

Klimaïre KSIH012-H222-S(W)

KLIMAIRE 12,000 BTU 23.1 SEER2 Hyper Heat Ductless Mini Split Air Conditioner & Heat Pump System

Model: KSIH012-H222-S(W)

Brand: Klimaïre

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your KLIMAIRE 12,000 BTU 23.1 SEER2 Hyper Heat Ductless Mini Split Air Conditioner & Heat Pump System, Model KSIH012-H222-S(W). Please read this manual thoroughly before installation and operation to ensure proper use, optimal performance, and safety. Keep this manual for future reference.

IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when installing, operating, or maintaining this appliance. Failure to do so may result in electric shock, fire, or injury. This appliance must be installed by qualified personnel in accordance with national and local wiring regulations.

- Ensure the power supply matches the unit's specifications (230V).
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Keep the area around the outdoor unit clear of debris and obstructions.
- Ensure proper grounding to prevent electric shock.
- Turn off the power supply before performing any maintenance or cleaning.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- KLIMAIRE 12,000 BTU Indoor Fan Coil (KSIH012-H225-IW-2)
- KLIMAIRE Outdoor Smart DC Inverter Condenser (KSIH012-H225-O-2)
- Remote Control with Holder
- Maxwell 16' – ¼ x 1/2 Maxwell Installation Kit (Pre-Flared)
- Maxwell Wall Mounting Bracket
- Whip (Electrical Conduit)
- Disconnect Switch
- Wi-Fi Receiver Module (KPIMDWF)



Image: All components included in the KLIMAIRE 12,000 BTU Mini Split System package.

SETUP AND INSTALLATION

Installation of this mini split system requires specialized tools and knowledge. It is highly recommended that installation be performed by a certified HVAC technician. Improper installation can lead to equipment damage, voided warranty, and safety hazards.

Installation Overview Video

Your browser does not support the video tag.

Video: This official KLIMAIRE installation video provides a visual guide for setting up the U PRO series, which shares similar installation principles with the KSIH series. It covers mounting the indoor unit, connecting piping, and electrical wiring.

1. Indoor Unit Mounting

1. **Select Location:** Choose a location on a sturdy wall, away from direct sunlight or heat sources, and ensuring proper air circulation. Maintain minimum clearances from walls and ceiling as specified in the template.
2. **Mounting Plate:** Use the provided mounting template to mark drill points for the indoor unit's mounting plate and the line set wall hole. Securely fasten the mounting plate to the wall using appropriate screws and anchors. Ensure the plate is perfectly level.
3. **Drill Wall Hole:** Drill a hole (typically 2.5-3 inches in diameter) through the wall for the line set, drain hose, and electrical wiring. Angle the hole slightly downwards towards the exterior to ensure proper drainage.



Image: The indoor unit mounted on a wall, illustrating its compact design and integration into a living space.

2. Line Set and Drain Hose Connection

1. **Route Lines:** Carefully route the pre-flared Maxwell 16' line set, drain hose, and communication cable through the drilled wall hole to the exterior.
2. **Connect to Indoor Unit:** Connect the line set and drain hose to the corresponding ports on the indoor unit. Ensure all connections are tight and leak-free.
3. **Insulate and Secure:** Insulate the refrigerant lines and drain hose. Use the provided Maxwell Wall Mounting Bracket to secure the outdoor unit.

3. Electrical Wiring

1. **Power Off:** Ensure the main power supply to the installation area is turned OFF at the circuit breaker before any electrical work.
2. **Connect Indoor Unit:** Connect the communication cable from the indoor unit to the outdoor unit's electrical terminals, following the wiring diagram in the full instruction manual.
3. **Connect Outdoor Unit:** Connect the main power supply (230V) to the outdoor condenser unit's electrical terminals. Use the provided Whip and Disconnect Switch for safe and compliant electrical connection.
4. **Wi-Fi Module:** Install the Wi-Fi Receiver Module (KPIMDWF) into the designated port on the indoor unit for smart control capabilities.

4. Vacuuming the Line Set

This critical step removes air and moisture from the refrigerant lines, preventing system damage and ensuring efficient

operation. A vacuum pump and manifold gauges are required.

Your browser does not support the video tag.

Video: This video demonstrates the simple steps to pull a vacuum on a mini split system, a crucial process for removing air and moisture from the refrigerant lines before releasing refrigerant.

1. **Connect Gauges:** Connect the manifold gauge set to the service ports on the outdoor unit and the vacuum pump.
2. **Evacuate:** Turn on the vacuum pump and open the manifold gauge valves to evacuate the system. Monitor the vacuum level until it reaches the manufacturer's specified micron level (typically below 500 microns).
3. **Hold Vacuum:** Close the manifold gauge valves and turn off the vacuum pump. Observe the gauge for at least 15-30 minutes to ensure the vacuum holds, indicating no leaks.
4. **Release Refrigerant:** Once the vacuum holds, slowly open the service valves on the outdoor unit to release the refrigerant into the system.

OPERATING INSTRUCTIONS

Your KLIMAIRE mini split system offers various operating modes and features for personalized comfort.

Remote Control Functions



Image: The remote control for the KLIMAIRE mini split system, highlighting its intuitive button layout for various functions.

- **ON/OFF:** Powers the unit on or off.
- **MODE:** Cycles through operating modes:
 - **COOL:** Provides cooling.
 - **HEAT:** Provides heating, effective down to -22°F ambient temperature.
 - **DRY:** Dehumidifies the air.

- **FAN:** Circulates air without heating or cooling.
- **AUTO:** Automatically selects mode based on room temperature.
- **TEMP ▲/▼:** Adjusts the desired temperature.
- **FAN:** Adjusts fan speed (12-grade indoor fan speed).
- **SLEEP:** Optimizes comfort and energy savings during sleep.
- **TURBO:** Activates maximum fan speed for rapid cooling or heating.
- **SWING/DIRECT:** Controls the direction of the airflow louvers.
- **FOLLOW ME:** The remote control acts as a thermostat, sensing the temperature at its location.
- **TIMER ON/OFF:** Sets a timer for the unit to turn on or off.

Wi-Fi Control

The Wi-Fi enabled feature allows you to control your mini split system remotely via a smartphone app. Refer to the Wi-Fi module's specific instructions for pairing and app usage.

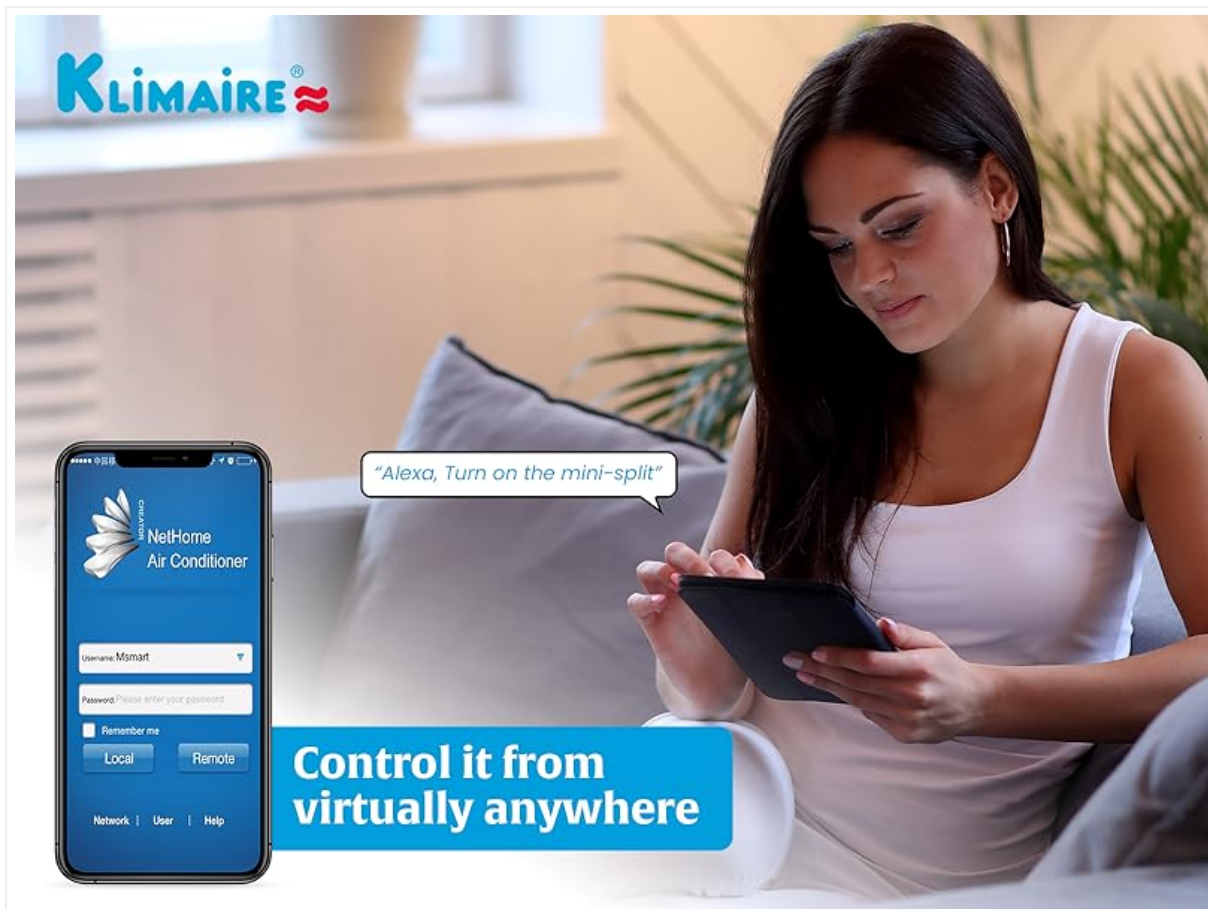


Image: A user interacting with the mini split system via a smartphone application, showcasing the convenience of Wi-Fi control.

MAINTENANCE

Regular maintenance ensures efficient operation and extends the lifespan of your unit. Always disconnect power before performing maintenance.

- **Air Filter Cleaning:** The indoor unit features washable air filters. Clean them every 2-4 weeks, or more frequently if the unit is used heavily or in dusty environments. Remove filters, wash with mild soap and water, rinse thoroughly, and allow to dry completely before reinstallation.
- **Self-Cleaning Function:** Utilize the unit's self-cleaning feature periodically to prevent mold and mildew buildup on the indoor coil. Refer to the remote control instructions for activation.
- **Outdoor Unit Cleaning:** Periodically inspect and clean the outdoor condenser coil to remove dirt, leaves, and other debris that can obstruct airflow. Use a soft brush or vacuum cleaner.
- **Drainage Inspection:** Ensure the drain hose is clear of blockages and properly sloped to allow for continuous water drainage.



Image: Key features of the KLIMAIRE mini split, emphasizing ease of maintenance and the self-cleaning system.

TROUBLESHOOTING

Before contacting customer support, review the following 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 and temperature settings. Clean air filters. Check for obstructions around indoor/outdoor units. Ensure windows and doors are closed.
- **Unusual Noise:** Minor noises during operation are normal. If loud or unusual noises occur, check for loose parts or obstructions.
- **Water Leakage:** Inspect the drain hose for kinks, blockages, or improper slope.
- **Error Codes:** The unit features self-diagnostic capabilities. If an error code appears on the display, consult the full instruction manual for specific code meanings and troubleshooting steps.

SPECIFICATIONS

Feature	Specification
Brand	Klimaïre

Model Number	KSIH012-H222-S(W)
Cooling Capacity	12,000 BTU (4,000 Min – 13,800 Max BTUs)
Heating Capacity	11,800 BTU (5,000 Min – 15,500 Max BTUs)
SEER2 Rating	23.1
HSPF Rating	10.5
EER2 Rating	13
Coverage Area	Up to 550 sq. ft.
Voltage	230 Volts
Noise Level (Indoor)	36 Decibels
Operating Temperature (Heating)	Down to -22°F
Operating Temperature (Cooling)	Up to 122°F
Indoor Unit Dimensions (W x D x H)	32.87 x 7.80 x 11.02 inches
Outdoor Unit Dimensions (W x D x H)	31.5 x 13.1 x 21.8 inches
Material Type	Copper, Plastic
Special Features	Wi-Fi Enabled, Hyper Heat Operation, Self-Cleaning, Self-Diagnostic, Auto-Defrost, Auto-Restart, Follow Me Function, 12-Grade Indoor Fan Speed

WARRANTY INFORMATION

The KLIMAIRE 12,000 BTU Mini Split System comes with a **7-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For detailed terms and conditions, please refer to the warranty card included with your product or contact Klimate customer support.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Klimate customer support. Have your model number and purchase date ready when contacting support.

Klimate Customer Service: Please refer to the official Klimate website or your product documentation for the most current contact information.

Related Documents - KSIH012-H222-S(W)

	<p>KIWU/KOIU Series Split-Type Room Air Conditioner Wi-Fi Function User's Manual</p> <p>This user's manual provides instructions for using the Wi-Fi function of the KIWU/KOIU Series Split-Type Room Air Conditioner. It covers app download and installation, account registration, device setup, and control operations.</p>
	<p>Klimaire KIWU/KOIU Series Split-Type Room Air Conditioner User Manual</p> <p>User manual for the Klimaire KIWU/KOIU Series split-type room air conditioner. Contains safety guidelines, remote control operation, and usage instructions for optimal performance.</p>
	<p>Klimaire KSIV Series Split-Type Room Air Conditioner User's Manual</p> <p>User's Manual for the Klimaire KSIV Series Split-Type Room Air Conditioner, covering safety, operation, maintenance, and troubleshooting.</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>Klimaire KMIR Multi-Zone Series Split-Type Room Air Conditioner Installation Manual</p> <p>Comprehensive installation manual for the Klimaire KMIR Multi-Zone Series Inverter One-Two/One-Three/One-Four/One-Five Split-Type Room Air Conditioner, covering safety precautions, installation instructions for various types, refrigerant pipe connection, electrical work, air purging, and test running.</p>
	<p>Klimaire KTHN Series Troubleshooting Guide for Packaged Terminal Air Conditioner / Heat Pump</p> <p>Comprehensive troubleshooting guide for Klimaire KTHN Series Packaged Terminal Air Conditioner and Heat Pump units. Covers error codes, sensor issues, communication malfunctions, and common operational problems.</p>