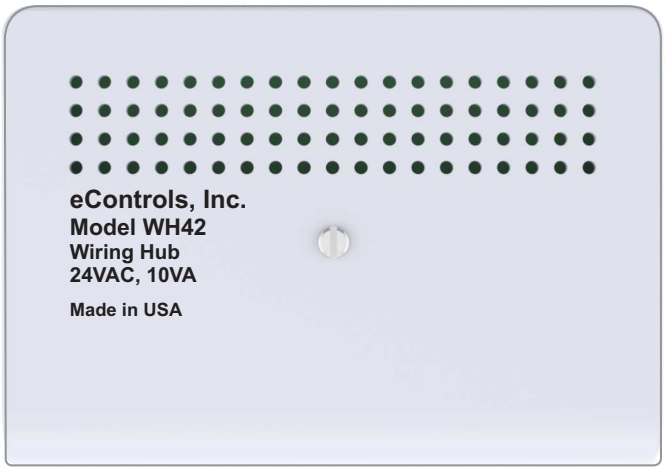
Comfort365

WH42 Wiring Hub

The WH42 Wiring Hub is installed at the equipment and wired to the C365C42 or C365C42WF communicating touch thermostat using a 4-wire thermostat cable. The wiring hub and thermostat control heating and cooling and airflow to the sleeping and living areas and provides a uniformly comfortable home.

The Wiring Hub can use either wired or wireless temperature sensors making it economical in RNC installations and easy to install in replacement installations.

The Wiring Hub uses Plug&Play dampers. A 25-foot RJ11 cable is supplied with each damper.



Heating/Cooling Control

Airflow Control

Fresh Air Control

ERV/HRV Control

WHF Control

Economizer Control

Features

- Automatically adjusts airflow to keep the sleeping and living area temperatures to within 2ºF.
- Reduces energy usage by 30% at night by directing 30% more airflow to the sleeping area and 30% less airflow to the unoccupied living area.
- Uses the sleeping area temperature sensors at night to control heating and cooling calls.
- Uses wired or wireless, battery powered temperature sensors.
- Manual or automatic airflow control.
- No bypass required. Airflow is maintained at rated CFM.
- About half the cost of a zoning system. Eliminates installing a 24VAC transformer and electrical box, discharge air temperature sensor and adjusting bypass dampers. Only 9 to 11 wires compared to 25 to 27 for zoning.
- Easy plug and play upgrade to the WiFi thermostat. Plugs onto the same subbase.

Specifications

Compatible Equipment
Gas/electric, 2H/2C
Heat pump, 2H/2C/1Aux.

Compatible Thermostats
Model C365C42 or C365C42WF.

Airflow Dampers
Plug&Play modulating dampers.
25-foot RJ11 cable supplied with each damper

WHF Control
The ECool mode controls a WHF or Economizer using temperature or a built-in 1 to 8-hour timer.

Fresh Air
Intelligent control of fresh air per ASHRAE 62.2 with temperature limits for inhibiting fresh air in severe weather.

ERV/HRV
Controls an ERV or HRV recovery unit during fresh air operation.

Damper Power
3VA operating and less than 1VA holding position.

Wired or Wireless Sensors
The wiring hub uses low cost wired temperature sensors for RNC or wireless temperature sensors to monitor the sleeping area temperature. Two sensors can be used and their temperatures averaged.

eLink Plugin Radio
The eLink radio is required when using wireless temperature sensors in the sleeping area.

Outdoor Sensor
An optional outdoor temperature sensor can be used to control fossil fuel heating in dual fuel heat pumps.

Equipment Terminals
R, C, W/B, O, Y, W2/E, Y2 and G

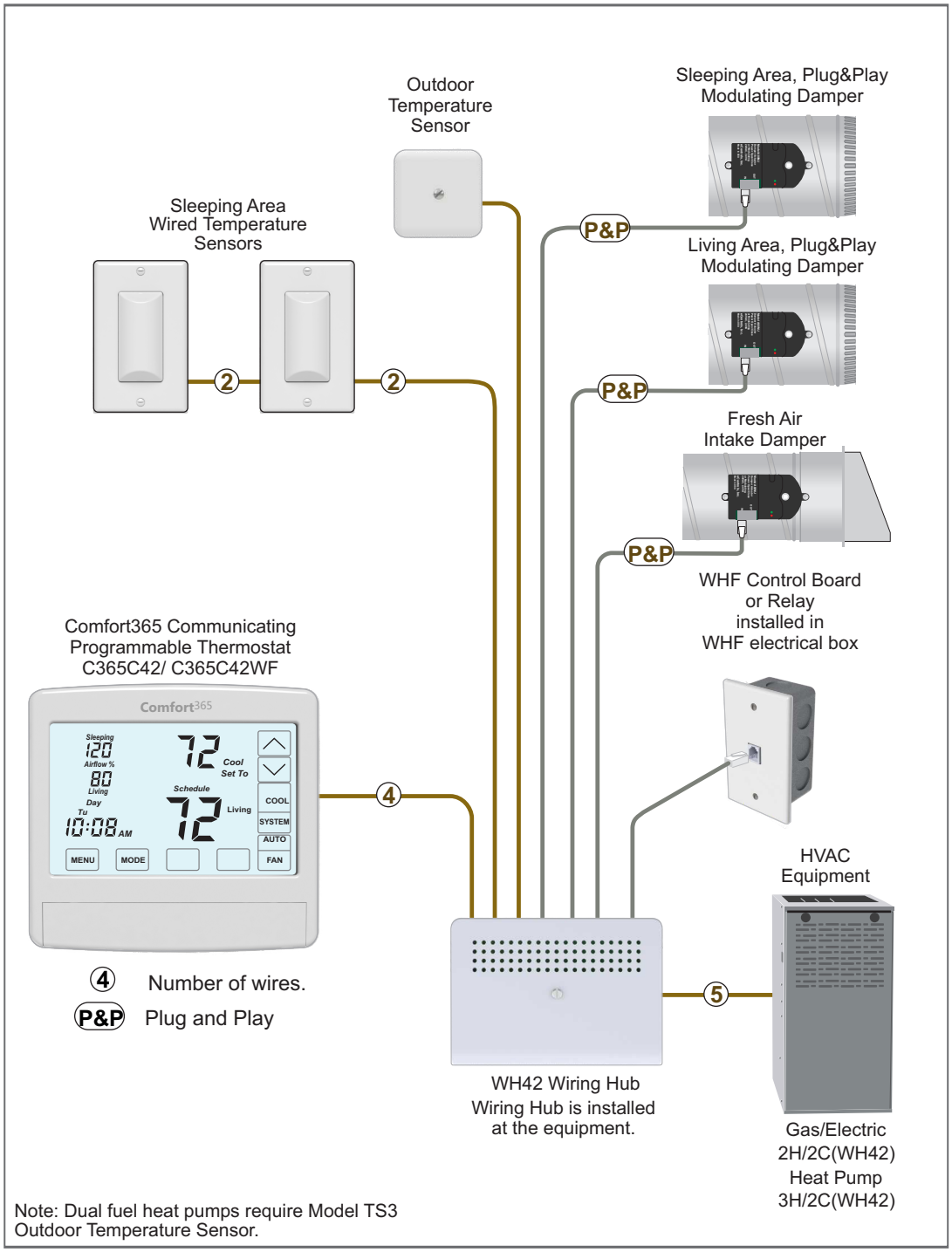
Thermostat Terminals
GND, +5V, SA, and SB.

Damper Connection
RJ11 connectors for the Sleeping area and Living area Plug&Play dampers.

Power
Uses 24VAC power from the R and C equipment terminals.

Mechanical
5.51w x 3.95h x 1.27d inches. Screws and anchors included for installation.

C365C42 or C365C42WF with WH42 with Wired Sensors



Note: Dual fuel heat pumps require Model TS3 Outdoor Temperature Sensor.

See the C365C42 Data Sheet for other wiring configurations.

Comfort365 Thermostats

Model C365C42
Model C365C42WF
With WiFi

Temperature Sensors

Model TS510W
For single sleeping area sensor installations
Model TS520W
For dual sleeping area sensor installations
Model TS3
Outdoor temperature sensor

Wiring Hub

Model WH42
For multi-stage G/E or HP

Airflow Dampers

Model R80CJ-XX
Plug&Play
Modulating Damper
XX is 6 to 20-inch diameter

Fresh Air Damper

Model R80ZJ-XX
Plug&Play
Open/Close Damper
XX is 6 to 20-inch diameter

WHF Control Board

Model FC2J
Plug&Play
Controls 1 or 2-Speed PSC or PWM control of ECM

5-Year Warranty

All products have a 5-year warranty, limited to the repair or replacement of the product due to defective material or workmanship.

eControls
26072 Merit Circle #110, Laguna Hills, CA 92653
949-916-0945, www.eControlsUSA.com