



# Flo-H<sub>2</sub>O™ Boiler Water to Water Instantaneous Water Heaters

## Recirculating Hot Water Systems

### Pre-Piped Single Temperature

Flo H<sub>2</sub>O Boiler Water to Water Instantaneous Water Heaters for Recirculating Hot Water Systems feature 3 heat exchanger models offered as pre-piped single temperature packaged assemblies.

Ideal for both new construction and retrofit installation within an existing building infrastructure Flo H<sub>2</sub>O Boiler Water to Water Instantaneous Water Heaters are designed to fit through a standard 32" doorway.

Flo H<sub>2</sub>O Boiler Water to Water Instantaneous Water Heaters for Recirculating Single Temperature Systems are fully assembled and include the following installation components:

- Plate and frame heat exchanger
- Boiler side recirculating pump to supply the heat exchanger
- PID temperature controller using fuzzy adaptive tuning (FAT)
- Three-way motorized control valve
- High temperature safety shut-off
- Six temperature sensors



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## Recirculating Hot Water Systems

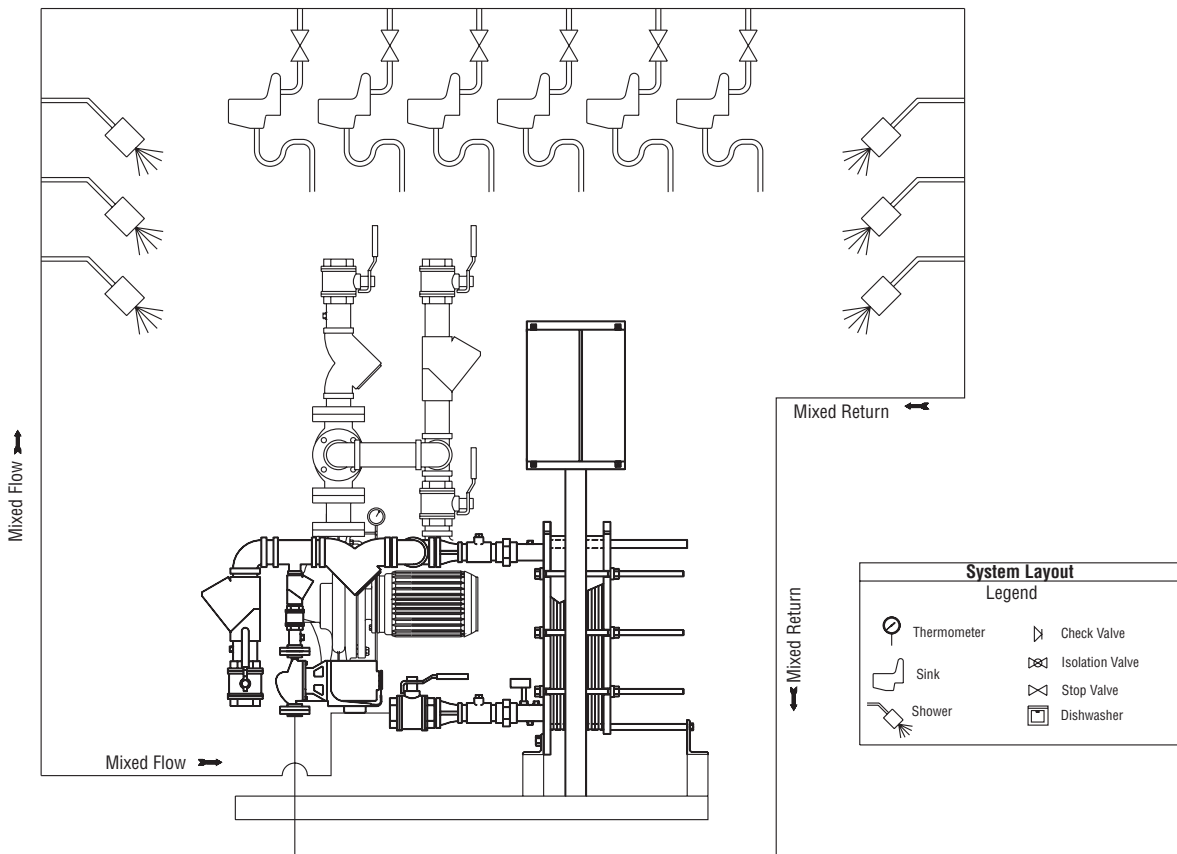
### Pre-Piped Single Temperature

The Flo-H<sub>2</sub>O™ is a pre-engineered pre-packaged boiler water-to-water instantaneous water heater designed for domestic hot water generation. The Flo-H<sub>2</sub>O package system ships completely assembled on a compact common base-plate that will fit through a standard door.

Installation is easy with only one connection to hot and cold ports for both domestic and boiler side, domestic recirculation and electrical.

The Flo-H<sub>2</sub>O package system provides more precise temperature control through the full range of flow through the heat exchanger over contemporary shell and tube exchangers. Temperature control will be maintained +/- 4°F from low flow to high flow. Additional benefits and features include:

- Night-time temperature set back for energy savings
- Optional double-wall plates-no cross contamination of domestic water
- Control panel UL and CSA approved
- Compatibility with building automation systems



**Note:** For detailed material specifications, options, approximate dimensions and weights, consult Armstrong or your local Representative.



Flo-H<sub>2</sub>O™

**Boiler Water to Water Instantaneous Water Heaters**

**Table 1—Model 40**

Domestic Hot Water		Boiler** Water Temperature		
Inlet Temp (°F)	Outlet Temp (°F)	200°F	190°F	180°F
40	110	57	50	43
	120	50	44	38
	130	44	39	33
	140	40	35	30
50	110	67	58	50
	120	57	50	43
	130	50	44	38
	140	44	39	33
60	110	80	70	60
	120	67	58	50
	130	57	50	43
	140	50	44	38

\*\* Boiler flow required = 100 gpm Domestic water flow (gpm) based on boiler water temperature.

**Table 2—Model 70**

Domestic Hot Water		Boiler** Water Temperature		
Inlet Temp (°F)	Outlet Temp (°F)	200°F	190°F	180°F
40	110	100	88	75
	120	88	77	66
	130	78	68	58
	140	70	61	53
50	110	117	102	88
	120	100	88	75
	130	88	77	66
	140	78	68	58
60	110	140	123	105
	120	117	102	88
	130	100	88	75
	140	88	77	66

\*\* Boiler flow required = 175 gpm Domestic water flow (gpm) based on boiler water temperature.

**Table 3—Model 100**

Domestic Hot Water		Boiler** Water Temperature		
Inlet Temp (°F)	Outlet Temp (°F)	200°F	190°F	180°F
40	110	143	125	107
	120	125	109	94
	130	111	97	83
	140	100	88	75
50	110	167	146	125
	120	143	125	107
	130	125	109	94
	140	111	97	83
60	110	200	175	150
	120	167	146	125
	130	143	125	107
	140	125	109	94

\*\* Boiler flow required = 250 gpm Domestic water flow (gpm) based on boiler water temperature.