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Hot Water Generation - Steam/Water Single Wall

Flo-Rite-Temp® Steam/Water Shell and Tube Heat Exchanger Pre-Piped Tempered Water Recirculating

Model FRT665P80BS

FRT665P80BS is a complete pre-piped parallel (redundant) single wall instantaneous steam/water shell and tube heater. The assembly includes two 665 instantaneous Flo-Rite-Temp water heaters with a Digital Recirculating Valve (DRV80) and BrainScan® hot water monitoring control module.

Digital technology provides enhanced water temperature control accuracy and enhanced user safety in a single control component. BrainScan® technology to remotely view and adjust set point, data log and monitor inlet hot, inlet cold/return and mixed water outlet with multiple BAS interface options.

Operational Specifications

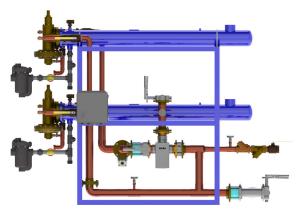
- +/-2°F water temperature control at points of use 25' downstream during demand
- +/-2°F water temperature control during zero system demand "idling" periods
- 2°F minimum valve inlet to outlet temperature requirement (system recirculation temperature loss)
- Automatic shutoff of hot water flow upon cold water inlet supply failure
- Automatic shutoff of hot water flow in the event of a power failure
- Programmable set point range of 81-158°F (27-70°C)
- · Programmable 1st level hi/lo temp alarm display
- · Programmable temperature error level for safety shutdown

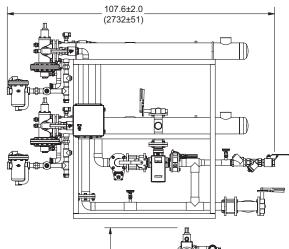
Technical Specifications

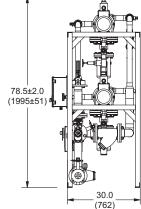
- · Maximum steam pressure: 15 PSIG
- Maximum domestic pressure: 150 PSI
- · Minimum recirculation flow: 10 GPM
- Design conditions: Domestic-73 GPM (Redundant)/165 GPM (Parallel) at 100°F delta T using 15 PSIG steam
- · Complete assembly Lead Free Compliant
- All domestic side valve fittings and isolation valves, strainers, inlet/return check valves, inlet system blend and return thermometers pre-piped.
- DRV all wetted parts 316 stainless steel
- DRV to be UL Listed
- Heat exchanger tubes shall be straight 5/8" OD admiralty brass expanded into Navel Brass tube sheets with a free floating bolted end cover
- · Water pipe of type L copper
- Fabricated carbon steel frame with machine grade enamel paint
- 120 volt power supply required
- ModBus RTU Connectivity to communicate directly with BAS (Building Automation System)

Standard Materials of Construction

- · Control Valve: Lead Free Bronze
- · Water pipe: Type L Copper
- · Fittings: Lead Free Brass/Bronze
- Tube bundle: Admiralty Brass tubes expanded into Navel Brass tube sheets
- Heat Exchanger Shell: Carbon Steel
- Steam Trap: Model 814 Cast Iron
- Air Vent: Model TS-2 angle-pattern-bronze
- · Vacuum Breaker: Brass
- · Digital Mixing Valve: Stainless Steel







Connectivity

BrainScan® – Is an optionally selected control module from Armstrong which enables an interface with Building Automation Systems (BAS) which utilize Modbus, Bacnet™ or LonWorks™ protocols via the use of specific protocessor cards. BrainScan® also has an ethernet port and operates as a web server for remote network access.

BrainScan® has the following outputs:

- Set Point
- · Inlet/Outlet Temperature
- · Over Temperature Alert
- Error Messages

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.