

ZONEBB3Z(AC/HP)01 THREE ZONE CONTROL



Product Data



THREE ZONE CONTROL

The Bryant 3-Zone system is comprised of a 3-zone controller and a duct temperature sensor. Thermostats and dampers are not included in the kit. A variety of non-programmable and programmable thermostats are available to satisfy the homeowner's personalized comfort needs. The 3-zone system does not require a field supplied transformer.

FEATURES / BENEFITS

The Bryant 3-Zone system allows the air conditioning and heating equipment to control temperatures in 3 distinct spaces or zones within a building. Each zone has independent temperature settings controlled by a conventional thermostat. Each zone can have up to 5 dampers.

DUCT TEMPERATURE OPTIMIZER — Offers maximum equipment protection to help ensure long life.

PROGRAMMABLE/NON-PROGRAMMABLE

THERMOSTAT COMPATIBILITY — Matches the right thermostat to the homeowner's comfort and lifestyle.

DIAGNOSTIC LEDs — Intelligent system diagnostics to let homeowners know if there is a problem with their system.

EMERGENCY HEAT SWITCH — Allows manual override for emergency heat strip operation when utilizing a heat pump.

MAXIMUM CYCLE RATE — Allows 4 equipment cycles per hr (cph) providing maximum equipment protection.

SELECTION JUMPERS — Designed for easy configuration.

ADDITIONAL OPTIONS

- TimeGuard override
- Compressor protection
- Modulating damper control in emergency situations
- Damper fuse protection
- High- and low-temperature limits
- Auto changeover from any zone
- RH and RC for voltage isolation
- Bypass setup routine
- Staging time for energy savings
- Automatic checkout with installer mode
- Override zoning switch
- Timer override for serviceability

PRODUCT DATA INFORMATION

Physical Characteristics

Dimensions: 10.75" x 7.75" x 1.75"

Appearance:

Control Module Cover: Plastic, white color

Wire Terminal Cover: Metal, white color

Electrical Characteristics

Input Volts/Amps: 24vac, Less than 40va

Environmental Requirements

Operating Temperature/Relative Humidity:

Equipment Controller and wireless receiver: 32°F to 150°F,

95% rh non-condensing

Applications

Up to 2 stages cool/2 stages heat

Wiring Requirements

Power supply: Dedicated 24vac, 40va, 60 hz isolated transformer, field supplied.

Wiring material: Standard thermostat wire 18 to 24 gage.

THERMOSTATS

PART NUMBERS	PROGRAM	GAS	ELECTRIC	HEAT PUMP	HYBRID HEAT™	HEAT	COOL
Preferred							
TSTATBBPRH01 – B	7 – Day or NP	*	*	*	*	3	2
TSTATBBPHH01 – B	7 – Day	*	*	*	*	3	2
TSTATBBPAC01 – B	7 – Day	*	*			1	1
TSTATBBPHP01 – B	7 – Day	*	*	*		2	1
TSTATBBP2S01 – B	7 – Day	*	*	*		3	2
TSTATBBPF701	7 – Day	*	*	*		2	2
TSTATBBPF101	1 – Day	*	*	*		2	2
TSTATBBREC01							
TSTATBBPRF01	7 – Day	*	*	*		2	2
Legacy							
TSTATBBNAC01 – C	NP	*	*			1	1
TSTATBBNHP01 – C	NP	*	*	*		2	1
TSTATBBN2S01 – C	NP	*	*	*		3	2
TSTATBBPQ501	5 – 2 Day	*	*			1	1
Legacy RNC							
TSTATBBSAC01	5 – 2 Day	*	*			1	1
TSTATBBSHP01	5 – 2 Day		*	*		2	1
TSTATBBBAC01 – B	NP	*	*			1	1
TSTATBBBHP01 – B	NP			*		2	1
TSTATBBPB501	5 – 2 Day	*	*	*		2	2
TSTATBBPB101	1 – Day	*	*	*		2	2
TSTATBBP2W01	7 – Day	Heat Or Cool Only (2 wires)					
TSTATBBN2W01	NP	Heat Or Cool Only (2 wires)					
TSTATBBNB001	NP	*	*	*		1	1
TSTATBBNQ001	NP	*	*			1	1

THERMOSTAT ACCESSORIES

PART NUMBER	DESCRIPTION
TSTATXXSEN01 – B*	Outdoor Air Temperature Sensor
TSTATXXNBP01 – C†	Backplate for Deluxe Non – Programmable – C Thermostat
TSTATXXBP01†	Backplate for Programmable Thermostat and Thermidistat Control
TSTATXXBBP01†	Backplate for Legacy RNC Model Thermostat
TSTATXXSBP01†	Backplate for Preferred Programmable Thermostat
TSTATXXCNV10‡	Thermostat Conversion Kit (4 to 5 Wire) — 10 Pack

* Outdoor-temperature sensor is an accessory for all Bryant electronic thermostats, except the non-programmable air conditioner version and Legacy RNC model thermostats. It allows the temperature at a remote location (outdoors) to be displayed on the thermostat. The outdoor air temperature sensor must be used with the Hybrid Heat thermostat.

† Plate is designed to cover surrounding wall area located behind thermostat.

‡ Thermostat-conversion kit is a 24vac accessory that can turn a 4-wire thermostat application into a 5-wire application. The kit can also be used to replace a broken thermostat wire, or add an extra wire when needed. Do not use this kit with the AC model of the Legacy RNC or Preferred Programmable thermostat.

ACCESSORIES

3-ZONE CONTROL ACCESSORIES	
PART NUMBER	DESCRIPTION
ZONEXXODTS01	Duct Temperature Sensor*

* Duct temperature sensor required for heat pump zone board.

DAMPERS		
DESCRIPTION	SIZES	PART NUMBER
Round Dampers	6 in.	DAMPRND06INC-B
	8 in.	DAMPRND08INC-B
	10 in.	DAMPRND10INC-B
	12 in.	DAMPRND12INC-B
	14 in.	DAMPRND14INC-B
	16 in.	DAMPRND16INC-B
Rectangular Dampers	8 in. X 10 in.	DAMPREC08X10-B
	8 in. X 14 in.	DAMPREC08X14-B
	8 in. X 18 in.	DAMPREC08X18-B
	8 in. X 24 in.	DAMPREC08X24-B
	10 in. X 10 in.	DAMPREC10X10-B
	10 in. X 14 in.	DAMPREC10X14-B
	10 in. X 18 in.	DAMPREC10X18-B
	10 in. X 24 in.	DAMPREC10X24-B
Rectangular Barometric Bypass	8 in. X 14 in.	DAMPBAR08X14
	8 in. X 24 in.	DAMPBAR08X24
Round Barometric Bypass	8 in.	DAMPBAR08INC
	10 in.	DAMPBAR10INC
	12 in.	DAMPBAR12INC
	14 in.	DAMPBAR14INC
	16 in.	DAMPBAR16INC
Slip-In Dampers	Side mount, 8 X 8	DAMPSLS08X08-B
	Bottom mount, 8 X 8	DAMPSLB08X08-B
	Side mount, 8 X 10	DAMPSLS08X10-B
	Bottom mount, 8 X 10	DAMPSLB08X10-B
	Side mount, 8 X 12	DAMPSLS08X12-B
	Bottom mount, 8 X 12	DAMPSLB08X12-B
	Side mount, 8 X 14	DAMPSLS08X14-B
	Bottom mount, 8 X 14	DAMPSLB08X14-B
	Side mount, 8 X 16	DAMPSLS08X16-B
	Bottom mount, 8 X 16	DAMPSLB08X16-B
	Side mount, 8 X 18	DAMPSLS08X18-B
	Bottom mount, 8 X 18	DAMPSLB08X18-B
	Side mount, 8 X 20	DAMPSLS08X20-B
	Bottom mount, 8 X 20	DAMPSLB08X20-B
	Side mount, 8 X 22	DAMPSLS08X22-B
	Bottom mount, 8 X 22	DAMPSLB08X22-B
	Side mount, 8 X 24	DAMPSLS08X24-B
	Bottom mount, 8 X 24	DAMPSLB08X24-B
	Side mount, 10 X 10	DAMPSLS10X10-B
	Bottom mount, 10 X 10	DAMPSLB10X10-B
	Side mount, 10 X 12	DAMPSLS10X12-B
	Bottom mount, 10 X 12	DAMPSLB10X12-B
	Side mount, 10 X 14	DAMPSLS10X14-B
	Bottom mount, 10 X 14	DAMPSLB10X14-B
	Side mount, 10 X 16	DAMPSLS10X16-B
	Bottom mount, 10 X 16	DAMPSLB10X16-B
	Side mount, 10 X 18	DAMPSLS10X18-B
	Bottom mount, 10 X 18	DAMPSLB10X18-B
	Side mount, 10 X 20	DAMPSLS10X20-B
	Bottom mount, 10 X 20	DAMPSLB10X20-B
	Side mount, 10 X 22	DAMPSLS10X22-B
	Bottom mount, 10 X 22	DAMPSLB10X22-B
	Side mount, 10 X 24	DAMPSLS10X24-B

Designates new sizes

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DAMPERS (Continued)		
DESCRIPTION	SIZES	PART NO.
Slip-In Dampers (continued)	Bottom mount, 10 X 24	DAMPSLB10X24–B
	Side mount, 12 X 12	DAMPSLS12X12–B
	Bottom mount, 12 X 12	DAMPSLB12X12–B
	Side mount, 12 X 14	DAMPSLS12X14–B
	Bottom mount, 12 X 14	DAMPSLB12X14–B
	Side mount, 12 X 16	DAMPSLS12X16–B
	Bottom mount, 12 X 16	DAMPSLB12X16–B
	Side mount, 12 X 18	DAMPSLS12X18–B
	Bottom mount, 12 X 18	DAMPSLB12X18–B
	Side mount, 12 X 20	DAMPSLS12X20–B
	Bottom mount, 12 X 20	DAMPSLB12X20–B
	Side mount, 14 X 14	DAMPSLS14X14–B
	Bottom mount, 14 X 14	DAMPSLB14X14–B
	Side mount, 14 X 16	DAMPSLS14X16–B
	Bottom mount, 14 X 16	DAMPSLB14X16–B
	Side mount, 14 X 20	DAMPSLS14X20–B
	Bottom mount, 14 X 20	DAMPSLB14X20–B
	Side mount, 16 X 16	DAMPSLS16X16–B
	Bottom mount, 16 X 16	DAMPSLB16X16–B
	Bottom mount, 16 X 20	DAMPSLB16X20–B

Designates new sizes

NOTE: The above dampers are recommended because they use the latest style actuators designed for zoning systems. These actuators are direct-drive and use slightly less power to operate. If using older style dampers with this zoning system (ie., dampers with a crankarm), it is recommended to upgrade the actuator to DAMPACT45DEG or DAMPACT90DEG.

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