

EcoTemp WJA430000KTP0B

EcoTemp 2.5 Ton 14 SEER AC Package Unit WJA430000KTP0B Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your EcoTemp 2.5 Ton 14 SEER AC Package Unit, model WJA430000KTP0B. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

Product Overview

The EcoTemp WJA430000KTP0B is a compact, self-contained electric cooling unit designed for manufactured housing, residential, and light commercial applications. It features horizontal supply and return ducts and is built for durability and ease of service.

Key Features:

- 2.5 Ton cooling capacity
- 14 SEER (Seasonal Energy Efficiency Ratio)
- Environmentally balanced R-410A refrigerant
- Liquid refrigerant filter driers
- Copper tube/aluminum fin condenser and tin-coated copper evaporator coils
- Lightweight, compact construction
- No-rust base pan with integrated drain pan
- Durable pre-painted steel cabinet with louvered coil enclosure
- Direct-drive multi-speed blower motor

2. SAFETY INFORMATION

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

- **Professional Installation Required:** This equipment must be installed by a certified HVAC technician. Attempting self-installation can void warranties and lead to hazardous conditions.
- **Electrical Hazard:** Ensure the main power supply to the unit is disconnected before performing any service or maintenance. Failure to do so can result in electric shock.

- **Refrigerant Handling:** This unit contains R-410A refrigerant. Only qualified personnel should handle refrigerants.
- **Sharp Edges:** Exercise caution when working near the unit as some components may have sharp edges.
- **Unit Weight:** The unit is heavy. Use appropriate lifting techniques and equipment during installation to prevent injury.

3. INSTALLATION

Installation of the EcoTemp AC Package Unit requires specialized knowledge and tools. It is strongly recommended that a certified HVAC installer perform all installation procedures to ensure proper function, safety, and warranty compliance.

Pre-Installation Considerations:

- **Site Selection:** Choose a level, stable surface capable of supporting the unit's weight. Ensure adequate clearance for airflow and service access.
- **Electrical Supply:** Verify that the electrical supply meets the unit's requirements (Single Phase, 208/230 V, 60 Hz).
- **Ductwork:** Connect the unit to appropriate supply and return ductwork. The unit is designed for horizontal duct connections.
- **Drainage:** Ensure proper condensate drainage from the integrated drain pan.

Included Accessories:

This system typically includes a thermostat, square to round adapters, and an electric heater (up to 10 kW without breaker). If a specific heater size is not requested at the time of order, a 5 kW heat strip will be shipped by default.



Image: The EcoTemp 2.5 Ton 14 SEER AC Package Unit, showing its gray cabinet, louvered sides for airflow, and the top-mounted fan. The EcoTemp logo is visible on the side panel.

4. OPERATION

Once installed by a qualified technician, your EcoTemp AC Package Unit is designed for straightforward operation via a compatible thermostat.

Basic Operation Steps:

1. **Power On:** Ensure the main power disconnect switch for the unit is in the 'ON' position.
2. **Thermostat Settings:** Set your thermostat to 'COOL' mode.
3. **Temperature Adjustment:** Adjust the desired temperature setting on your thermostat. The unit will activate to cool your space to the set temperature.
4. **Fan Settings:** Select 'AUTO' for the fan to run only when cooling, or 'ON' for continuous fan operation.
5. **Heating (if applicable):** If an electric heater is installed, set the thermostat to 'HEAT' mode and adjust the desired temperature.

For detailed programming and advanced features, refer to your specific thermostat's instruction manual.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient performance of your EcoTemp AC Package Unit. It is recommended to have the unit inspected and serviced by a qualified HVAC technician annually.

User Maintenance Tasks:

- **Air Filter Replacement:** Check and replace or clean the air filter monthly, or more frequently if the unit is in constant use or in dusty environments. A dirty filter restricts airflow and reduces efficiency.
- **Clear Debris:** Keep the area around the outdoor unit clear of leaves, grass clippings, and other debris to ensure proper airflow to the condenser coil.

Professional Maintenance Tasks (Annual):

- **Coil Cleaning:** Clean the evaporator and condenser coils.
- **Refrigerant Level Check:** Verify proper refrigerant charge.
- **Electrical Connections:** Inspect and tighten all electrical connections.
- **Blower Motor Inspection:** Check the blower motor and fan for proper operation.
- **Drain Pan and Line:** Clean the condensate drain pan and ensure the drain line is clear.

6. TROUBLESHOOTING

Before contacting a service technician, review the following common issues and potential solutions. For complex problems, always consult a qualified HVAC professional.

Common Issues:

- **Unit Not Turning On:**
 - Check if the thermostat is set to 'COOL' or 'HEAT' and the desired temperature.
 - Verify the main power disconnect switch is 'ON'.
 - Check for tripped circuit breakers at your electrical panel.
- **Insufficient Cooling/Heating:**

- Ensure the air filter is clean and not obstructed.
- Check that outdoor unit coils are free of debris.
- Verify all supply and return vents are open and unobstructed.
- Ensure windows and doors are closed.

- **Unusual Noises:**

- Minor operational sounds are normal.
- Loud or unusual noises (e.g., grinding, squealing) may indicate a mechanical issue requiring professional service.

- **Water Leaking:**

- Check if the condensate drain line is clogged.
- Ensure the unit is level.

7. SPECIFICATIONS

Specification	Value
Brand	EcoTemp
Model Number	WJA430000KTP0B
Manufacturer	ICP
Capacity	2.5 Tons
Seasonal Energy Efficiency Ratio (SEER)	14
Voltage	208/230 Volts (AC)
Power Source	AC 240 VOLT
Form Factor	Packaged Unit
Special Feature	Light Weight, Compact
BEE Star Rating	5 Star

8. WARRANTY INFORMATION

Your EcoTemp AC Package Unit comes with the following limited warranty:

- **1-year unit replacement limited warranty.**
- **10-year parts limited warranty** (including compressor and coil) if registered within 90 days of original installation.
- **5-year parts limited warranty** if not registered within 90 days of original installation.

Please refer to the warranty certificate provided with your unit for complete details, terms, conditions, and restrictions. Timely registration is essential to receive the full 10-year parts warranty.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or to locate a certified service provider, please contact your authorized EcoTemp dealer or the seller from whom you purchased the unit. When contacting support, please have your model

number (WJA430000KTP0B) and serial number readily available.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question