

[Manuals.plus](#) /

› [KoolSiln](#) /

› KoolSiln 14,000 BTU Portable Air Conditioner Instruction Manual (Model HAC-902)

## KoolSiln HAC-902

# KoolSiln 14,000 BTU Portable Air Conditioner Instruction Manual (Model HAC-902)

## 1. INTRODUCTION AND OVERVIEW

The KoolSiln 14,000 BTU Portable Air Conditioner (Model HAC-902) is designed to provide efficient cooling, dehumidification, and fan-only operation for spaces up to 700 sq.ft. This unit features eco-friendly R32 refrigerant, low-noise operation, and an auto-evaporation system for enhanced convenience.

Key features include:

- **Fast Cooling:** 14,000 BTU capacity with a 77° wide-angle air outlet, capable of cooling rooms from 90°F to 61°F quickly.
- **Quiet Operation:** Noise levels as low as 48dB, ideal for bedrooms and offices.
- **3-in-1 Functionality:** Offers Cooling, Fan, and Dehumidifier modes.
- **Auto-Evaporation Technology:** Converts 80% of excess water into cool air, reducing the need for frequent manual drainage.
- **User-Friendly Controls:** Features an LED display, touch control panel, and a remote control with a 23ft range.
- **Portability:** Equipped with 360° swivel wheels and dual handles for easy movement between rooms.
- **Removable Air Filter:** For easy cleaning and maintaining air quality.

## 2. SETUP AND INSTALLATION

The KoolSiln portable air conditioner is designed for hassle-free installation in minutes, requiring no drilling. It is suitable for most vertical and horizontal sliding windows (20.47"-67").

### Included Accessories:

Before starting, ensure all accessories are present:

- Portable AC Unit
- Exhaust Hose
- Window Slider Panel (3 pieces)

- Hose Inlet and Outlet Connectors
- Sealing Foam Tape (2 rolls)
- Remote Control (with 2 AAA batteries)
- Mounting Screw Accessories
- Drainage Hose
- User Manual



Figure 1: All accessories included with the KoolSiln Portable Air Conditioner.

### Installation Steps:

1. **Prepare the Window Kit:** Assemble the window slider panels to match the width or height of your window opening. Use the provided screws to fix the panels together, but do not overtighten initially.
2. **Attach Hose Connectors:** Connect the hose inlet and hose outlet connectors to each end of the exhaust hose.
3. **Connect Exhaust Hose to AC:** Insert the hose inlet connector into the designated port on the back of the portable AC unit.
4. **Install Window Kit:** Place the assembled window slider kit into your window opening. Close the window to secure the panel in place. For optimal sealing, apply the sealing foam tape around the edges of the window kit to prevent air leakage and insect entry.
5. **Connect Exhaust Hose to Window Kit:** Insert the hose outlet connector into the opening on the window slider panel.
6. **Power On:** Plug the AC unit into a grounded electrical outlet.



Figure 2: Visual guide for installing the window kit and exhaust hose.

Video 1: This video demonstrates the step-by-step process of installing the KoolSiln Portable Air Conditioner, including attaching the exhaust hose and setting up the window kit.

### 3. OPERATING INSTRUCTIONS

The KoolSiln Portable Air Conditioner can be operated using the touch control panel on the top of the unit or the included remote control.

#### Control Panel and Remote:

The control panel features touch-sensitive buttons for power, mode selection, fan speed, temperature/humidity adjustment, timer, and child lock. The remote control duplicates these functions and also includes a dedicated 'Turbo' mode button.

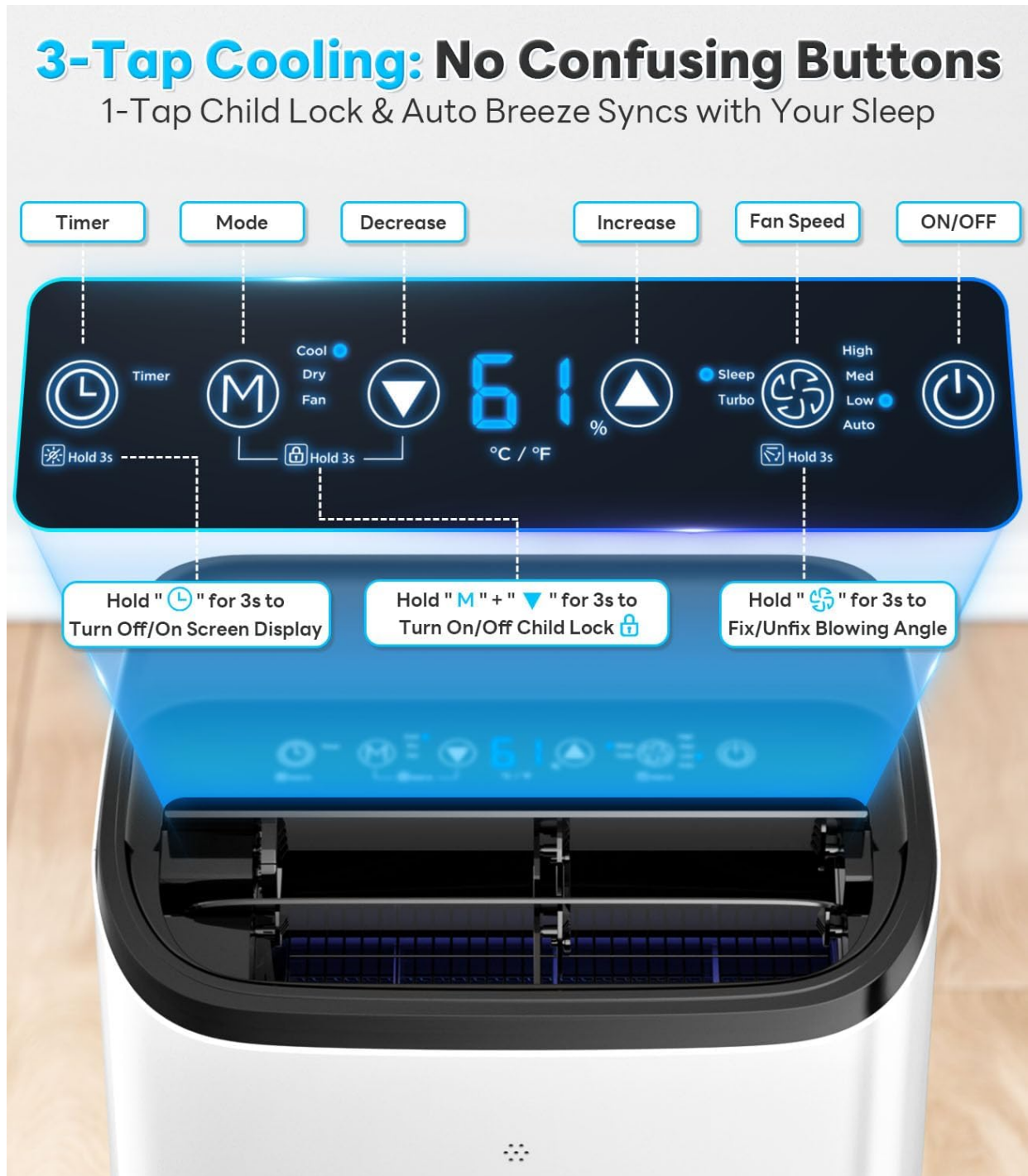






Figure 3: The unit's control panel with touch buttons and the remote control for convenient operation.

#### Basic Operation:

- **Power On/Off:** Press the power button (🔌) to turn the unit on or off. When turning off, the unit will have

a 20-second timer to wind down the compressor before fully shutting off and closing the louvers.

- **Mode Selection:** Press the 'Mode' button (M) to cycle through Cooling, Dry (Dehumidifier), and Fan modes.
- **Temperature/Humidity Adjustment:** Use the Up  and Down  arrows to set your desired temperature (in Cooling mode) or humidity level (in Dry mode). Temperature ranges from 61°F to 90°F. Humidity levels range from 30% to 70% in 5% increments.
- **Fan Speed:** Press the 'Fan Speed' button  to select High, Medium, Low, or Auto fan speed. In Fan mode, temperature control is not available, but fan speed can be adjusted.
- **Timer:** Press the 'Timer' button  to set an auto-on or auto-off time from 0.5 to 24 hours.

Video 2: This video explains the functions of each button on the KoolSiln AC unit's control panel and remote, guiding users on how to operate the device correctly.

## 4. MODES AND FEATURES

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### Cooling Mode:

Provides powerful 14,000 BTU cooling, quickly lowering room temperatures. The unit can cool a room from 90°F to 61°F in approximately 15 minutes. The Turbo mode (accessible via remote) sets the unit to its lowest temperature (61°F) and highest fan speed for rapid cooling.

# Feel the Cooling **30% Faster**

77° Wide-Angle Vortex Flow Reaches Every Corner

14000

BTU

Fast Cooling

700

Sq.Ft

Covered Area

450

m<sup>3</sup>/h

Max Air Flow

## Why can our air outlet achieve a quicker speed?

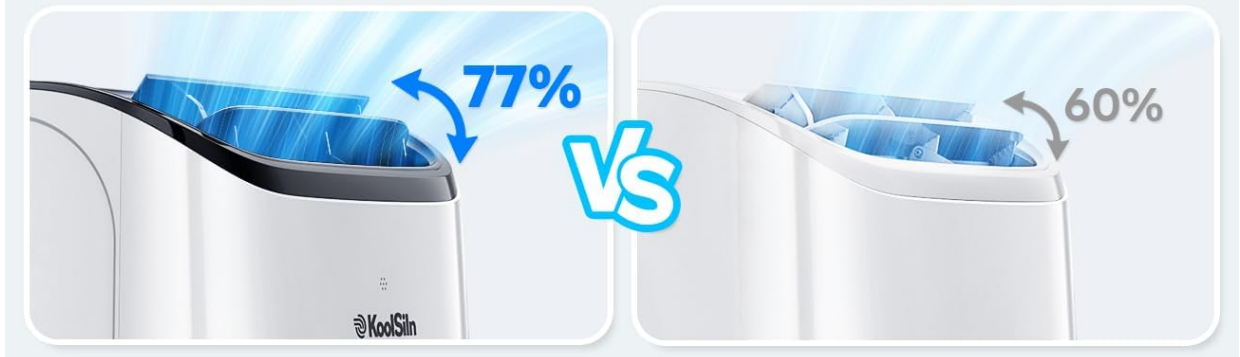


Figure 4: Illustrates the fast cooling capability of the 14,000 BTU unit, covering up to 700 sq.ft.

### **Dry (Dehumidifier) Mode:**

Effectively removes excess moisture from the air. The 360° Auto-Evaporation Technology converts 80% of the collected water into cool air, significantly reducing the need for manual drainage. For continuous dehumidification, it is recommended to connect the drainage hose to the main drain outlet on the back of the unit, leading to a bucket or floor drain.

# 153,000+\* Hot Nights Solved

Silent Cooling for Rooms & Nighttime Work

## 5x Faster Cooling with Higher BTU

Enhanced Compressor  
Achieves 14000BTU Cooling in 150s Flat



## No More Midnight Breakdowns

Triple Protection System  
Prevents 99.6% Overload Risks



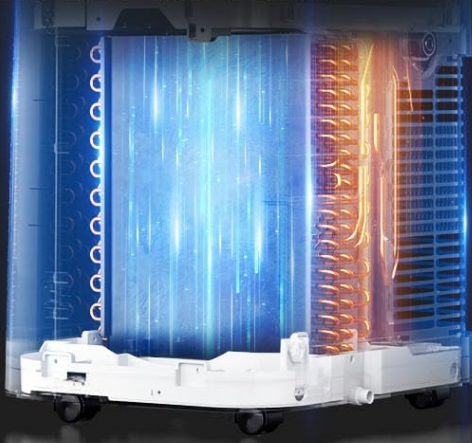
## Quieter Than Your Desk Fan

SerenityDrive™: 10% Noise Reduction for Sleep



## Built to Last for Years

7mm Copper Condenser  
Survived 15,000+ Hours Stress Test



## Save \$200+/Year

CEC/DOE Certified  
30% Higher Efficiency with ECO Mode



DOE

\*Calculated from smart home device engagement rates frequency

Figure 5: Diagram showing the internal auto-evaporation system that minimizes manual drainage.

### Fan Mode:

Circulates air without cooling or dehumidifying. Fan speed can be adjusted to High, Medium, Low, or Auto. In Auto mode, the unit intelligently switches between cool and fan modes based on room temperature (cool mode above 77°F, fan mode below 73°F).

### Sleep Mode:

Designed for minimal disturbance during sleep. In Sleep mode, the display dims, fan noise is reduced, and the unit maintains your ideal temperature quietly. This mode operates at a low noise level of 48dB.

# Quiet Night's Sleep Even with the AC On

Equipped with Upgrade Noise Reduction Tech



## Sleep Mode

Low noise for better Sleep



## 24H Timer

Slash unneeded energy use

# 10%

Noise Reduced\*


KoolSiln

**Advanced acoustic insulation technology**

\*Tested by Koolsiln Lab and Compared with Traditional Compressor

Figure 6: Highlights the quiet operation in Sleep Mode, featuring noise reduction technology.

## Child Lock:

To activate the child lock, press and hold the 'Mode' button (M) and the Down arrow  simultaneously for 3 seconds. This will lock the control panel buttons. To deactivate, repeat the same action.

## 5. MAINTENANCE

### Cleaning the Air Filter:

The KoolSiln AC unit features a removable and washable mesh air filter located on the back of the unit. Regular cleaning ensures optimal performance and air quality.

1. **Remove Filter:** Gently pull out the filter screen from the back of the unit.
2. **Clean Filter:** Use a vacuum cleaner to remove dust and debris. For heavily soiled filters, wash with warm water and mild detergent. Rinse thoroughly.

3. **Dry Filter:** Allow the filter to air dry completely before reinserting.
4. **Reinstall Filter:** Slide the clean, dry filter back into its slot on the unit.

It is recommended to clean the air filter bi-weekly, or more frequently depending on usage and air quality.

## Smart Tech & Effortless Comfort

### Precision Cooling Tech Maintains Your Ideal Temp All Day

**LED Display & Control Panel**  
Easily adjust temperature, fan speed, mode, etc



**22.5ft Remote Control**  
Adjust settings remotely with ease



**Built-in Carry Handle**  
Carry the portable AC easily



**360° Swivel Casters**  
Moves easily in any direction



**Removable Washable Filter**  
Keep air clean, fresh & boost comfort



**2 Ways of Drainage**  
Sustainable drainage for stable AC running



Figure 7: Shows the removable and washable air filter for easy maintenance.

### Draining the Unit:

While the auto-evaporation feature reduces manual drainage, it may still be necessary, especially in high-humidity environments or when using Dry mode.

- **Manual Drainage:** If the unit's internal water tank becomes full, an 'F1' error code will appear on the display, and the unit will shut off. To drain, locate the bottom drain outlet on the back of the unit, remove the cap, and allow the water to flow into a suitable container. Reinsert the cap once drained.
- **Continuous Drainage (Dry Mode):** For continuous operation in Dry mode, connect the provided drainage hose to the main drain outlet (located higher on the back of the unit) and ensure the other end is placed lower than the outlet, leading to a floor drain or large bucket.

## Intelligent Auto - adjustment Drainage Design

2 different types of drainage for every need



Figure 8: Illustrates the two drainage options: bottom drainage for manual emptying and middle drainage for continuous operation with a hose.

## 6. TROUBLESHOOTING

- **Unit Not Turning On:** Check if the power cord is securely plugged into a grounded outlet. Ensure the unit is not displaying an 'F1' error code (indicating a full water tank).
- **'F1' Error Code:** This indicates the internal water tank is full. Turn off the unit, drain the water using the bottom drain outlet, and then restart the unit.
- **Insufficient Cooling:** Ensure all windows and doors are closed. Check if the exhaust hose is properly installed and sealed. Clean the air filter if it's dirty. Verify the temperature setting is appropriate for the room size. Ensure the unit is placed at least 20 inches away from walls and other objects to allow proper airflow.
- **Unusual Noise:** Check for any obstructions in the air intake or exhaust vents. Ensure the unit is on a flat, stable surface.
- **Remote Control Not Working:** Check and replace the AAA batteries in the remote control. Ensure there are no obstructions between the remote and the AC unit's receiver.

For further assistance, please contact KoolSiln customer support via Amazon.

## 7. SPECIFICATIONS

<b>Brand</b>	KoolSiln
<b>Model Name/Number</b>	HAC-902
<b>Cooling Power</b>	14,000 British Thermal Units
<b>Coverage Area</b>	Up to 700 Sq.Ft
<b>Special Features</b>	Air Conditioner & Fan & Dehumidifier, Child Lock, Fast Cooling, Sleep Mode
<b>Product Dimensions</b>	18.1"D x 16.61"W x 34.65"H
<b>Item Weight</b>	72 Pounds
<b>Color</b>	White
<b>Voltage</b>	115 Volts
<b>Wattage</b>	1800 watts

<b>Noise Level</b>	44 Decibels
<b>Refrigerant</b>	R-32
<b>Filter Type</b>	Mesh Filter
<b>Installation Type</b>	Window
<b>Controller Type</b>	Remote Control, Touch Control

## 8. WARRANTY AND SUPPORT

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The KoolSiln Portable Air Conditioner comes with a **1-year manufacturer's warranty**. Additionally, KoolSiln offers a **30-day money-back guarantee** and **lifetime technical support**.

For any issues, questions, or technical assistance, please contact KoolSiln customer support via the Amazon platform.