KOVALUS Separation Solutions™

Technology Center Europe

Process Consulting

Every process is different – that's why we provide personalized consulting to define the best membrane technology, system design and operating strategy for your specific application.

Whether in food & beverage, dairy, pharmaceutical, or environmental industries, we help you achieve optimal separation performance since 1963.

Membrane Screening

As a global leader and pioneer in membrane manufacturing, we offer the broadest membrane portfolio worldwide.

With Kovalus as your partner, you benefit from decades of filtration and separation expertise, helping you identify the best membrane that delivers optimal performance for your unique application.

Proof of Concept Testing

Before scaling up, we test the selected membrane under realistic process conditions. This provides reliable data to validate CAPEX and OPEX - ensuring a well-informed investment decision.

Laboratory Equipment

- LabCell pilot units for MF, UF, NF, and RO flat sheet membrane screening
- Multipurpose pilot units for spiral-wound, hollow-fiber, and ceramic micro- and ultrafiltration elements

Fast & Precise Analysis

- Dry matter, Brix, suspended solids, spin solids
- Viscosity and turbidity
- UV/VIS measurements (e.g., COD, total nitrogen, color) using Nanocolor-series photometers
- pH and conductivity

Trusted Solutions.

The Kovalus pilot fleet enables hands-on testing of innovative processes, validation of key performance parameters, and the development of new applications at industrial scale. Presented below is a selection of our pilot fleet, which includes more than 20 highly specialized pilot systems designed to deliver optimal piloting results. Each pilot system is specifically engineered for advanced, state-of-the-art membrane process applications.

Pilot System	Type	Application
	MF, UF, NF & RO Labcell CF 2 (40 bar) Labcell CF 3 (63 bar) Pilot Systems Flatsheet Testing	**All Process Applications**
	UF/MF Multi-Purpose Pilot Systems 2.5” Spiral Wound, 1“ HF, 1” Ceramic	**All Process Applications**
	Spiral Wound MF/UF Pilot Systems Sani-Pro 3.8”, 6.4” or 8”, 2 Stages-in-Series	**Protein, Food & Biotech**
	High Pressure (PN 63) Spiral Wound NF/RO Pilot Systems Sani-Pro 3.8” or 8”	**Protein, Food & Biotech**
	Tubular Ceramic MF/UF Pilot Systems 7 x 1.6” Ceramic	**Protein, Food, Biotech & Industrial Applications**

Proven Performance.

We support you throughout the entire implementation process – from the initial inquiry to a fully operational solution. Based on your specific requirements, we select the most suitable products and take care of the customized design and engineering of your system.

Pilot System	Type	Application
	Spiral Wound MF/UF Pilot Systems Sani-Pro 3.8", 6.4" or 8" 2 Stages-in-Series, incl. water heater	**Protein, Food & Biotech**
	Tubular MF/UF Pilot Systems SUPER-COR® 3" & SUPER-G® 3" Multi-Tube	**Food, Beverage & Biotech**
	Hollow Fiber MF/UF Pilot Systems ROMICON® Cartridges	**Beverage, Wine & Vinegar**
	Winefilter Pilot Systems 5" Hollow Fiber Cartridges	**Wine, Beverage, Food, & Fermentation Broth**
	Tubular FEG PLUS® Pilot Systems 8 x 1" Tubes	**Industrial & Environmental Applications**

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1. Early-Stage Development

- Definition of challenges and objectives
- Lab-scale membrane & resin testing
- Access to process and R&D experts

2. Field Testing

- Pilot trials under realistic conditions
- Performance evaluation
- Validation of capital and operating costs (CAPEX/OPEX)

3. Full-Scale Execution

- Professional project management and implementation
- Construction, installation & commissioning
- Operator training and documentation

4. Long-Term Support

- Troubleshooting and system optimization
- Dedicated support team for remote and on-site assistance
- Full lifecycle service to ensure consistent, reliable performance through KSS ASSIST

Analysis | Consulting | Implementation

For complete contact information and listing of our global locations, visit www.kovalus.com
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