

Model ZCDWLB

2-Zone Wireless Automatic Comfort Control

eControls

For Aftermarket



The ZCDWLB 2-Zone Wireless Comfort Control automatically controls the distribution of heating and cooling to provide a uniformly comfortable home.

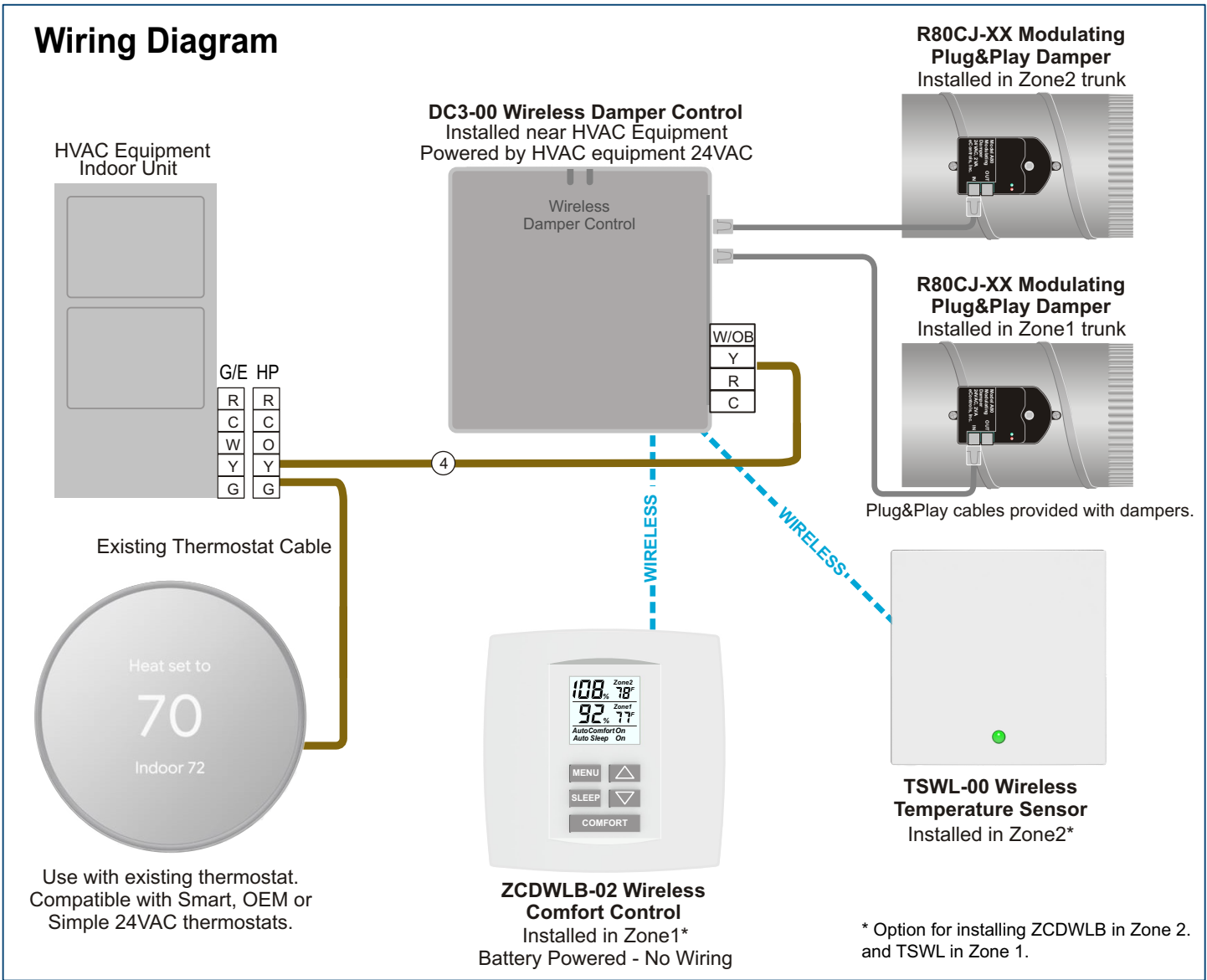
- ▶ No new wiring in the living space.
- ▶ Eliminates Bypass
- ▶ Eliminates DAT sensor and separate 24VAC transformer.
- ▶ About half the material cost of zoning
- ▶ About half the installation time of zoning.
- ▶ Works with OEM Communicating Thermostats, Smart Thermostats and simple 24VAC Thermostats.



Proudly designed, engineered
and assembled in the USA



Wiring Diagram



Installation

Typical installation includes two round R80CJ or rectangular RT80CJ Modulating Plug&Play Dampers installed in the trunks feeding the upstairs and downstairs zones.

The DC3 Wireless Damper Control is installed near the equipment and wires to gas/electric equipment terminals R, C, Y and W or heat pump equipment terminals R, C, Y and O/B for 24VAC power and to monitor the equipment for heating and cooling calls. The dampers connect to the DC3 using the included plug&play cables.

The TSWL wireless temperature sensor is installed in the upstairs zone, is battery powered and requires no wiring.

The ZCDWLB Wireless 2-Zone Control is installed in the downstairs zone, is battery powered and requires no wiring. The ZCDWLB is compatible with simple, Smart and OEM thermostats. Alternately, the ZCDWLB can be installed in the upstairs zone and the sensor installed in the downstairs zone.

How It Works

The ZCDWLB monitors the equipment for heating and cooling calls and monitors the downstairs temperature at its location and the upstairs temperature at the sensor.

If the upstairs and downstairs temperatures differ by 2 degrees or more, the ZCDWLB automatically distributes 2% more heating or cooling to the zone that needs it every 2 minutes.

To distribute more heating or cooling upstairs, the upstairs damper fully opens and the downstairs damper partially closes, forcing more heating or cooling to the upstairs zone. To distribute more heating or cooling downstairs, the downstairs damper fully opens and the upstairs damper partially closes, forcing more heating or cooling to the downstairs zone.

The ZCDWLB system dynamically adjusts the dampers to find the right distribution of heating and cooling to provide a balanced, comfortable home and save energy in every season.

Comparison to Zoning

	ZCDWLB Control	Traditional Zoning
Install Bypass Duct and Damper	Not Required. Modulating dampers never close.	May be required or in-zone bypass damper may be used.
Bypass Calibration and Test	Not Required.	Requires testing and setting of bypass.
Install Damper Control or Zoning Panel	Install Damper Control. Connect 4 wires and 2 plug&play cables.	Install Zoning Panel. Connect 23-25 wires.
Line Voltage Wiring	Not Required. Uses equipment 24VAC.	Required for 24VAC transformer.
Install 24VAC Transformer and Box	Not Required. Uses equipment 24VAC.	Required.
Install and wire DAT sensor in plenum	Not Required. Discharge air temperature is not affected by modulating zoning.	Required.
Wire Dampers	Not Required. Plug&Play	Required.
Compatible with Existing Thermostat	Yes.	Yes. If Simple or Smart Thermostat. No, if Smart OEM Communicating Thermostat.
Install 2-Zone Wall Control Downstairs	Required. Battery Powered - No Wiring.	Not Required.
Install Thermostat Upstairs	Install wireless sensor - No wiring.	Required.
Install New Wiring in the Living Space	Battery powered ZCDWLB requires no wiring.	Required for upstairs thermostat. Or use expensive wireless hub and wireless thermostat.



Easiest to Install 2-Zone System Available

- ▶ No Bypass to Install
- ▶ No Bypass to Calibrate and Test
- ▶ Only 4 Wires to Connect vs. 23-25 Wires
- ▶ No DAT Sensor to Install
- ▶ No 24VAC Transformer to Install
- ▶ Only 1 HERS Test vs. 3 Tests
- ▶ Works with Any 24VAC Thermostat
- ▶ No New Wiring in Living Space.



Homeowner Features

Save 30% in Energy at Night
Improves comfort and saves 30% in energy at night by automatically distributing more heating or cooling to the upstairs zone and 30% less to the unoccupied downstairs zone.

Automatic or Manual Comfort Control
Automatically controls the distribution of heating or cooling to keep the upstairs and downstairs uniformly comfortable. Or, the homeowner can manually direct more heating or cooling to the upstairs or downstairs zone as desired.

Ordering Information

ZCDWLB-K1

**2-Zone Wireless Automatic Comfort Control Kit
Wireless Single Sensor. Battery Powered.**

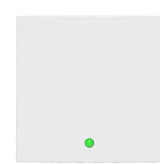
Kit Includes ZCDWLB-02 2-Zone Wireless Comfort Control, DC3-00 Wireless Damper Control and one TSWL-00 Wireless Temperature Sensor.



ZCDWLB-02



DC3-00



TSWL-00

ZCDWLB-K2

**2-Zone Wireless Automatic Comfort Control Kit
Wireless Dual Sensors. Battery Powered.**

Kit Includes ZCDWLB-02 2-Zone Wireless Comfort Control, DC3-00 Wireless Damper Control and two TSWL-00 Wireless Temperature Sensors.



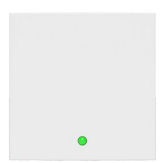
ZCDWLB-02



DC3-00



TSWL-00



TSWL-00

R80CJ-XX

Round, Modulating, Plug&Play Damper. Includes 25' plug&play cable. Available in 6-20 inch diameters.



RT80CJ-XX

Rectangular, Modulating, Plug&Play Damper. Includes 25' plug&play cable. Call for available sizes.



Other Zoning Products



Model ZCDWLBC

2-Zone automatic comfort control for communicating equipment w/out R, C, Y, G outputs. Eliminates bypass and DAT sensor. Available 2nd Quarter 2024



ZCMWL

2-Zone manual comfort control. Eliminates bypass, DAT sensor and separate 24VAC transformer.



Pro442PD

4-Zone panel with automatic bypass control and on-panel display. Ability to add 4-8 additional zones. For gas/electric, heat pump and dual fuel heat pump equipment w/ 4H/2C.

Where to Purchase

Available through distribution.

Contact Information:

949-916-0945

Sales@eControlsUSA.com

Visit eControlsUSA.com to see other 2-Zone Comfort Controls and Zone Panel solutions.

Limited 5-Year Warranty

The 5-year warranty is limited to the repair or replacement of defective product due to parts failure or defective workmanship.

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