Competitive Comparison Of Acorn BASyC™		*Acorn BASyC™*	*Powers IntelliStation™*	*RADA The Brain®*	*Leonard Nucleus™*	*Heat Timer ETV Platinum Plus*	*Caleffi LEGIOMIX® 6000*
Feature	**Benefit**						
Utilizes Non-proprietary Hardware and Software	Support for Industry-Standard Honeywell NiagaraAX Framework systems available from the national network of Honeywell contractors in addition to Acorn.	**YES** Proprietary Mixing Valve Only - uses standard MV17 parts	**NO** Proprietary Watts/Techmar Hardware and Software	**NO** Proprietary RADA Hardware and Software	**NO** Utilizes customized 3rd-party products & Leonard valve	**NO** Proprietary Heat Timer Hardware and Software	**NO** Proprietary Caleffi Hardware and Software
Mixing Valve operates on Power Failure	Controls at current setpoint using internal sensor, bathers continue to shower and are protected from scalding and thermal shock under ASSE 1017. Bathers DO NOT lose hot water.	**YES**	**NO** Valve goes "Failsafe Cold" w/mech. Override	**NO** Valve goes "Failsafe Cold" Requires Battery	**NO** Valve goes "Failsafe Cold". 2 hr. battery backup option	**NO** Documentation makes no mention of what happens	**NO** Valve fails in place, no control accuracy is provided
Controls to ASSE 1017 without digital control	It's no uncommon that startup issues and problems, unrelated to BASyC™ and requiring priority attention, make running BASyC™ in manual mode advantagous.	**YES**	**NO** Startup requiries digitial control setup time and attention	**NO** Startup requiries digitial control setup time and attention	**NO** Startup requiries digitial control setup time and attention	**NO** Startup requiries digitial control setup time and attention	**NO** Startup requiries digitial control setup time and attention
Includes Custom Report Generator	Create custom reports in a variety of chart formats over any time period. The user selects the data points to chart on-screen. The chart or data can printed or exported in a variety of formats for further analysis.	**YES**	**NO** Relies on BAS to process all data and create reports	**NO** Extra Cost through Brain Scan/SAGE?	**NO** Relies on BAS to process all data and create reports	**NO** Relies on BAS to process all data and create reports	**NO** Relies on BAS to process all data and create reports
Offers Dual Pump Control that provides scheduled alternating between active and back-up pump.	User defined cycle (7, 30, 60 or 90 days (other choices available). Include manual alternation and alternation suspension.	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
Screen Shot Export	Any screen shot can be exported to pdf for quick sharing or saving for future reference	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
Mixing Valve operates on Failure of Outlet Sensor	Controls at current setpoint using internal sensor, bathers continue to shower and are protected. "Failsafe cold" means bathers lose their hot water, thermal shock is possible.	**YES**	**NO** Valve goes "Failsafe Cold" w/mech. Override	**NO** Valve goes "Failsafe Cold" Requires Battery	**NO** Valve goes "Failsafe Cold"	**NO** Documentation makes no mention of what happens	**NO** Valve fails in place, no control accuracy is provided
Offers self-tuning PID control with advanced feed forward/predictive algorithm to optimize temperature stability	Setpoint changes are controlled with customized output response values assigned during auto-tune setup procedure to the unique characteristics of the domestic HW system	**YES**	**NO** feed forward only	**NO**	**NO**	**Maybe** Refers to it, but requires manual "gain" adjustment	**NO** Valve fails in place, no control accuracy is provided
Command Stations and Multi-valve Supply Fixtures (Acorn models CSMV and SFMMV) are all built for future upgrading with Acorn BASyC™ without major changes in hardware	End users can use a thermostatic valve (Acorn MV17) solution at a low initial cost and then upgrade to an Acorn BASyC™ without removing their mixing valve station or making piping changes.	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**

Competitive Comparison Of Acorn BASyC™		*Acorn BASyC™*	*Powers IntelliStation™*	*RADA The Brain®*	*Leonard Nucleus™*	*Heat Timer ETV Platinum Plus*	*Caleffi LEGIOMIX® 6000*
Feature	**Benefit**						
Up to 4 master mixing valves and 2 zones can be controlled and managed by one BASyC™ control and I/O Module	On systems requiring multiple valves, BASyC™ offers a simpler setup and easier maintenance. Each Zone carries its own identification and any configuration (example 2 zones with 2 valves each) can be accommodated.	**YES**	**NO**	**NO**	**NO**	**NO** One controller can control 2 valves	**NO**
Calculated GPM and Energy Usage data	BASyC™ provides real numbers for peak and total GPM and energy consumptions without a costly flow meter	**YES**	**NO** Requires Flowmeter Option	**NO**	**NO** Requires daughter board and flowmeter "by others".	**NO**	**NO**
Alarm with relay and email/text notifications	Configurable ALARMS for exceeding Min./Max limits on 8 different parameters, user-defined. 1 dedicated relay. Additional relays outputs available, contact Acorn.	**YES**	**NO** Only 1 High Temp Alarm	**NO** Only 1 Temp. Alarm with Relay option, 1 on-screen Error Message Alert	**NO** Only 1 Temp. Alarm with Relay	**NO** Only 2 Alarm outputs with email/text notiications	**NO** (1) sanitization alarm relay, (1) flush relay, (1) aquastat relay, (1) recirc. pump relay
Alerts with relay and email/text notifications.	Configurable ALERTS for exceeding Min./Max limits on 11 different parameters, user-defined. 1 dedicated relay. Additional relays outputs available, contact Acorn.	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
Keyed and coded connectors on sensor lead wire	All sensors include lead wire with coded connectors to virtually eliminate the possibility of incorrect wiring and reduce replacement costs. No site wiring required.	**YES**	**YES, BUT** **Sensor replacement is time consuming/costly.**	**YES, BUT** **Sensor replacement is time consuming/costly.**	**YES, BUT** **Sensor replacement is time consuming/costly.**	**NO**	**NO**
Offers a Final Fixture sensor input	Eliminates guesswork for the most critical system parameter.	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
System has I/O capacity beyond what's typically necessary for the LTHW system.	If the end user desires it, BASyC™ can be expanded with optional programming and Acorn or 3rd party-supplied sensors. Up to 32 Inputs and 32 Outputs is optional. Price quote upon request.	**YES**	**NO**	NO Extra Cost through Brain Scan/SAGE and limited to Armstrong products	**NO** Outlet Temp. Std. Opt'l "daughter board" adds 7 temp., 3 flow & 3 press. sensors	**NO**	**NO**
Web Browser Capable	Ability to see BASyC™ from user's LAN without any special software	**YES**	**NO**	**NO** with BrainScan?	**NO**	**NO**	**NO**
Primary And Secondary Ethernet Adapters	Primary is used for access via user's LAN, Secondary is isolated and ideal for 3rd party access.	**YES**	**NO** **Access by Local Display and Other BAS only**	NO Optional LAN and Brain Scan required	**NO** **Access by Local Display and Other BAS only**	NO One Ethernet Connector	**NO**
LonWorks Direct Access	Does not require customer to provide Gateway	**YES**	**NO**	**YES**	**NO**	**NO**	**NO**

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Feature	**Benefit**						
Can be Installed without Licensed Electrician	BASyC(tm)™ is a low voltage-based system.	**YES**	**NO** 110V hard Wired	**NO** 110V hard Wired	**NO** 110V hard Wired	**NO**	**NO**
BAS Communications Protocol Options	Insures compatibility with main BAS	BACNet, Modbus, Lonworks, Obix, RS-485, RS-232 and MORE	BACNet, Modbus	BACNet, Modbus, Lonworks, RS485, all require BrainScan	BACNet, Modbus Metasys N2	BACNet, Modbus	Modbus via 485 and Modbus to BACNet Gateway
Local Display Size	Allows Access to setpoint control and other parameters	2.6 X 1.5" Backlit and Portable	2.8 X 1.1" - Not Portable	.6 X 2.6" - Not Portable	Not listed, about the same as The Brain	Approx. 2.75" X 1.5"	information not avaialble
Local Display Format	More line of data means quicker access to information	8 lines, unlimited number of screens	4 lines, 4 color LED, Touchscreen	2 lines, 2 color LCD	2 lines LED	5 lines LED	4 lines plus 3 data points, LED
Special Software Download NOT Required	Setup, accessing features/functions and changing setpoint can be done without a software download	**YES**	**YES**	**NO**	**YES**	**YES**	**YES**
Programmable Sanitization Mode	For facilities that use elevated LTHW to control/kill Legionella bacteria.	**YES**	**YES**	**NO** **A "manual" process - goes full hot and must be "aborted" by user**	**YES**	**NO** **A fully "manual" process** - no sanitization capability offered	**YES**
Programmable Pump Relay replaces AquaStat and Timer	Eliminates the need for an AquaStat to control recirculation pump	**YES**	**YES**	**NO**	**NO**	**NO**	**YES**
Provide Mechanical Temperature and Pressure Gauges at the piped system	Gauges provide back-up in the event of power failure or electronics failure.	**YES**	**NO**	**NO** **Temp Only.**	**NO**	**NO**	**No** Piped Assemblies not offered
Offers Stand-Alone Valve w/Digital Control	Lower Starting Price Point, but leaves more responsibility with installer and increases potential installation-related issues	**NO**	**Yes**	**YES**	**YES**	**YES**	**YES**