Water Temperature Control - Recirculation Systems



Digital



DMC40-40BS is a fully Digital Mixing Center (DMC), with SAGE® hot water system monitoring and reporting tool, 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).

SAGE[®] (BS) available with specific ProtoCessor cards for BAS connectivity to systems which operate on Modbus TCP, BACnet[™], or LonWorks[™] protocols.

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. Mobile connectivity may be enabled by a customer activated subscription.

Operational Specifications (DRV40)

- +/-2°F DRV water temperature control at peak, moderate or zero fixture demand on hot water system designed for continuous recirculation
- 1°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

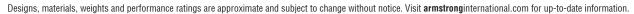
Technical Specifications (DRV40)

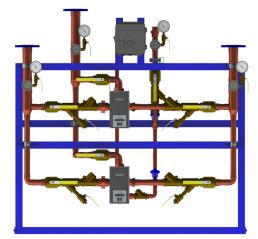
- 100-240V AC
- Polymer Electronics Enclosure
- Stainless Steel Valve Construction
- Lead Free compliant
- Maximum inlet HW supply temperature 185°F (85°C)
- Minimum Continuous Recirculation 5 GPM (19 LPM) per DRV
- Minimum System Draw Off 0 GPM
- Conforms to ASSE 1017, CSA B125.3-11, UL E357437, and CE
- Operational water pressure of 10-150 psig (,7-10 barg)
- Display in °C or °F
- SAGE[®] (BS) for BAS or Mobile Connectivity
- Shipping weight 655 lbs (297.1 kg)

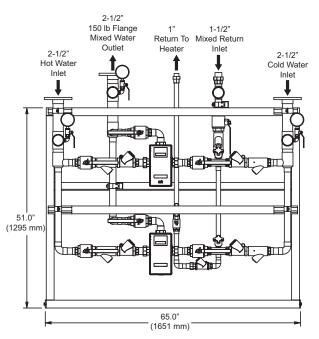
For a submittal drawing, refer to D40808

Recirculation Systems - Digital (GPM and PSIG)											
Model		Pressure D	rop (PSIG)		Minimum System Draw-Off	Cv					
DMC40-40BS	5	10	15	20							
GPM	96	140	170	196	0	44					
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Recirculation Systems - Digital (LPM and BARG)									
Model		Pressure D		Minimum System Draw-Off	C				
DMC40-40BS	0.3	0.7	1.0	1.4	minimum system Draw-On	υ _ν			
LPM	363.4	530.0	643.5	741.9	0	44			







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