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.

Learn more at www.pickheaters.com
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