

## Case Study

### Water Source Heat Pump Condenser Water System—510125

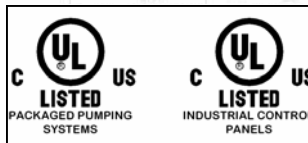
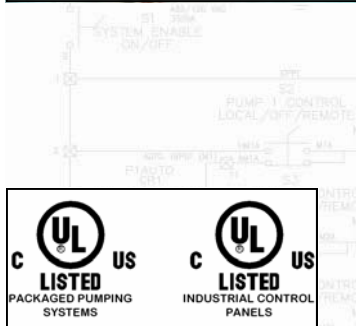
#### SYSTEM DESCRIPTION

The Water Source Heat Pump Condenser Water System project is a complete Condenser Water System for use with Water Source Heat Pumps for a commercial High Rise building. The system furnished includes all controls required for stand-alone control of Cooling Towers, Pumps, Hot Water Boilers, and Heat Exchangers by maintaining consistent temperature in the Condenser Loop.



#### PERFORMANCE DATA

- 9,750 GPM Condenser Water Pumping capacity - ANSI 250—200 Hp Vertical Inline Split-coupled Pumps
- Three (3) 3,250 GPM ASME 300 psig Plate & Frame Heat Exchangers
- 8,700 GPM Cooling Tower Water Pumping capacity
- Two (2) 6.0 MMBTU/hr Hot Water Boilers
- Hot Water Primary and Secondary Pumps with Heat Exchanger Loop Isolation
- Three (3) Open Cooling Towers with Variable Speed Fan Control
- Two (2) Supplemental, Triplex Variable Speed Booster Pump Packages
- Siemens S7 PLC System Controller with 14" Schematic Touch Screen Operator Interface



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