

ElitePRO Installation Manual

Wiring Diagrams

Whole house humidifier, dehumidifier, or ventilator wiring

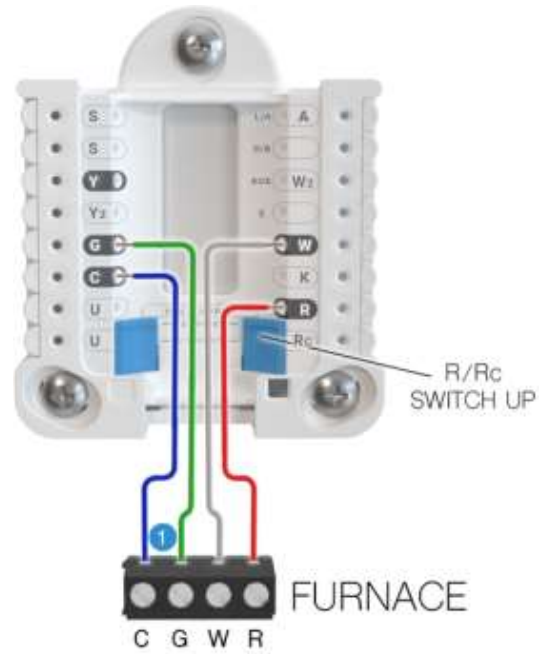
Using the L terminal to control IAQ (S1000, S1100, & S1200 only)



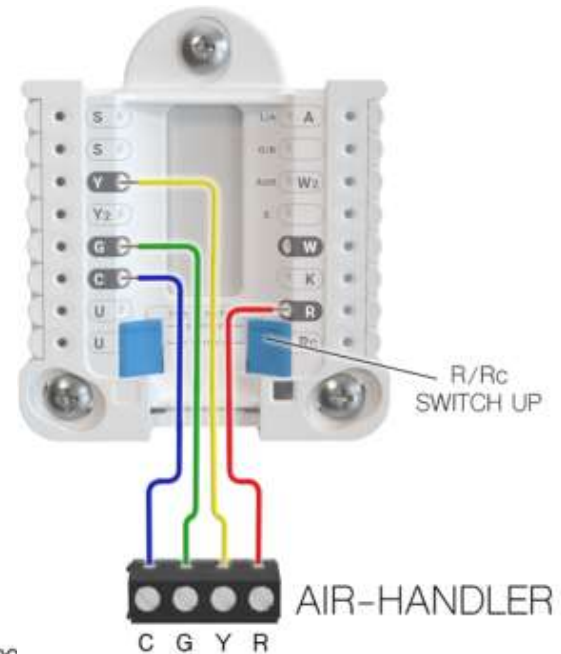
Wiring an ElitePRO™ Series Thermostat without EIM

1. Use 18- to 22- gauge thermostat wire. Shielded cable is not required.
2. Set the R Slider Tab on the UWP to the up position (1 wire) for 1 transformer systems or the down position (2 wires) for 2 transformer systems.
3. Set the U Slider Tab to the position shown for IAQ wiring diagrams on Using U Terminals.

Heat only: Gas, Oil, or Electric furnace



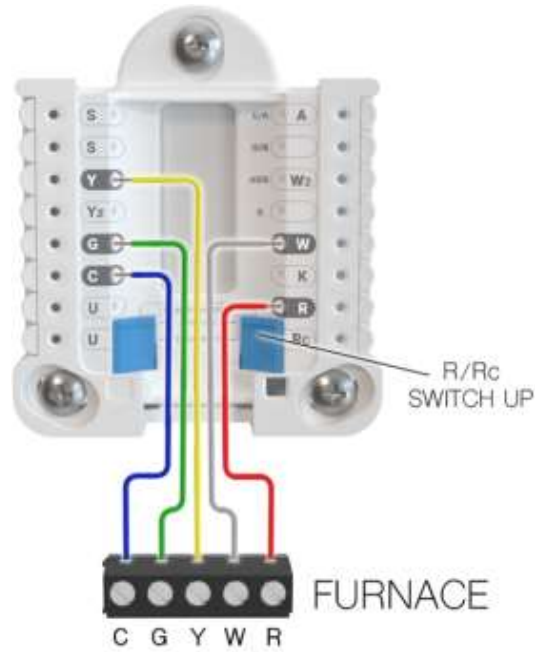
Cool only



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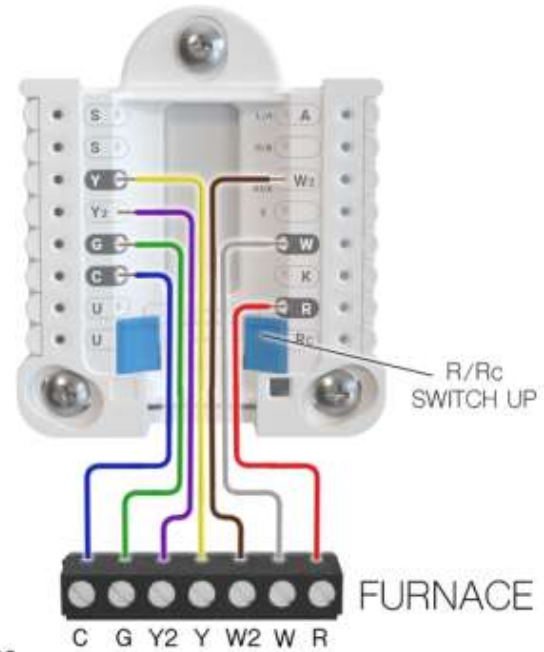
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1H/1C gas or Electric furnace



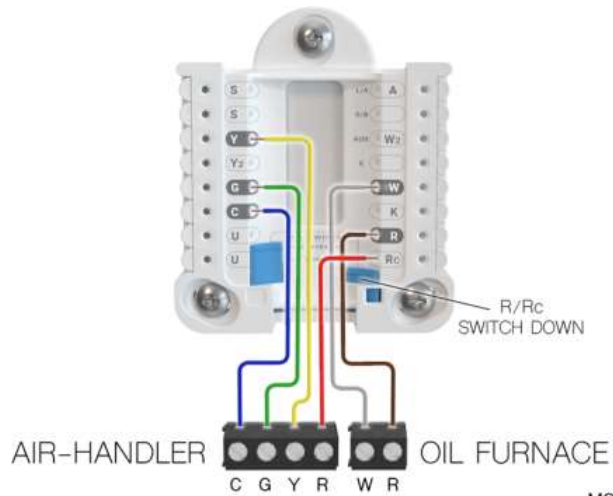
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2H/1C gas furnace



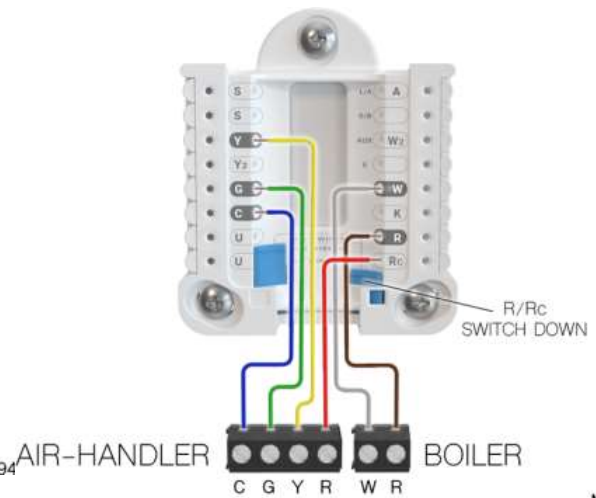
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2-transformer system; 1H/1C oil furnace



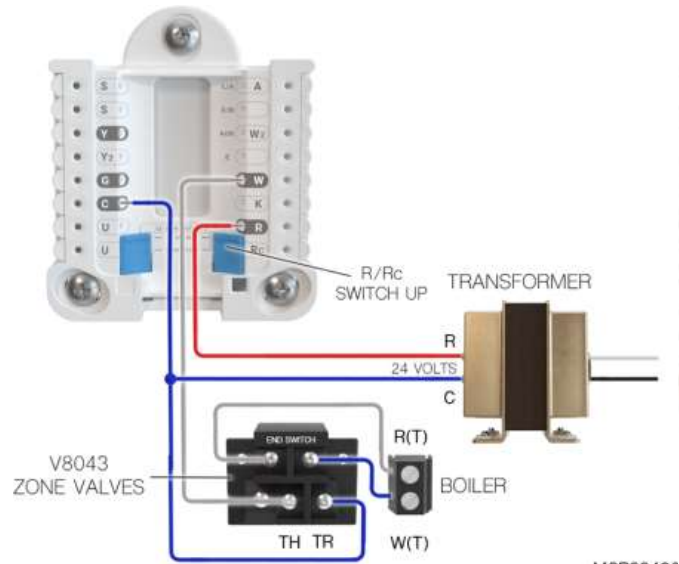
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2-transformer system; hot water heat with air-conditioning (or hot water coil)



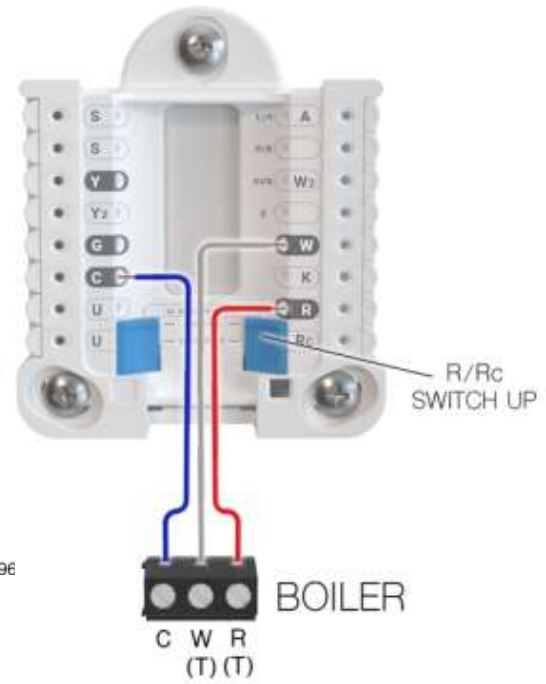
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Hot water heat with power open zone valve



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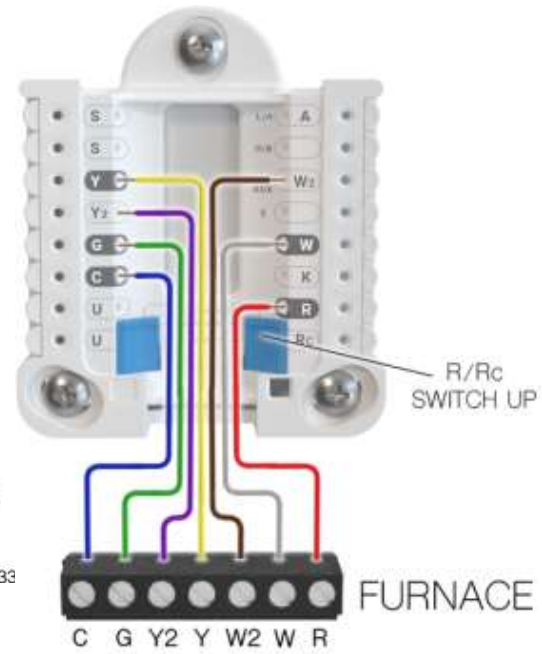
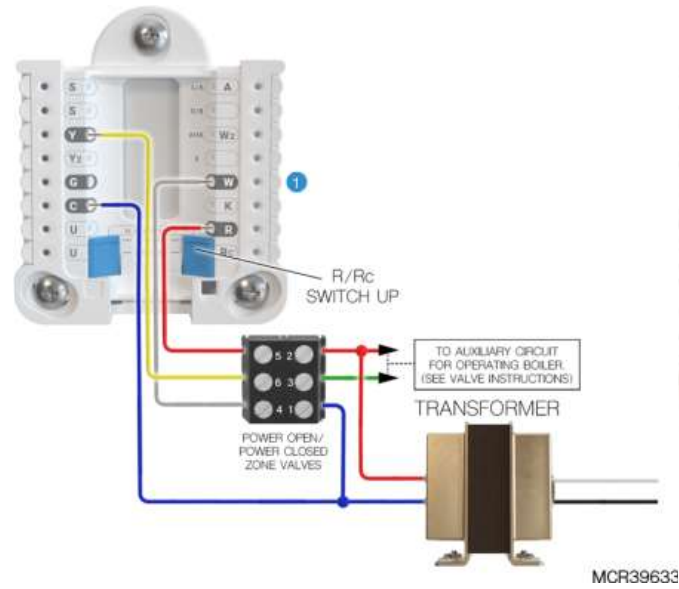
Hot water boiler, heat only



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Series 20 valve (power open and power closed)

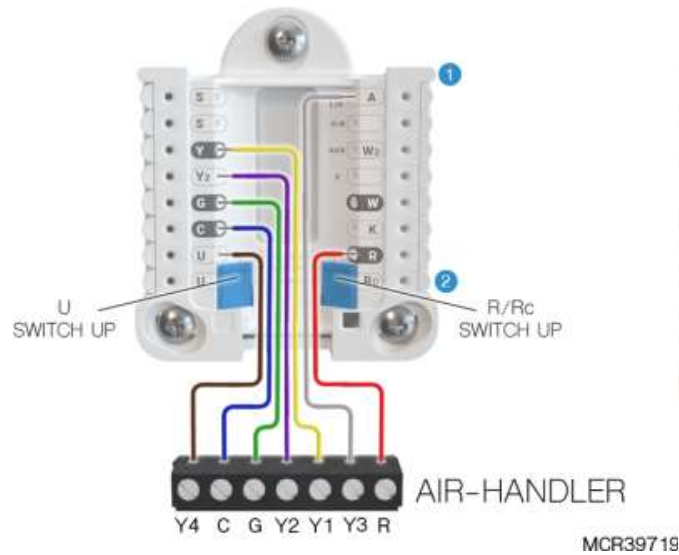
2H/2C Gas Furnace



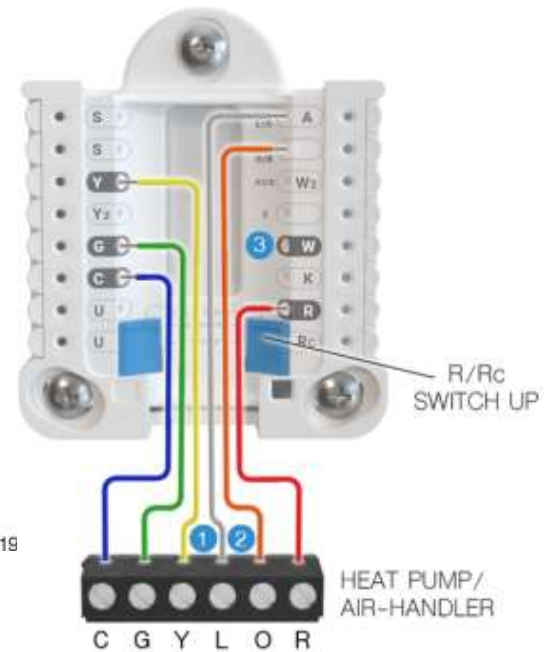
1 Thermostat must be configured for radiant heat with 0 (zero) cool stages.

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Wiring a third and fourth Cool stage without EIM 1H/1C Heat Pump without Aux Heat



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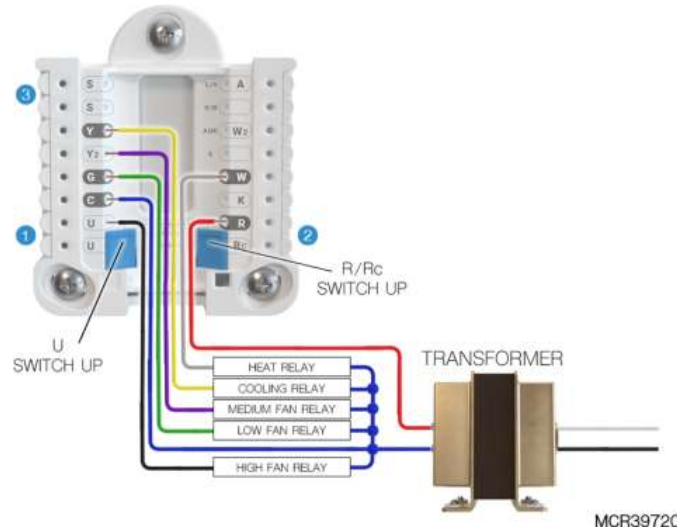


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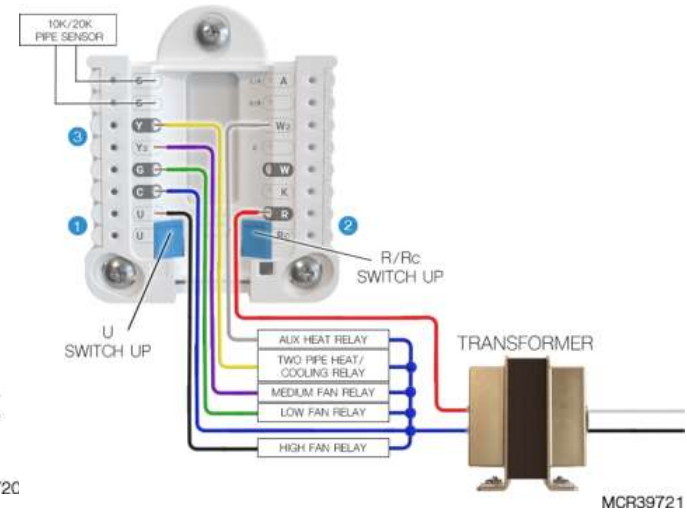
- 1 S900 models of ElitePRO™ Series Thermostats cannot use L/A for a cool stage. Verify ISU settings 2080 & 2090 match wiring. The L/A and U wires may be reversed.
- 2 If heating (not shown) uses a different transformer than cooling, cooling transformer goes to Rc and the R/Rc slider should be down.

- 1 L only connected if heat pump has a fault terminal.
- 2 Some heat pumps use B rather than O for reversing valve.
- 3 **IMPORTANT: DO NOT** connect any wire to W for heat pump applications! This can cause heat to run continuously.

Typical wiring of 4-pipe fan coil



Typical wiring of 2-pipe fan coil with reheat using wired 10K/20K Heat/cool changeover pipe sensor

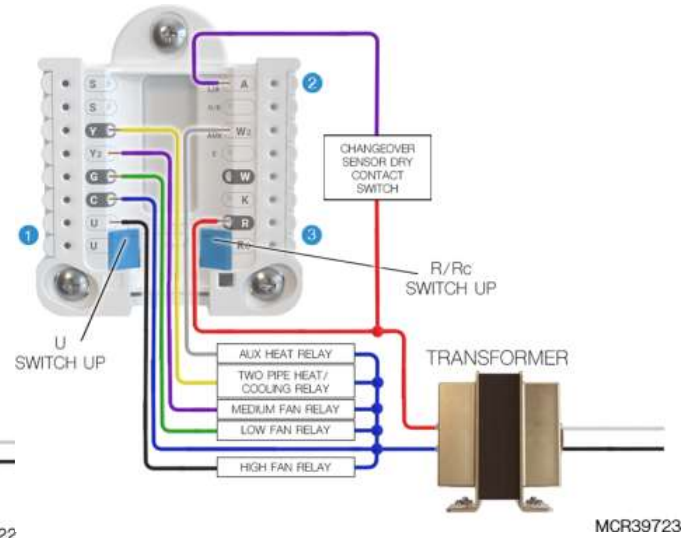
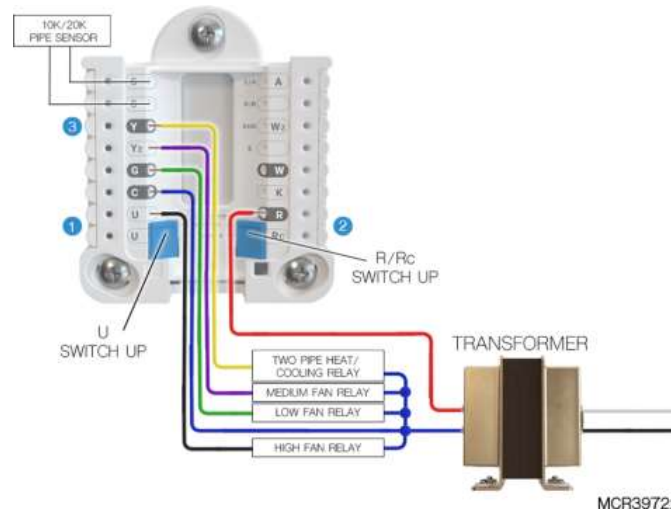


- 1 The high speed fan could alternately be wired to L/A on S1000, S1100 or S1200 models. Verify the wiring matches the ISU 2107. If wired to U, the U slider switch should be set to the up position as shown.
- 2 The R/Rc slider switch should be set to the up position as shown.
- 3 S terminals can be used for a wired indoor sensor or outdoor sensor. See the Remote setback wiring options if a sensor/switch was wired to S terminals on previous thermostat.

- 1 The high speed fan could alternately be wired to L/A on S1000, S1100 or S1200 models. Verify the wiring matches the ISU 2107. If wired to U, the U slider switch should be set to the up position as shown.
- 2 The R/Rc slider switch should be set to the up position as shown.
- 3 S terminals can be used for a wired 10K or 20K pipe sensor for heat/cool changeover.

Typical wiring of 2-pipe fan coil without reheat using wired 10K/20K Heat/Cool changeover pipe sensor

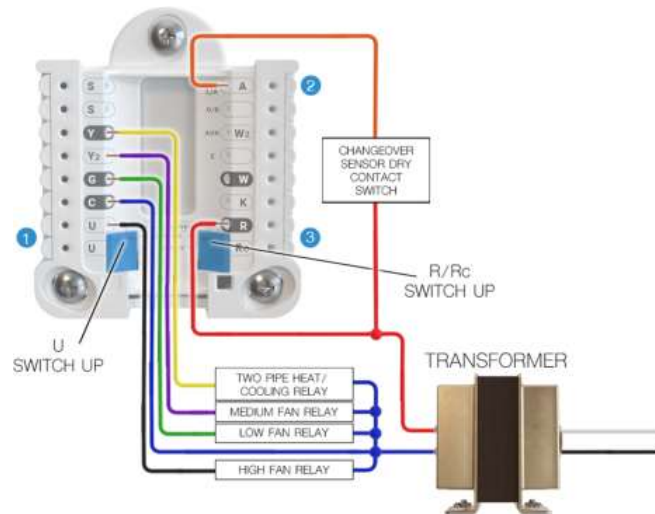
Typical wiring of 2-pipe fan coil with reheat using dry contact switch for Heat/Cool changeover sensor



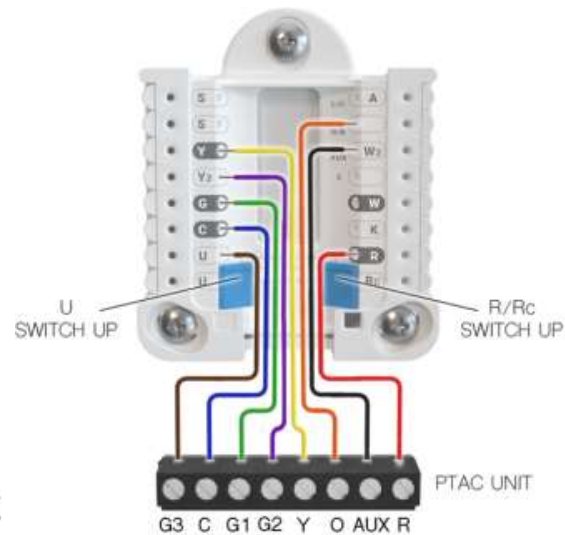
- 1 The high speed fan could alternately be wired to L/A on S1000, S1100 or S1200 models. Verify the wiring matches the ISU 2107. If wired to U, the U slider switch should be set to the up position as shown.
- 2 The R/Rc slider switch should be set to the up position as shown.
- 3 S terminals can be used for a wired 10K or 20K pipe sensor for heat/cool changeover.

- 1 Verify the wiring matches the ISU 2107. If wired to U, the U slider switch should be set to the up position as shown.
- 2 Wire the dry contact changeover switch to R at the fan coil unit and L as shown. ElitePRO™ Series Thermostats can be configured for the changeover switch to be normally open in cool or heat mode. See ISU settings 2054 & 2055.
- 3 The R/Rc slider switch should be set to the up position as shown.

Typical wiring of 2-pipe fan coil without reheat using dry contact switch for Heat/Cool changeover



PTAC with multiple fan speeds



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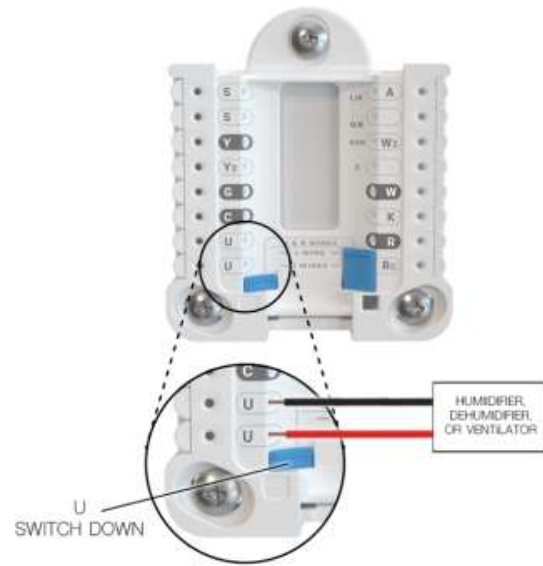
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- 1 Verify the wiring matches the ISU 2107. If wired to U, the U slider switch should be set to the up position as shown.
- 2 Wire the dry contact changeover switch to R at the fan coil unit and L as shown. ElitePRO™ Series Thermostats can be configured for the changeover switch to be normally open in cool or heat mode. See ISU settings 2054 & 2055.
- 3 The R/Rc slider switch should be set to the up position as shown.
- 1 Some PTAC units use B rather than O for reversing Valve.
- 2 Do not wire to W on UWP for PTAC systems. If the system has auxiliary heat this must wire to AUX. If the system does not have auxiliary heat the dotted line from this diagram is not used.
- 3 S terminals can be used for a wired sensor. L/A terminal can be used for remote setback. Other diagrams show this optional equipment.

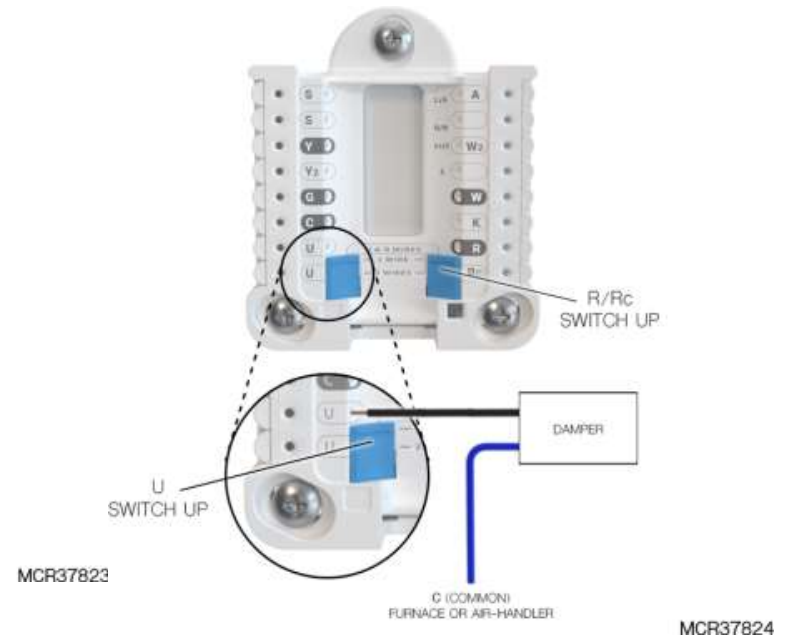
Whole house humidifier, dehumidifier, or ventilator wiring

Using U Terminals

Wired to humidifier, dehumidifier, or ventilator with built-in transformer

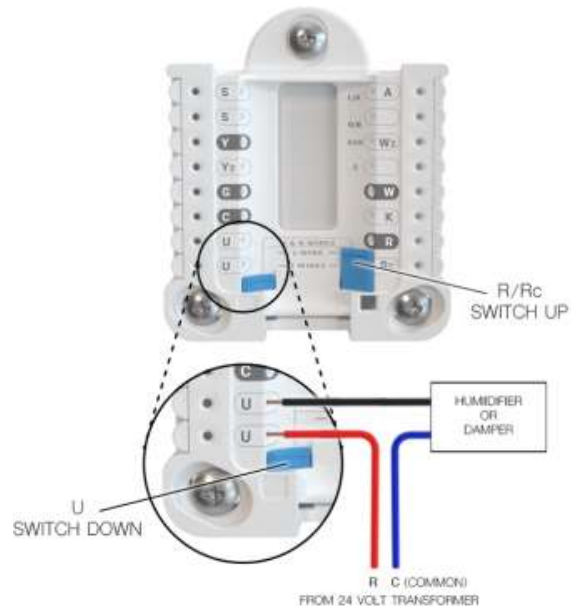


Wired to fresh air damper powered by furnace transformer

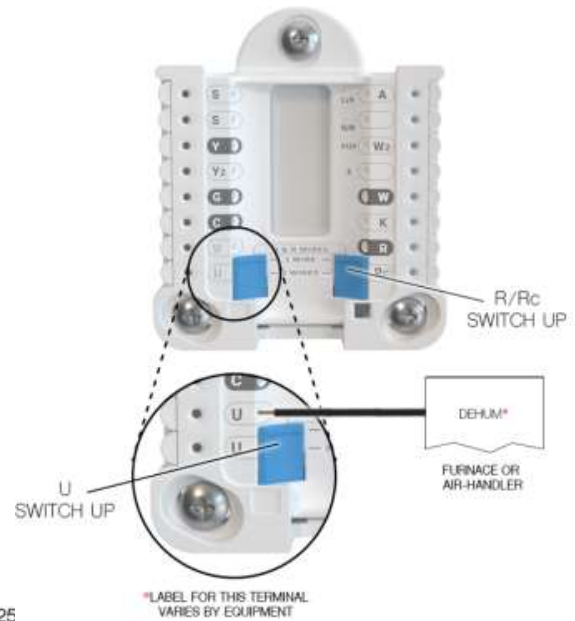


Wired to humidifier, ventilator or damper powered by external transformer

Wired to low speed fan terminal on HVAC for dehumidification



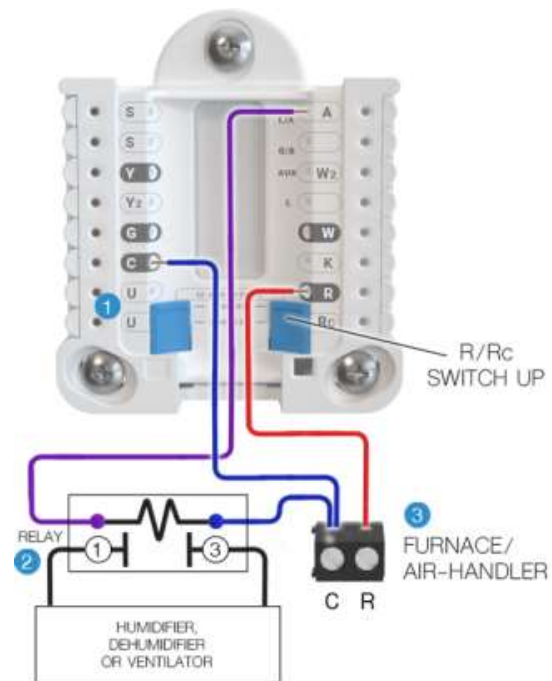
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Using the L terminal to control IAQ (S1000, S1100, & S1200 only)

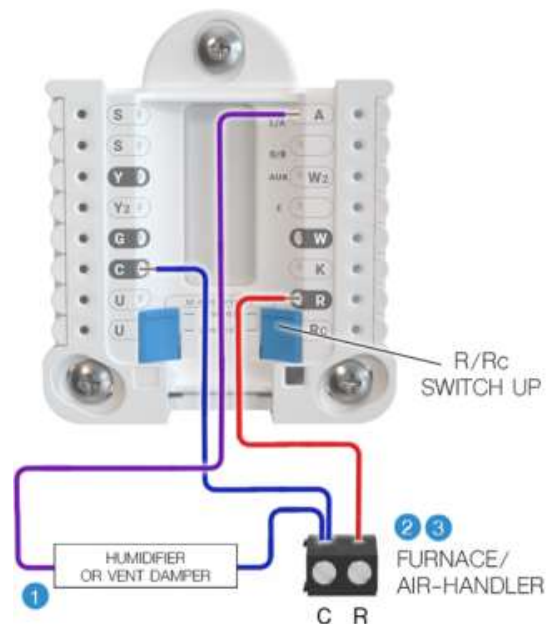
L/A Wired to humidifier, dehumidifier, or ventilator with built-in transformer



MCR39716

- 1 Verify ISU 10020 is set to use L for ventilation rather than U.
- 2 An R8222B or equivalent low-voltage-rated relay could be used.
- 3 Furnace/Air-handler wiring varies by system. See system wiring diagrams for system wiring.

L/A wired to humidifier or vent damper powered by furnace transformer transformer



MCR39717

- 1 Verify ISU 8030 (humidifier) or 10020 (ventilator) is set to use L/A rather than U. This wiring is only for a vent damper or a humidifier which does not have a built-in transformer.
- 2 Furnace/Air-handler wiring varies by system. See system wiring diagrams for system wiring.
- 3 Verify system transformer is sized to handle additional load of humidifier or vent damper.

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