

Precision Processing for Pharma & Life Sciences

Scalable, clean, and proven technologies for heat-sensitive separations, solvent recovery, and continuous processing.

Designed for the demands of today's pharmaceutical innovation.

Clean, Reliable, and Scalable Solutions Backed by Over 90 Years of Innovation

Artisan Industries provides cGMP-ready thin-film and hybrid systems to purify heat-sensitive, high-viscosity, and fouling-prone materials. From R&D to full-scale production, we support your process with expert design, engineering, and pilot testing.

- ✓ Designed for cGMP & cleanroom readiness
- ✓ Fast, gentle processing for thermolabile products
- ✓ Compact systems for lab, pilot, and production use
- ✓ Flexible configurations for batch, semi-continuous, or fully continuous systems
- ✓ Process validation support and scale-up guidance

Core Technologies

-  Thin Film Evaporators and Dryers
-  Short Path Evaporation
-  Hybrid Thermal & Reaction Systems
-  Solvent Recovery & Purification Units
-  Pilot Plant & Modular Skids
-  Continuous Flow Integration

PROVEN IN PHARMA & BIOTECH: FROM LAB SCALE TO FULL PRODUCTION

Applications Include:

- Purification of heat-sensitive APIs (small molecules, biologics, intermediates)
- Removal and recovery of Class I, II, and III solvents
- Solvent exchange and drying for formulation use
- Processing high-viscosity or fouling-prone materials
- Concentration of fermentation broths or downstream products
- Pilot testing for scale-up data to de-risk commercial design
- Continuous processing development for new product launches

Example Use Cases:

Top 5 Biotech Company: Installed a thin-film evaporator system to purify PEG under cGMP for an mRNA vaccine platform—achieving repeatable performance and rapid solvent recovery.

CDMO Client: Enabled transition from batch to continuous evaporation, increasing yield by 15% and minimizing product degradation.

R&D Pilot Partner: Partnered with pharma process team to test purification of novel excipient under vacuum using our pilot TFE system; results supported internal capital justification.



SPECIALIZED SOLUTIONS FOR CHALLENGING FEEDS

Rototherm® Processor

Purifies heat-sensitive, foaming, viscous, or solids-containing APIs and other materials with single-pass precision. Ideal for rapid solvent recovery and recycling.



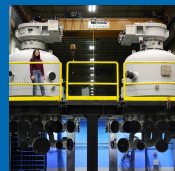
Evaporator/Stripper® and Short Path Stripper®

Removes volatile impurities to ppm levels under deep vacuum in a single continuous pass. Tube-and-disc design maximizes mass transfer with minimal pressure drop and gas usage.



Rotary Valves

For continuous SMB (simulated moving bed) separation processes such as API isolation, chiral separations, and protein purification—customizable up to 24 ports for synchronized, uninterrupted performance.



Pervaporation Systems

Break azeotropes and dry organic solvents with robust membranes for compact and efficient single-step separation.



Certifications & Clean Design

- 316L stainless and other pharma-grade materials
- Electropolished, jacketed, and cleanable designs
- Systems compatible with CIP/SIP and inerting
- Full documentation packages available for compliance and validation
- All systems built and factory tested in the USA

TRY BEFORE YOU SCALE

Pilot Testing & Site
Rentals Available

Our on-site pilot facility is one of the most advanced in the industry. We also offer test system rentals for use at your location.



From Concept to Scale-Up, Here's How We Support You

- 1 **Discovery & Feasibility** – Share your application and constraints, we evaluate your process and requirements
- 2 **Pilot Testing & Data Collection** – Test in our lab or yours
- 3 **System Design & Custom Build** – Fit-for-purpose, custom-engineered systems to meet your specs with cGMP design options
- 4 **Site Support & Optimization** – Startup assistance, training, validation support, service



Let us solve your toughest process challenges.

Contact us to schedule a pilot test or get a technical consultation.

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