and save time.

R&D laboratories

- **Accelerate your innovations** with a pilot as precise as your expectations.

Technical centers & Universities

- The go-to tool for teaching, exploring, and validating **tomorrow's technologies**.

Membrane Subject Matter Experts

- Test before investing: **reliability, flexibility, and quality control** in one unit.

Industrial OEMs and membrane system builders

- **Secure your technical choices** early, right from the pilot phase.



The Minipilot is designed for:



- ✓ **Testing** robust and high-performance membrane solutions,
- ✓ Accurately **measure** all key parameters,
- ✓ **Validate** feasibility,
- ✓ **Reduce** costs and risks associated with testing.

Learn more about the Minipilot from Orelis Environnement, Alsys Group. Contact us: orelis@alsys-group.com

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