

BASyC™

MODEL NO. ABMV

DIGITAL MIXING VALVE AND MONITORING SYSTEM

A BASyC™ SYSTEM WILL MAINTAIN CURRENT SETPOINT* DURING POWER FAILURE, OUTLET SENSOR LOSS OR SOFTWARE REBOOT AT ALL USER DEMAND REQUIREMENTS (ZERO TO PEAK).

UTILIZING THE AVAILABLE INLET/OUTLET PRESSURE SENSORS, BASyC OFFERS CALCULATED FLOW AND ENERGY DATA THAT'S ACCURATE AND RELIABLE!

*IAPMO CERTIFIED ACCURATE TO ASSE 1017

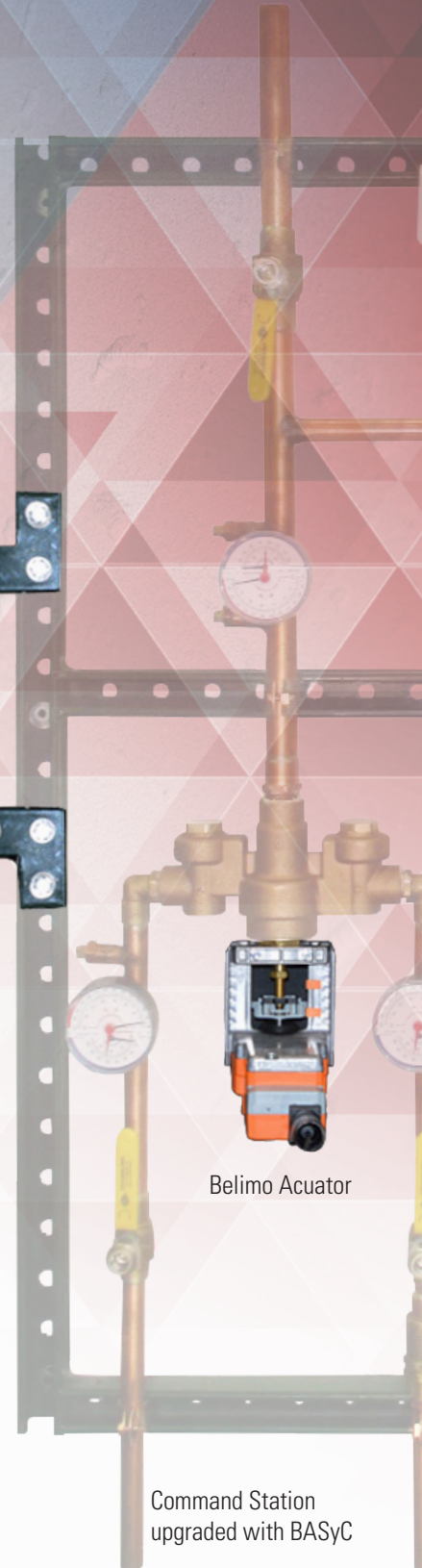
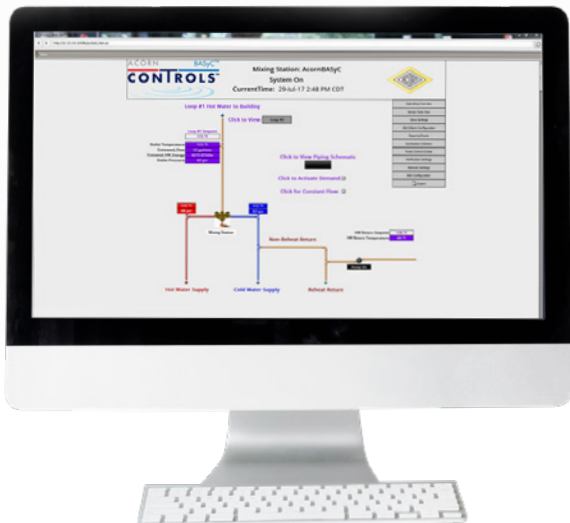


BASyC Control Panel



Optional User Interface

BASyC Operating Overview Screen



Belimo Acuator

Command Station upgraded with BASyC

ACORN BASyC™ SYSTEM OFFERS THESE STANDARD AND OPTIONAL FEATURES:

Uses non-proprietary Honeywell NiagaraAX framework hardware and software to achieve stand-alone, computerized control of the recirculating domestic hot water system. BASyC is web browser capable and can be accessed 1) via the user's LAN, 2) via the portable LCD display 3) via the integral BAS adapter or 4) via the internet using VPN interface. In all cases, no special software is required. Real-time temperature, pressure and flow monitoring. Powerful alarm and alert capability for up to 11 temperature and pressure parameters plus setpoint limits, with email or texting notification capability to multiple personnel.



Acorn BASyC system that features two SFMMV supply fixtures, installed at Northwestern Medicines - Lake Forest Hospital

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

- A highly customizable report generator with the ability to export the data to a PDF, HTML, TEXT or CSV file for analysis beyond BASyC's powerful internal capabilities.
- BAS adapters for BACnet, Lonworks, ModBus or oBIX without external adapters or gateways.
- Primary and secondary LAN adapters with full isolation from each other.
- RS-232 and RS-485 adapters.
- The capability of 34 inputs/outputs: 16 universal inputs, 10 relay outputs, 8 analog outputs.
- One BASyC system can control up to 4 valves and 2 separate temperature loops, or zones.
- A BASyC system is based on an MV17 control valve included as part of a Command Station or SFMMV Supply Fixture assembly.
- User-programmable sanitization with available email alert includes "Safe Start" confirmation to minimize the risks associated with sanitizing recirculation temperatures.
- BASyC's open architecture allows for cost-effective customization. Any input or output not used for the LTHW recirculated application can be assigned to monitor and activate or control 3rd party devices. Contact Acorn for details and a price quotation.
- User-selectable outlet flow sensors give BASyC the capability to provide accurate flow and energy data at any user demand.
- BASyC is a 24 volt system and does not require an electrician for installation. Simply connect it to the nearest available 115VAC outlet.
- Redundancy in capacity and/or control available without the cost of a fully duplicated system. BASyC has the flexibility to offer whatever level of redundancy is required at a low cost.
- An off-the-shelf, proven reliable, Belimo valve actuator with auto-ranging to make replacement fast, simple and low cost. Time-consuming and complicated repairs or servicing are never necessary.

INNOVATIVE SPIRIT AND ENGINEERING FOUNDATION

"What sets us apart from competitors is our engineering and spirit. We have a 'can-do' spirit. If you ask us to do something, we will do it or figure out how to do it. That's the part our customers like, that's the part we like."

- Don Morris, President and CEO



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