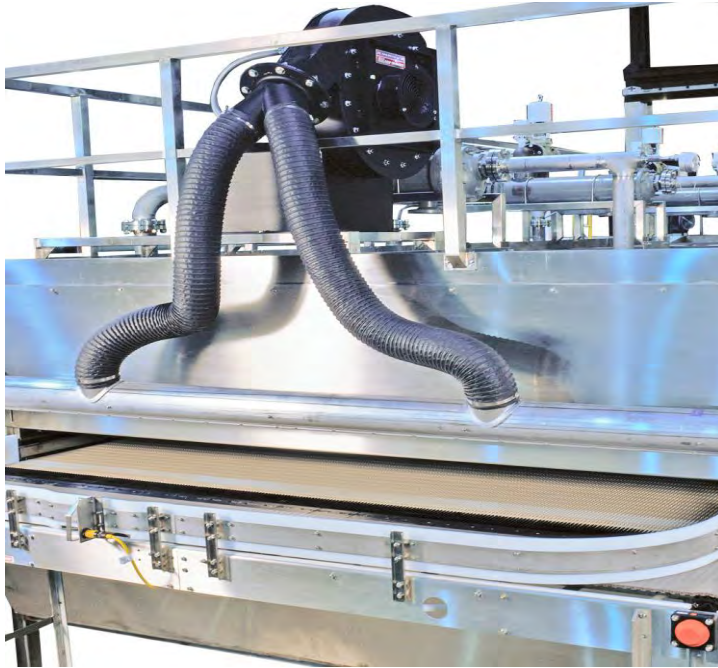


# SPRAY WARMER



The Busse/SJI Spray Warmer is designed to meet the most exacting cold-filled beverage processing requirements. Built from the finest materials the modular, robust, all stainless steel construction combines first class craftsmanship, safety and reliability. Available heating methods include shell and tube, plate and frame, and direct injection steam or hot water heat exchangers.

**SCIENTIFIC APPROACH** — Busse/SJI uses comprehensive product testing to determine the proper size of spray warmers. Busse/SJI product specialists follow an advanced scientific methodology that is proven to accurately predict the warming performance of each product. The result is consistent, repeatable performance and the confidence that product is correctly processed.

**EFFICIENT** - The Busse/SJI scientific approach to analysis and design helps ensure that the equipment will not only perform consistently over time, but that operating costs are kept to a minimum. A host of water conservation options are available to help companies save money and protect the environment. In addition, a variety of energy conservation methods are available to further reduce operating costs.

**MODULAR DESIGN** — The design of Busse/SJI Spray Warmers features standard modules available in several different widths. These modules can be combined to form units in varying lengths to accommodate almost any processing requirements. Installation and shipping costs are kept to a minimum. This design feature also means that you can upgrade your equipment as production needs evolve - maximizing your equipment investment.

**RELIABLE** — Busse/SJI Warmers are built to operate 24/7/365. Exclusive features such as the patented tab lock bed design help ensure maximum uptime and low maintenance. Center shaft bearings are metallic for long life. Large orifice spray nozzles have a wide angle spray pattern that limits the number of nozzles needed, while virtually eliminating clogging.

**PROVEN** — Busse/SJI Spray Warmers are the result of more than 60 years combined experience delivering thermal solutions to a wide range of industries.

# SPRAY WARMER



## FEATURES AND BENEFITS

- **Modular Design:** Busse/SJI features modular construction which results in tremendous flexibility. Companies can purchase equipment based on current production needs without sacrificing their investment as production requirements change over time
- **Efficient Operation:** A number of Water Conservation options are available to keep operating costs to a minimum. A variety of Energy Conservation options are also available to minimize energy usage.
- **Flexibility:** A full complement of accessories and optional upgrades are available to allow users to customize the machine to their specific layout and operational needs.
- **Easy Installation:** Modules are shipped completely assembled for quick, simple installation, eliminating any on-site welding. Modules are pre-plumbed with quick connect fittings. All pumps and mechanical components are machine mounted. Electrical conduit is pre-installed with unions at all field joints.
- **Low Maintenance:** Busse/SJI incorporates a number of design features that reduce maintenance and ensure maximum uptime. A sloped sump bottom and large access doors allow easy clean-out. The Patented Tab Lock Slide Bed design makes wearstrip changes fast and easy. Isolation valves allow quick-change pump maintenance. Basket strainers at suction points allow simple, fast cleaning. In short, a Busse/SJI Spray Warmer helps companies reduce their total operating costs.

## SPECIFICATIONS

	Standard Specifications	Available Options
<b>Construction</b>	Modular Design, T304 Stainless Steel with Removable Side Panels, Patented Tab-Lock Slider Bed, Air Knife Water Blow-Off System	Viewing Ports
<b>Available Widths</b>	4'-0", 6'-0", 8'-0", 10'-0", 12'-0", 14'-0", 16'-0"	Other widths upon request
<b>Module Lengths</b>	4'-0" and 6'-0" Drive or Idle modules, 6'-0" and 8'-0" Intermediate modules	Other module lengths upon request (up to 8'-0" maximum)
<b>Power Transmission</b>	Shaft-Mounted Drive Package	Dual Drives
<b>Shafting</b>	Stainless Steel Shafts with Metallic Center Bearings for Structural Rigidity and Long Life	Split Shafts (with Dual Side Drives)
<b>Transport Belting</b>	Heavy-Duty Modular Plastic Belting	Raised Rib Belting, Small Pitch Plastic Belting, Dynamic Transfer Interface on Infeed and Discharge
<b>Spray Nozzles</b>	High Volume, Low Pressure System with Large Orifice Brass Nozzles	Stainless Steel Nozzles
<b>Piping System</b>	T304 Stainless Steel, Welded Piping with Flange Fittings at Module Joints	T316 Piping
<b>Controls</b>	Free-Standing NEMA 4X Control Panel with AC Inverter for Main Cooler Drive, Thermometers and Gauges at All Pump Headers	PLC Based Controls, Graphical User Interface, Uplink to Supervisory System
<b>Sanitation Features</b>	Sloped Sump Bottom with Large Access Doors. Removable Top Manways, Basket-style Suction Strainers	Double Screened Drop Boxes, Self-cleaning Pressure Strainers, Clean-in-Place or Boil-Out Systems
<b>Available Heating Options</b>	Shell and tube, Plate and frame, Direct injection steam or hot water heat exchangers.	
<b>Other Options</b>	Steam control packages, Condensate return systems, Continuous-Motion Short-Stoke Pusher Infeed, Infeed and Discharge Conveyor Systems, Clean-in-place systems, Histogram Reporting, Data Logging	
<b>Contact Arrow Conveyor for Special Configurations and Custom Options</b>		