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ACiQ ACiQ-24-AC / ACiQ-24-ACL

ACiQ 16.5 SEER2 Inverter Air Conditioner & Evaporator Coil System User Manual

Model: ACiQ-24-AC / ACiQ-24-ACL | Brand: ACiQ

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ACiQ High Efficiency 16.5 SEER2 24,000 Cooling BTU Inverter Air Conditioner and Multi-Positional Cased Evaporator Coil System. Please read this manual thoroughly before installation or operation and keep it for future reference.

The ACiQ system is designed to provide optimal cooling performance with advanced inverter technology, ensuring consistent temperature control and energy efficiency. This system includes an outdoor inverter unit, a multi-positional cased evaporator coil, and a smart thermostat for convenient control.

2. IMPORTANT SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Refer to this manual. For assistance or additional information, consult a qualified installer or service agency.

- Always disconnect power before servicing the unit.
- Ensure proper grounding to prevent electrical shock.
- Installation and service must be performed by qualified personnel only.
- Do not block airflow to the outdoor or indoor units.
- Keep children away from the unit during operation and maintenance.
- Use only manufacturer-approved replacement parts.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon receipt:

- ACiQ Inverter Outdoor Unit
- ACiQ Multi-Positional Cased Evaporator Coil
- Cielo Smart Thermostat
- Installation Manuals and User Guides



Figure 3.1: Overview of the ACiQ Inverter Air Conditioner and Evaporator Coil System, including the outdoor unit, cased evaporator coil, and smart thermostat.

4. SETUP AND INSTALLATION

Installation of this system requires specialized knowledge and tools. It is strongly recommended that installation be performed by a certified HVAC technician to ensure proper function, safety, and warranty validity.

4.1 Unit Placement and Dimensions

Ensure adequate clearance around both the outdoor and indoor units for proper airflow and maintenance access. Refer to the following dimensions for planning:

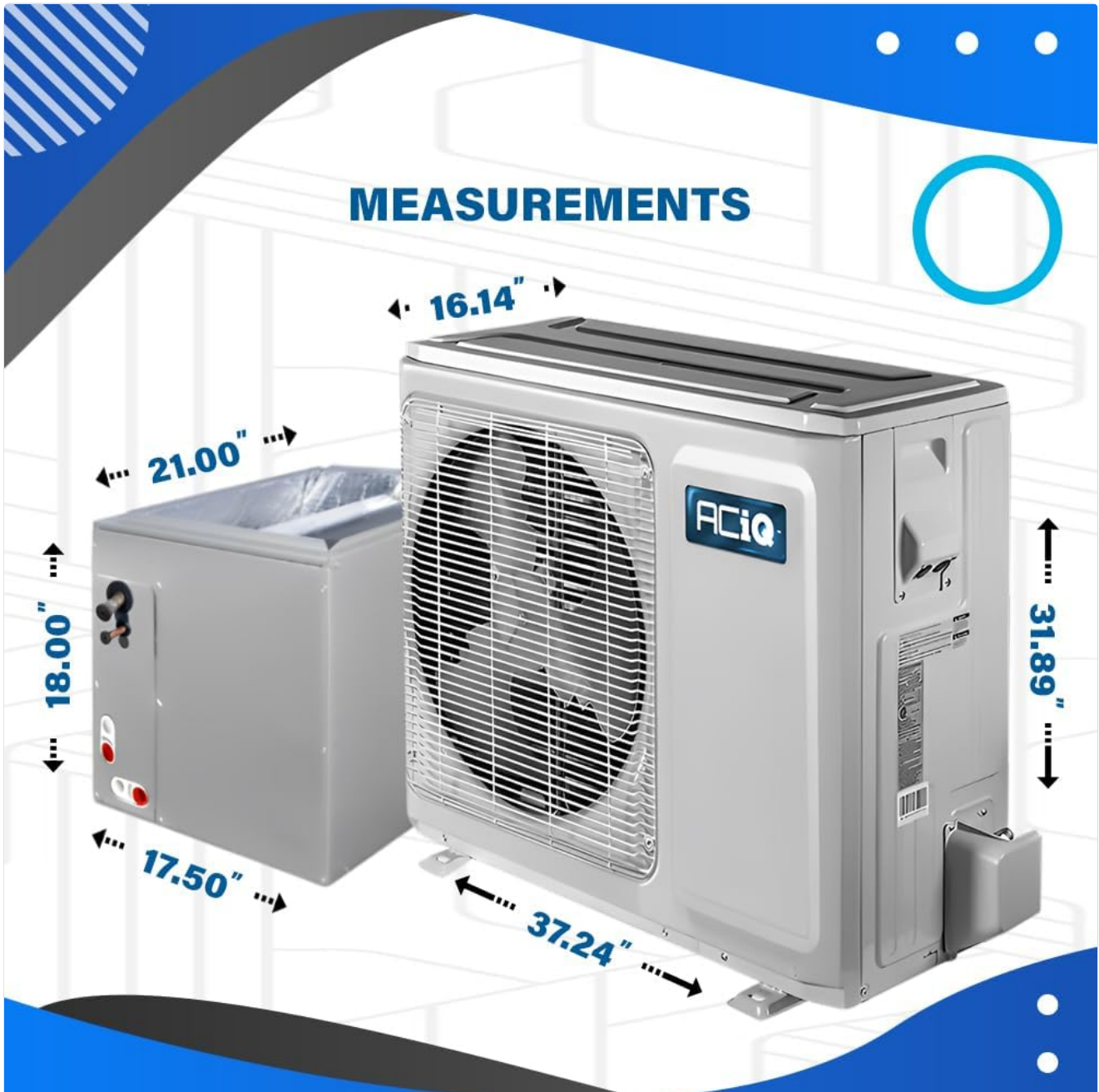


Figure 4.1: Detailed measurements for the ACiQ outdoor unit and evaporator coil, indicating dimensions for installation planning.

4.2 Evaporator Coil Installation

The cased multi-positional evaporator coil is designed for versatile installation in various configurations. It is specifically designed for use with gas furnaces or modular blowers and cannot be substituted for a one-piece air handler.

AIR CONDITIONER FEATURES

- AFFORDABLE INTELLIGENCE:** Comfort solutions unleashed
- SUMMER COOLING CONTROL:** 24,000 BTu/H cooling precision
- ENERGY EFFICIENCY:** Up to 16.5 SEER (11.4 EER) performance
- ELECTRICAL INFORMATION:** 208-230 voltage, 1-Phase, 60Hz
- SUMMER PROOF COOLING:** 5°F to 122°F outdoor temp operation
- BUILT TO LAST:** Gold fin condenser coil's enduring durability
- LEAK DETECTION:** Sets off alerts on leaks to prevent hazards
- SILENT POWERHOUSE:** Quietest operation at maximum workloads

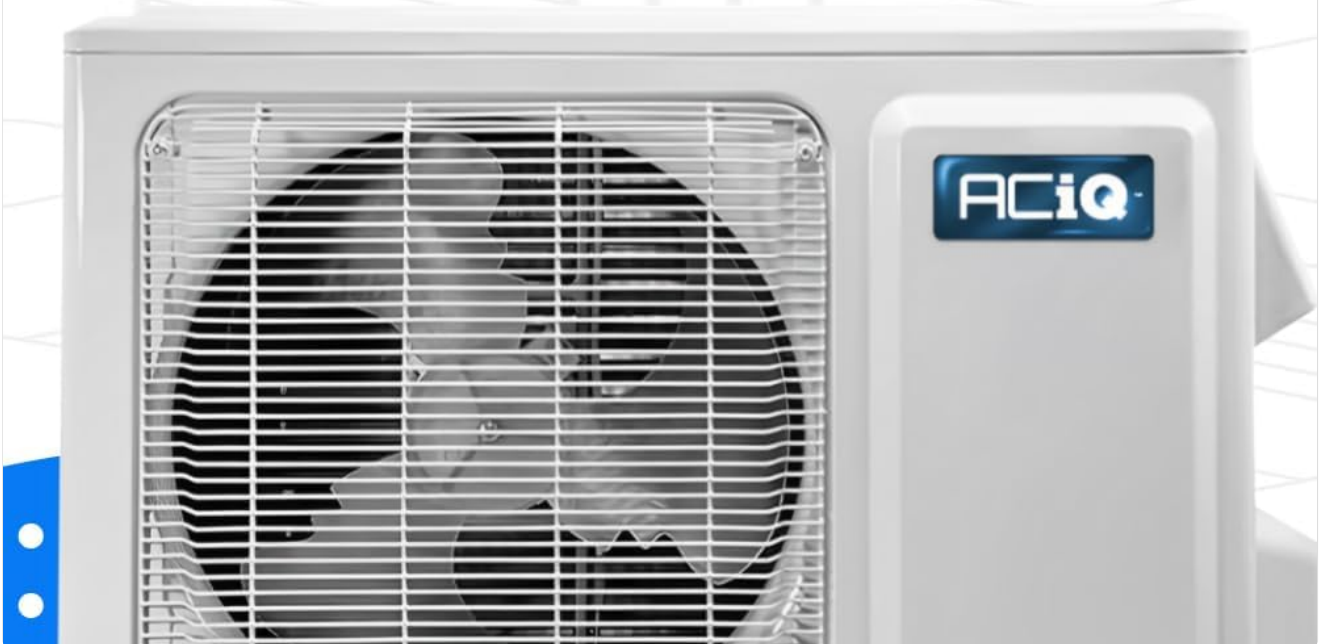


Figure 4.2: Specifications for the ACiQ evaporator coil, including air flow, pressure, and physical dimensions.

4.3 Electrical Connections

The system requires a 208-230 voltage, 1-Phase, 60Hz electrical supply. All electrical wiring must comply with local and national electrical codes. Ensure proper circuit breaker sizing and wiring gauge for the unit's power requirements.

4.4 Refrigerant Piping

This system uses R 410A refrigerant. Proper evacuation and charging procedures are critical for system performance and longevity. This process must be performed by a licensed HVAC technician.

5. OPERATING INSTRUCTIONS

Your ACiQ system is controlled by the included Cielo Smart Thermostat, designed for user convenience and energy efficiency.

5.1 Cielo Smart Thermostat Overview

The Cielo Smart Thermostat allows you to manage your cooling and heating settings efficiently. It ensures your system runs only when needed, helping to reduce energy consumption without compromising comfort.



EVAPORATOR COIL SPECS

Note the coil are specifically designed for use with gas furnaces or modular blowers and cannot be substituted for a one-piece air handler.

AIR FLOW: 720.04 CFM
PRESSURE: 0.25 In. wg.
DEHUMIDIFICATION: 3.02
DIMENSION (W x D x H):
17.52 x 20.98 x 17.99 in
445 x 532 x 457 mm
PACKING (W x D x H):
17.60 x 26.06 x 20.55 in
445 x 533 x 457 mm
NET/GROSS WEIGHT:
42.77 / 52.03 lbs
19.40 / 23.60 kg

Figure 5.1: The Cielo Smart Thermostat, illustrating its sleek design and integration with a mobile application for remote control.

5.2 Thermostat Features and Controls

The thermostat offers various features for precise climate control and smart home integration:

- **Mode Selection:** Switch between cooling, heating, fan, and auto modes.
- **Temperature Setting:** Adjust desired indoor temperature.
- **Humidity Display:** Monitor indoor humidity levels.
- **Scheduling:** Program daily or weekly schedules for automated comfort and energy savings.
- **Smart Home Integration:** Compatible with Alexa, Hey Google, Add to Siri, SmartThings, IFTTT, and Cielo Linked for voice control and smart home automation.
- **Remote Control:** Manage settings via the Cielo mobile application from anywhere.

SMART THERMOSTAT

Ensures your cooling or heating runs only when you need it. This keeps your *energy bills check without compromising your comfort.*



Figure 5.2: An illustrative diagram detailing the various features and control points of the Cielo Smart Thermostat, including its compatibility with popular smart home platforms.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your ACiQ system. Always disconnect power to the unit before performing any maintenance.

6.1 Air Filter Replacement/Cleaning

Check and clean or replace the air filter in your furnace or air handler every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow and reduces efficiency.

6.2 Outdoor Unit Coil Cleaning

Periodically inspect the outdoor unit's condenser coil for dirt, leaves, and debris. Gently clean the coil with a soft brush or hose. Avoid bending the fins. Ensure the area around the outdoor unit is clear of obstructions.



Figure 6.1: A close-up view of the ACiQ outdoor unit, highlighting the fan and condenser coil, which require periodic cleaning for optimal performance.

6.3 Professional Servicing

It is recommended to have a qualified HVAC technician perform annual maintenance on your system. This includes checking refrigerant levels, electrical connections, and overall system performance.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
System not cooling/heating	Thermostat settings incorrect, dirty air filter, tripped circuit breaker, outdoor unit obstructed.	Check thermostat mode and temperature settings. Clean/replace air filter. Reset circuit breaker. Clear obstructions around outdoor unit.
Weak airflow	Dirty air filter, blocked return air vents, duct leaks.	Clean/replace air filter. Ensure vents are open and unobstructed. Inspect ducts for leaks (professional service recommended).
Unusual noises	Loose parts, fan motor issues, refrigerant issues.	Turn off unit and inspect for loose panels or debris. If noise persists, contact a qualified technician.
System cycles on and off frequently	Oversized unit, low refrigerant, dirty coils.	Ensure proper sizing during installation. Check for refrigerant leaks and clean coils. Contact a technician for diagnosis.
Leak detection alert	Refrigerant leak.	The system is equipped with leak detection. If an alert occurs, immediately contact a qualified HVAC technician for inspection and repair.

8. SPECIFICATIONS

Key technical specifications for the ACiQ 16.5 SEER2 24,000 BTU Inverter Air Conditioner and Evaporator Coil System:

Feature	Detail
Brand	ACiQ
Model Name	ACiQ-24-AC / ACiQ-24-ACL
Cooling Capacity	24,000 BTU/h (2 Tons)
SEER2 Rating	Up to 16.5
Power Source	Corded Electric
Voltage	208-230V, 1-Phase, 60Hz
Refrigerant Type	R 410A
Outdoor Unit Dimensions (W x D x H)	35.04" x 13.46" x 26.5"
Evaporator Coil Dimensions (W x D x H)	17.52" x 20.98" x 17.99"
Control Method	Remote Control (Cielo Smart Thermostat)

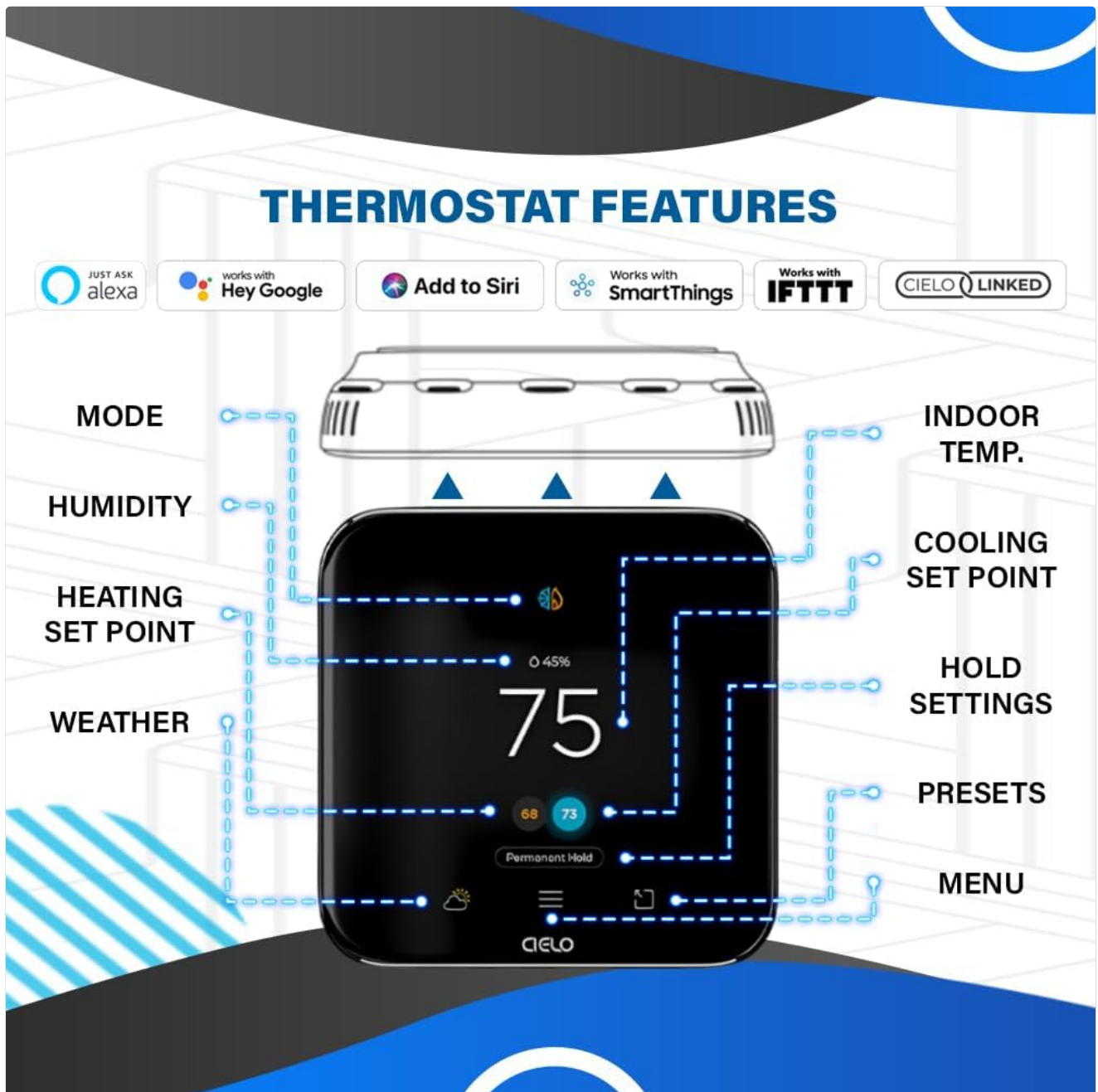


Figure 8.1: AHRI Certification and EnergyGuide label, confirming the system's performance ratings and energy efficiency.

9. WARRANTY AND SUPPORT

9.1 Warranty Conditions

The ACiQ system comes with a **10-year parts warranty** when installed by a qualified technician and registered online with the manufacturer at no additional charge. Please retain your proof of purchase and installation records for warranty claims.

For detailed warranty terms and conditions, please refer to the warranty documentation included with your product or visit the official ACiQ website.

AHRI RATING CONDITIONS

AHRI Certification is essential for **HVAC** units as it assures performance, energy efficiency, quality, regulatory compliance, and provides benefits like market differentiation, financial incentives, and consumer protection.

AHRI CERTIFIED
www.ahri.org

Certificate of Product Ratings

AHRI Certified Reference Number: 214731228 Date: 08-27-2024 Model Status: Active
AHRI Type: RCU-A-C (Split System: Air-Cooled Condensing Unit, Coil Alone)
Outdoor Unit Brand Name: ACIQ
Outdoor Unit Model Number (Condenser or Single Package): ACIQ-24-AC
Indoor Unit Model Number (Evaporator and/or Air Handler): ACIQ-24-ACL

U.S. Government Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Central Air Conditioner Cooling Only Split System

Efficiency Rating (SEER 2)¹
16.00*

Model ACIQ-24-AC
For energy cost info, visit productinfo.energy.gov

13.8 Least Efficient Most Efficient 27.0
Range of Similar Models
¹ Seasonal Energy Efficiency Ratio 2

Notice
Federal law allow this unit to be installed in all U.S. states and territories.

Energy Efficiency Ratio 2 (EER2): The installed system's minimum EER2 is 11.50.

AHRI CERTIFIED
www.ahri.org

AHRI Certified Reference Number: 214731228 Date: 08-27-2024 Model Status: Active
AHRI Type: RCU-A-C (Split System: Air-Cooled Condensing Unit, Coil Alone)
Outdoor Unit Brand Name: ACIQ
Outdoor Unit Model Number (Condenser or Single Package): ACIQ-24-AC
Indoor Unit Model Number (Evaporator and/or Air Handler): ACIQ-24-ACL

AHRI
AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE
www.ahri.org

CERTIFICATE NO.: 132602287089410007

AHRI CERTIFIED NUMBER: 214731228
DATE: 08-26-2024 **MODEL STATUS:** Active
AHRI TYPE: RCU-A-C (Split System: Air-Cooled Condensing Unit, Coil Alone)
BRAND NAME: ACIQ
OUTDOOR UNIT: ACIQ-24-AC
INDOOR UNIT: ACIQ-24-ACL

The manufacturer of this ACIQ product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240-2024, 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 BTUH: 24000
SEER2: 16.50 **EER2 Single or High Stage:** 11.40

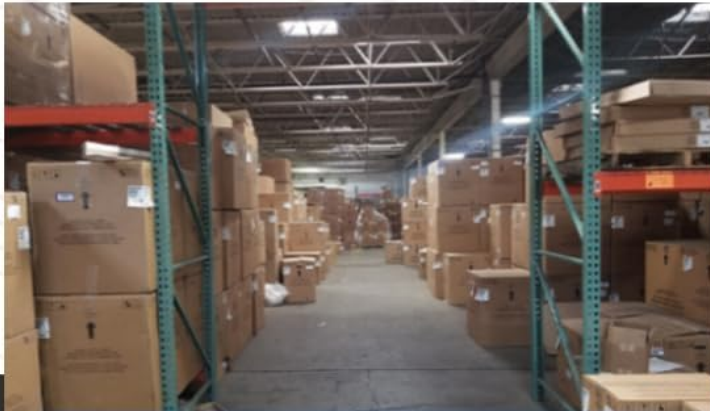
Figure 9.1: Expert packaging of ACiQ units in a warehouse, ensuring product integrity during transit.

PRODUCT CONDITION



EXPERT PACKAGING:

We take pride in our packaging process, employing industry best practices to safeguard your units during transit. From selecting the right materials to meticulous packing techniques, our team ensures that your order arrives in perfect condition.



WELL-KEPT WAREHOUSE:

Our warehouse is not just a storage space; it's a controlled environment where products are handled with precision and care. Regular maintenance routines ensure the cleanliness and orderliness of the facility.

Figure 9.2: Interior view of a well-maintained ACiQ warehouse, demonstrating careful handling and storage of products.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact ACiQ customer support. Contact information can typically be found on the manufacturer's website or on the product packaging. When contacting support, please have your model number (ACiQ-24-AC / ACiQ-24-ACL) and purchase date readily available.

10. ADDITIONAL RESOURCES

For further information, product updates, or to explore other ACiQ products, please visit the official ACiQ website:

[Visit the ACiQ Store on Amazon](#)

Related Documents - ACiQ-24-AC / ACiQ-24-ACL

 <p>ACiQ DUCTED AIR HANDLER 12K-60K UNITS INSTALLATION MANUAL</p> <p>Models Covered: ACiQ-12-AHD ACiQ-18-AHD ACiQ-24-AHD ACiQ-36-AHD ACiQ-48-AHD ACiQ-60-AHD</p> <p>VERSION DATE: 1-20-25</p>	<p>ACiQ Ducted Air Handler Installation Manual (12K-60K BTU/h)</p> <p>This installation manual from ACiQ provides detailed instructions for the safe and correct installation of Ducted Air Handler units, models 12K through 60K BTU/h. It covers essential safety guidelines, unit placement, refrigerant piping, electrical wiring, specifications, and operational testing to ensure optimal performance and system longevity.</p>																		
 <p>ACiQ Central Inverter Systems Installation Manual Safety Precautions & Installation</p> <p>Models Covered:</p> <table border="1"><thead><tr><th>AC Condensers</th><th>Outdoor Units</th><th>Outdoor Heat Pump Condensers</th></tr></thead><tbody><tr><td>ACiQ-18-AC</td><td>ACiQ-18-EHP</td><td>ACiQ-18-EHP</td></tr><tr><td>ACiQ-24-AC</td><td>ACiQ-24-EHP</td><td>ACiQ-24-EHP</td></tr><tr><td>ACiQ-36-AC</td><td>ACiQ-36-EHP</td><td>ACiQ-36-EHP</td></tr><tr><td>ACiQ-48-AC</td><td>ACiQ-48-EHP</td><td>ACiQ-48-EHP</td></tr><tr><td>ACiQ-60-AC</td><td>ACiQ-60-EHP</td><td>ACiQ-60-EHP</td></tr></tbody></table> <p>VERSION DATE: 06-28-24</p>	AC Condensers	Outdoor Units	Outdoor Heat Pump Condensers	ACiQ-18-AC	ACiQ-18-EHP	ACiQ-18-EHP	ACiQ-24-AC	ACiQ-24-EHP	ACiQ-24-EHP	ACiQ-36-AC	ACiQ-36-EHP	ACiQ-36-EHP	ACiQ-48-AC	ACiQ-48-EHP	ACiQ-48-EHP	ACiQ-60-AC	ACiQ-60-EHP	ACiQ-60-EHP	<p>ACiQ Central Inverter Systems Outdoor Unit Installation Manual</p> <p>Comprehensive installation manual for ACiQ Central Inverter Systems outdoor units, covering safety precautions, refrigerant piping, wiring, unit installation, and testing procedures for models like ACiQ-18-AC, ACiQ-24-AC, ACiQ-18-EHPB, and others.</p>
AC Condensers	Outdoor Units	Outdoor Heat Pump Condensers																	
ACiQ-18-AC	ACiQ-18-EHP	ACiQ-18-EHP																	
ACiQ-24-AC	ACiQ-24-EHP	ACiQ-24-EHP																	
ACiQ-36-AC	ACiQ-36-EHP	ACiQ-36-EHP																	
ACiQ-48-AC	ACiQ-48-EHP	ACiQ-48-EHP																	
ACiQ-60-AC	ACiQ-60-EHP	ACiQ-60-EHP																	
 <p>ACiQ EXTREME+ DUCTED AIR HANDLER (18K-60K) OWNER'S MANUAL</p> <p>Models Covered: ACiQ-18-PH ACiQ-24-PH ACiQ-36-PH ACiQ-48-PH ACiQ-60-PH</p> <p>VERSION DATE: 1-20-25</p>	<p>ACiQ Extreme+ Ducted Air Handler Owner's Manual</p> <p>Comprehensive owner's manual for the ACiQ Extreme+ Ducted Air Handler (18K-60K), covering safety precautions, parts, maintenance, and troubleshooting.</p>																		
 <p>ACiQ DUCTED AIR HANDLER 12K-60K UNITS INSTALLATION MANUAL</p> <p>Models Covered: ACiQ-12-AHD ACiQ-18-AHD ACiQ-24-AHD ACiQ-36-AHD ACiQ-48-AHD ACiQ-60-AHD</p> <p>VERSION DATE: 1-20-25</p>	<p>ACiQ Ducted Air Handler Installation Manual</p> <p>Comprehensive installation manual for ACiQ Ducted Air Handler units (12K-60K BTU/h). Covers safety, unit installation, wiring, refrigerant piping, and testing procedures for models ACiQ-12-AHD through ACiQ-60-AHD.</p>																		
 <p>ACiQ DUCTED AIR HANDLER 12K-60K UNITS INSTALLATION MANUAL</p> <p>Models Covered: ACiQ-12-AHD ACiQ-18-AHD ACiQ-24-AHD ACiQ-36-AHD ACiQ-48-AHD ACiQ-60-AHD</p> <p>VERSION DATE: 1-20-25</p>	<p>ACiQ Ducted Air Handler 12K-60K Units Installation Manual</p> <p>This installation manual provides comprehensive instructions for ACiQ Ducted Air Handler units (12K-60K BTU/h), covering safety, unit installation, refrigerant piping, wiring, specifications, and testing procedures.</p>																		

ASIG Central Heat Pump Split System

ACiQ

Owner's Manual



ACiQ-24, ACiQ-36, ACiQ-48

IMPORTANT NOTE:
Read this manual carefully before installing or operating the system. This manual contains important information for the user. Please read this manual carefully before using the product. For more information, please refer to the user manual.

[ACiQ Central Heat Pump Split System Owner's Manual & Operating Guide](#)

Comprehensive owner's manual for ACiQ Central Heat Pump Split Systems, covering safety precautions, operating conditions, features, energy saving tips, care and maintenance, and troubleshooting for models ACiQ-24, ACiQ-36, and ACiQ-48.