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› [GAOMON](#) /

› [GAOMON 24000 BTU 19 SEER2 Mini Split AC System User Manual](#)

GAOMON PHO_163

GAOMON 24000 BTU 19 SEER2 Mini Split AC System User Manual

Brand: GAOMON | Model: PHO_163

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GAOMON 24000 BTU 19 SEER2 Mini Split AC System. This high-performance inverter system offers efficient cooling and heating for spaces up to 1500 sq.ft, featuring Wi-Fi connectivity, remote control, and low-noise operation. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: GAOMON 24000 BTU Mini Split AC System

2. SAFETY INFORMATION

WARNING: Professional installation is required for this system. Improper installation can lead to electric shock, fire, or serious injury.

- Always ensure the power supply is disconnected before performing any installation or maintenance.
- Wear appropriate personal protective equipment (PPE) during installation, including safety glasses, gloves, and a helmet if working at heights.
- Ensure all electrical connections comply with local codes and regulations.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Keep children and pets away from the unit during operation and maintenance.

Your browser does not support the video tag.

Video 1: This video provides an overview of the installation process for the Mini Split AC Unit, highlighting necessary tools and safety precautions.

3. PACKAGE CONTENTS

The GAOMON Mini Split AC system is shipped in two packages. Please verify all components are present upon delivery:

- 1 x Outdoor Unit
- 1 x Indoor Unit
- 1 x 13 ft Copper Connection Pipe - Air Pipe
- 1 x 13 ft Copper Connection Pipe - Liquid Pipe
- 1 x 6.5 ft Drain Hose
- 1 x 13 ft Communication Wires
- 1 x Remote Control
- 1 x User Guide

Note: Shut-off valves housing and side protection grille are excluded. The air filter is washable and easy to clean.

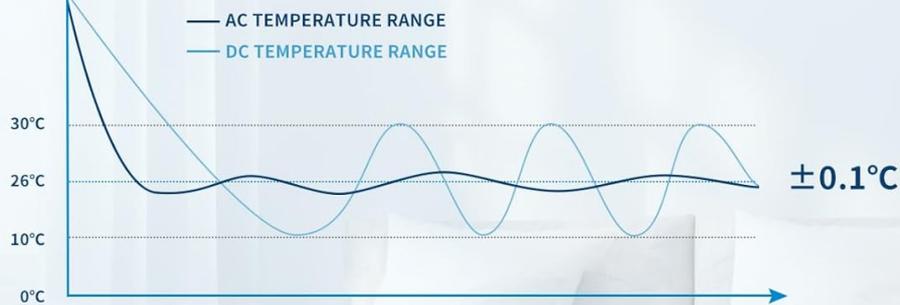
HIGH EFFICIENCY INVERTER COMPRESSOR

Innovative Integrated Structure Multi-stage Motor, Service Life Up To 20 Years

AHRI



0.1°C PRECISE TEMPERATURE CONTROL



AI intelligent sensing of the ambient temperature, energy saving more than 25%

Figure 2: Visual representation of the components included in the GAOMON Mini Split AC package.

4. SPECIFICATIONS

Feature	Value
Model Number	PHO_163
Product Dimensions	42.87 x 22.44 x 39.37 inches
Item Weight	82 pounds
Brand	GAOMON
Form Factor	Mini-Split
Capacity	1500 Cubic Feet
Floor Area Coverage	Up to 1500 Square Feet
Voltage	230 Volts
Noise Level	42 Decibels
Cooling Power	24000 British Thermal Units (BTU)
Seasonal Energy Efficiency Ratio (SEER)	19
Special Features	Auto Clean, Heating & Cooling Function, Silent Mode, Sleep Mode, WiFi Enabled

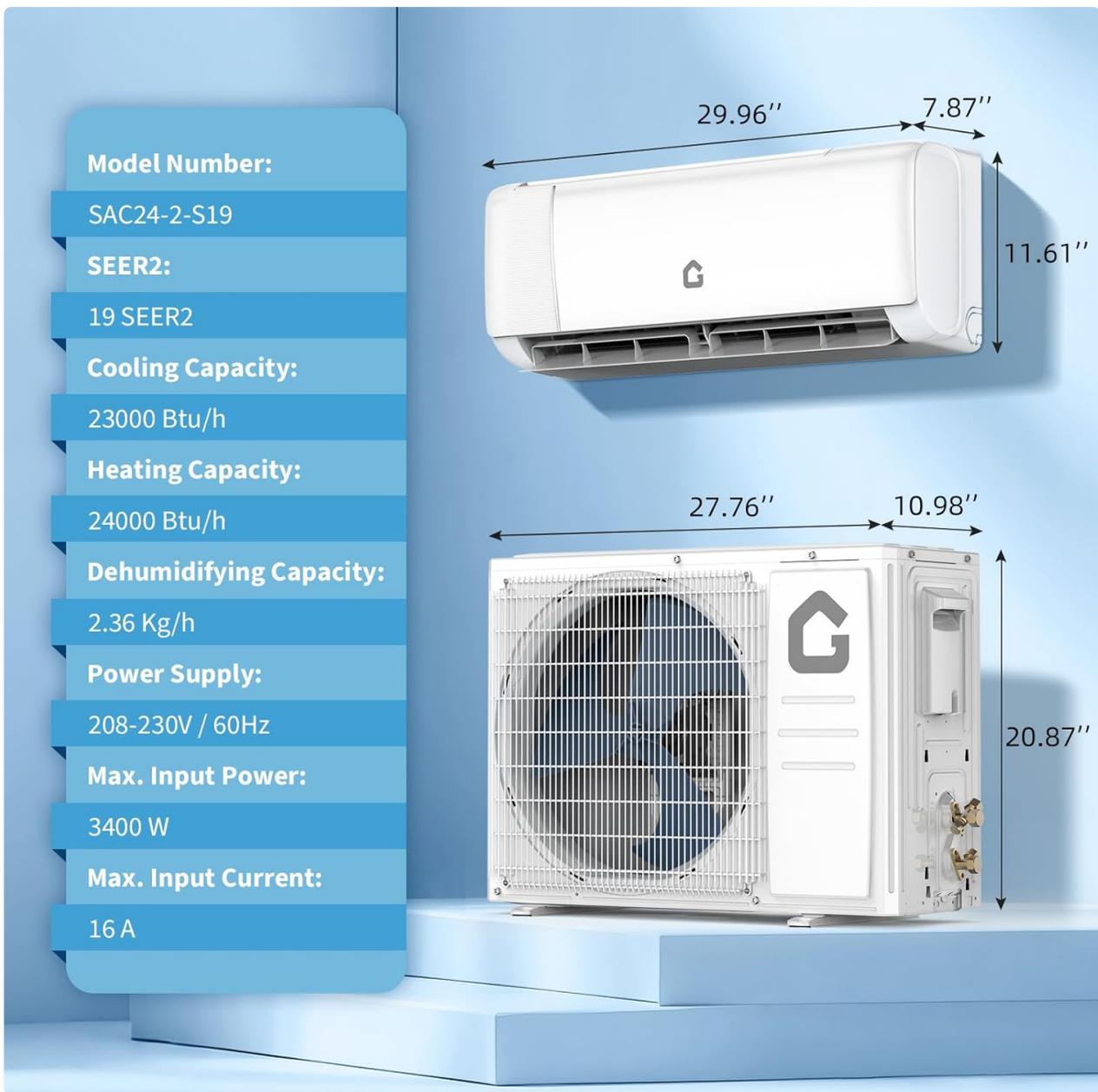


Figure 3: Detailed dimensions and key specifications of the GAOMON Mini Split AC System.

5. INSTALLATION GUIDE

Professional installation is strongly recommended for this appliance.

5.1. Preparation

Required Tools and Materials

- Hole saw
- Multimeter
- Pipe cutter
- Hex wrenches
- Refrigerant (R410A)
- Torque wrench
- Adjustable wrench

- Tape measure
- Pressure gauge
- Safety belt (for high installations)
- Flaring tool
- Bracket (for outdoor unit)
- Level
- Phillips screwdriver
- Electroprobe
- Vacuum pump
- Pliers
- Copper tube (if extending lines)

Environmental Checks

- Ensure there is no heat source or steam source near the installation area.
- Avoid obstructions around the inlet and outlet of both indoor and outdoor units.
- The area should be free from smoke or oil.
- Do not install in areas with flammable or explosive gas, or corrosive gas.

5.2. Indoor Unit Installation

Select Installation Location

- The wall for the indoor unit must be hard, flat, and firm to prevent vibration and noise.
- Maintain a minimum clearance of 15cm to the ceiling.
- Maintain a minimum clearance of 20cm to obstacles on either side.
- The unit should be installed between 230-260cm from the floor.

Fix Mounting Plate

Place the mounting plate on the wall and use a level to ensure it is horizontal. Select the position for at least 5 screws to firmly fix the plate.

Drill Wall Hole

After determining where the pipe will go through the wall, drill a wall hole. The wall hole should be inclined outward by 5-10 degrees, with a diameter of 60-80mm. Use an anti-dust bag to avoid dust when drilling.

Install Connection Cable

Pass the power cable out from the back of the indoor unit and fix it on the terminal board. Fix the cable with a clamp. Remove the knock-out panel with a knife and remove burrs to prevent the drain pipe from being broken.

Connection of Refrigerant Piping

Use both hands to turn the pipe in the desired direction. Aim at the pipe center, tighten the taper nut with fingers, then tighten with two wrenches. Use a torque wrench for precise tightening according to the pipe size (refer to the table in the installation video).

Install the Drain Hose

Connect the drain hose with the water outlet pipe, and fix it firmly with adhesive tape. The length should be more than 5cm to prevent water leakage.

Wrap the Piping

Wrap the refrigerant piping, wires, and drain pipe with wrapping tape.

Mount Indoor Unit

Put the refrigerant piping out of the wall hole. Put the indoor unit on the mounting plate. Push the lower part of the indoor unit until a 'click' sound is heard to ensure it is firmly fixed to the wall.

Pipe Protecting Ring and Putty

To protect piping and wires, a pipe protecting ring shall be installed and sealed with putty.

5.3. Outdoor Unit Installation

Select Installation Location

The outdoor unit must be installed in a firm and flat place to prevent vibration and noise.

- Maintain a minimum clearance of 20cm to the obstruction above.
- Maintain a minimum clearance of 30cm to obstacles on the left and right sides.
- Maintain a minimum clearance of 10cm for air intake on the right side.
- Maintain a minimum clearance of 200cm for air exhaust in front.

Install Outdoor Unit Bracket

If installing the air conditioner in a higher place, the operator should wear a safety belt and helmet. Use a level to ensure the bracket is horizontal and vertical. Use at least 6 expansion bolts to make sure brackets are fixed firmly on the wall.

Fix Outdoor Unit

Put the outdoor unit onto the brackets. Use 4 screws to fix the feet of the outdoor unit.

Connect Refrigerant Piping

Remove the nut from the stop valves. Aim at the pipe center of the stop valve, tighten the taper nut with fingers, then tighten with two wrenches. Screw the 2 caps back on. Use a torque wrench for precise tightening according to the pipe size (refer to the table in the installation video).

Vacuuming

Before vacuuming, check all the nuts of the indoor and outdoor unit are tightened. Connect the stop valve, charging hose, manifold valve, and vacuum pump as shown in the diagram (refer to the installation video). Turn on handle Lo to vacuumize. Vacuumize for at least 15 minutes, making sure the value on the pressure gauge is ≤ 0.1 MPa. Keep pressure for 3-5 minutes after vacuumizing, ensuring pressure springback is ≤ 0.05 MPa. Open the 1/4 liquid valve, and remove the charging hose.

Fix Cables

Remove the electrical box cover. Fix cables to the terminal board according to the wiring diagram on the E-

parts cover. Must follow the wiring diagram inside the box cover. Use a clamp to fix cables. Put the electrical box cover back.

Refrigerant Adjustment

When the length of the connecting pipe is changed, an extra amount of refrigerant may need to be added or reduced to ensure optimal operation and performance.

Length of connection pipe	Added or reduced refrigerant	Amount of refrigerant for the unit
<3m	CC≤12000Btu: reduce 20g/m	≤1Kg
	CC≥18000Btu: reduce 50g/m	≤2Kg
3-5m	Not needed	-
5-15m	CC≤12000Btu: add 20g/m	≤1Kg
	CC≥18000Btu: add 30g/m	≤2Kg

Your browser does not support the video tag.

Video 2: This video demonstrates the complete installation process for the Mini Split AC Unit, including both indoor and outdoor components.

6. OPERATING INSTRUCTIONS

6.1. Remote Control Functions

The backlit LCD remote controller allows effortless system control. Key functions include:

- **Cool Mode:** For rapid cooling.
- **Heat Mode:** For rapid heating.
- **Dry Mode:** One-key drying mode to quickly reduce indoor humidity.
- **Fan Only:** Low, Mid, High, Turbo 4 wind speeds with 50ft long distance air flow.
- **Auto Mode:** Automatically selects operating mode based on ambient temperature.
- **Display On/Off:** Controls the unit's display.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep and quiet operation (41 dB).
- **ECO Energy Saving Mode:** Optimizes operation for reduced energy consumption.
- **HEALTH Mode:** Activates negative ions, electrostatic dust removal, and PM2.5 removal.
- **iFEEL Mode:** Senses temperature at the remote control's location for precise comfort.
- **24-hour Timer:** Schedule on/off times.
- **4D Auto Swing:** Ensures even air distribution.

ALL-IN-ONE MULTIFUNCTIONAL REMOTE CONTROL



COOLING:
30S Fast Cooling



HEATING:
60S Fast Heating



DRY:
One-key drying mode
to quickly reduce indoor humidity



FAN ONLY:
Low / Mid / High / Turbo 4 Wind Speeds,
50ft Long Distance Air Flow



Display On/Off



Sleep



ECO Energy Saving



Self-Cleaning



°C/°F



24H Timer



4D Auto Swing



Figure 4: Overview of the remote control and its various functions.

6.2. Wi-Fi Setup and Smart Control

The unit is Wi-Fi enabled and Google-compatible, allowing control via a smartphone app.

Your browser does not support the video tag.

Video 3: This video demonstrates the process of setting up Wi-Fi connectivity for your Mini Split Air Conditioner, enabling smart control via an app.



Figure 5: The mobile application interface for intelligent control of the AC unit, compatible with Amazon Alexa and Google Assistant.

7. MAINTENANCE

7.1. Air Filter Cleaning

The air filter is washable and easy to clean. Regular cleaning of the air filter is essential for maintaining optimal performance and air quality. Refer to the full user guide for detailed instructions on how to remove, clean, and reinsert the air filter.

7.2. Self-Cleaning Function

The unit features an automatic defrosting and self-cleaning function to maintain internal hygiene and efficiency. This includes a 57°C high-temperature self-cleaning and sterilization process.

57 °C HIGH TEMPERATURE SELF-CLEANING & STERILIZATION

Enjoy Fresh Air All The Time



Figure 6: Illustration of the 57°C high-temperature self-cleaning and sterilization process.

8. TROUBLESHOOTING

If you encounter any issues with your GAOMON Mini Split AC System, please refer to the following common problems and solutions before contacting customer support:

- **Unit not turning on:** Check power supply, circuit breaker, and ensure the remote control has working batteries.
- **No cooling/heating:** Verify the correct mode is selected, check temperature settings, and ensure air filters are clean.
- **Unusual noise:** Check for loose parts, obstructions in the fan, or improper installation of the outdoor unit.
- **Water leakage:** Ensure the drain hose is properly installed and sloped, and not blocked.
- **Remote control missing:** If the remote control is missing, contact customer support for a replacement.
- **Wi-Fi connectivity issues:** Ensure your Wi-Fi network is 2.4GHz, check router settings, and follow the app's troubleshooting steps.

For more complex issues or if the problem persists, please contact GAOMON customer support.

9. WARRANTY AND SUPPORT

The GAOMON 24000 BTU 19 SEER2 Mini Split AC System comes with **aLifetime Warranty**. For warranty claims, technical support, or any questions regarding your product, please refer to the contact information provided in your purchase documentation or visit the official GAOMON website.