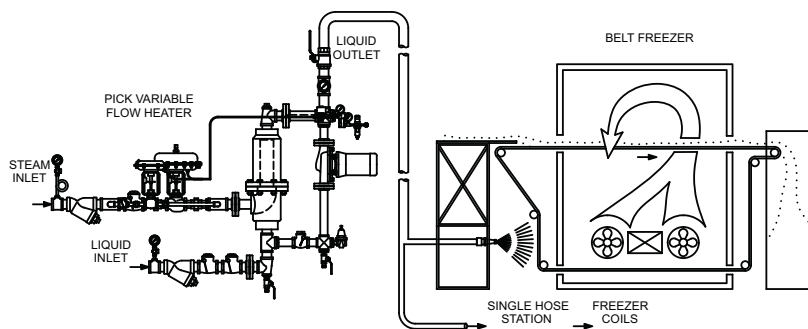


## Defrost Belt Freezers

### Features and Benefits:

- ◆ *Instantaneous Supply of Hot Water*
- ◆ *Compact Design*
- ◆ *Turndown Capabilities*
- ◆ *Single Source of Hot Water for*



## Food Processing Industry Case History

### 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.