

## Air-Con ABXCI4H4S09/ABXEM4H4S09

# Air-Con 24000 BTU Ductless Mini Split AC/Heating System

MODEL: ABXCI4H4S09/ABXEM4H4S09

## Introduction

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This instruction manual provides essential information for the safe and efficient operation, installation, and maintenance of your Air-Con 24000 BTU Ductless Mini Split AC/Heating System. This system is designed to provide year-round comfort, offering heating, cooling, and dehumidification for areas up to 1,500 square feet. Featuring inverter technology and a 21 SEER rating, it operates quietly and efficiently.

Please read this manual thoroughly before installation and use, and retain it for future reference. Proper installation and maintenance are crucial for optimal performance and longevity of the unit.

## Safety Information

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**Important:** Installation and maintenance of this air conditioning system must be performed by a licensed HVAC technician. Attempting to install or service the unit without proper qualifications can result in serious injury, property damage, and void the product warranty.

- **Electrical Safety:** Ensure the unit is connected to a dedicated 2-pole 30 amp circuit breaker. All electrical wiring must comply with local and national electrical codes. Disconnect power before any service or maintenance.
- **Refrigerant Handling:** This unit uses R410A refrigerant. Handling of refrigerants requires specialized tools and training. Improper handling can cause environmental damage and personal injury.
- **Unit Placement:** Ensure both indoor and outdoor units are installed on stable, level surfaces with adequate clearance for airflow and service.
- **Children and Pets:** Keep children and pets away from the outdoor unit, especially during operation.

## Product Components

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The Air-Con 24000 BTU Ductless Mini Split AC/Heating System includes the following main components:

- Indoor Unit (Evaporator)
- Outdoor Unit (Condenser/Heat Pump)
- Remote Control
- 15-foot Copper Lineset
- 15-foot Signal and Power Electrical Cables



*Image: Air-Con 24000 BTU Ductless Mini Split system showing both the indoor and outdoor units.*

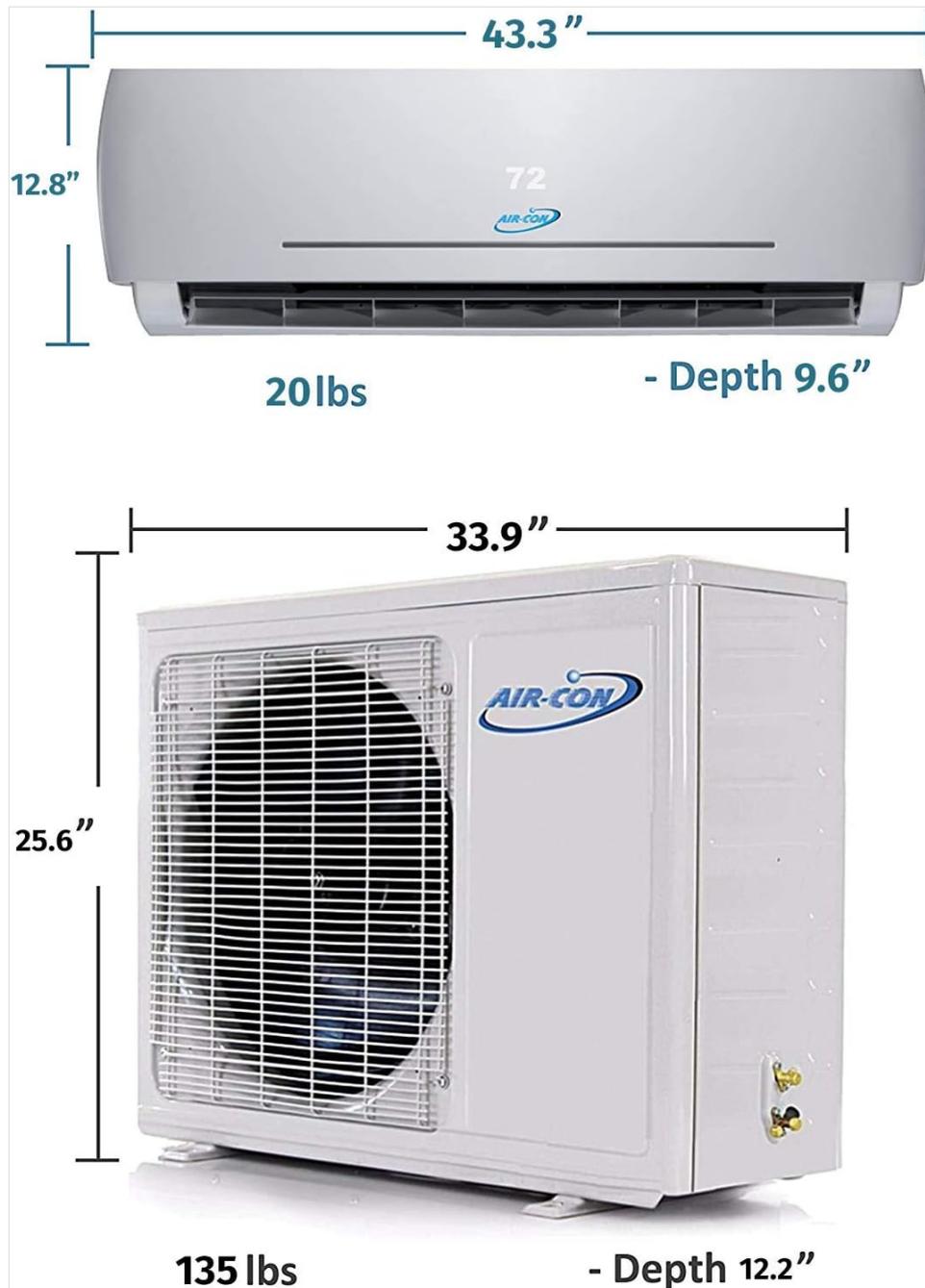
The image above displays the complete Air-Con mini split system, including the sleek indoor air handler and the robust outdoor condenser unit. These are the primary components responsible for conditioning your space.

## Setup and Installation

As previously stated, professional installation by a licensed HVAC technician is mandatory for this system. The following points highlight key aspects of the installation process:

- **Site Selection:** Choose appropriate locations for both indoor and outdoor units, considering airflow, drainage, and accessibility for maintenance.
- **Mounting:** Securely mount the indoor unit to a wall and the outdoor unit on a stable pad or wall bracket.
- **Line Set Connection:** Connect the pre-charged copper lineset between the indoor and outdoor units. Although the system is pre-charged, it is critical to vacuum the lineset to remove any atmospheric air and moisture before releasing the refrigerant. This step prevents premature unit failure.
- **Electrical Wiring:** Connect the signal and power cables according to the wiring diagram provided with the unit. A dedicated 2-pole 30 amp circuit breaker is required.

- **Drainage:** Ensure proper condensate drainage from the indoor unit.



*Image: Detailed dimensions for both the indoor and outdoor units of the Air-Con mini split system, crucial for planning installation space.*

This image provides critical dimensional information for both the indoor and outdoor units, which is essential for proper planning and installation to ensure adequate space and clearances.



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 : 203446800      Date : 12-04-2020      Model Status : Active

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 : ABXC14H4S24

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : ABXEM4H4S24

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) : 23400

EER (95F) : 12.50

SEER : 21.00

High Heat (47F) : 26000

Low Heat (17F) : 14500

HSPF : 10.50

Sold in? : USA, Canada



†"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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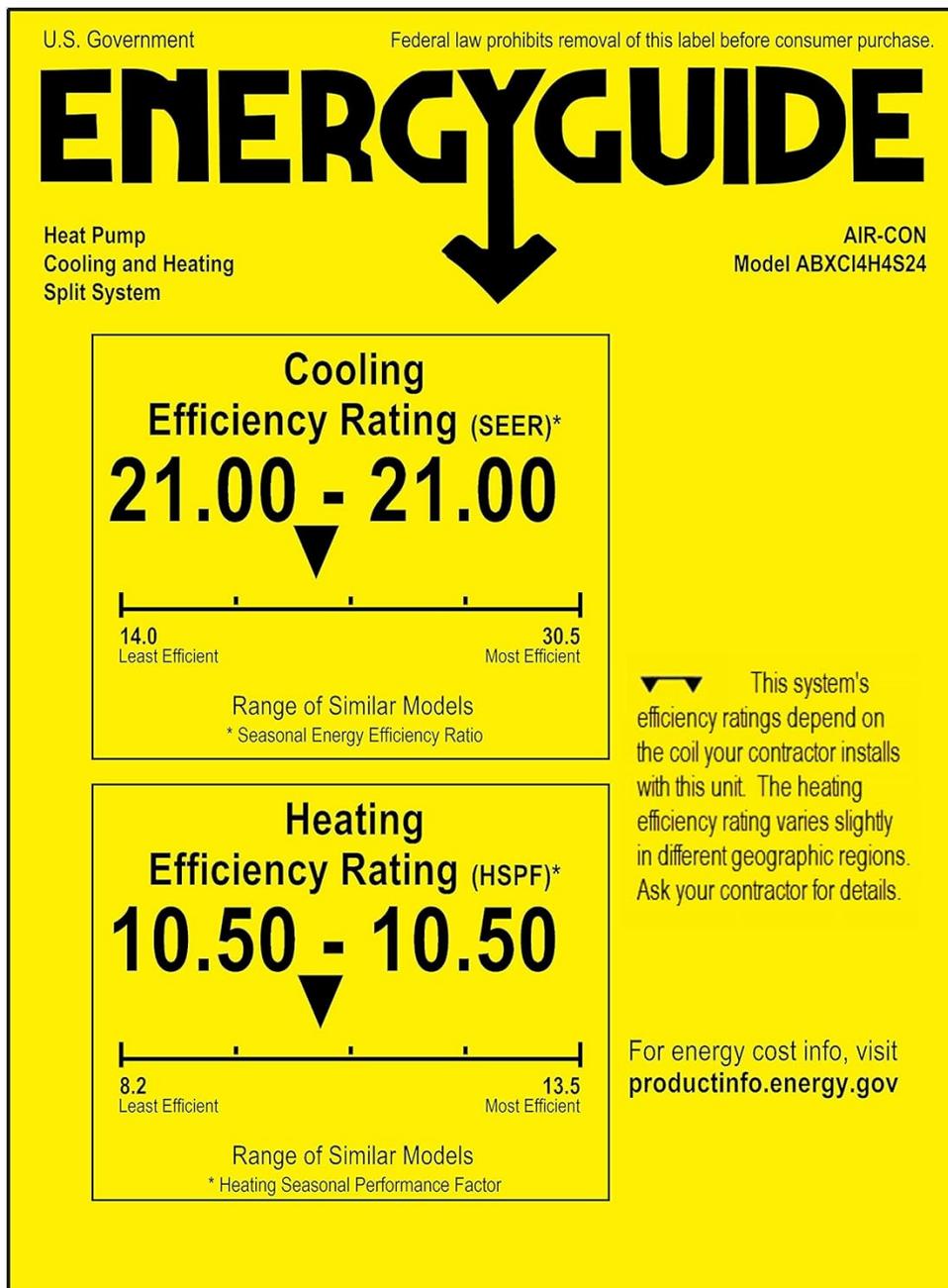


CERTIFICATE NO.:

132515713781377668

*Image: AHRI Certified Product Ratings certificate, confirming the unit's performance specifications and energy efficiency.*

The AHRI certificate confirms the unit's performance ratings, including EER, SEER, and HSPF, which are important for verifying energy efficiency and capacity.



*Image: EnergyGuide label displaying the cooling and heating efficiency ratings (SEER and HSPF) for the Air-Con mini split system.*

The EnergyGuide label provides a clear overview of the system's cooling and heating efficiency, helping users understand its energy consumption characteristics.

## Operating Instructions

Your Air-Con mini split system is controlled via the included remote control. Familiarize yourself with the remote's buttons and display for optimal use.

### Operating Modes:

- **Cool Mode:** For cooling your space. Set your desired temperature.
- **Heat Mode:** For heating your space. Effective in ambient temperatures as low as -4°F.
- **Dry (Dehumidify) Mode:** Reduces humidity in the air without significant cooling.
- **Fan Mode:** Circulates air without heating or cooling. Fan speed can be adjusted.
- **Auto Mode:** The unit automatically selects the appropriate mode (cool, heat, or fan) based on the

room temperature and your set temperature.

## Special Functions:

- **Turbo Mode:** Provides rapid cooling or heating to reach the desired temperature quickly.
- **Sleep Mode:** Adjusts temperature settings gradually overnight for comfortable sleeping and energy savings.
- **24-Hour Timer:** Allows you to program the unit to turn on or off at specific times. The unit retains the last setting memory.
- **Auto Clean:** Helps prevent mildew and maintains indoor air quality by drying the indoor coil.
- **Auto Reset:** Restores previous settings after a power interruption.
- **Louver Control:** Adjust horizontal and vertical louver motion for optimal airflow direction.
- **WIFI Ready:** Compatible with optional remote devices (e.g., Cielo Breez, sold separately) for smart control.

## Maintenance

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

### User Maintenance:

- **Air Filter Cleaning:** The indoor unit's air filters should be cleaned every 2-4 weeks, or more frequently depending on usage and air quality. Remove filters, wash with mild soap and water, rinse thoroughly, and allow to dry completely before reinserting.
- **Auto Clean Function:** Utilize the auto clean feature regularly to help prevent mold and mildew growth on the indoor coil.
- **Exterior Cleaning:** Wipe the exterior of both units with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

### Professional Maintenance:

It is recommended to have a licensed HVAC technician perform annual professional maintenance. This includes:

- Checking refrigerant levels and pressure.
- Cleaning indoor and outdoor coils.
- Inspecting electrical connections and components.
- Checking condensate drain for blockages.
- Verifying overall system operation and efficiency.

## Troubleshooting

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Before contacting customer support, perform the following basic checks:

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote batteries dead	Check power supply, reset breaker, replace remote batteries

Problem	Possible Cause	Solution
Insufficient cooling/heating	Dirty air filters, blocked outdoor unit, incorrect mode/temperature setting, low refrigerant	Clean filters, clear outdoor unit, adjust settings, contact technician for refrigerant check
Unusual noise	Loose parts, debris in fan, compressor issue	Inspect for loose parts/debris, if persistent or loud, contact technician
Water leakage from indoor unit	Blocked condensate drain, improper installation	Check and clear drain line, contact technician for inspection

If these basic troubleshooting steps do not resolve the issue, or if you suspect a more serious problem, contact a licensed HVAC technician for assistance. Do not attempt complex repairs yourself.

## Specifications

Feature	Specification
Brand Name	Air-Con
Model Info	ABXCI4H4S09/ABXEM4H4S09
Item Weight	25 pounds (Indoor Unit)
Product Dimensions	34.88 x 31.31 x 14.38 inches
Efficiency (SEER)	21.0
Capacity	2 Tons (24000 BTU)
Annual Energy Consumption	12000 Kilowatt Hours Per Year
Noise Level	53 Decibels
Installation Type	Split System
Special Features	Auto Clean, Fast Cooling, Heating And Cooling Function, Inverter Compressor, Remote Controlled
Color	White
Voltage	220 Volts
Wattage	730
Floor Area Coverage	Up to 1500 Square Feet
Refrigerant	R 410A

## Warranty and Support

For specific warranty details, please refer to the warranty card included with your product or contact Air-Con customer service directly. Warranty coverage typically requires professional installation and adherence to maintenance guidelines.

Air-Con is committed to providing quality products and support. For technical assistance, parts, or service inquiries, please contact Air-Con customer support. The product includes USA parts and support.