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› EcoTemp 3.5 Ton 14.5 SEER Heat Pump Package Unit WJH442000KTP0A User Manual

EcoTemp WJH442000KTP0A

EcoTemp 3.5 Ton 14.5 SEER Heat Pump Package Unit

MODEL: WJH442000KTP0A

User Manual

1. Product Overview

The EcoTemp 3.5 Ton 14.5 SEER Heat Pump Package Unit (Model WJH442000KTP0A) is a versatile and efficient HVAC solution designed for manufactured housing, residential, and light commercial applications. This fully self-contained unit provides both electric cooling and heating, utilizing an environmentally sound R-410A refrigerant circuit. Its compact design and horizontal supply and return ducts make it suitable for various installation scenarios.



Image showing the exterior of the EcoTemp 3.5 Ton 14.5 SEER Heat Pump Package Unit, designed for outdoor installation.

Key features include copper tube/aluminum fin condenser and evaporator coils, easy panel accessibility for maintenance, and accessory electric heaters with single point connections. The unit is engineered for durability with a pre-painted steel cabinet, louvered coil enclosure for protection, and a no-rust base pan with an integrated drain pan. Vibration isolation ensures quiet operation, and compressors are equipped with internal overcurrent protection. A direct-drive multi-speed blower motor is standard on all models.

2. Understanding Your HVAC System

This video provides an overview of different HVAC system types, including packaged units and split systems, to help you understand the configuration of your EcoTemp unit.

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Video explaining the differences between split systems and packaged units, and various configurations for HVAC systems.

3. Installation

WARNING: It is strongly recommended that a certified HVAC installer install this equipment. Improper installation can lead to equipment damage, personal injury, or voiding of warranty.

- **Placement:** This packaged unit is designed for outdoor installation, typically on the ground, on a roof, or on a pad outside the building.
- **Ductwork:** The unit features horizontal supply and return ducts. Ensure proper connection to the building's ductwork system.
- **Electrical Connections:** The unit operates on single-phase, 208/230 V, 60 Hz power. All electrical connections must comply with local and national electrical codes.
- **Refrigerant Circuit:** The unit comes pre-charged with R-410A refrigerant. Any adjustments or additions to the refrigerant circuit should only be performed by a certified technician.
- **Heater Installation:** If an accessory electric heater is required, ensure it is correctly installed with single point connections. Contact your seller (FLHvac Warehouse) to specify the desired heater size (e.g., 5kw, 10kw) if not already included.
- **Clearances:** Maintain adequate clearances around the unit for proper airflow and service access. Refer to the detailed installation guide provided with the unit for specific clearance requirements.

4. Operation

Once installed by a qualified technician, your EcoTemp heat pump package unit is designed for user-friendly operation via a compatible thermostat.

- **Thermostat Control:** Use your thermostat to set desired temperatures and select operating modes (e.g., Cool, Heat, Auto, Fan On/Auto).
- **Cooling Mode:** In cooling mode, the unit extracts heat from your indoor air and expels it outdoors, providing comfortable indoor temperatures.
- **Heating Mode:** In heating mode, the heat pump extracts heat from the outdoor air and transfers it indoors. For colder temperatures, the accessory electric heater will supplement the heat pump to maintain the desired indoor temperature.
- **Fan Operation:** The fan can be set to 'Auto' to run only when heating or cooling is active, or 'On' for continuous air circulation.
- **Energy Efficiency:** To maximize energy efficiency, avoid frequent thermostat adjustments. Set a comfortable temperature and allow the system to maintain it.

5. Maintenance

Regular maintenance is crucial for the efficient and long-lasting performance of your EcoTemp heat pump. Some tasks can be performed by the homeowner, while others require a professional HVAC technician.

- **Air Filter Replacement:** Check and replace the air filter monthly, or more frequently if the unit is in constant use or in dusty environments. A clean filter ensures optimal airflow and system efficiency.
- **Coil Cleaning:** Keep the outdoor condenser coils clean and free of debris (leaves, dirt, grass clippings). Blocked coils reduce efficiency. Gently rinse with a garden hose as needed.
- **Clearance Around Unit:** Ensure that vegetation and other obstructions are kept clear from around the outdoor unit to allow for proper airflow.
- **Drain Pan:** Periodically check the integrated drain pan for blockages and ensure it drains properly.

- **Professional Inspection:** Schedule annual professional maintenance with a certified HVAC technician. They can inspect electrical components, refrigerant levels, motor operation, and overall system performance.

6. Troubleshooting

Before calling for service, consider these common troubleshooting steps:

- **No Power:** Check the circuit breaker at your electrical panel. Ensure the unit's disconnect switch is in the 'ON' position.
- **Unit Not Heating/Cooling:** Verify the thermostat is set to the correct mode (Heat/Cool) and desired temperature. Check if the air filter is clean.
- **Reduced Airflow:** A dirty air filter is a common cause. Check and replace if necessary. Ensure no vents are blocked.
- **Unusual Noises:** Minor noises are normal during operation. However, if you hear loud grinding, squealing, or banging, turn off the unit and contact a professional.
- **Water Leaks:** Check the drain pan and condensate line for blockages. Clear any obstructions carefully.

If these steps do not resolve the issue, contact a qualified HVAC technician for diagnosis and repair.

7. Specifications

Specification	Detail
Model Number	WJH442000KTP0A
Tonnage	3.5 Ton
SEER Rating	14.5 SEER
Refrigerant Type	R-410A
Phase	Single Phase
Voltage	208/230 V
Frequency	60 Hz
Manufacturer	ICP
Application	Manufactured Housing, Residential, Light Commercial
Duct Configuration	Horizontal Supply and Return
Coil Type	Copper tube/aluminum fin (Optional tin-coated copper evaporator coil available on 'TP' models)

8. Warranty and Support

Your EcoTemp Heat Pump Package Unit comes with a limited warranty to ensure your peace of mind:

- **1-Year Unit Replacement Limited Warranty:** Covers the entire unit for replacement in case of defects.
- **10-Year Parts Limited Warranty:** Includes compressor and coil, applicable with timely registration of the product.

- **5-Year Parts Limited Warranty:** Applies if the product is not registered within 90 days of original installation.

**Please refer to the official warranty certificate included with your product for complete details, terms, and restrictions.*

For technical support, service inquiries, or to register your product, please contact your authorized EcoTemp dealer or the seller (FLHvac Warehouse).

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