

SYSTXBBUIZ01-B EVOLUTION™ ZONE CONTROL



Product Data



NOTE: Evolution Zone Control compatible with Evolution rated indoor equipment only.

EVOLUTION™ ZONE CONTROL

Bryant specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. The Evolution Zone Control System is the ultimate control center for all of your system components. When you add an Evolution Zone Control to a compatible variable speed furnace, fan coil, or small packaged product, you will enjoy longer heating and cooling cycles at lower fan speeds for a more consistent temperature throughout your home. By adding an Evolution or Preferred compatible outdoor unit, your benefits will increase even more. Benefits include better humidity and temperature control as well as a more energy efficient comfort system.

INDUSTRY LEADING FEATURES/BENEFITS

Bryant's revolutionary Evolution Zone Control is the smart control of the future. The Evolution Zone Control features a large backlit liquid crystal display, making it easier to read the temperature, even at night. Intuitive prompts let you program everything from humidity levels to fan speeds, giving you ultimate control over your home comfort. The Evolution Zoning system does not require a bypass damper, leaving air temperature (LAT) sensor, or a field supplied power transformer.

- Up to 8 zones of control
- Patented automatic duct assessment design compensates for duct work variability
- No bypass damper required or recommended
- No LAT or HPT sensors required or recommended
- No field-installed transformer required
- Fan airflow adjustment by zone
- 4 wire installation from each component in the system
- Intuitive on screen prompts for ease of installation and service
- Perfect Humidity™ settings are the default, no longer requiring increased system setup
- Complete integration of the temperature, humidity, and ventilation in every season
- TrueSense™ Dirty Filter Detection
- Indoor Air Quality pop-up reminders
- 7 day programmability with 2 or 4 periods per day
- Easy timed override schedule
- Simplified vacation schedules
- Day-at-a-glance programming for simplified ease of use
- Programmable fan by period
- General maintenance reminder messaging
- Optional Remote Access Kit can be added for access to your system from the internet or phone

MODEL NUMBER NOMENCLATURE

SYSTX	BB	UIZ	01	-B
Product Type	Brand	Model Type	Packaged Quantity	Software Version
Evolution System	Bryant	UIZ - Zone User Interface 4ZC - Damper Control Module NIM - Network Interface Module SAM - System Access Module RRS - Remote Room Sensor LBP - Large Backplate GRP - Green ABCD Connector		

SYSTXBBUIZ01 - B



As an Energy Star® Partner,
Bryant Heating & Cooling Systems
has determined that this product
meets the ENERGY STAR®
guidelines for energy efficiency

EVOLUTION™
SYSTEM

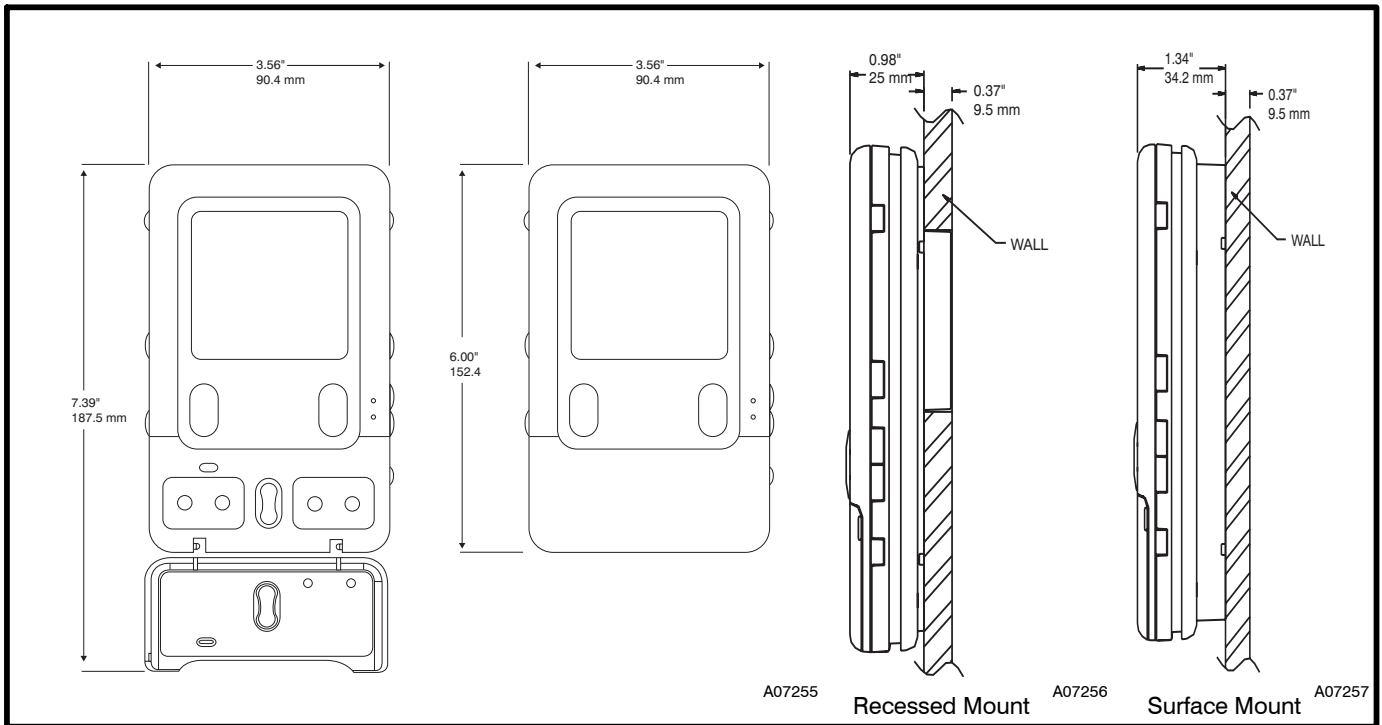
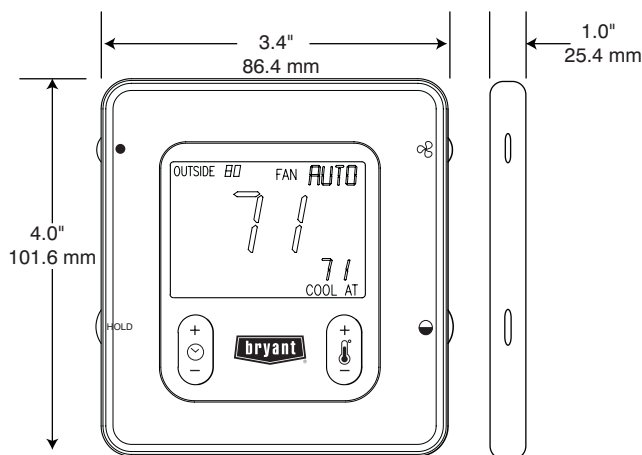
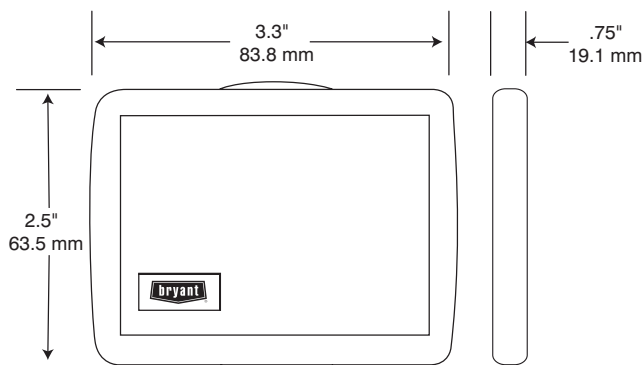


Fig. 1 – Unit Dimensions



A07283

Fig. 2 – Smart Sensor Dimensions



A07284

Fig. 3 – Remote Room Sensor Dimensions

ZONING EQUIPMENT

Description	Part No.
Evolution Zone Control	SYSTXBBUIZ01 – B
Evolution Network Interface Module (NIM)	SYSTXBBNIM01*
Evolution Damper Control Module (4 Zone)	SYSTXBBZC01†

NOTE: Each piece of zoning equipment is sold separately allowing for customization of the zoning application.

* Ventilator requires a Network Interface Module or Damper Control Module for operation.

Required to control a non-communicating heat pump in Hybrid Heat™ applications.

Required to control a non-communicating 2-stage AC or HP (i.e. R-22 Series A)

† One damper control module handles up to 4 zones. A second damper control module is needed for zones 5–8.

OPTIONAL ACCESSORIES

Description	Part No.
Evolution System Smart Sensor	SYSTXBBSMS01*
Evolution Remote Room Sensor (RRS)	SYSTXBBRRS01
Evolution Large Decorative Backplate	SYSTXX0LBP01
Green Indoor Unit Plug (ABCD Connector) – 10 Pack Replacement	SYSTXGRPLG10
Evolution System Access Module (SAM)	SYSTXBBSAM01
Evolution System Access Module (Remote Access Kit, Skytel-based)	SYSTXBBSAM01
Evolution System Access Module (Remote Access Kit, Ethernet)	SYSTXBBCAT501
Evolution System Access Module (Remote Access Kit, WiFi-Ethernet)	SYSTXBBWIFI01

* A combination of Evolution Smart Sensors and Evolution Remote Room Sensors can be used in the zones.

REPLACEMENT ACCESSORIES

Description	Part No.
Outdoor Sensor	TSTATBBSEN01 – B
Damper Control Module 1-amp Fuse	ATO1*

*Available from RCD

DAMPERS

Description		Part No.
Round Dampers	6" / 152.4 mm	DAMPRND06INC – B
	8" / 203.2 mm	DAMPRND08INC – B
	10" / 254 mm	DAMPRND10INC – B
	12" / 304.8 mm	DAMPRND12INC – B
	14" / 355.6 mm	DAMPRND14INC – B
	16" / 406.4 mm	DAMPRND16INC – B
Rectangular Dampers	8" X 10" / 203.2 X 254 mm	DAMPREC08X10 – B
	8" X 14" / 203.2 X 355.6 mm	DAMPREC08X14 – B
	8" X 18" / 203.2 X 457.2 mm	DAMPREC08X18 – B
	8" X 24" / 203.2 X 609.6 mm	DAMPREC08X24 – B
	10" X 10" / 304.8 X 304.8 mm	DAMPREC10X10 – B
	10" X 14" / 304.8 X 355.6 mm	DAMPREC10X14 – B
	10" X 18" / 304.8 X 457.2 mm	DAMPREC10X18 – B
	10" X 24" / 304.8 X 609.6 mm	DAMPREC10X24 – B

DAMPERS (cont)

SYSTXBBUIZ01 – B

Description		Part No.
Slip – In Dampers	Side mount, 8" X 8" / 203.2 X 203.2 mm	DAMPSSL08X08 – B
	Bottom mount, 8" X 8" / 203.2 X 203.2 mm	DAMPSLB08X08 – B
	Side mount, 8" X 10" / 203.2 X 254 mm	DAMPSSL08X10 – B
	Bottom mount, 8" X 10" / 203.2 X 254 mm	DAMPSLB08X10 – B
	Side mount, 8" X 12" / 203.2 X 304.8 mm	DAMPSSL08X12 – B
	Bottom mount, 8" X 12" / 203.2 X 304.8 mm	DAMPSLB08X12 – B
	Side mount, 8" X 14" / 203.2 X 355.6 mm	DAMPSSL08X14 – B
	Bottom mount, 8" X 14" / 203.2 X 355.6 mm	DAMPSLB08X14 – B
	Side mount, 8" X 16" / 203.2 X 406.4 mm	DAMPSSL08X16 – B
	Bottom mount, 8" X 16" / 203.2 X 406.4 mm	DAMPSLB08X16 – B
	Side mount, 8" X 18" / 203.2 X 457.2 mm	DAMPSSL08X18 – B
	Bottom mount, 8" X 18" / 203.2 X 457.2 mm	DAMPSLB08X18 – B
	Side mount, 8" X 20" / 203.2 X 508 mm	DAMPSSL08X20 – B
	Bottom mount, 8" X 20" / 203.2 X 508 mm	DAMPSLB08X20 – B
	Side mount, 8" X 22" / 203.2 X 558.9 mm	DAMPSSL08X22 – B
	Bottom mount, 8" X 22" / 203.2 X 558.9 mm	DAMPSLB08X22 – B
	Side mount, 8" X 24" / 203.2 X 609.6 mm	DAMPSSL08X24 – B
	Bottom mount, 8" X 24" / 203.2 X 609.6 mm	DAMPSLB08X24 – B
	Side mount, 10" X 10" / 254 X 254 mm	DAMPSSL10X10 – B
	Bottom mount, 10" X 10" / 254 X 254 mm	DAMPSLB10X10 – B
	Side mount, 10" X 12" / 254 X 304.8 mm	DAMPSSL10X12 – B
	Bottom mount, 10" X 12" / 254 X 304.8 mm	DAMPSLB10X12 – B
	Side mount, 10" X 14" / 254 X 355.6 mm	DAMPSSL10X14 – B
	Bottom mount, 10" X 14" / 254 X 355.6 mm	DAMPSLB10X14 – B
	Side mount, 10" X 16" / 254 X 406.4 mm	DAMPSSL10X16 – B
	Bottom mount, 10" X 16" / 254 X 406.4 mm	DAMPSLB10X16 – B
	Side mount, 10" X 18" / 254 X 457.2 mm	DAMPSSL10X18 – B
	Bottom mount, 10" X 18" / 254 X 457.2 mm	DAMPSLB10X18 – B
	Side mount, 10" X 20" / 254 X 508 mm	DAMPSSL10X20 – B
	Bottom mount, 10" X 20" / 254 X 508 mm	DAMPSLB10X20 – B
	Side mount, 10" X 22" / 254 X 558.9 mm	DAMPSSL10X22 – B
	Bottom mount, 10" X 22" / 254 X 558.9 mm	DAMPSLB10X22 – B
	Side mount, 10" X 24" / 254 X 609.6 mm	DAMPSSL10X24 – B
	Bottom mount, 10" X 24" / 254 X 609.6 mm	DAMPSLB10X24 – B
	Side mount, 12" X 12" / 304.8 X 304.8 mm	DAMPSSL12X12 – B
	Bottom mount, 12" X 12" / 304.8 X 304.8 mm	DAMPSLB12X12 – B
	Side mount, 12" X 14" / 304.8 X 355.6 mm	DAMPSSL12X14 – B
	Bottom mount, 12" X 14" / 304.8 X 355.6 mm	DAMPSLB12X14 – B
	Side mount, 12" X 16" / 304.8 X 406.4 mm	DAMPSSL12X16 – B
	Bottom mount, 12" X 16" / 304.8 X 406.4 mm	DAMPSLB12X16 – B
	Side mount, 12" X 18" / 304.8 X 457.2 mm	DAMPSSL12X18 – B
	Bottom mount, 12" X 18" / 304.8 X 457.2 mm	DAMPSLB12X18 – B
	Side mount, 12" X 20" / 304.8 X 508 mm	DAMPSSL12X20 – B
	Bottom mount, 12" X 20" / 304.8 X 508 mm	DAMPSLB12X20 – B
	Side mount, 14" X 14" / 355.6 X 355.6 mm	DAMPSSL14X14 – B
	Bottom mount, 14" X 14" / 355.6 X 355.6 mm	DAMPSLB14X14 – B
	Side mount, 14" X 16" / 355.6 X 406.4 mm	DAMPSSL14X16 – B
	Bottom mount, 14" X 16" / 355.6 X 406.4 mm	DAMPSLB14X16 – B
	Side mount, 14" X 20" / 355.6 X 508 mm	DAMPSSL14X20 – B
	Bottom mount, 14" X 20" / 355.6 X 508 mm	DAMPSLB14X20 – B
	Side mount, 16" X 16" / 406.4 X 406.4 mm	DAMPSSL16X16 – B
	Bottom mount, 16" X 16" / 406.4 X 406.4 mm	DAMPSLB16X16 – B
	Bottom mount, 16" X 20" / 406.4 X 508 mm	DAMPSLB16X20 – B

DAMPER REPLACEMENT ACCESSORIES

Description		Part No.
Actuators	45° Actuator for round dampers	DAMPACT45DEG – R
	90° Actuator for rectangular dampers	DAMPACT90DEG – R
	Damper Actuator Cover	DAMPACTXXCOV
	Damper Control Module 1 – amp Fuse	ATO1*

*Available from RCD.

PRODUCT DATA INFORMATION

Compatible Communicating Products

Air Conditioning units - 180A, 187A, 165A, 163A
Heat Pumps - 288A, 286A, 265A, 264A, 263A
Gas Furnace - 355AAV, 315AAV, 315JAV, 355BAV, 355CAV
Fan Coils - FE
Small Packaged Products - 707B, 607B, 577B, 677B, 704C, 604C, 574C, 577D, 707D, 607D, 677D

Physical Characteristics of SYSTXBBUIZ01

Dimensions: See drawing

Appearance: Plastic, white color, textured

Physical Characteristics of SYSTXBBSMS01

Dimensions: 4.0" / 101.6 mm high x 3.4" / 86.4 mm wide x 1.0" / 25.4 mm deep

Appearance: Plastic, white color, textured

Physical Characteristics of SYSTXBBRRS01

Dimensions: 2.5" / 63.5 mm high x 3.3" / 83.8 mm wide x 0.75" / 19.1 mm deep

Appearance: Plastic, white color, textured

Electrical Characteristics/Communication

Input Volts/Amps 24VAC

Each device in the Evolution System has a four-pin connector labeled ABCD. It is recommended that the following color code be used when wiring each device:

- A — Green = Data A
- B — Yellow = Data B
- C — White = 24VAC (Com)
- D — Red = 24VAC (Hot)

Environmental Requirements:

Operating Temperature/Relative Humidity:

User interface and all sensors: 32°F to 104°F / 0°C to 40°C, 95% rh non-condensing

Storage Temperature/Relative Humidity:

User interface: - 40°F to 134°F / -40°C to 56.7°C, 95% rh non-condensing

Damper Control Module: -40°F to 185°F / -40°C to 85°C, 41% rh non-condensing

Program Specifications:

Temperature setpoint range: 40°F to 90°F / 4.4°C to 32.2°C

Separate heat and cool setpoints

Programming days: 7 day

Programming periods: 2-Day, Sleep

4-Wake, Day, Eve, Sleep

Auto changeover (may be disabled)

Programmable fan (installer selectable)

Humidity Sensor Offsets

Auto Changeover Timer (installer adjustable)

Smart Recovery (in heating and cooling)

Hold function

Copy functions: Copy period, day and zone

Permanent memory

Humidity display and control

Temperature sensor offsets (indoor and outdoor)

TrueSense™ Dirty Filter Detection

Wiring Requirements:

Power supply: Dedicated 24VAC, 40 va, 60 Hz, via indoor equipment ABCD Connector. Isolated transformer, field supplied.

Wiring material: Standard thermostat wire 18 to 24 gauge.

