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› Pioneer Quantum Ultra 24000 BTU Mini-Split Air Conditioner Heat Pump User Manual

Pioneer WYT024GLSI24RL-16

Pioneer Quantum Ultra 24000 BTU Mini-Split Air Conditioner Heat Pump

MODEL: WYT024GLSI24RL-16

Brand: Pioneer

1. Product Overview

The Pioneer Quantum Ultra 24000 BTU 23 SEER2 230V High-Wall Ductless Mini-Split Air Conditioner Inverter Heat Pump is designed to provide efficient cooling and heating for your space. This full set includes both indoor and outdoor units, along with essential accessories for installation and operation. Featuring inverter technology, it offers energy-efficient performance and quiet operation.



Figure 1: Pioneer Quantum Ultra Indoor Unit

Key Features:

- **24,000 BTU Capacity:** Suitable for cooling and heating larger rooms.
- **23 SEER2 Energy Efficiency:** Provides significant energy savings.
- **Inverter Technology:** Ensures precise temperature control and reduced energy consumption.
- **High-Wall Ductless Design:** Flexible installation without extensive ductwork.
- **Heat Pump Functionality:** Offers both cooling and heating capabilities.
- **WiFi Enabled:** Allows for smart control via a mobile application.
- **Intelligent Self-Defrosting:** Enhances performance in cold conditions.
- **Factory-Installed Chassis Heater:** Improves low-ambient heating performance.

Your All-Season Assistant

Pioneer Quantum-Ultra is Your Ultimate *Climate-Capable Companion*



The image features a central white Pioneer Quantum-Ultra outdoor unit with a large fan grille. To the left, a 2x2 grid of images shows four seasons: summer (sandy dunes), winter (snowy mountains), autumn (rolling hills with trees), and spring (green fields). Above the unit, three checkmarks list features: 'Factory-Installed Chassis Heater', 'Intelligent Self-Defrosting', and 'Year-Round Operation'. To the right, three smaller images show a bathtub heater, a gold heat exchanger, and a globe with a person. Below the unit, two temperature ranges are shown: 'Ultra-Wide Range Cooling' from 5°F to 131°F and 'Ultra-Low Ambient Heating' from -13°F to 86°F.

✓ Factory-Installed Chassis Heater

✓ Intelligent Self-Defrosting

✓ Year-Round Operation

Seasons Vary.
Your Comfort Shouldn't.

Ultra-Wide Range Cooling
5°F 131°F

Ultra-Low Ambient Heating
-13°F 86°F

Figure 2: Overview of Pioneer Quantum Ultra features including WiFi, self-defrosting, and year-round operation.

2. Setup and Installation

This mini-split system is provided as a full set, including the indoor unit, outdoor unit, wireless remote control, remote control wall holder, remote control batteries, customizable length copper lines, and customizable length electrical wire. Professional installation by a licensed HVAC technician is highly recommended to ensure proper setup, refrigerant handling, and warranty validity.

Included Components:

- Indoor Unit
- Outdoor Unit
- Wireless Remote Control
- Remote Control Wall Holder
- Remote Control Batteries
- Customizable Length Copper Lines
- Customizable Length Electrical Wire
- WiFi Enabled USB Module

Intelligent and Programmable from the moment you turn it on!

- Accessible Through Phone
- Built-In WiFi
- Control Temperature/Fan Speed
- Schedule With Timer
- Change Precision Air Flow

works with Google Assistant

JUST ASK alexa

Siri

airlink

Figure 3: Pioneer Quantum Ultra Outdoor Unit

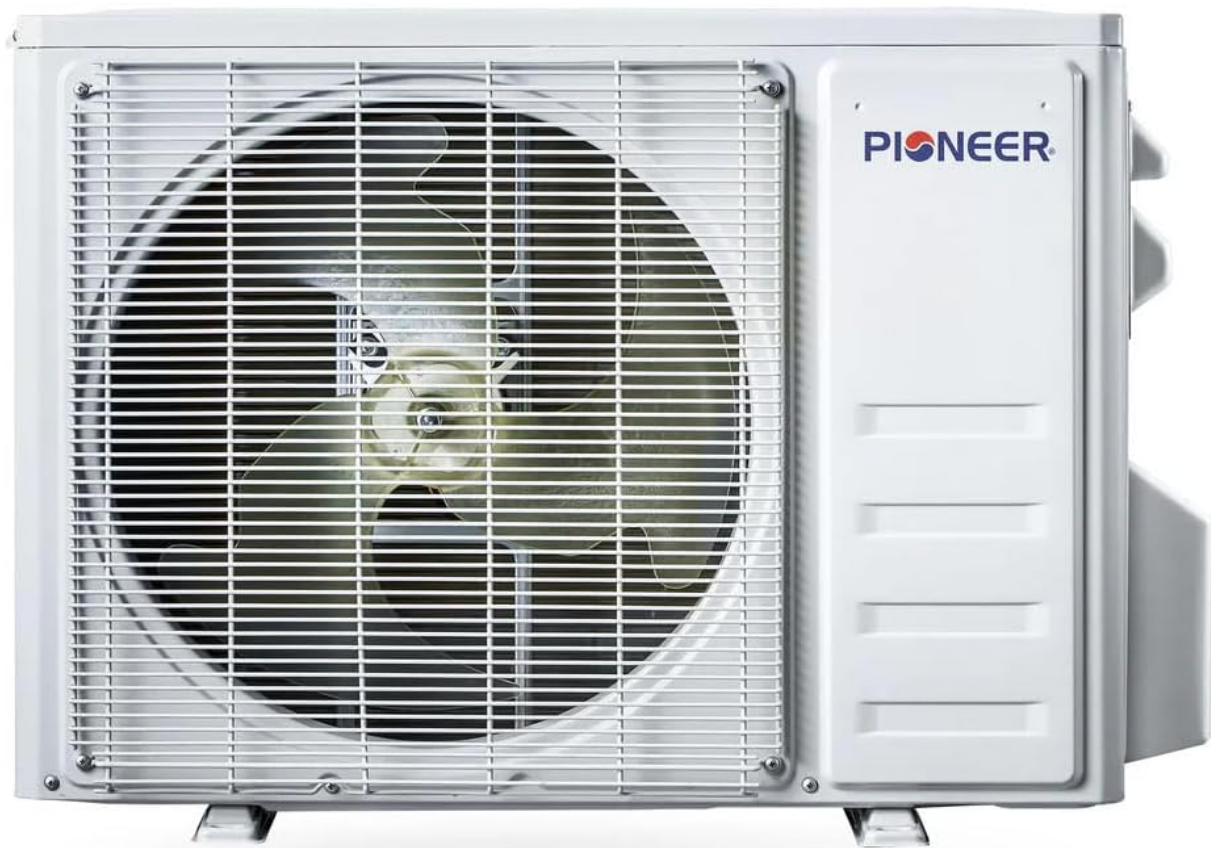


Figure 4: Included installation components such as copper lines and electrical wire.

Electrical Requirements:

The system operates on 230 Volts. Ensure your electrical system can support this requirement. Consult a qualified electrician for any necessary electrical upgrades or connections.

WiFi Module Installation:

The system includes a WiFi enabled USB module for smart control. Insert the module into the designated port on the indoor unit as per the detailed instructions in the complete user manual. Download the compatible mobile application to connect and control your unit remotely.



Figure 5: WiFi USB module for smart control.

General Product Overview Video:

Video 1: A general overview of a 24000 BTU mini-split air conditioner, demonstrating its features and operation. Note: This video is from a different brand (Costway) but provides a useful visual reference for similar mini-split systems.

3. Operating Instructions

The Pioneer Quantum Ultra mini-split system can be operated using the included wireless remote control or via the mobile application once the WiFi module is installed and configured.

Using the Wireless Remote Control:

The remote control provides full functionality to manage your unit. Ensure batteries are inserted correctly. Point the remote towards the indoor unit when operating.



Figure 6: Wireless remote control for the Pioneer Quantum Ultra mini-split.

- **Power On/Off:** Press the power button to turn the unit on or off.
- **Mode Selection:** Cycle through modes like Cool, Heat, Fan, Dry, and Auto.
- **Temperature Adjustment:** Use the up/down arrows to set your desired temperature.
- **Fan Speed:** Adjust the fan speed (Low, Medium, High, Auto).
- **Swing Function:** Control the vertical airflow direction.
- **Timer:** Set a timer for automatic on/off operation.
- **Sleep Mode:** Optimizes settings for comfortable sleep and energy saving.
- **ECO Mode:** Activates energy-saving operation.
- **Turbo Mode:** Provides rapid cooling or heating.
- **LED Display:** Turn the indoor unit's display on or off.
- **Clean Function:** Initiates a self-cleaning cycle for the indoor unit.

Smart Control via Mobile App:

With the WiFi module installed, download the compatible Pioneer mobile application from your device's app store. Follow the in-app instructions to pair your device with the mini-split unit. The app allows for remote control of all functions, scheduling, and monitoring.

4. Maintenance

Regular maintenance ensures optimal performance and longevity of your Pioneer mini-split system. Always turn off the power to the unit before performing any maintenance.

Filter Cleaning:

The air filters in the indoor unit should be cleaned regularly (e.g., monthly, or more frequently depending on usage and air quality). Refer to the full manual for detailed instructions on how to access and clean the filters.

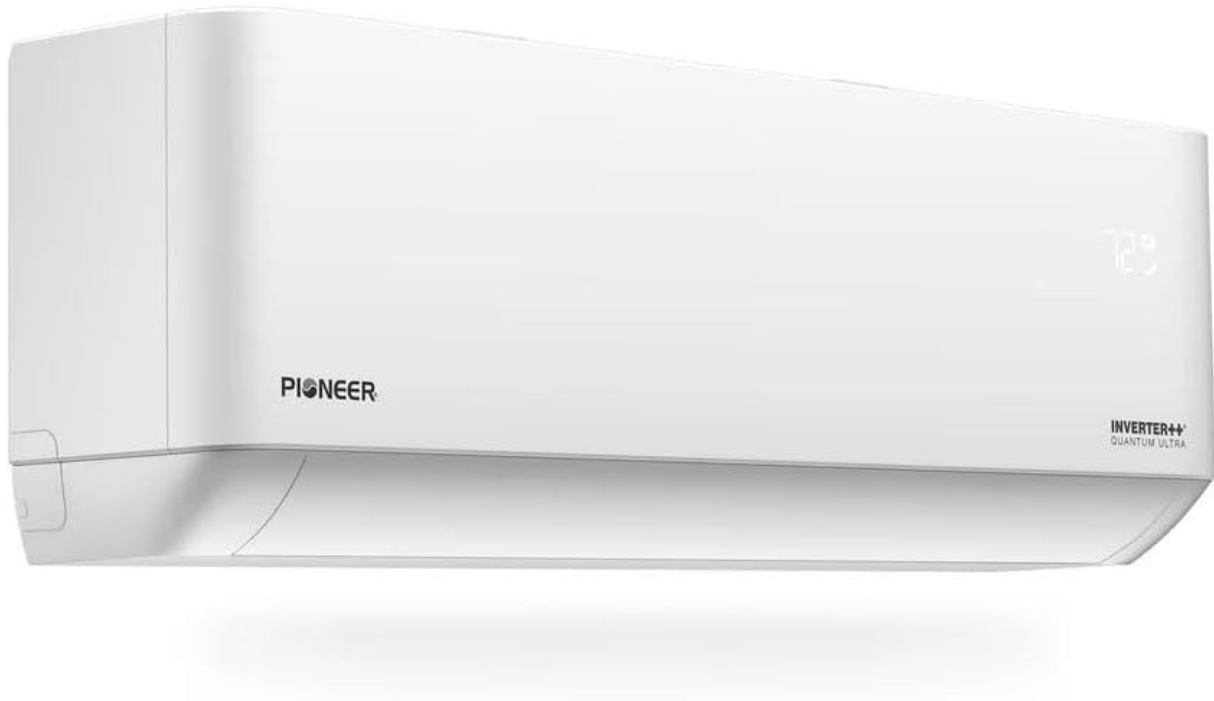


Figure 7: Indoor unit showing potential filter access area.

Intelligent Self-Defrosting:

The outdoor unit is equipped with intelligent self-defrosting to prevent ice buildup on the coils during heating operation in cold weather. This process is automatic and helps maintain heating efficiency.

General Cleaning:

Wipe the exterior of both indoor and outdoor units with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

5. Troubleshooting

If you encounter issues with your mini-split system, refer to the comprehensive troubleshooting guide in your full user manual. Common issues and their solutions are typically covered there. For persistent problems or complex repairs, contact a qualified HVAC technician.

Common Issues May Include:

- Unit not turning on.
- Insufficient cooling or heating.
- Unusual noises.
- Water leakage.

- Error codes displayed on the indoor unit.

Always ensure the power supply is stable and filters are clean before troubleshooting.

6. Specifications

Feature	Detail
Brand Name	Pioneer
Model Name	WYT024GLSI24RL-16
Item Weight	135 pounds
Product Dimensions	8.75"D x 43.13"W x 13"H
Capacity	2 Tons (24000 BTU)
Cooling Power	24000 British Thermal Units
Noise Level	34 Decibels
Special Feature	WiFi Enabled
Voltage	230 Volts
Wattage	2000 Watt-hours

7. Warranty and Support

For detailed information regarding the product warranty, please refer to the official warranty documentation included with your Pioneer Quantum Ultra mini-split system. It is crucial to register your product and adhere to all installation guidelines, including professional installation by a licensed HVAC technician, to ensure warranty validity.

For technical support, service inquiries, or to obtain replacement parts, please consult the contact information provided in your product manual or visit the official Pioneer website. Always provide your model number (WYT024GLSI24RL-16) and purchase date when seeking support.