

**Digital Hot Water
Solutions for
Institutions**



Armstrong®

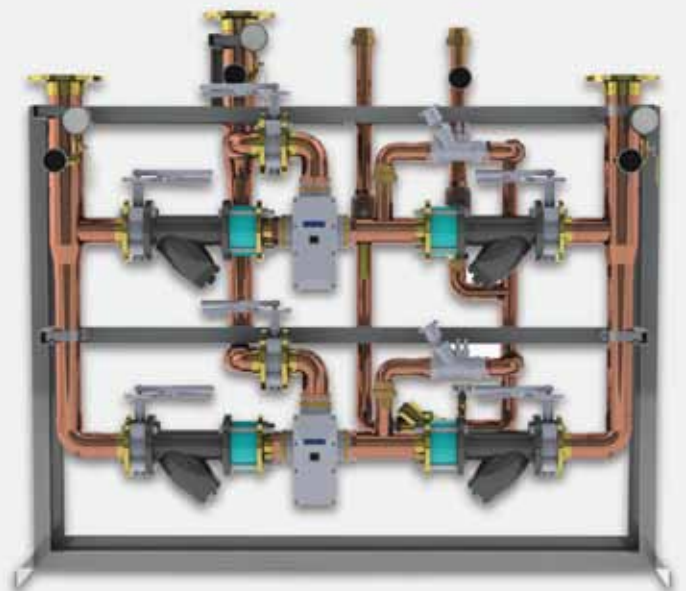
Around-the-Clock Monitoring and Communication



The Brain® can be installed as the final temperature control device before the hot water leaves the plant-room on new installations. The Brain® is also a retrofit to existing problematic hot water systems. Additionally, The Brain® can be utilized as a zonal control to improve circulation and easily manage a thermal disinfection regime.

The Brain® Digital Mixing Centers:

- Provide safety and security
- Improve energy efficiency
- Help manage a bacterial control regime
- Communicate with Building Management Systems (BMS) to monitor and record compliance with Legionella control procedures
- Provide accurate and predictable temperature control of large, complex domestic hot water systems
- Are easily retrofitted to any domestic hot water system

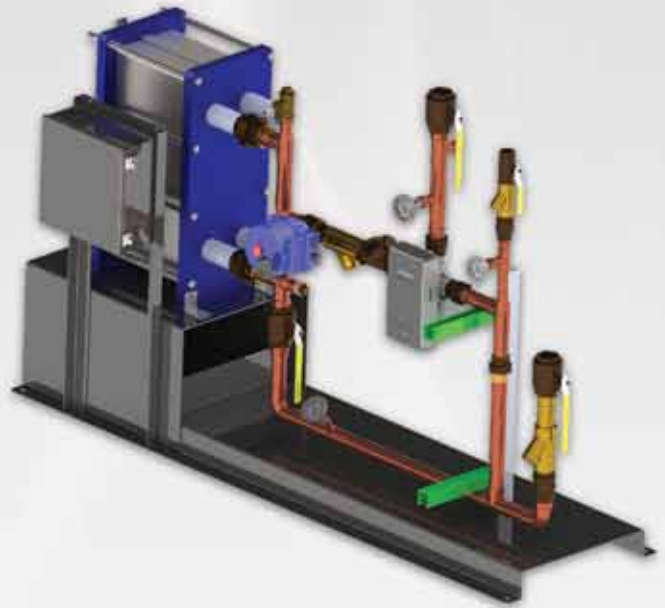


Intelligent Generation and Control Solutions

Armstrong International manufactures a range of Digital Hot Water Solutions that incorporate all the advantages of The Brain® – Accuracy, Simplicity, and Connectivity.

Digital-Flo® Water/Water:

- Delivers blended hot water at $\pm 1^{\circ}\text{C}$, even at very low flows
- Water is raised above 70°C , which greatly reduces the risk of Legionella proliferation in the heat exchanger

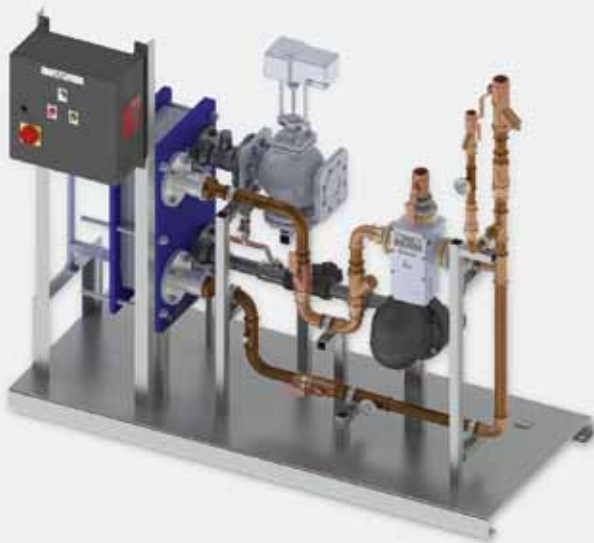


Digital-Flo® Semi-Storage:

- Delivers blended hot water at $\pm 1^{\circ}\text{C}$, even at very low flows
- Water in the tank is raised above 70°C , which greatly reduces the risk of Legionella proliferation in the tank
- Delivers a 25% higher peak flow compared to a standard system with the same size tank
- Enables the use of smaller tanks, thus a reduced footprint
- Energy efficient tanks are insulated with 100mm glass fibre
- Buffer vessel is available in Polywarm coated carbon steel or 316L stainless steel



Digital. Hot Water. Innovation.



Digital-Flo® Steam/Water:

- Delivers blended hot water at $\pm 1^{\circ}\text{C}$, even at very low flows
- Water is raised above 70°C , which greatly reduces the risk of Legionella proliferation in the heat exchanger
- Constant steam pressure means no condensate pump is required
- Steam instantly shuts off in the event of a high temperature alarm, and The Brain® fails to the cold position
- Full range of steam accessories available



Flo-H₂O™

- Steam-to-water closed-loop heating packages
- Water-to-water closed-loop heating packages
- Full range of accessories available

The Smart Choice for Water Temperature Control



The Brain® is the world's first digital mixing valve, designed to accurately control the hot water temperature of large recirculating domestic hot water systems.

And because two Brains are always better than one, Armstrong International offers two sizes - DRV40 and DRV80 - to match system flow requirements.

Global Acceptance

- Marriott International has selected The Brain® as its corporate standard domestic hot water temperature control device for all new hotels

Both The Brain® DRV40 and DRV80 – feature:

- +/- 1°C Temperature Control at all Draw-Off Rates
- Programmable Upper and Lower Temp Warnings
- Programmable High Temperature Alarm
- Programmable Thermal Disinfection Mode
- Fails Cold on Power Failure and High Temperature Alarm
- Self-Diagnostics with Fault Messaging
- Modbus RTU via RS485 serial port – for complete communication with Building Management Systems (BMS)
- 5-year Component Warranty



Armstrong provides intelligent system solutions that improve utility performance, lower energy consumption, and reduce environmental emissions while providing an “enjoyable experience.”



Armstrong International – Europe / Middle East / Africa
Parc Industriel des Hauts-Sarts (2e Avenue), B-4040 Herstal - Belgium
Phone: +32 (0)4 240 90 90 – Fax: +32 (0)4 240 40 33