

Klimaïre KSIE024-H220-IW-2 + KSIE024-H220-O-2

Klimaïre KSIE Series Ductless Mini Split Inverter A/C Instruction Manual

Model: KSIE024-H220-IW-2 + KSIE024-H220-O-2

1. INTRODUCTION AND OVERVIEW

The Klimaïre KSIE Series ductless mini-split air conditioner and heat pump system is designed to provide efficient and reliable year-round comfort. This system incorporates DC inverter variable speed technology to maintain consistent temperatures and achieve high energy efficiency ratings, up to 21 SEER2.

Key features include:

- **Exceptional Efficiency:** Up to 21 SEER2, 9 HSPF2, and 12.5 EER2.
- **Cooling and Heating Capacity:** 24,000 BTU cooling and 26,000 BTU heating, suitable for areas up to 1,500 sq. ft.
- **Advanced Performance:** Low ambient heating and cooling down to 5°F, dry mode for dehumidification, turbo operation, sleep mode, auto restart, and Follow-Me function.
- **Whisper-Quiet Operation:** Indoor unit operates as low as 35 dB(A).
- **Built-in Safeguards:** Self-diagnostics, refrigerant leak detection, and auto defrost.
- **Enhanced Durability:** Built-in base pan and compressor heater, anti-corrosive golden Fin technology.

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.

- **Electrical Safety:** Ensure the unit is connected to a dedicated 230V circuit with proper grounding. All electrical work must be performed by a qualified electrician in accordance with local and national electrical codes.
- **Refrigerant Handling:** This unit contains R410A refrigerant. Only qualified HVAC technicians should handle refrigerant. Improper handling can lead to leaks, environmental damage, or personal injury.
- **Installation:** The outdoor unit is pre-charged with refrigerant for up to 25 feet of tubing. However, the line set connecting the indoor and outdoor units must be properly evacuated (vacuumed) and sealed by a certified technician to prevent leaks and ensure optimal performance.
- **Clearances:** Maintain adequate clearances around both indoor and outdoor units for proper airflow and maintenance.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

3. PRODUCT COMPONENTS (WHAT'S INCLUDED)

Your Klimaire KSIE Series mini-split system package includes the following main components and accessories:

- **Indoor Fan Coil Unit:** KSIE 24,000 BTU 230V Indoor Unit.
- **Outdoor Condenser Unit:** KSIE Smart DC Inverter Outdoor Condenser, pre-charged with R410A Refrigerant.
- **Remote Control:** Wireless remote for convenient operation, includes a wall bracket.
- **Installation Kit:** 15-foot Maxwell Refrigerant Line Installation Kit (3/8 x 5/8 inches) with interconnecting wire cables.
- **Mounting Hardware:** Maxwell Wall Mounting Bracket for the outdoor unit.
- **Electrical Components:** Disconnect Box and Electric Whip.
- **Documentation:** User manuals and installation guides.



Image 1: Overview of Klimaire mini-split system components, including indoor unit, outdoor unit, remote, line set, and electrical accessories.

4. SETUP AND INSTALLATION

While the Klimate KSIE Series is designed for user-friendly installation with its quick-hook design, certain steps, particularly those involving refrigerant lines and electrical connections, require professional expertise to ensure safety, efficiency, and warranty compliance.

4.1. Indoor Unit Placement

- Select a location on an interior wall that allows for optimal airflow distribution throughout the room.
- Ensure there is sufficient space around the unit for maintenance and air circulation.
- Consider the drainage path for condensate water.



Image 2: The sleek white indoor unit of the Klimate mini-split system, designed for wall mounting.

4.2. Outdoor Unit Placement

- Choose a stable, level surface outdoors, away from direct sunlight or excessive debris.
- Ensure adequate clearance for airflow around the condenser coil.
- The included wall mounting bracket can be used for elevated installation.

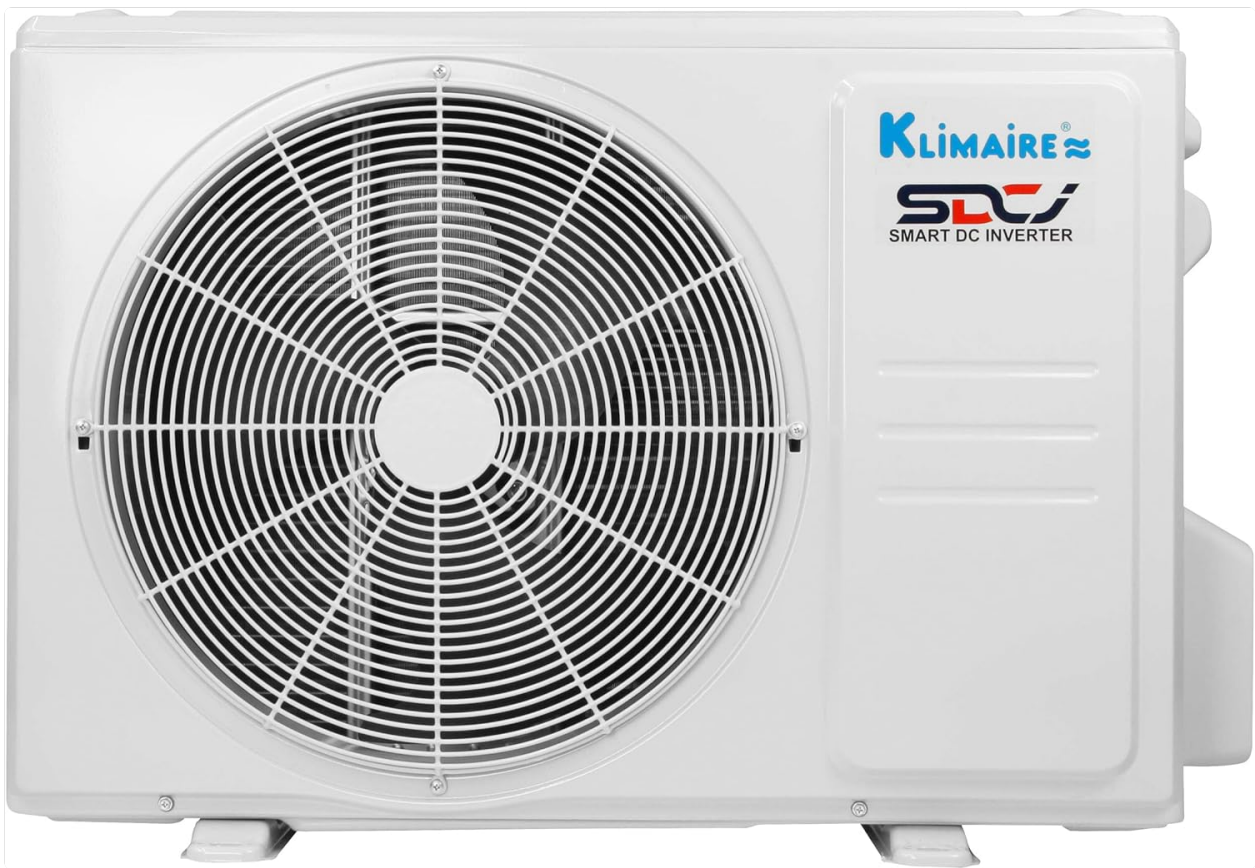


Image 3: The compact outdoor condenser unit of the Klimaire mini-split system, featuring a large fan and Smart DC Inverter branding.

4.3. Refrigerant Line and Electrical Connections

The 15-foot refrigerant line set and interconnecting electrical cables are provided. It is crucial that a certified HVAC technician performs the following steps:

- Connecting the refrigerant lines between the indoor and outdoor units.
- Evacuating the line set using a vacuum pump to remove air and moisture.
- Checking for leaks in the refrigerant system.
- Making all necessary electrical connections, including the disconnect box and electric whip, to the 230V power supply.

Failure to properly evacuate the lines or make secure connections can lead to system malfunction, reduced efficiency, and voiding of the warranty.

5. OPERATING INSTRUCTIONS

The Klimaire KSIE Series mini-split system is controlled via the included wireless remote control. All operational features can be accessed and adjusted from this remote.

5.1. Basic Operation Modes

- **Cooling Mode:** For air conditioning. Set desired temperature and fan speed.
- **Heating Mode:** For heat pump operation. Effective even in low ambient temperatures down to 5°F.
- **Dry Mode (Dehumidification):** Reduces humidity in the air without significant cooling.
- **Fan Mode:** Circulates air without heating or cooling. Choose from four fan speeds.

- **Auto Mode:** The system automatically selects the appropriate mode (heating, cooling, or fan) based on the room temperature and your set point.

5.2. Advanced Features

- **Turbo Mode:** Provides rapid cooling or heating to quickly reach the desired temperature.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep, often increasing temperature slightly during cooling or decreasing during heating over time.
- **Follow-Me Function:** The remote control acts as a thermostat, sensing the temperature at its location and adjusting the unit's operation to maintain comfort around the remote.
- **3D Airflow:** Adjustable louvers allow for multi-directional air distribution.
- **Anti-Cold Air:** Prevents cold drafts during heating startup.
- **Auto Restart Function:** In case of a power outage, the unit will automatically restart with the previous settings once power is restored.



Image 4: The indoor unit displaying a temperature setting, indicating its operational status.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Klimaire mini-split system.

- **Air Filter Cleaning:** Regularly clean or replace the air filters in the indoor unit. Dirty filters restrict airflow and reduce efficiency. Refer to your specific manual for frequency.
- **Self-Cleaning Evaporator:** The indoor unit features a self-cleaning evaporator function to help prevent mildew and maintain air quality. Activate this function as recommended in the detailed manual.
- **Outdoor Unit Coil Cleaning:** Periodically inspect and clean the outdoor condenser coil to remove dirt, leaves, and other debris that can impede heat exchange.
- **Condensate Drain Inspection:** Ensure the condensate drain line is clear and free of blockages to prevent water overflow from the indoor unit.
- **Professional Check-up:** It is recommended to have a qualified HVAC technician perform an annual inspection and tune-up, including checking refrigerant levels, electrical connections, and overall system

performance.



Image 5: Side view of the outdoor unit, showing the refrigerant line connections and electrical access panel.



Image 6: Close-up view of the outdoor unit's condenser coil, highlighting the golden fin technology for corrosion resistance.

7. TROUBLESHOOTING

The Klimaire KSIE Series features self-diagnostic capabilities to assist in identifying potential issues. If a problem occurs, the indoor unit's display may show an error code. Refer to the detailed user manual for a complete list of error codes and their meanings.

7.1. Common Issues and Solutions

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are functional.
- **Insufficient Cooling/Heating:** Verify correct mode selection and temperature setting. Clean air filters. Ensure outdoor unit is not obstructed. Check for refrigerant leaks (requires professional assessment).
- **Unusual Noises:** Minor operational noises are normal. Excessive or unusual noises may indicate a loose part or a fan issue.
- **Water Leaking from Indoor Unit:** This often indicates a clogged condensate drain line. Clear any blockages.
- **Error Codes (e.g., P-4):** An error code like P-4 typically indicates a system malfunction, potentially related to the PCM (Power Control Module) or compressor, or a refrigerant issue. This requires diagnosis by a qualified technician.

If you encounter persistent issues or error codes, contact a certified HVAC technician for diagnosis and repair. Do not attempt to repair the refrigerant system or complex electrical components yourself.

8. SPECIFICATIONS

Specification	Value
Brand Name	Klimaire
Model Info	KSIE024-H220-IW-2 + KSIE024-H220-O-2
Capacity	2 Tons (24,000 BTU Cooling / 26,000 BTU Heating)
SEER2 Rating	21
HSPF2 Rating	9
EER2 Rating	12.5
Voltage	230 Volts (AC)
Noise Level (Indoor Unit)	35 dB
Installation Type	Split System
Refrigerant Type	R410A
Pre-charged Line Length	Up to 25 feet
Recommended Application Area	Up to 1,500 sq. ft.
Indoor Unit Dimensions (WDH)	42.52 x 8.90 x 13.19 inches

Specification	Value
Outdoor Unit Dimensions (WDH)	40.55 x 16.54 x 31.89 inches
Material Type	Aluminum Insulation Materials, Copper, Metal, Plastic, Steel

9. WARRANTY AND SUPPORT



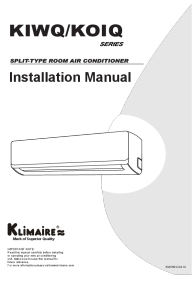
Klimaire stands behind the quality and durability of its KSIE Series mini-split systems.

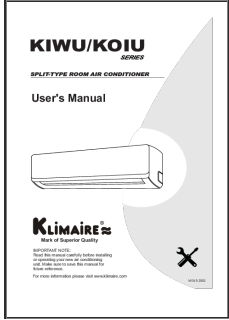
- **Parts Warranty:** 5 Years
- **Compressor Warranty:** 7 Years

For warranty claims, technical support, or to locate authorized service providers, please refer to the contact information provided in your product documentation or visit the official Klimaire website. Ensure you retain your proof of purchase for warranty validation.

For additional information and resources, you may visit the [Klimaire Store on Amazon](#).

Related Documents

	<p>Klimaire KSIV Series Ductless Mini-Split Systems: High Efficiency, Comfort & Savings</p> <p>Discover the Klimaire KSIV Series ductless mini-split air conditioners and heat pumps. Featuring up to 19 SEER efficiency, DC inverter technology, quiet operation, and advanced comfort features for residential and commercial applications. Learn about energy savings, installation, and control options.</p>
	<p>Klimaire KSIV Series Ductless Mini-Split Comfort Systems</p> <p>Explore the Klimaire KSIV Series of ductless mini-split comfort systems, offering high SEER efficiency, advanced DC inverter technology, and personalized climate control for residential use. Learn about features like quiet operation, energy savings, air filtration, and smart control options.</p>
	<p>Klimaire KIWQ/KOIQ Series Split-Type Room Air Conditioner Installation Manual</p> <p>Comprehensive installation manual for Klimaire KIWQ/KOIQ series split-type room air conditioners, covering safety precautions, refrigerant handling, installation procedures, and testing.</p>

	<p>Klimaair KIWU/KOIU Series Split-Type Room Air Conditioner User Manual</p> <p>User manual for the Klimaair KIWU/KOIU Series split-type room air conditioner. Contains safety guidelines, remote control operation, and usage instructions for optimal performance.</p>
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