

Water Temperature Control - Recirculation Systems

Digital

The Brain[®] Model DMC80BS Flex Zone PHE



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 (DRV80)

- +/-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

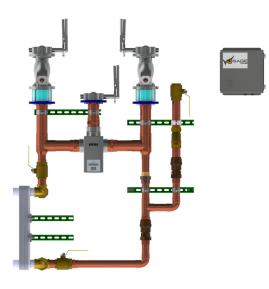
Technical Specifications

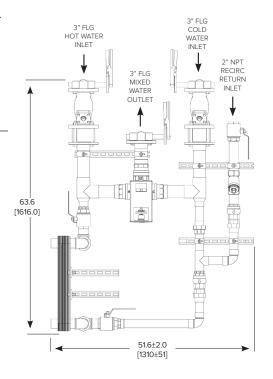
- 100-240V AC
- Polymer Electronics Enclosure
- Stainless Steel Valve Construction
- Lead Free compliant
- Maximum inlet HW supply temperature 185°F (85°C)
- Minimum Continuous Recirculation 10 GPM (38 LPM)
- Minimum System Draw Off 0 GPM
- Conforms to ASSE 1017, CSA B125.3-11, UL E357437, and CE $\,$
- Operational water pressure of 10-150 psig (.7-10 barg)
- Display in °C or °F
- SAGE® (BS) for BAS or Mobile Connectivity
- Shipping weight 573 lbs (259.9 kg)
- Stainless steel brazed plate double wall PHE (Custom PHE options available)
 - 1 Standard Configuration Available; Customs Available upon Request
 - Standard #1 = PHE-422-24 (see Specification & Submittal Drawing-D133134 for System Parameters)

Recirculation Systems - Digital (GPM and PSIG)											
Model		Pressure D	rop (PSIG)		Minimum System Draw-Off	C					
DMC80BS Flex	5	10	15	20	Milliniuni System Diaw-On	υ _ν					
GPM	94	133	163	188	0	42					

Recirculation Systems - Digital (LPM and BARG)											
	Model		Pressure D	rop (BARG)		Minimum System Draw-Off	C				
	DMC80BS Flex	0.3	0.7	1.0	1.4	Minimum System Draw-On	υ _ν				
	LPM	355.8	503.5	617.0	711.7	0	42				

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.





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