



## Hot Water Generation – Steam/Water Double Wall

### Flo-Rite-Temp® Steam/Water Shell and Tube Heat Exchanger Pre-Piped Single Temperature

#### Model FRT8120DW

Flo-Rite-Temp instantaneous water heater assembly for non-recirculating hot water systems. Flo-Rite-Temp pre-piped single temperature systems offer three heat exchanger options fully assembled and include: steam trap, air vent, thermometer, Clean-In-Place connection ports, vacuum breaker, and isolation valves.

#### Operational Specifications

- +/-4°F water temperature control at points of use 25' downstream during demand
- Utilizes constant low pressure steam to assure positive condensate drainage of exchanger
- Only 4 connections required: steam, condensate, cold water, mixed water out
- Double wall u-band tube bundle with vent to atmosphere between tube sheets to indicate tube failure

#### Technical Specifications

- Maximum steam pressure: 15 PSIG
- Maximum domestic pressure: 150 PSI
- Maximum designed water side pressure drop: 10 PSI
- Design conditions: Domestic-120 GPM at 100°F delta T using 15 PSIG steam
- Complete assembly Lead Free Compliant
- All domestic side valve fittings and isolation valves, strainers, inlet check valves, inlet and system blend thermometers pre-piped.
- Clean-In-Place connections for chemically cleaning of control valve and heat exchanger without disassembly of the Flo-Rite-Temp
- Heat exchanger tubes shall be double wall wall 5/8" copper inner tube and 3/4" grooved copper outer tube expanded into brass/stainless steel tube sheet with indicating weep holes
- Water pipe of type L copper
- Fabricated carbon steel frame with machine grade enamel paint

#### Standard Materials of Construction

- Control Valve: Lead Free Bronze
- Water pipe: Type L Copper
- Fittings: Lead Free Brass/Bronze
- Tube bundle: Double wall copper with Navel Brass and stainless steel tube sheets
- Heat Exchanger Shell: Carbon Steel
- Steam Trap: Model 20JD8 F&T Ductile Iron
- Air Vent: Model TS-2 angle-pattern-bronze
- Vacuum Breaker: Brass

