

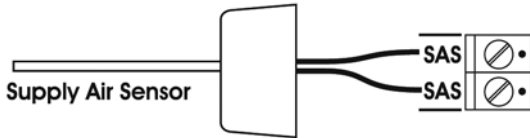
Wiring Instructions

All wiring should be done in accordance with local and national codes. Use color-coded, multi-conductor thermostat wire.

THESE PANELS ARE DESIGNED FOR USE WITH 24VAC CONTROLS AND SHOULD NOT BE USED WITH OTHER VOLTAGES. USE CAUTION TO AVOID ELECTRIC SHOCK OR DAMAGE TO EQUIPMENT.

Wiring Supply Air Sensor

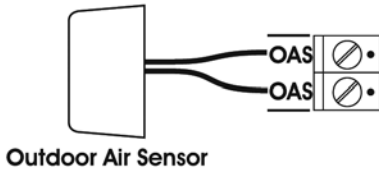
To install the optional Supply Air Sensor, connect two wires to the Supply Air Sensor and to the two terminals marked "SAS" on the panel.



The Supply Air Sensor should be installed in the Supply Air Plenum so that it measures the supply air temperature.

Wiring Outdoor Air Temperature Sensor

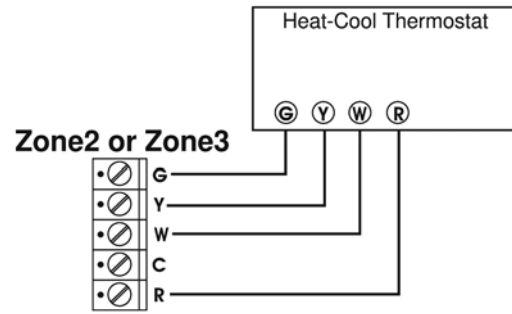
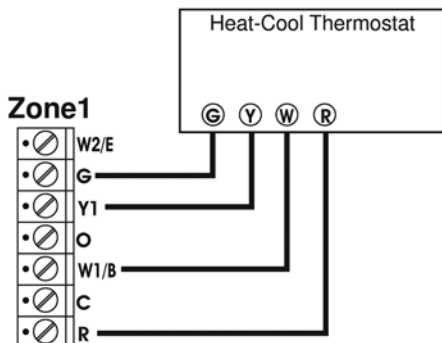
To install the optional Outdoor Air Temperature Sensor, connect two wires to the Outdoor Air Sensor and to the two terminals marked "OAS" on the panel.



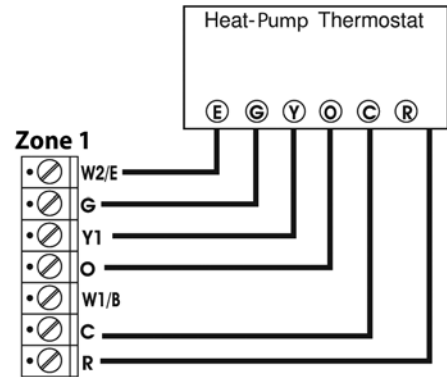
The Outdoor Air Temperature Sensor should be installed outside and in a shaded location.

Wiring Zone Thermostats

All zones can use low cost, heat-cool thermostats as shown below. Be sure to set DIP switch #4 to HC if a heat-cool thermostat is used in Zone1.



A heat pump thermostat can be used in Zone1 to provide emergency heat control from the thermostat. Be sure to set DIP switch #4 to HP.

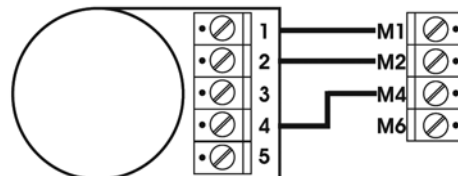


Wiring Dampers

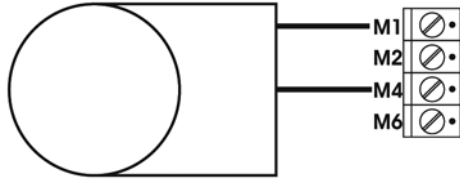
The panel can be used with any 24VAC power open/power close or spring return damper. Terminal M1 is 24VAC common, M2 is 24VAC, M4 is 24VAC when the panel opens the damper and M6 is 24VAC when the panel closes the damper.



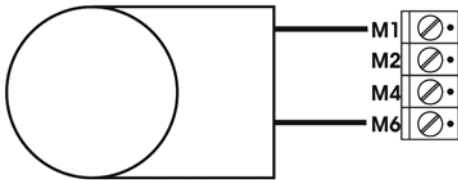
Wiring diagram for DuroZone MB, MS, or RD type damper.



Wiring diagram for a spring return damper that is normally closed with no power (spring closed).



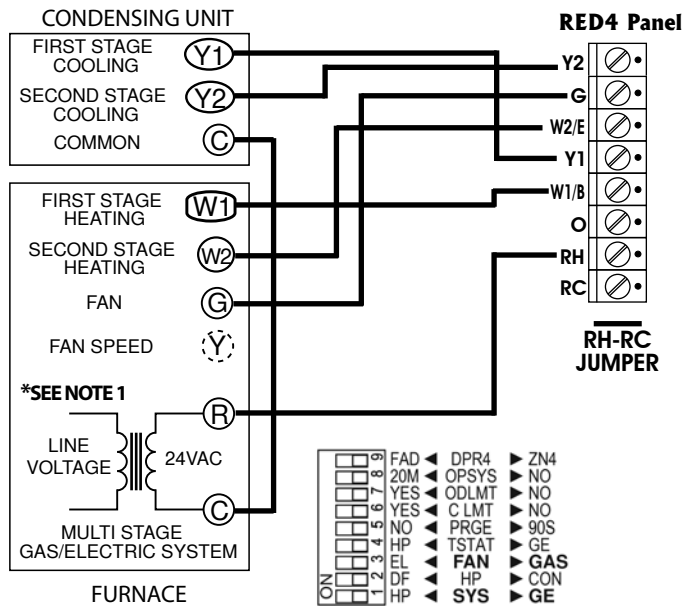
Wiring diagram for a spring return damper that is normally open with no power (spring open).



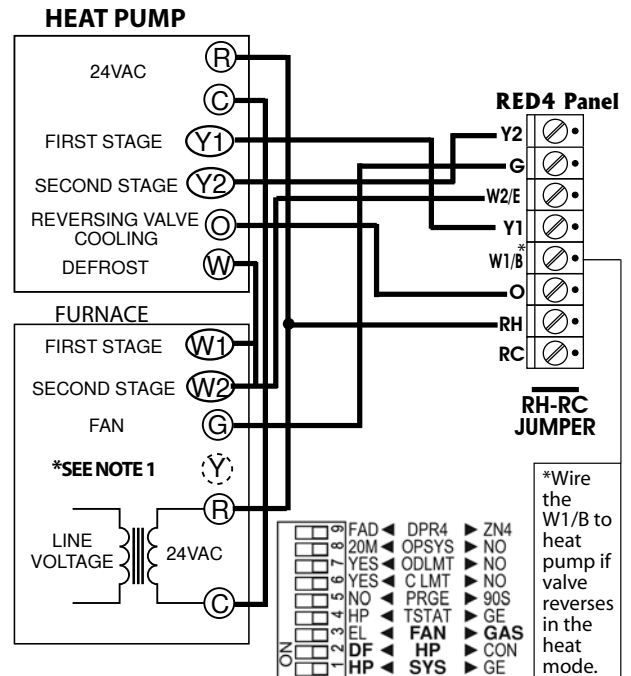
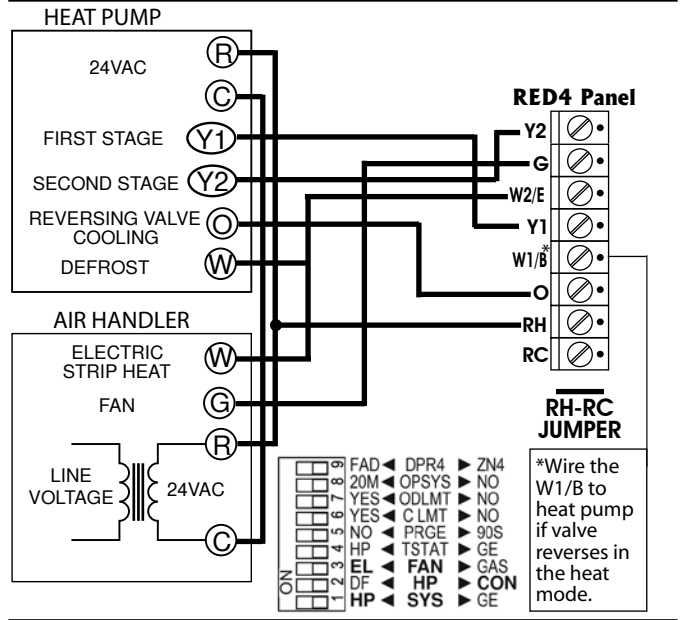
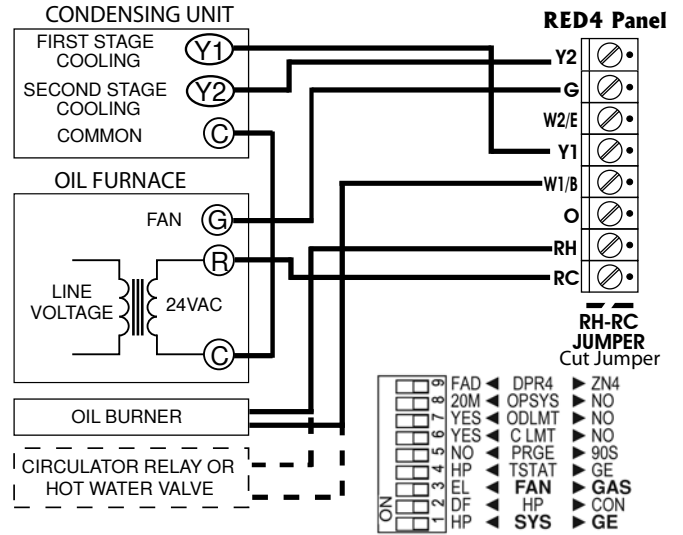
Wiring HVAC System

The panel can be used with a wide variety of HVAC systems. Some of the more common configurations follow:

PLEASE NOTE: THE RED4 PANEL MUST BE POWERED BY AN INDEPENDENT LOW VOLTAGE POWER SUPPLY AND NOT BY THE EQUIPMENT LOW VOLTAGE POWER SUPPLY.



***NOTE 1:** Sometimes Y needs to be wired to the furnace for fan speed.



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