



Armstrong Hot Water, Inc. – DRV Commissioning Report

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

Project Name:

Location:

Startup date:

System Overview:

| | |
|------------------|--|
| Comments: | |
|------------------|--|

System Values:

| | | |
|-----------------------|---------|--|
| Product Model: | | |
| Serial # | valve 1 | |
| | valve 2 | |
| | valve 3 | |

Degree F/psig

| | |
|--|--|
| Set Point Temperature | |
| Cold Water Temperature | |
| Cold Water Pressure | |
| Hot Water Temperature | |
| Hot Water Pressure | |
| Outlet Water Temperature (Display) | |
| Outlet Water Temperature (Thermometer) | |
| System Return Temperature | |

Recirculation Flow Rate _____ and/or Pump HP _____

System Sizing:

| Qty | Component | Fixture Units | Total |
|-----|-------------------------|----------------------|-------|
| | Tub and Shower | | |
| | Lav | | |
| | Clothes Washing Machine | | |
| | Kitchen Sink | | |
| | Dishwashers | | |
| | | Total Fixture Units: | GPM: |



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System Components:

Hot inlet:

- | | | |
|---|--------------|---|
| <input type="checkbox"/> Strainers | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Check valves | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Thermometer | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Pressure gauge | Type _____ D | <input type="checkbox"/> Installed/located to specification |

Cold inlet:

- | | | |
|---|--------------|---|
| <input type="checkbox"/> Strainers | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Check valves | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Thermometer | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Pressure gauge | Type _____ D | <input type="checkbox"/> Installed/located to specification |

Outlet:

- | | | |
|---|--------------|---|
| <input type="checkbox"/> Thermometer | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Pressure gauge | Type _____ D | <input type="checkbox"/> Installed/located to specification |

System Return:

- | | | |
|---------------------------------------|--------------|---|
| <input type="checkbox"/> Strainers | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Check valves | Type _____ D | <input type="checkbox"/> Installed/located to specification |
| <input type="checkbox"/> Thermometer | Type _____ D | <input type="checkbox"/> Installed/located to specification |

Comments:



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Site Training:

Explained the operation of the unit

- All strainers have been blown down, cleaned, and checked for debris. All debris was removed from the system before start-up. (Lack of Installed Strainers on the Hot, Cold, & Return will void the Warranty of The Brain).
- Installation & Maintenance booklet is available and turned over to staff.
- Parts, tools, and laptop connection cords included in the package are available and turned over to the staff.
- Help the facility to install the programming software (Rada Digital or DRV Terminal) installed onto the facilities laptop.
- Demonstrate the operation of the laptop connection to The Brain for verifying temperatures and making changes as the facility may require.

Explained the warranty

- The Brain-Model DRV40/50/80 shall have a 5-year all components parts warranty which initiates on ship date.

Explained the required maintenance by the facility

- Strainers must be cleaned on a regular basis to prevent debris ingress (DRV). Site specific water quality/conditions must be suitably acknowledged when determining service frequency. Every facility has a different water source, the regularity of checking and cleaning strainers is the responsibility of the facilities staff.
- Batteries are supplied to ensure the DRV switches to Full Cold in the event of a primary power supply failure, they should not be considered to be a backup power supply.

Battery life is variable depending upon usage. A battery error message appears on the DRV display when they require replacing.

Where primary power supply failure occurs regularly or the DRV is installed within a supply system where safety is critical, the batteries must be changed at least every 12 months as part of an annual maintenance routine.

In noncritical systems or where battery usage is low, longer replacement cycles may be considered up to a maximum of 5 years.

Inspection of critical components and/or assemblies.

- DRV components should be inspected annually, or more frequently where acknowledged site conditions such as high mineral content water dictate.



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The start-up has been completed and the facility is satisfied with the initial setup of the temperatures and understands the maintenance requirements.

Armstrong approved Start up technician: _____

Date: _____

Installation location representative: _____

INSTALLATION SITE PICTURE