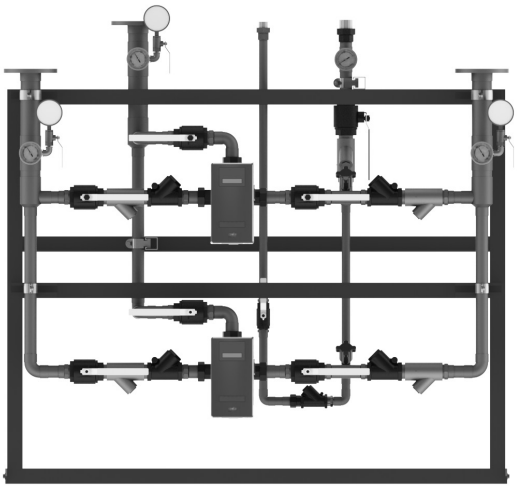
Digital

The Brain® Model DMC40-40

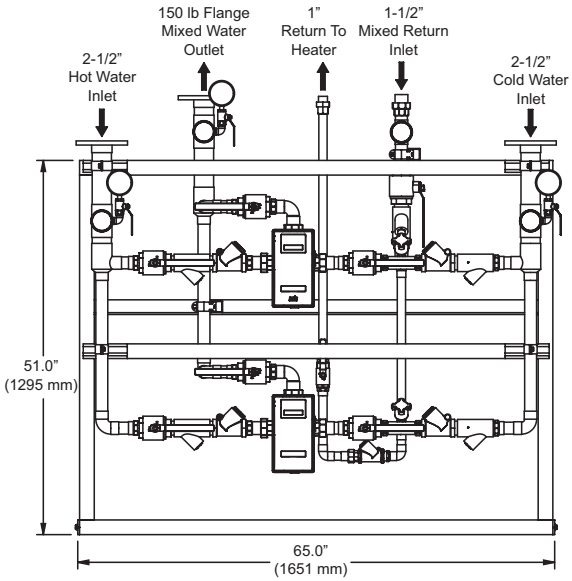
DMC40-40 is a fully Digital Mixing Center (DMC) designed specifically to be the primary water temperature controller in a continuously pumped circulating hot water system.

Digital technology provides enhanced water temperature control accuracy which resists zero system demand "Temperature Creep" without the use of a manual throttling valve or a temperature activated pump shut-off device (aquastat).



Operational Specifications (DRV40)

- +/-2°F DRV water temperature control at peak, moderate or zero fixture demand on hot water system designed for continuous recirculation
- 2°F minimum recirculating water temperature differential
- LCD display which indicates: set point, delivered temperature, error codes and alarm conditions capable of BAS and mobile connectivity
- Programmable set point range of 81-158°F (27-70°C) capable of BAS or mobile monitoring and adjustment
- Programmable thermal disinfection range of 158-185°F (70-85°C)
- Programmable 1st level hi/lo temp alarm display capable of BAS or mobile alerting
- Automatic safe closure of hot water inlet in response to: inlet supply failure, 110V power failure, or programmable high temperature error
- Automatic safe closure of hot water inlet powered by a replaceable lithium battery monitored for low-level alerting



Technical Specifications (DRV40)

- 100-240V AC
- Polymer Electronics Enclosure
- Stainless Steel Valve Construction
- Lead Free compliant
- Maximum inlet HW supply temperature 185°F (85°C)
- Minimum Continuous Recirculation - 5 GPM (19 LPM) per DRV40
- Minimum System Draw Off - 0 GPM
- Conforms to ASSE 1017, CSA B125.3-11, UL E357437, and CE
- Operational water pressure of 10-150 psig (7-10 barg)
- Display in °C or °F
- Shipping weight 650 lbs (296 kg)
- Integral MODBUS RTU for direct connectivity to BAS, or SAGE®

Connectivity

RS485 Serial Port – Integral MODBUS RTU for direct connectivity to BAS. Seamless integration with SAGE® (BS) connectivity options.

See DMC40-40BS for SAGE® (BS) module available with specific ProtoCessor cards for BAS Connectivity to systems which operate on Modbus TCP, BACnet™, or LonWorks™ protocols. Mobile Connectivity may be enabled by a customer activated no-term subscription.

Mobile Connectivity features smart hot water system dashboard monitoring, secure remote programming, multi-location view, temperature and system diagnostic alerts, with unlimited digital documentation and automated report generation.

For a submittal drawing, refer to D40807.

Recirculation Systems - Digital (GPM and PSIG)

Model DMC40-40	Pressure Drop (PSIG)				Minimum System Draw-Off	Maximum Flow @7.5 ft/sec.	C_v
	5	10	15	20			
GPM	96	140	170	196	0	115	44

Recirculation Systems - Digital (LPM and BARG)

Model DMC40-40	Pressure Drop (BARG)				Minimum System Draw-Off	Maximum Flow @7.5 ft/sec.	C_v
	0.3	0.7	1.0	1.4			
LPM	363.4	530.0	643.5	741.9	0	435	44

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