

Process Heating Solutions Worldwide



Plate and Frame Package for Plant Sanitation

PCD- The Division of Pick Heaters, Inc. Dedicated to Providing Process Heating Solutions in Innovative Ways

Application

A beef processing plant specified the use of plate-and-frame heat exchangers for supplying 160°F water for plant sanitation. A hot water system was critical to plant operations so redundancy was to be designed into the system. The selected exchangers had to have gaskets rated for steam duty.

Process Conditions

Water Flow Rate:	150 GPM
Water Pressure:	60 PSIG
Steam Supply :	50 PSIG
Temperature Rise:	100°F
Discharge Temperature:	160°F

Solution

Pick Custom Design, a division of Pick Heaters, designed and packaged a single skid with two plate-and-frame exchangers, each featuring EPDM gaskets with a 34-plate package. A single rotary ball steam control valve served to regulate steam flow to either exchanger. Likewise a single trap and condensate return line was included. System piping arrangement and use of isolation butterfly valves allowed for operation of either exchanger, providing required back-up. A C-channel floor frame supported the entire package within a 4 ft. by 10 ft. footprint.

Features and Benefits:

- Plate Gaskets Rated for Steam Temperatures
- Redundant Capability
- Single Source Supply

Learn more at www.pickheaters.com

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