

# PONI

## Innovative Pilot Unit for Advanced Membrane Filtration Solutions in Industry and Research



PONI is a versatile pilot unit tailored for research and development trials within industrial applications, providing flexibility for a wide range of membrane filtration processes.

### Technical Specifications

- **Membrane Area:** 0.04 to 1 m<sup>2</sup>
- **Module Concept:** DT (Disc Tube)
- **Supported Membrane Types:** Ultrafiltration (UF), Nanofiltration (NF), Reverse Osmosis (RO)
- **Permeate Capacity:**  
20-80 L/h for UF  
10-50 L/h for NF  
5-30 L/h for RO
- **Maximum Operating Pressure:** 64 bar
- **Maximum Operating Temperature:** 80°C
- **pH Range:** 0-14
- **Steel Quality:** 1.4571 (stainless steel)

PONI delivers high-quality, scalable data, making it a pilot unit for membrane filtration in both research and industrial applications.

### Key Features and Capabilities

- ✓ **Wide Membrane Compatibility**  
PONI can accommodate various membrane types, ranging from open ultrafiltration (UF) to high-pressure reverse osmosis (RO). This flexibility allows users to test and apply membranes in diverse industrial settings.
- ✓ **Adjustable Membrane Area**
  - The membrane area can be adjusted between 0.4 and 1m<sup>2</sup> using DT Modules.
  - For more membrane screening, smaller test cells with an area of 0.04 m<sup>2</sup> are available. This enables PONI to support cross-flow processes from membrane screening up to small-scale production.
- ✓ **Reliable Scale-Up Data**  
The Pilot Unit is equipped with a DT Module, which is also utilized in full-scale applications. This ensures that the data generated from PONI's tests are reliable and suitable for scaling up from laboratory to larger technical applications.
- ✓ **Durability and Flexibility**  
Made of stainless steel (quality 1.4571), PONI is designed to be compatible with most industrial products and processes, ensuring long-term reliability and wide applicability.



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