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Rheem EcoNet Control Center (RETST800SYS) User Manual

Model: RETST800SYS

INTRODUCTION

The Rheem EcoNet Control Center, model RETST800SYS, is an advanced smart thermostat designed to provide precise control over your home's heating, ventilation, and air conditioning (HVAC) system. This device integrates seamlessly with other EcoNet enabled products and offers smart features like remote control, programmable scheduling, and voice command compatibility to enhance comfort and energy efficiency.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your EcoNet Control Center. It is recommended that installation be performed by a qualified HVAC professional.

Pre-Installation Checklist:

- Ensure power to your HVAC system is turned off at the circuit breaker before beginning.
- Verify your system has a C-wire (common wire) for continuous power. This thermostat requires a C-wire.
- Gather necessary tools: screwdriver, drill, wire strippers, level.

Mounting the Thermostat:

1. Carefully remove your old thermostat from the wall.
2. Mount the new backplate (included) to the wall using the provided screws and anchors. Use a level to ensure it is straight.
3. Connect the HVAC wires to the corresponding terminals on the backplate. Refer to your system's wiring diagram for specific connections.
4. Attach the EcoNet Control Center display unit to the mounted backplate.



Figure 1: Rear view of the EcoNet Control Center showing the mounting plate and wiring terminals (R, C, S1, S2, E1, E2).



Figure 2: The EcoNet Control Center unit displayed alongside its mounting screws and wall anchors.

Initial Configuration and Wi-Fi Connection:

Once powered on, the thermostat will guide you through the initial setup process, including connecting to your home Wi-Fi network. This connection is essential for remote control and smart features.

Your browser does not support the video tag.

Video 1: An overview of the Rheem EcoNet 800 Series Smart Thermostat, showcasing its design and components. This video provides a visual guide to the product's physical appearance and included items.

OPERATING INSTRUCTIONS

The EcoNet Control Center offers a user-friendly interface for managing your home's climate.

Main Screen and Temperature Adjustment:

The main screen displays the current indoor temperature and the set temperature. Use the + and - buttons on the touchscreen to adjust the desired temperature.



Figure 3: The main display of the EcoNet Control Center, showing the current indoor temperature (74°F) and the target cooling temperature (72°F), along with icons for Wi-Fi, humidity, and outdoor temperature.

Operating Modes:

Select from the following operating modes to suit your comfort needs:

- **Heat:** Heats your home to the set temperature.
- **Cool:** Cools your home to the set temperature.
- **Auto:** Automatically switches between heating and cooling to maintain the set temperature range.
- **Emergency Heat:** For heat pump systems, activates auxiliary heat when primary heat is insufficient or unavailable.
- **Fan Only:** Circulates air without heating or cooling. Offers 5 speeds (Low, Medium Low, Medium, Medium High,

High).

Advanced Features:

- **7-Day Programmable Schedule:** Create custom heating and cooling schedules for each day of the week to optimize comfort and energy savings.
- **One-Touch Away:** Quickly activate energy-saving settings when you leave your home.
- **Vacation Scheduling:** Program specific temperature settings for extended periods away, ensuring savings while you're gone and comfort upon return.
- **Humidity Control:** Supports humidifier accessories or uses over-cool based dehumidification to manage indoor humidity levels.
- **Remote Control:** Adjust settings and monitor your system from anywhere using the EcoNet mobile application on your smartphone or tablet.
- **Amazon Alexa Compatibility:** Control your HVAC system using voice commands with Amazon Echo or Echo Dot devices.
- **Local Weather:** Displays current outdoor conditions and a 6-day forecast directly on the thermostat screen.
- **Motion Sensor:** Automatically wakes the screen when you approach, providing quick access to controls.
- **Standby Screen:** Displays essential information like indoor temperature and current weather when not actively in use.
- **Automatic Changeover:** Seamlessly transitions between heating and cooling modes to maintain desired comfort levels.
- **Integrated Water Control:** Enables convenient management of compatible water heaters.
- **Smooth Arrival:** Pre-starts your system to ensure your home reaches the desired temperature by your scheduled return time.



Figure 4: The EcoNet Control Center display showing the "Away" mode, indicating energy-saving settings are active. It displays the current indoor temperature and the set temperature range for away periods.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your EcoNet Control Center and connected HVAC system.

- **Air Filter Monitoring:** The thermostat detects when it's time to replace your HVAC system's air filter and will provide an alert. Replace filters promptly to maintain air quality and system efficiency.
- **Service Alerts:** The system sends routine maintenance reminders for your HVAC equipment, helping you stay on top of necessary service.
- **Cleaning:** Gently wipe the touchscreen and exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents.

TROUBLESHOOTING

If you encounter issues with your EcoNet Control Center, refer to the following common troubleshooting steps:

- **No Power/Blank Screen:**
 - Check the circuit breaker for your HVAC system to ensure power is on.
 - Verify the C-wire connection at the thermostat and the HVAC system.
- **Incorrect Temperature Readings:**
 - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its sensor.
 - Confirm the thermostat is mounted securely and correctly.
- **Wi-Fi Connectivity Issues:**
 - Ensure your home Wi-Fi network is active and broadcasting.
 - Restart your Wi-Fi router.
 - Re-attempt the Wi-Fi connection process on the thermostat.
- **System Not Responding to Commands:**
 - Check the operating mode selected on the thermostat.
 - Verify that the HVAC system itself is functioning correctly.
 - The thermostat features **Short-Cycle Protection** to prevent damage to equipment from frequent on/off cycles. Wait a few minutes if the system recently turned off.
- **Alarm History and Active Monitoring:** The thermostat provides **Detailed Operating Status** and **Alarm History**, displaying time-stamped alarm codes with clear descriptions. **Active Monitoring** alerts you to problems that need immediate attention. Consult these features on the thermostat screen for diagnostic information.

For persistent issues, contact Rheem customer support or a qualified HVAC technician.

SPECIFICATIONS

Feature	Detail
Brand	Rheem
Model Name	Thermostat

Model Number	RETST700SYS (Note: Product listing shows RETST800SYS, but specifications list RETST700SYS. Please verify with manufacturer.)
Controller Type	Amazon Echo, Amazon Alexa
Special Features	Amazon Alexa Compatibility, 7-Day Programmable Schedule, One-Touch Away, Vacation Scheduling, Remote Control
Color	Black
Temperature Control Type	Digital, Smart/Remote
Connectivity Technology	Wi-Fi
Included Components	Thermostat
Power Source	Hardwire (24 Volts AC)
Display Type	LED Touch Screen
Control Method	App, Touch, Voice
Mounting Type	Wall Mount
Product Dimensions	5 x 4 x 2 inches
Item Weight	6.4 ounces
UPC	662766719482

WARRANTY INFORMATION

Rheem products typically come with a limited warranty. For specific warranty terms and conditions applicable to your EcoNet Control Center (RETST800SYS), please refer to the warranty card included with your product or visit the official Rheem website. Retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or to inquire about service, please contact Rheem customer support. You can typically find contact information on the Rheem official website or within the product packaging. It is recommended to have your product model number (RETST800SYS) and serial number ready when contacting support.

