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› [Rheem / Ruud 3 Ton 16 SEER Air Conditioning System \(AC only\) RA1636AJ1NA - RH1T3617STANJA User Manual](#)

Rheem RA1636AJ1NA - RH1T3617STANJA

Rheem / Ruud 3 Ton 16 SEER Air Conditioning System User Manual

Model: RA1636AJ1NA - RH1T3617STANJA

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Rheem / Ruud 3 Ton 16 SEER Air Conditioning System. Please read this manual thoroughly before installation or operation and retain it for future reference. This system is designed to provide reliable cooling for your home or business.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation and operating instructions thoroughly before installing or servicing this equipment.

- Always disconnect power to the unit before performing any service or maintenance.
- Installation and service must be performed by a qualified installer or service agency.
- Ensure all electrical connections comply with local codes and ordinances.
- Do not operate the unit with damaged components.
- Keep children and pets away from the outdoor unit.

3. SETUP AND INSTALLATION

The Rheem / Ruud 3 Ton 16 SEER Air Conditioning System is a split-system unit, requiring both an outdoor condenser and an indoor air handler/furnace coil. Due to the complexity and safety requirements, **professional installation by a certified HVAC technician is mandatory**. This includes proper refrigerant handling, electrical wiring, and ductwork connections.

Key installation considerations:

- **Location:** Ensure adequate clearance around the outdoor unit for proper airflow and service access.

The indoor unit should be installed in a suitable utility space.

- **Electrical:** Proper sizing of electrical circuits and wiring is crucial. Refer to the unit's nameplate for specific electrical requirements.
- **Refrigerant Lines:** Correct sizing and installation of refrigerant lines are essential for system efficiency and longevity.
- **Drainage:** Ensure proper condensate drainage from the indoor coil to prevent water damage.



Figure 1: The Rheem / Ruud 3 Ton 16 SEER Air Conditioning System, showing both the outdoor condenser unit (left) and the indoor air handler/furnace coil (right). The outdoor unit features a gray casing with a fan grille on top and louvered sides, while the indoor unit is a tall, gray rectangular cabinet.

4. OPERATING INSTRUCTIONS

Your air conditioning system is controlled by a thermostat, which should be installed in a central location away from direct sunlight or heat sources. Familiarize yourself with your specific thermostat's operation.

4.1 Basic Operation

1. **Power On:** Ensure the system's power disconnect switch (usually near the outdoor unit and indoor unit) is in the "ON" position.
2. **Thermostat Settings:**
 - Set the system mode to "COOL".
 - Adjust the temperature setting to your desired cooling level.
 - Set the fan mode to "AUTO" for energy efficiency, or "ON" for continuous fan operation.
3. **Initial Startup:** Allow a few minutes for the system to respond to thermostat changes. It is normal for the outdoor unit to cycle on and off as it maintains the set temperature.

4.2 Energy Saving Tips

- Set your thermostat to the highest comfortable temperature during cooling season.
- Use programmable thermostats to adjust temperatures when you are away or asleep.
- Keep windows and doors closed when the AC is running.
- Ensure proper insulation in your home.

- Keep outdoor unit clear of debris and obstructions.

5. MAINTENANCE

Regular maintenance is crucial for the efficiency and longevity of your air conditioning system. Some tasks can be performed by the homeowner, while others require a qualified technician.

5.1 Homeowner Maintenance (Monthly/Quarterly)

- **Air Filter Replacement:** Check and replace or clean the air filter in your indoor unit monthly, or as recommended by the filter manufacturer. A dirty filter restricts airflow and reduces efficiency.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor condenser unit free of leaves, grass clippings, and other debris. Ensure at least 2 feet of clearance on all sides. Gently rinse the outdoor coil with a garden hose to remove dirt buildup.
- **Condensate Drain:** Periodically check the condensate drain line for blockages. A clogged drain can cause water overflow.

5.2 Professional Maintenance (Annually)

Schedule an annual inspection and tune-up by a qualified HVAC technician. This typically includes:

- Checking refrigerant levels and pressure.
- Cleaning evaporator and condenser coils.
- Inspecting electrical connections and components.
- Lubricating moving parts (if applicable).
- Checking thermostat calibration.
- Inspecting ductwork for leaks.

6. TROUBLESHOOTING

Before calling for service, review the following common issues and solutions:

Problem	Possible Cause	Solution
System not cooling	Thermostat set incorrectly, dirty air filter, tripped circuit breaker, outdoor unit obstructed.	Check thermostat settings, replace/clean filter, reset breaker, clear obstructions. If problem persists, contact service.
No airflow	Blower motor off, dirty air filter, blocked vents.	Check thermostat fan setting, replace/clean filter, ensure vents are open.
Unit making unusual noises	Loose parts, debris in fan, motor issues.	Turn off unit and inspect for visible debris. If noise continues, contact service.
Water leaking from indoor unit	Clogged condensate drain line, frozen evaporator coil.	Clear drain line. If coil is frozen, turn off AC and allow to thaw, then check airflow. Contact service if issue persists.

For issues not listed here or if solutions do not resolve the problem, contact a qualified HVAC service technician.

7. SPECIFICATIONS

The following specifications apply to the Rheem / Ruud 3 Ton 16 SEER Air Conditioning System (Model: RA1636AJ1NA - RH1T3617STANJA):

- **Brand:** Rheem
- **Model Info:** RA1636AJ1NA - RH1T3617STANJA
- **Capacity:** 3 Tons (36,000 British Thermal Units)
- **Seasonal Energy Efficiency Ratio (SEER):** 16
- **Installation Type:** Split System
- **Refrigerant:** R 410A
- **Filter Type:** Pre-Filter
- **Color:** Gray
- **Special Features:** Heating, Compact (Note: While "Heating" is listed in special features, this model is specified as "AC only" in the product title, indicating its primary function is cooling.)
- **Item Weight:** Approximately 0.01 ounces (Note: This weight is likely a placeholder or incorrect for the entire system; actual shipping weight will be significantly higher).
- **Wattage:** 10548.56 watts (Cooling Power)

8. WARRANTY AND SUPPORT

Your Rheem / Ruud Air Conditioning System is covered by a manufacturer's warranty. Specific warranty terms and conditions, including duration and coverage details, are provided with your product documentation at the time of purchase and installation. Please retain your proof of purchase and installation records.

For warranty claims, technical support, or to locate a qualified service provider, please contact your installing dealer or visit the official Rheem website. Do not attempt to repair the unit yourself, as this may void your warranty and pose safety risks.

For more information, visit the [Rheem Store on Amazon](#).