

THE ARTISAN SHORT PATH STRIPPER

Advanced Distillation Technology

Artisan Industries Inc. offers a revolutionary alternative to traditional distillation techniques with our Short Path Stripper® (SPS) technology. The SPS features a unique design, incorporating a multiple-stage falling film evaporator with an internal tube condenser. This configuration allows for efficient stripping operations, condensing evaporated volatile components, and facilitating gravity-based separation of the condensed volatiles and product. Unlike single stage Short Path Evaporator (SPE) units, the SPS can be customized with multiple stages of separation.

Key Advantages

Multiple Equilibrium Stages → Lower capital cost for multistage designs, smaller equipment footprint, and reduced installation costs

Higher Product Yield and Purity → Achieves higher product yield and purity by removing larger quantities of contaminants while minimizing product losses without reducing feed rates

No Moving Parts → Lower operating costs, decreased cost of ownership over the equipment's lifetime, easy maintenance, and minimal downtime

Applications

- Concentration
- Purification
- Dehydration
- Solvent Recovery
- Drying

Industries

- Chemical
- Food & Beverage
- Pharmaceutical
- Edible Oils
- Polymer



Capabilities

- ★ Processes heat sensitive materials
- ★ Multiple equilibrium stages
- ★ Can operate at deep vacuum
- ★ Short residence time (<90s)
- ★ No moving parts
- ★ Viscosities up to 8,000 cP
- ★ Can strip out contaminants
- ★ Can evaporate desired components
- ★ Custom designed in the USA

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Technical Specifications

Artisan Industries designs each Artisan SPS® for optimum performance based on the specific application. An SPS® can range in size from 2" to 36" in diameter and with 1 to over 4 stages (13 to 52 disc and tubes). The size of the unit largely depends on the feed rate, evaporation rate, operating pressure, and final product specifications. A single unit can process as little as a few pounds an hour to as much as thousands of pounds of material per hour, depending on the size of the unit. The SPS® jackets can be designed for hot water, steam or hot oil heating, depending on the application operating temperature. Construction materials include stainless steel (300 series and Duplex), carbon steel, nickel, Inconel®, Monel®, Hastelloy®, and titanium. The SPS® can be designed for food or chemical grade and any location requirements (geographic and area classification).

Size Range: The Artisan SPS® is available in diameters ranging from 2" to 36", with 1 to over 4 stages (13 to 52 disc and tubes).

Capacity: Units can process from a few pounds to thousands of pounds of material per hour, based on size and application.

Construction Materials: Stainless steel (300 series and Duplex), carbon steel, nickel, Inconel®, Monel®, Hastelloy®, and titanium.

Operating Conditions: Jackets can be designed for hot water, steam, or hot oil heating, suitable for various operating temperatures and environments.

