



# Digital-Flo® Commissioning Report

**Project Name:**

**Location:**

**Startup date:**

## System Overview:

**Comments:**

<b>Product Model:</b>		
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	
Steam Pressure	

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:

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.



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## System Sizing:

### 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 |

### Component Checks:

- Safety shut off valve opens when power to the package is turned on and closes when power is turned off
- Safety “pop off” valve is installed on hot water outlet and piped to the floor drain
- Pressure gauge is installed on the shell of the exchanger

## Comments:



## 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 startup. (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.
- Point out the Clean In Place (CIP) connections and what they are used for.
- Explain the operation of the Blue safety shut off valve and review the activation of relay on alarm function in the DRV programming.

Note: 'Activate relay on alarm' box within DRV programming software should be unchecked for Digital-Flo® packages.

### Explained the warranty

- The Brain-Model DRV40/50/80 shall have a 5-year all components parts warranty which initiates on ship date.
- The Digital Flo package has a 2 year warranty on the entire package and the tube bundle has a 10 year warranty for material and manufacturing defects.

### 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:**