



Armstrong Hot Water, Inc. – Digital-Flo Commissioning Guide

221 Armstrong Blvd., Three Rivers, Michigan 49093 – U.S.A. Phone: (269) 279-3602 Fax: (269) 279-3130

The following will go through a step by step process for commissioning any/all Digital-Flo water heaters. Armstrong Hot Water, Inc. recommends that an authorized representative perform the commissioning process and subsequently submits a Digital-Flo Commissioning Report to the factory to keep on file.

1. Perform a visual overview and confirmation that the Digital-Flo is installed per our installation schematics located in our IOM's
 - a. Ensure all water supply lines are present and in the correct location
 - i. Hot water
 - ii. Cold water
 - iii. Mixed Water
 - iv. Recirculation return from the system loop to the Digital-Flo
 - b. Ensure all steam/condensate lines are present and in the correct location
2. Power the Digital-Flo ensuring the display on the front of the DRV is illuminated
 - a. Ensure the safety shut off valve (blue actuator valve on hot supply line to DRV) opens
3. Flood the system slowly and in the following sequence:
 - a. Cold water supply
 - b. Mixed water outlet
 - c. Hot water supply
4. Create a demand in the system loop
 - a. Open 4-5 fixtures (slop sinks, showers, baths, etc...)
5. Turn on recirculation pump(s)
 - a. Ensure there is sufficient minimum flow (DRV40 \geq 5gpm; DRV80 \geq 10gpm)
6. Open the condensate discharge isolation valves on the Digital-Flo
7. Supply steam to the Digital-Flo slowly
 - a. Purge any condensate/water in the system
 - b. Ensure steam pressure does NOT exceed 15psi
8. Ensure all supply temperatures and pressures are sufficient
 - a. Hot water
 - b. Cold water
 - c. Recirculation return
9. If the DRV is at the desired set point (which was already pre-programmed at the factory with info supplied with the order) you may skip to step 12
10. Connect to the programming software via proper adapter (Gen. 1 = IrDA to USB Adapter, Gen. 2 = RS485 to USB Adapter)



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11. Continue DRV set up programming following IOM pages 16-22 & 32
12. Shut off all demand and allow recirculation pump to continue to run
13. Monitor DRV outlet and ensure is maintaining set point
 - a. It make take some time for the recirculation return temperature to rise to an appropriate level due to it being a new start up and system