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You can read the recommendations in the user guide, the technical guide or the installation guide for WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261. You'll find the answers to all your questions on the WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261
User guide WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261
Operating instructions WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261
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Instruction manual WHITE-RODGERS HEAT PUMP THERMOSTAT 1F82-261

 WHITE-RODGERS	1F82-261 Programmable Electronic Digital Heat Pump Thermostat INSTALLATION AND OPERATION INSTRUCTIONS
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Operator: Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Your new White-Rodgers 5-Day/1-Day/1-Day Digital Thermostat uses the technology of a solid-state microcomputer to provide precise time/temperature control. This thermostat offers you the flexibility to design heating and cooling programs that fit your needs.

Features:

- Separate 5-day (weekdays) and 1-day/1-day (Saturday/Sunday) programming with four separate time/temperature periods per day
- Simultaneous heat and cool program storage
- Preprogrammed temperature control
- Optional battery back-up for AC power loss

- LCD continuously displays set point, and alternately displays time and room temperature
- Continuous Backlit display option
- Temperature override until next program period
- Manual program override (HOLD temperature)
- Temporary HOLD
- °F/°C convertibility
- Temperature range -45° to 90°F
- R, C, Y, W2, G, O/B, E, and L terminals for single or two-transformer systems

DESCRIPTION

PRECAUTIONS

This thermostat is intended for use with a low voltage NEC Class II system. Do not use this thermostat with a line-voltage system. If in doubt about whether your wiring is millivolt, line, or low voltage, have it inspected by a qualified heating and air conditioning contractor or electrician.

Do not exceed the specification ratings. All wiring must conform to local and national electrical codes and ordinances.

This control is a precision instrument, and should be handled carefully. Rough handling or distorting components could cause the control to malfunction.

CAUTION

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

WARNING

Do not use on circuits exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard.

Do not short out terminals on gas valve or primary control to test. Short or incorrect wiring will damage thermostat and could cause personal injury and/or property damage.

Thermostat installation and all components of the system shall conform to Class II (current limited) circuits per the NEC code. Failure to do so could cause a fire hazard.

SPECIFICATIONS

ELECTRICAL DATA

Electrical Rating:
20 to 30 VAC 50/60 Hz, or D.C.
0.05 to 1.0 Amps (Load per terminal)
1.5 Amps Maximum Total Load (All terminals combined)

THERMAL DATA

Setpoint Temperature Range:
40°F to 90°F (7°C to 32°C)
Operating Ambient Temperature Range:
32°F to 105°F
Operating Humidity Range:
0 to 95% RH (non-condensing)
Shipping Temperature Range:
-4°F to 149°F

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Replaces 37-8175C
0225

APPLICATIONS

For use with the following Class II systems:
• Standard heat pump systems with electric, gas or oil
• Aux heat with 24VAC Hot and Common available
• Single-stage heat pump systems with no Aux heat with 24VAC Hot and Common available

DO NOT USE WITH:

- Millivolt systems
- Systems exceeding 30 VAC and 1.5 amps
- 3-wire zoned hydronic heating systems



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Manual abstract:

However, this product may replace a unit which contains mercury. Do not open mercury cells. If a cell becomes damaged, do not touch any spilled mercury. Wearing nonabsorbent gloves, take up the spilled mercury and place into a container which can be sealed. If a cell becomes damaged, the unit should be discarded. Mercury must not be discarded in household trash. When the unit this product is replacing is to be discarded, place in a suitable container and return to White-Rodgers at 9797 Reavis Road, St. Louis, MO, 63123-5398 for proper disposal. Mounting hole Reset switch (below Fan switch) W904 Mounting Electric/Gas hole jumper Figure 1. Thermostat Base of AC power.

Installed batteries will also allow programming prior to installation. ENERGY MANAGEMENT RECOVERY (EMR) When the EMR feature is activated the thermostat's microcomputer calculates the time it will take to change the room temperature to the next heat or cool program setting. Then the thermostat will start the system before the next programmed period so that the desired temperature is reached at or near the beginning of the period (the thermostat calculates 15 minutes for every 1°F temperature change). This minimizes the use of auxiliary stages during the transition period to reduce energy costs. For example: The thermostat is programmed to provide an overnight heating temperature of 66°F, and during the next program period, beginning at 6:00 AM, the programmed temperature is 70°F.

With EMR activated, the thermostat will automatically start the heating system at 5:00 AM, so that the programmed temperature of 70°F is reached by about 6:00 AM. If the overnight room temperature drops only to 68°F, the thermostat will start the system at 5:30 to reach the programmed temperature of 70°F at 6:00. The thermostat is shipped with the EMR feature active, which means that the thermostat will start the heating system before the beginning of the next program period. This feature provides better efficiency by allowing gradual temperature changes using only the first stage of heat. To deactivate the EMR function, see the Configuration menu on Page 5).

The thermostat will then wait until the programmed time to start the system for a temperature change. ATTACH THERMOSTAT BASE TO WALL 1. Remove the packing material from the thermostat. Gently pull the cover straight off the base. Forcing or prying on the thermostat will cause damage to the unit. 2. Connect wires beneath terminal screws on base using appropriate wiring schematic (see figs. 2 through 4). 3. Place base over hole in wall and mark mounting hole locations on wall using base as a template.

4. Move base out of the way. Drill mounting holes. 5. Fasten base loosely to wall, as shown in fig. 1, using two mounting screws. Place a level against bottom of base, adjust until level, and then tighten screws. (Leveling is for appearance only and will not affect thermostat operation.) If you are using existing mounting holes, or if holes drilled are too large and do not allow you to tighten base snugly, use plastic screw anchors to secure subbase. 6. Push excess wire into wall and plug hole with a fire-resistant material (such as fiberglass insulation) to prevent drafts from affecting thermostat operation. ELECTRIC/GAS JUMPER (Fan Option) Read the following information before clipping the nonelectric heat jumper. If you are unsure of your application, contact a qualified service person. If your emergency or auxiliary system will energize the blower, then jumper, W904, on the thermostat base must be cut (see fig. 1).

If your emergency or auxiliary heat system requires that the thermostat energize the fan circuit, do not cut jumper W904. O/B TERMINAL SWITCH SELECTION The O/B switch on this thermostat is factory set to the "O" position. This will accommodate the majority of heat pump applications, which require the changeover relay to be energized in COOL. If the thermostat you are replacing or the heat pump being installed with this thermostat requires a "B" terminal, to energize the changeover relay in HEAT, the O/B switch must be moved to the "B" position..



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