

Air-Con ABXCI4H4S09/ABXEM4H4S09

Air-Con 12000 BTU Mini Split Air Conditioner User Manual

Model: ABXCI4H4S09/ABXEM4H4S09

Ductless AC/Heating System - 1 Ton Pre-Charged Inverter Heat Pump

1. PRODUCT OVERVIEW

The Air-Con 12000 BTU Mini Split Air Conditioner is a versatile ductless AC/Heating system designed to provide year-round comfort. This 1-ton pre-charged inverter heat pump boasts a 21 SEER rating, ensuring energy efficiency. It is equipped with a 15-foot lineset and wiring, making it ready for professional installation.

Key features include inverter technology for lower operating costs, Turbo mode for rapid heating and cooling, Sleep mode for enhanced comfort, Auto clean function to prevent mildew, and Auto reset for power interruptions. It also features a 24-hour timer with last-setting memory, a dedicated dehumidifier, and horizontal and vertical louver motion for optimal air distribution. The unit is WIFI ready with an optional remote (sold separately, compatible with Cielo Breez remote).



Figure 1.1: Overview of the Air-Con 12000 BTU Mini Split Air Conditioner system, including the indoor unit, outdoor condenser, remote control, pre-charged copper lineset, and electrical cables.

2. SAFETY INFORMATION

WARNING: Installation and maintenance of this unit must be performed by a licensed HVAC technician. Attempting self-installation without proper qualifications and tools can lead to serious injury, property damage, and void the product warranty.

- Always disconnect power before servicing or cleaning the unit.
- Ensure proper grounding to prevent electrical shock.
- Do not block air inlets or outlets of the indoor or outdoor units.
- Keep children and pets away from the unit during operation and maintenance.
- This product may expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. PACKAGE CONTENTS

Upon unpacking, verify that all the following components are included:

- Indoor Unit (Evaporator)
- Outdoor Unit (Condenser)
- Remote Control
- 15-foot Copper Lineset (pre-charged)
- 15-foot Signal and Power Electrical Cables
- User Manual (this document)

If any items are missing or damaged, please contact Air-Con customer support immediately.

4. INSTALLATION AND SETUP

This Air-Con mini split system is designed for professional installation. While the unit is pre-charged and includes necessary linesets and wiring, specialized tools and knowledge are required for proper vacuuming of the lines, leak checking, and electrical connections to ensure safe and efficient operation.

4.1 Site Selection

Consider the following when selecting installation locations for the indoor and outdoor units:

- **Indoor Unit:** Choose a location that allows for optimal air distribution throughout the room, away from direct sunlight or heat sources. Ensure sufficient space around the unit for maintenance.
- **Outdoor Unit:** Select a well-ventilated area, clear of obstructions, and on a stable, level surface. Ensure adequate clearance for airflow and service access. Avoid locations near bedrooms due to potential noise.

4.2 Dimensions and Clearance

Refer to the following dimensions for planning your installation:

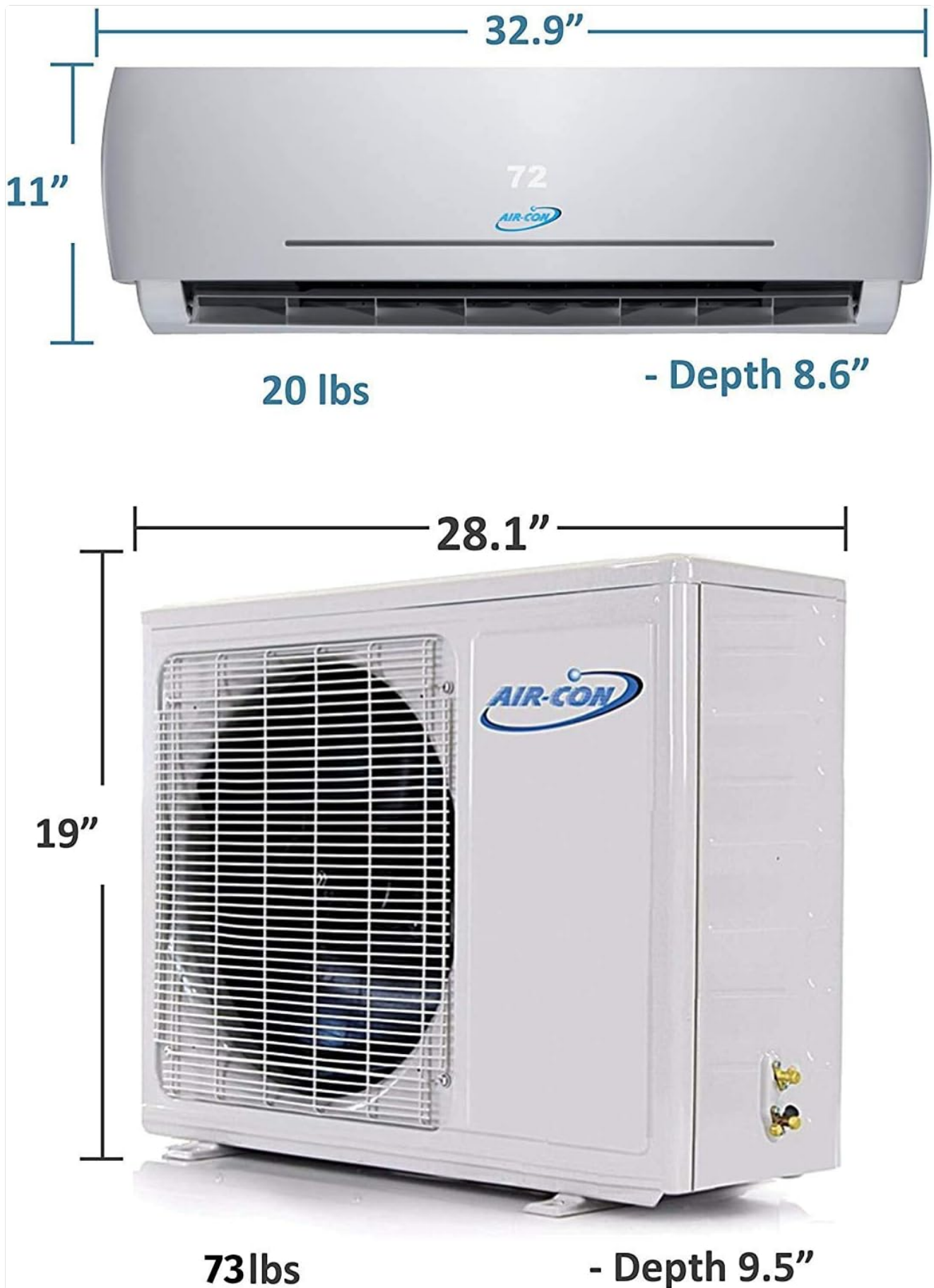


Figure 4.1: Dimensional drawing of the indoor unit (32.9" W x 11" H x 8.6" D) and outdoor unit (28.1" W x 19" H x 9.5" D), including their approximate weights.

4.3 Electrical Requirements

The unit operates on 208/230V. A dedicated electrical circuit with appropriate circuit breaker protection is required. Consult with your licensed HVAC technician and local electrical codes for specific wiring and breaker requirements.

4.4 AHRI Certification

This unit is AHRI Certified, ensuring its performance ratings meet industry standards. The AHRI Reference Number is 203446795.



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This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between 1/1/2015 and 12/31/2020.

Certificate of Product Ratings

AHRI Certified Reference Number : 203446795	Date : 12-04-2020	Model Status : Active
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AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)

Outdoor Unit Brand Name : AIR-CON

Outdoor Unit Model Number : ABXCI4H4S12

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : ABXEM4H4S12

Rated as follows in accordance with the latest edition of AHRI 210/240 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (95F) : 12000

EER (95F) : 13.00

SEER : 22.00

High Heat (47F) : 13000

Low Heat (17F) : 7500

HSPF : 10.50

Sold in? : USA, Canada



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†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.
Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

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CERTIFICATE NO.:	132515711782398631
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Figure 4.2: AHRI Certified Product Ratings certificate, confirming the unit's performance specifications and compliance with industry standards.

5. OPERATING INSTRUCTIONS

The Air-Con mini split system is controlled primarily via the included remote control. Familiarize yourself with the remote's functions for optimal use.

5.1 Basic Operation Modes

- **Cool Mode:** Reduces room temperature. Set desired temperature using the remote.
- **Heat Mode:** Increases room temperature. Effective even in low ambient temperatures down to -4°F.
- **Dry (Dehumidify) Mode:** Removes excess moisture from the air without significant cooling.
- **Fan Mode:** Circulates air without heating or cooling.
- **Auto Mode:** Automatically selects cooling or heating based on the set temperature and current room temperature.

5.2 Advanced Features

- **Turbo Mode:** Activates maximum fan speed and compressor output for rapid cooling or heating.
- **Sleep Mode:** Adjusts temperature gradually overnight for comfortable sleeping and energy savings.
- **24-Hour Timer:** Program the unit to turn on or off at specific times. The unit retains the last setting in memory.
- **Auto Reset:** In case of a power interruption, the unit will automatically resume operation with the last settings once power is restored.
- **Louver Control:** Adjust horizontal and vertical louvers for precise airflow direction.
- **WIFI Ready:** Compatible with optional smart thermostats like Cielo Breez for remote control via smartphone (sold separately).

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Air-Con mini split system. Always disconnect power to the unit before performing any maintenance.

6.1 Air Filter Cleaning

The indoor unit's air filters should be cleaned regularly (e.g., every 2-4 weeks, depending on usage and air quality). Dirty filters can reduce airflow, decrease efficiency, and impact air quality.

1. Open the front panel of the indoor unit.
2. Remove the air filters.
3. Clean the filters using a vacuum cleaner or by washing them with lukewarm water and mild detergent.
4. Allow filters to dry completely before reinserting them.
5. Close the front panel.

6.2 Auto Clean Function

The unit features an "Auto Clean" function designed to prevent mildew growth inside the indoor unit. Refer to your remote control's specific instructions on how to activate this feature.

6.3 Professional Maintenance

It is highly recommended to schedule annual professional maintenance with a licensed HVAC technician. This includes checking refrigerant levels, cleaning coils, inspecting electrical connections, and ensuring overall system

health.

7. TROUBLESHOOTING

Before contacting technical support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, circuit breaker tripped, remote control batteries dead.	Check power supply, reset circuit breaker, replace remote batteries.
Insufficient cooling/heating.	Dirty air filters, blocked outdoor unit, incorrect mode/temperature setting, low refrigerant.	Clean air filters, clear obstructions from outdoor unit, verify settings, contact technician for refrigerant check.
Unusual noise.	Loose parts, fan obstruction, refrigerant flow noise (normal).	Inspect for loose parts or obstructions. If noise persists or is unusual, contact technician.
Water leakage from indoor unit.	Clogged drain line, improper installation.	Contact a licensed HVAC technician to inspect and clear the drain line or correct installation issues.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact Air-Con technical support. We offer U.S. based replacement parts and technical service.

8. SPECIFICATIONS

Specification	Value
Brand	Air-Con
Model Info	ABXC14H4S09/ABXEM4H4S09
Capacity	12000 BTU (1 Ton)
SEER Rating	21
Voltage	208/230 Volts
Wattage	730 Watts
Annual Energy Consumption	1200 Kilowatt Hours Per Year
Indoor Unit Dimensions (W x H x D)	32.9" x 11" x 8.6"
Outdoor Unit Dimensions (W x H x D)	28.1" x 19" x 9.5"
Item Weight	105 pounds (total system)

Specification	Value
Noise Level	12000 dB
Special Features	Inverter Compressor, Remote Controlled, Heating And Cooling Function, Auto Clean, Fast Cooling
Included Components	Indoor & Outdoor unit, Remote control, 15' copper lineset, 15' signal and power electrical cables

9. WARRANTY AND SUPPORT

Air-Con stands behind the quality of its products. This mini split system comes with a 7-year compressor warranty and a 5-year parts warranty, providing total peace of mind.

For warranty claims, technical assistance, or to order replacement parts, please contact Air-Con customer service. We provide U.S. based replacement parts and technical service to ensure prompt support.

Visit the official Air-Con Store for more information and product offerings: [Air-Con Store on Amazon](#)

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This manual is for informational purposes only. Specifications are subject to change without notice.