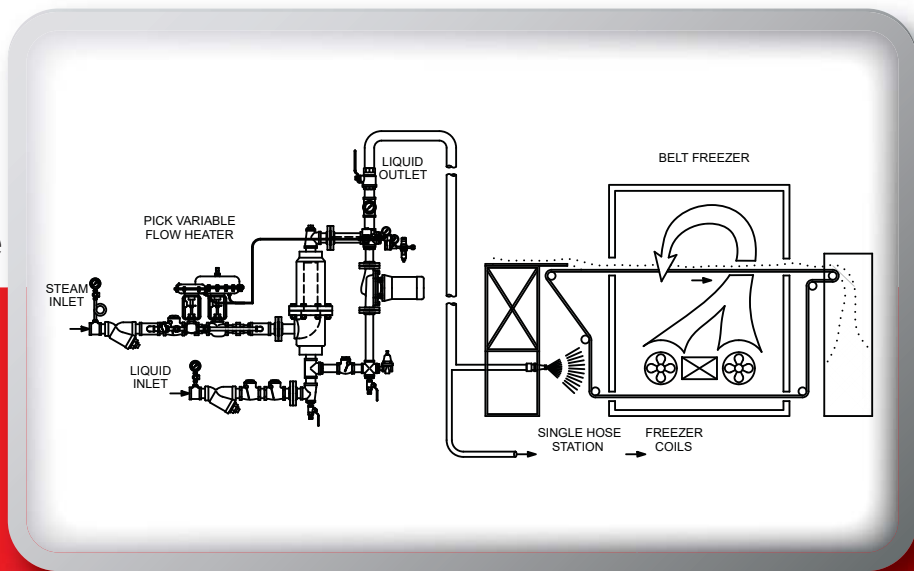




Process Heating Solutions Worldwide

Food Processing Industry Case History



Defrost Belt Freezers

Application

Frozen vegetable processor required a method to remove ice build-up on multiple belt freezers. The product was continuously fed on a conveyor belt through a freezer system to keep up with production demands. Ice build up on the belts must be melted at timed intervals. Hot water was distributed onto the belts via a series of spray heads. Water demand varies based on sequencing of washing cycles and number of systems in operation. Additional hot water is used to defrost refrigeration coils and supply a nearby single hose station for plant wash down in freezer area.

Process Conditions

Water Flow Rate:	30-250 GPM
Temperature Rise:	15°F
Final Temperature:	85°F
Steam Supply Pressure:	110 PSIG
Water Supply Pressure:	40 PSI
Steam Flow Required:	200-1600 lb/hr

Solution

Pick 6X50 Variable Flow Heater designed with 4" water piping suitable for 250 GPM water flow rate. Dual steam valves are included to handle a wide range of steam flow demand. The Variable Flow Heater provides smooth performance in responding to intermittent operation and changes in water flow rates.

Learn more at www.pickheaters.com

Pick Heaters, Inc. — 730 S. Indiana Ave. — West Bend, WI 53095 USA
Phone: (262) 338-1191 — Email: info1@pickheaters.com

Features and Benefits:

- Instantaneous Supply of Hot Water
- Compact Design
- Turndown Capabilities
- Single Source of Hot Water for Multiple Use Points