

Hot Water Generation – Steam/Water Double Wall

Digital-Flo® Steam/Water Shell and Tube Heat Exchanger

Model DF535DW40BS

DF535DW40BS is a complete pre-piped double wall instantaneous steam/water shell and tube heater. The assembly includes a properly sized shell and tube heat exchanger with a Digital Recirculating Valve (DRV40) 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 double safety shutdown.

Technical Specifications

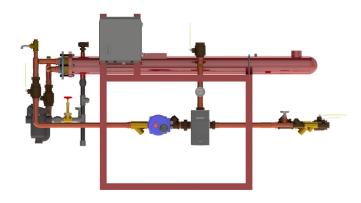
- Maximum steam pressure: 15 PSIG
 Maximum domestic pressure: 150 PSI
 Minimum recirculation flow: 5 GPM
- Design conditions: Domestic-41 GPM at 100°F delta T using 15 PSIG steam
- · Complete assembly Lead Free Compliant
- All domestic side valve fittings and isolation valves, strainers, inlet/return check valves, inlet system blend and return thermometers pre-piped.
- DRV all wetted parts 316 stainless steel
- DRV to be UL Listed
- Heat Exchanger shall be double wall with 5/8" copper inner, 3/4" ID copper outer tube expanded into steel (steam side) and brass (water side) tube sheets.
- Water pipe of type L copper
- Fabricated carbon steel frame with machine grade enamel paint
- 120 volt power supply required
- · Secondary (double) safety shut-off valve included

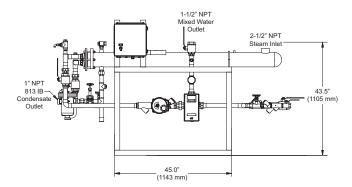
Connectivity

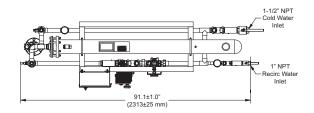
BrainScan® – Is an optionally selected control module from Armstrong which enables an interface with Building Automation Systems (BAS) which utilize Modbus, Bacnet™ or LonWorks™ protocols via the use of specific protocessor cards. BrainScan® also has an ethernet port and operates as a web server for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

BrainScan® has the following outputs:

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







For a submittal drawing, refer to D589723

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