Process Heating Solutions Worldwide

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

Application
A pharmaceutical company required a system to provide process heating or cooling in the pilot lab. Brine was selected as the heat transfer media, thus ruling out the use of steam injection.

Customer wanted a drop in place skid- not a “box of parts” as offered by other vendors.

Process Conditions
Brine Circulation: 40 GPM
Duty: 500,000 BTU/hr
Steam supply: 30 PSIG, Saturated
Chilled Water Supply: 20 PSIG

Solution
Pick designed a packaged system utilizing two (2) shell and tube heat exchangers in series. An automated 3-way divert valve was used to select between heating and cooling modes. System included steam and chilled water control valves with associated piping/fittings plus instrumentation to interface with customer’s DCS.

Features and Benefits:

- Central System Circulates Brine Through Multiple Heat Exchange Devices in Pilot Lab
- System Easily Switches From Heating to Cooling Mode