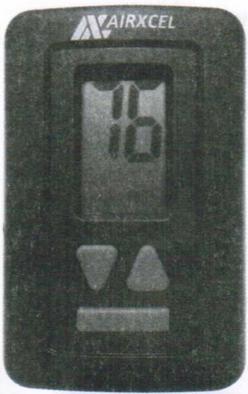


# INSTALLATION, OPERATION & APPLICATION GUIDE



## COOL ONLY

- 9430\*339\*
- 9430\*340\*

## HEAT/COOL

- 9430\*335\*
- 9430\*336\*
- 9430\*337\*
- 9430\*338\*



02-01-16

### Caution

This thermostat should be installed by trained technicians only. Adhere to all local and national codes and ordinances. Disconnect all power to the system before installing, removing, or cleaning.

### Application

The thermostat wiring is factory installed by the OEM (Original Equipment Manufacturer). RV Products suggests the thermostat wiring be a minimum of 18 gauge. The thermostat is intended for use with a 12 VDC control circuit that does not exceed 1 amp. The thermostat is equipped with a replaceable 2 amp fuse located on the base of the thermostat. The fuse is designed to "open" if the circuit is mis-wired or if there is a short in the system. Before replacing the fuse, the cause of the failure must be located and corrected.

### Operation

The display indicates the mode and the room temperature. When the mode button is pressed once, the thermostat will wake and, if your thermostat is equipped with a backlight, the backlight will illuminate. When the mode button is pressed again, the mode will change. Press the ▲ or ▼ button to wake the thermostat, the set temperature will display and the mode will flash. Press the ▲ or ▼ button again to change the set temperature. The thermostat will return to sleep mode after 5 seconds without a button pressed.

There is a three minute anti-short cycle for cooling. After the cooling system has been de-energized, the system will not energize again for three minutes; this is to protect your compressor. To bypass the anti-short cycle, change the mode to OFF.

**\*\* Note:** Operating your cooling system when the outdoor temperature is below 50°F can cause damage to your cooling equipment.

A remote sensor may be used with thermostat 9430\*335\*. When a remote sensor is installed, the thermostat will use only the remote sensor for displayed and operational temperatures.

| Mode          | Temperature  |             |
|---------------|--------------|-------------|
|               | °F           | °C          |
| Cooling (set) | 33°F to 99°F | 1°C to 37°C |
| Heating (set) | 33°F to 99°F | 1°C to 37°C |

## Installation



**ELECTRICAL SHOCK HAZARD** – Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the Off position before removing the existing thermostat.

### A. THERMOSTAT LOCATION

This thermostat is a sensitive instrument. For accurate temperature control and comfort, the following considerations should be taken into account:

1. Locate the thermostat on an inside wall about five feet above the floor. Pick a dry area where air circulation is good.
2. Do not install thermostat where there are unusual heating conditions, such as direct sunlight, near heat producing appliances (televisions, radio, wall lamp, etc.), or a furnace or air conditioner supply register.

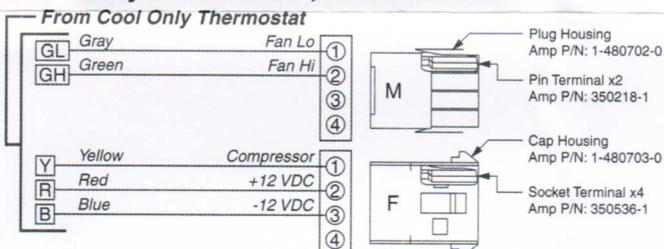
### B. INSTALLING THE THERMOSTAT

1. Place mounting screw template against the wall where thermostat will be mounted.
2. Using supplied screws, mount the template to the wall.
3. Remove plastic from between mounting screws.
4. Connect thermostat wiring to motorcoach wiring.
5. Place thermostat on mounting screws and gently push the thermostat down to lock the thermostat onto mounting screws.
6. Turn on power to the thermostat.

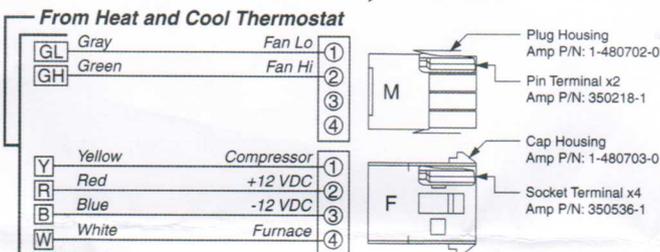


## Wiring Diagrams

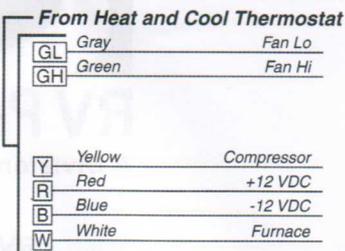
### Cool Only – 9430\*339\*, 9430\*340\*



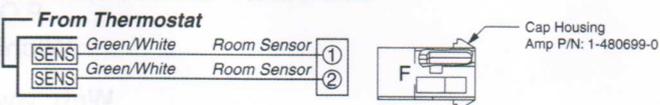
### Heat and Cool – 9430\*335\*, 9430\*336\*



### Heat and Cool – 9430\*337\*, 9430\*338\*



### Remote Sensor – 9430\*335\*



## Button Functions



**UP**

Used to wake thermostat and increase temperature.



**DOWN**

Used to wake thermostat and decrease temperature



**MODE**

Used to wake thermostat, change mode.

**\*\* Note:** Hold mode button down for five seconds to change from Fahrenheit to Celsius or Celsius to Fahrenheit. \*The backlight will turn off after 5 seconds.

\* For systems equipped with a backlight.

## Operation Chart

The chart below shows the system functions with both COOL ONLY and HEAT/COOL RVP thermostats. After the entire air conditioning and heating system is installed, check each position's function. The Cool Only thermostat will not have heat functions.

|    | Mode           | Call | Operation  |
|----|----------------|------|--|
| 1  | Fan Low        | No   | GL-Fan Low (Gray) energized                                    |
| 2  | Fan Hi         | No   | GH-Fan High (Green) energized                                  |
| 3  | Cool On High   | No   | GH-Fan High (Green) energized                                  |
| 4  | Cool On High   | Yes  | GH-Fan High (Green) energized, Y-Compressor (Yellow) energized |
| 5  | Cool On Low    | No   | GL-Fan Low (Gray) energized                                    |
| 6  | Cool On low    | Yes  | GL-Fan Low (Gray), Y-Compressor (Yellow) energized             |
| 7  | Cool Auto low  | No   | No function occurs   |
| 8  | Cool Auto low  | Yes  | GL-Fan Low (Gray) energized, Y-Compressor (Yellow) energized   |
| 9  | Cool Auto High | No   | No function occurs   |
| 8  | Cool Auto High | Yes  | GH-Fan High (Green), Y-Compressor (Yellow) energized           |
| 9  | Heat Gas       | No   | No function occurs   |
| 10 | Heat Gas       | Yes  | W-Furnace (White) energized                                    |



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