

Digital Recirculation Control (The Brain®)

The Problem It Solves

Traditional recirculation systems use outdated mixing valves or manual controls, causing risk, inefficiency, and unstable hot water delivery. They struggle with precise temperature control and can't adapt to demand or supply fluctuations.

These issues waste energy and water, increase scalding or bacterial risks, and create compliance and maintenance challenges for large facilities.

The Brain® replaces guesswork with digital precision. Its control algorithm and real-time feedback continuously adjust water temperatures and detect faults early to prevent bigger issues.

Key Features

- **+/-1°C DRV water temperature control** at peak, moderate or zero fixture demand on hot water system
- **Programmable set point range** of 81-158°F (27-70°C) capable of BAS or mobile monitoring and adjustment
- **Automatic safe closure** of hot water inlet in response to: inlet supply failure,
- **110V power failure**, or programmable high temperature error
- **LCD display** which indicates: set point, delivered temperature, error codes and alarm conditions capable of BAS and mobile connectivity



Key Client Benefits

1

Real-time monitoring and adjustment of hot water delivery temperatures

2

Protects against Legionella and scalding with proactive safety control

3

Supports digital compliance logging and temperature traceability

4

Reduces energy and water waste by preventing overheating or over cycling

5

Integrates seamlessly into BMS or remote monitoring platforms