

INSTALLATION INSTRUCTIONS

Model 8022

3 to 4 Wire Adapter

SAFETY INSTRUCTIONS

WARNING

ATTENTION INSTALLER: Read this manual before installing. Improper installation or maintenance may cause property damage or injury. It is recommended that installation, service, and maintenance be performed by a trained service technician. This product must be installed in compliance with all local, state, and federal codes.

APPLICATIONS

Where additional wiring cannot be run, the 3 to 4 Wire Adapter can be used to add a wire to the thermostat. The adapter is also used to fix a broken wire, or add a common wire to a 4-wire system (the green and yellow wires of the Diode 'Y' may not be connected to the R or C terminal of the thermostat).

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See **FIGURE 1**.

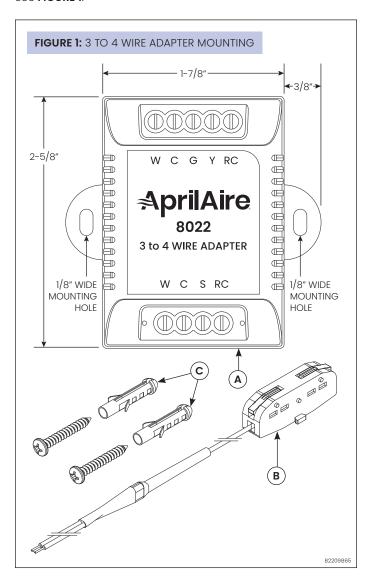
- A. 3 TO 4 WIRE ADAPTER (QTY I)
- B. DIODE 'Y' (QTY 1)
- C. SCREW AND ANCHOR (QTY 2)

INSTALLATION

STEP 1: LOCATION

The 3 to 4 Wire Adapter can be mounted inside the HVAC unit or inside the control box. The 3 to 4 Wire Adapter should not be installed in a location where the adapter or wiring may be exposed to the elements. The 3 to 4 Wire Adapter should be within 12" of thermostat connections to HVAC terminal block.

If required, mount the 3 to 4 Wire Adapter with 2 screws. See **FIGURE 1**.



STEP 2: WIRING REQUIREMENTS

The 3 to 4 Wire Adapter wiring has the following requirements:

- 1. All system wiring must be in compliance with all applicable local and national codes.
- All wiring should be color coded in conformance with standard recommendations.
- 3. All wiring should be 18 to 22-gauge, unshielded wire. The maximum distance between the adapter and the thermostat for 18-gauge wire is 100 feet. The maximum distance between the adapter and the thermostat for 22-gauge wire is 36 feet.

STEP 3: ADAPTER WIRING

WARNING

ELECTRIC SHOCK HAZARD: 120 volts may cause serious injury from electric shock. Disconnect electrical power to the HVAC system before starting installation or servicing. There may be more than one power disconnect. Leave power disconnected until installation/service is completed.

Depending on the application and the usage of the 3 to 4 Wire Adapter, wiring will vary. Refer to the wiring diagram, **FIGURE 2**.

- The **\$** terminal of the 3 to 4 Wire Adapter must always be connected to the **blue** wire of the Diode 'Y'.
- DO NOT connect the 3 to 4 Wire Adapter **S**, **G**, or **Y** terminals to the **R** and **C** terminals of the HVAC unit, damage may result.
- The Y terminal on the 3 to 4 Wire Adapter must be connected to Y on the HVAC unit to control cooling. The G terminal on the 3 to 4 Wire Adapter must be connected to G on the HVAC unit to control the fan.
- Do not connect the **green** and **yellow** wires of the Diode 'Y' to the **RC** or **C** terminal of the thermostat.

