

Innovair WIN12H1V51

Innovair Air Conditioner Inverter Ductless Wall Mount Mini Split System User Manual

Model: WIN12H1V51

1. INTRODUCTION

Thank you for choosing the Innovair Air Conditioner Inverter Ductless Wall Mount Mini Split System. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new air conditioning unit. Please read this manual thoroughly before installation and use, and keep it for future reference. This system is designed to provide both cooling and heating, offering a versatile solution for various indoor environments. Its inverter technology ensures high efficiency and consistent performance.



Can be installed for multiple types of rooms. No ductwork needed!

- Bedrooms
- Living Rooms
- Garages
- Attics/Basements
- Indoor Gardens
- Storage Units
- Security Huts
- Food Trucks
- Computer Server Rooms
- Offices
- Small Stores
- Mobile Homes

Figure 1.1: Versatile applications of the Innovair Mini Split System, suitable for server rooms, indoor gardens, garages, and commercial spaces.

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Video 1.1: An overview of Innovair systems, demonstrating their application in various HVAC solutions, including maintaining optimal temperatures in diverse environments.

2. SAFETY INFORMATION

For your safety and to prevent damage to the unit, please observe the following precautions:

- **Electrical Safety:** Ensure the unit is connected to a properly grounded 230V power supply. Do not use extension cords.
- **Installation:** Installation must be performed by qualified personnel in accordance with all local and national electrical codes.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Refrigerant:** This unit uses R410A refrigerant. Do not attempt to service the refrigerant system yourself.
- **Clearance:** Maintain adequate clearance around both indoor and outdoor units for proper airflow.
- **Children:** Keep children away from the unit and remote control.

- **Flammable Materials:** Do not place flammable materials near the unit.

3. PRODUCT OVERVIEW

The Innovair Mini Split System consists of an indoor unit, an outdoor unit, and a remote control, along with an installation kit.



Figure 3.1: Main components of the Innovair Mini Split System, showing the indoor unit, outdoor unit, remote control, and included installation accessories.

Key Features:

- **High Efficiency Inverter Technology:** AHRI certified, providing energy savings.
- **Multiple Operating Modes:** Includes Turbo Cool, Sleep Mode, Dehumidifier, and Hyper Heat.
- **Dual Functionality:** Operates in both AC cooling and Heat Pump heating modes.
- **Ready to Install:** Comes with a 16FT installation kit and is pre-charged up to 25FT.
- **Multiple Protections:** Features Gold-Fin Outdoor coating for durability and a Multi-Layer Filter for improved air quality.
- **WiFi Enabled:** Allows for smart control via a mobile application.

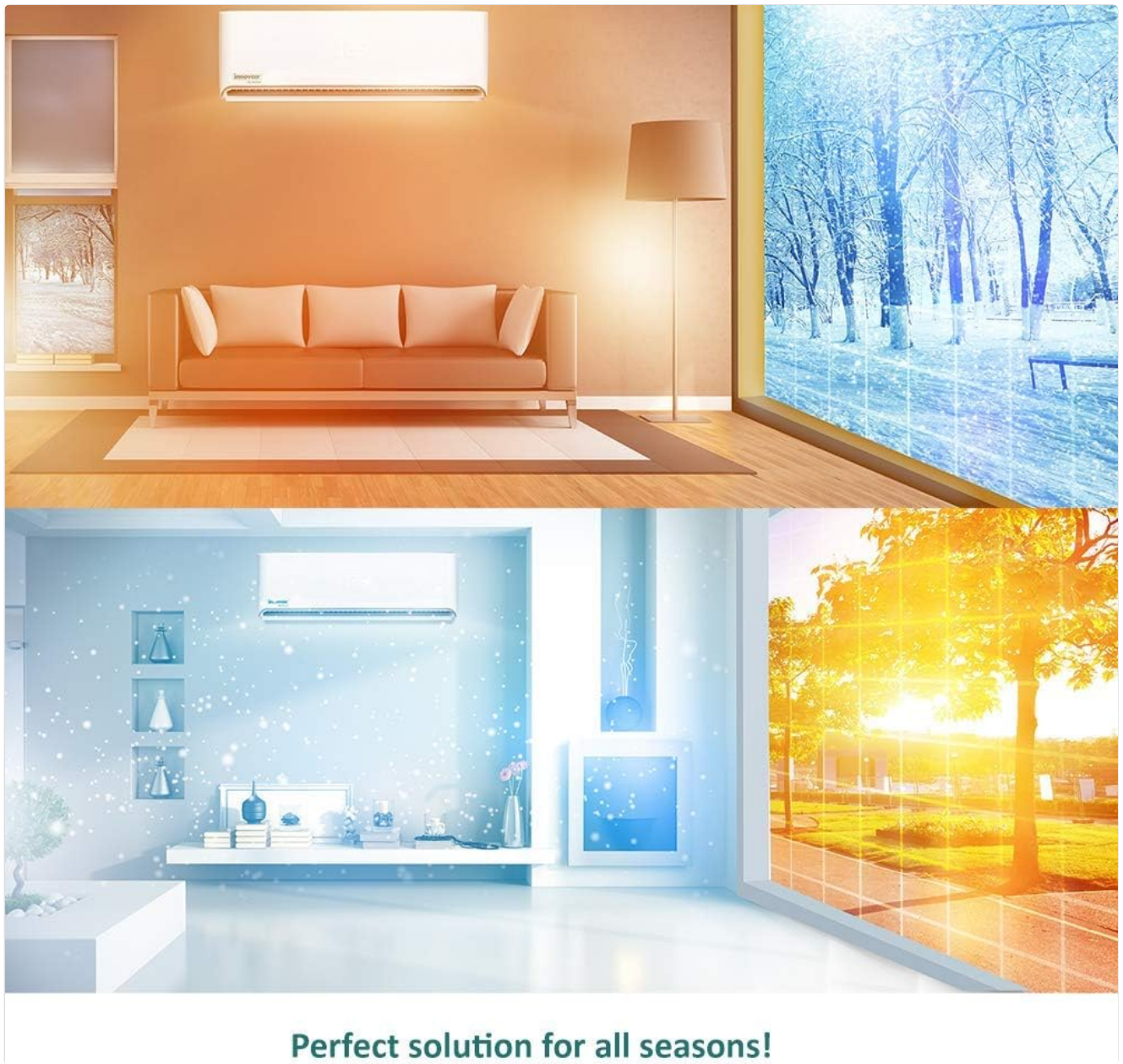


Figure 3.2: The system's capability to provide both heating and cooling, adapting to different seasonal needs for year-round comfort.



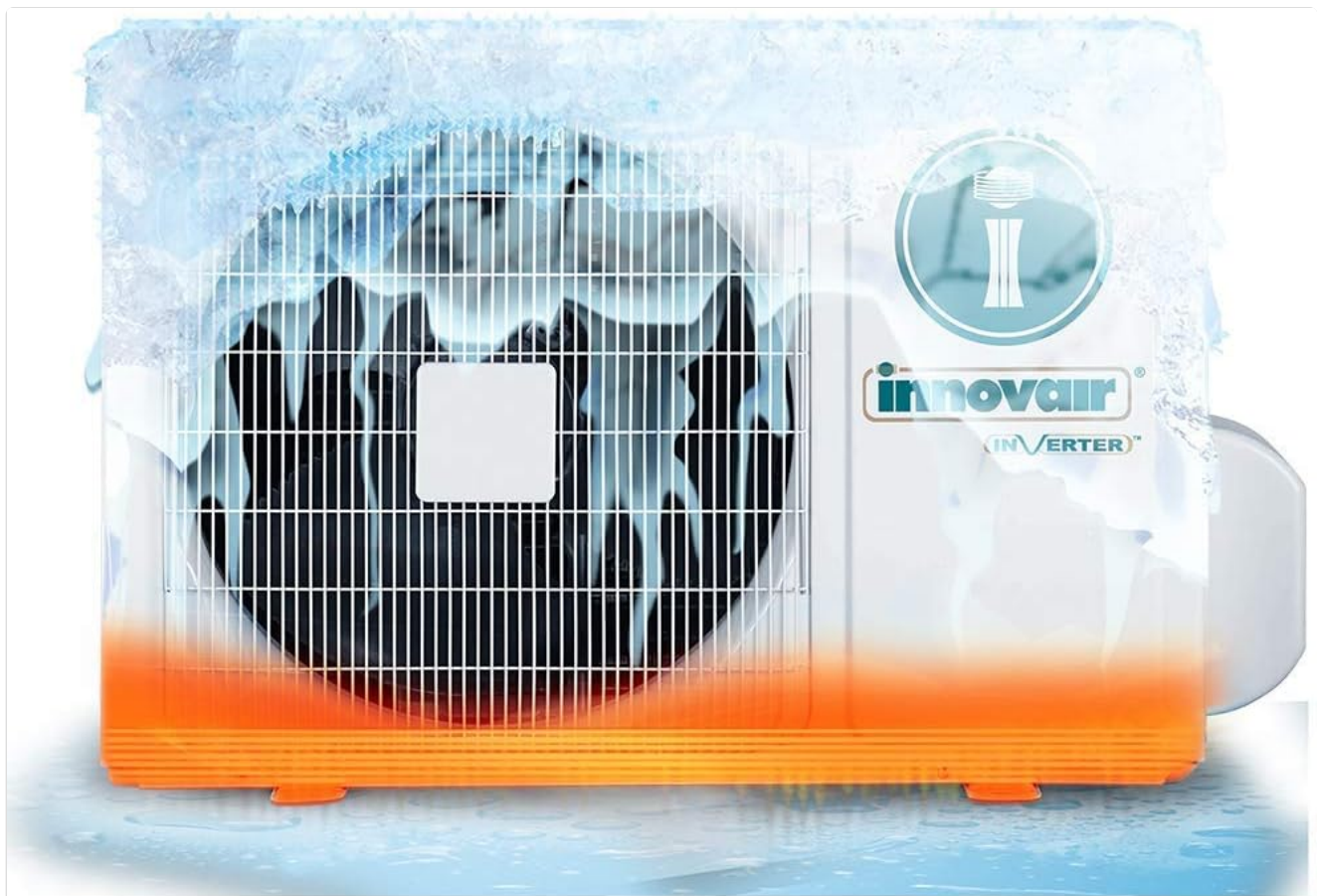
ELECTRIC BILL



High Efficiency Solution

Keep cool or stay warm with low electrical consumption due to the latest Inverter Technology!

Figure 3.3: Demonstration of the system's high efficiency, leading to lower electricity bills due to advanced inverter technology.



Anti-Freeze Protection and Low Temperature Operation

Keep cool or stay warm with low electrical consumption due to the latest Inverter Technology!

Figure 3.4: The outdoor unit's anti-freeze protection and ability to operate effectively in low temperatures, ensuring reliable performance in cold climates.

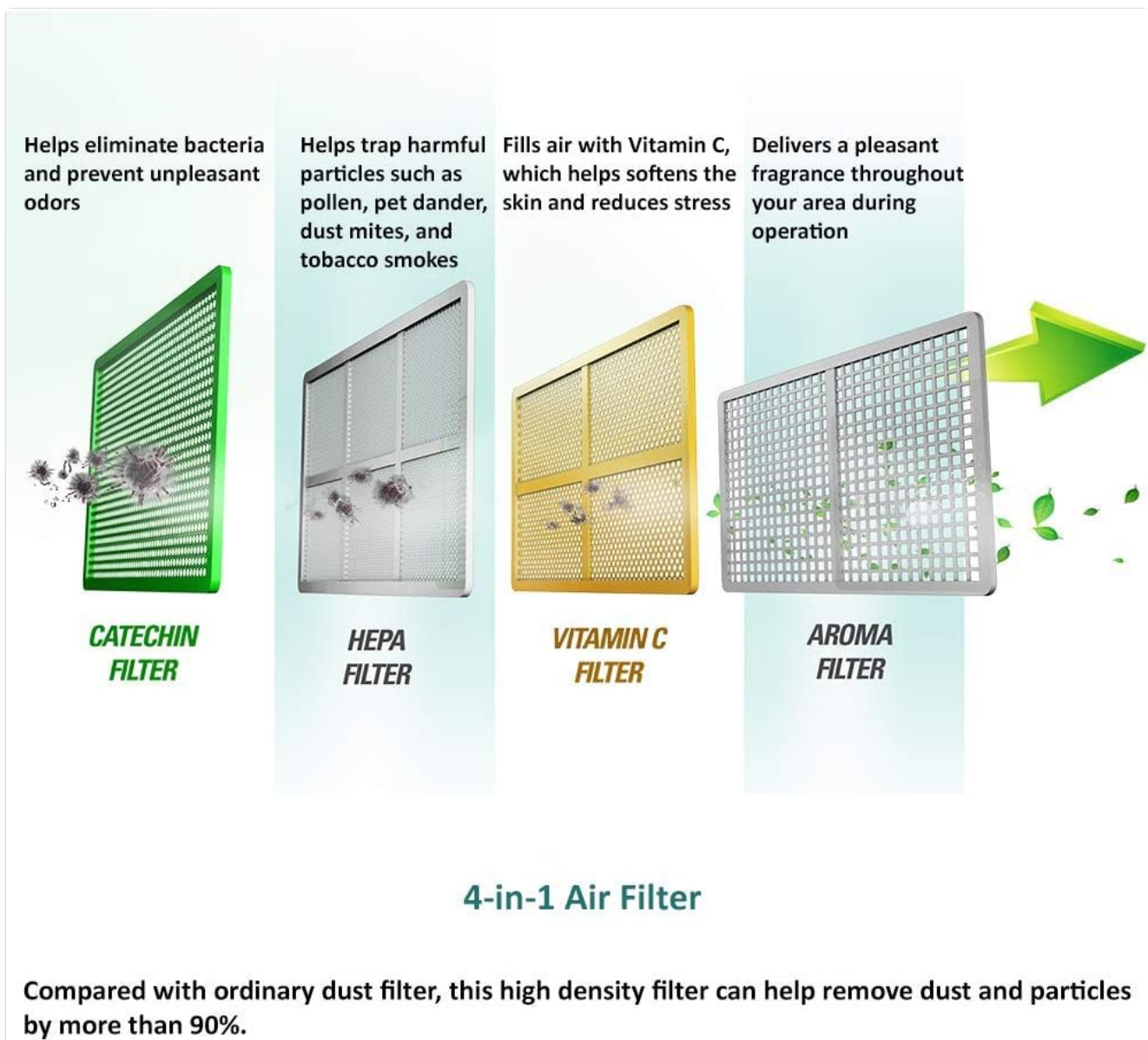


Figure 3.5: The 4-in-1 Air Filter system, including Catechin, HEPA, Vitamin C, and Aroma filters, designed to improve indoor air quality by removing particles and odors.

4. SETUP AND INSTALLATION

The Innovair Mini Split System is designed for straightforward installation, with a 16FT installation kit included. However, professional installation is highly recommended to ensure proper functioning and adherence to safety standards.

Pre-Installation Checklist:

- Verify power supply (230V).
- Ensure adequate space for both indoor and outdoor units, allowing for proper airflow and maintenance access.
- Confirm the outdoor unit is placed on a stable, level surface.
- Check that the refrigerant lines and electrical wiring can be routed safely and efficiently between units.

Installation Steps (Summary - Refer to detailed installation guide for full instructions):

1. **Mounting the Indoor Unit:** Secure the mounting plate to the wall, ensuring it is level.
2. **Drilling Wall Hole:** Drill a hole through the wall for the refrigerant pipes, drain hose, and electrical cable.
3. **Connecting Piping and Wiring:** Connect the refrigerant pipes, drain hose, and electrical wiring to the indoor

unit.

4. **Installing the Outdoor Unit:** Place the outdoor unit on a stable base. Connect the refrigerant pipes and electrical wiring from the indoor unit.
5. **Vacuuming and Leak Check:** Evacuate the refrigerant lines using a vacuum pump. Perform a leak check on all connections.
6. **Electrical Connection:** Connect the unit to the main power supply.
7. **Test Run:** Perform a test run to ensure all functions are operating correctly.



Figure 4.1: An example of a typical installation, illustrating the placement of both indoor and outdoor units for optimal performance.

5. OPERATING INSTRUCTIONS

Your Innovair Mini Split System can be controlled using the included remote control or via a WiFi-enabled mobile application.

Remote Control Functions:

Large Digital Display

1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, higher, high, medium, low or lower.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 SMART BUTTON

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

7 SLEEP BUTTON

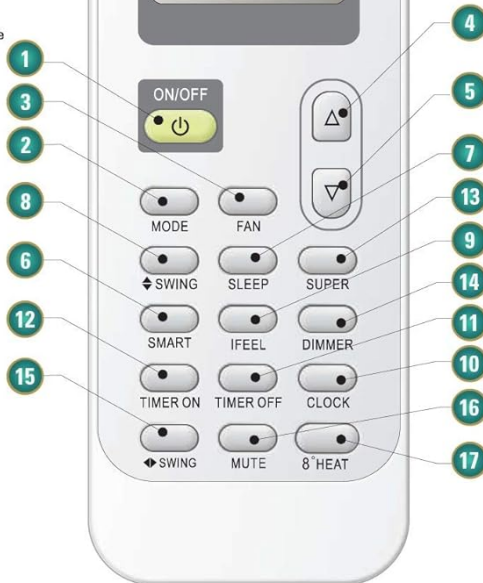
Used to set or cancel Sleep Mode operation.

8 12 SWING BUTTON

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

9 IFEEL BUTTON

Used to set IFEEL mode operation. Press it once, the IFEEL function will be started. Press it again, the IFEEL function will be shut off.



10 CLOCK BUTTON

Used to set the current time.

11 12 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.

13 SUPER BUTTON

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 61°F(16°C) set temp automatically ; Fast heating operates at auto fan speed with 86°F(30°C) set temp automatically.)

14 DIMMER BUTTON

When you press this button, all the display of indoor unit will be closed. Press any button to resume display.

15 16 SWING BUTTON

Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.

16 MUTE BUTTON

Used to stop or start MUTE Mode operation. Fan speed is automatically set at lower fan speed.

17 8° HEAT BUTTON

Used to set 8° heating mode.

Advanced Remote Control

With multiple features and options easily accessible at your hands!

Figure 5.1: The advanced remote control, providing easy access to all system functions and settings.

1. **ON/OFF BUTTON:** Press to turn the unit on or off.
2. **MODE BUTTON:** Cycles through operating modes: Auto, Cool, Dry, Heat, Fan.
3. **FAN BUTTON:** Adjusts fan speed: Auto, Low, Medium, High.
4. **ROOM TEMPERATURE SWING BUTTONS (Up/Down Arrows):** Adjusts the desired room temperature.
5. **SWING BUTTON:** Controls the horizontal louvers for airflow direction.
6. **SMART BUTTON:** Activates fuzzy logic operation for optimized comfort.
7. **SLEEP BUTTON:** Engages sleep mode for quiet operation and energy saving during sleep.
8. **TIMER ON/OFF BUTTON:** Sets or cancels the timer for automatic operation.
9. **SUPER BUTTON:** Activates fast cooling or heating.
10. **CLOCK BUTTON:** Sets the current time.
11. **DIMMER BUTTON:** Turns the display light on or off.
12. **MUTE BUTTON:** Silences the unit's beeps.
13. **IFeel BUTTON:** Activates the IFeel function, which senses temperature at the remote's location for more precise control.
14. **8° HEAT BUTTON:** Sets the heating temperature to 8°C (46°F) for anti-freeze protection in unoccupied spaces.

Basic Operation:

- **To Turn On/Off:** Press the **ON/OFF** button.

- **To Select Mode:** Press the **MODE** button repeatedly until the desired mode (Cool, Heat, Dry, Fan, Auto) is displayed.
- **To Adjust Temperature:** Use the **Up/Down Arrow** buttons to set your desired temperature.
- **To Adjust Fan Speed:** Press the **FAN** button to cycle through fan speeds.

WiFi Control:

For WiFi control, download the Innovair smart app from your device's app store. Follow the in-app instructions to connect your unit to your home network. This allows for remote control and scheduling features.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Innovair Mini Split System.

Air Filter Cleaning:

The multi-layer air filters should be cleaned every two weeks or more frequently depending on usage and air quality. Dirty filters can reduce efficiency and airflow.

1. Turn off the unit and disconnect power.
2. Open the front panel of the indoor unit.
3. Carefully remove the air filters.
4. Clean the filters with a vacuum cleaner or wash them with lukewarm water (below 40°C / 104°F).
5. Allow filters to dry completely in a shaded area before re-installing. Do not expose to direct sunlight.
6. Re-install the filters and close the front panel.

Outdoor Unit Maintenance:

- **Coil Cleaning:** Periodically check the outdoor unit's coil for dirt and debris. Clean with a soft brush or water hose if necessary.
- **Clearance:** Ensure no obstructions are blocking the airflow around the outdoor unit.
- **Drainage:** Check the condensate drain line for blockages.

Seasonal Checks:

- Before the cooling season, ensure the outdoor unit is free of debris and the filters are clean.
- Before the heating season, check for any ice buildup on the outdoor unit and ensure the drain pan is clear.

7. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, circuit breaker tripped, remote control batteries dead.	Check power supply, reset breaker, replace remote batteries.
Insufficient cooling/heating.	Dirty air filters, blocked outdoor unit, wrong mode selected, temperature setting too high/low.	Clean filters, clear obstructions, select correct mode, adjust temperature.

Problem	Possible Cause	Solution
Water leaking from indoor unit.	Clogged drain hose, improper installation.	Clear drain hose, contact professional for inspection.
Unusual noise.	Loose parts, foreign objects, fan imbalance.	Inspect for loose parts, remove foreign objects. If persistent, contact support.
Remote control not working.	Dead batteries, obstruction between remote and unit, remote malfunction.	Replace batteries, remove obstruction, try resetting the remote.

If the problem persists after attempting these solutions, please contact Innovair customer support.

8. SPECIFICATIONS

Attribute	Detail
Brand	Innovair
Model Number	WIN12H1V51
Capacity	18000 BTUH (Cooling/Heating) / 3 Tons
Voltage	230 Volts
Efficiency (SEER)	18.00
Refrigerant	R 410A
Installation Type	Split System
Special Features	Dehumidifier, WiFi Enabled
Product Dimensions	Indoor Unit: 32 x 11 x 8.5 inches (approx.)
Item Weight	24 pounds (approx. indoor unit)

9. WARRANTY AND SUPPORT

Innovair provides a limited warranty for this product. Please refer to the warranty card included with your purchase for specific terms and conditions, including coverage period and what is covered.


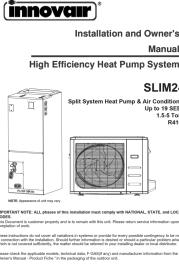



Customer Support:




For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Innovair customer support:

- **Website:** Visit the official Innovair website for support resources and contact information.
- **Phone:** Refer to your product packaging or warranty card for customer service phone numbers.
- **Online Store:** For product information and to visit the Innovair store, you can go to [Innovair Amazon Store](#).

When contacting support, please have your model number (WIN12H1V51) and purchase date ready.

Related Documents - WIN12H1V51

 <p>innovair WIN12H1V51 Installer's Guide Package Unit PXV36H2A Inverter Heat Pump Package Unit 18 to 24 Tons R454B</p>	<p>Innovair PXV36H2A Inverter Heat Pump Package Unit Installer's Guide</p> <p>Comprehensive installer's guide for the Innovair PXV36H2A Inverter Heat Pump Package Unit, covering safety precautions, installation procedures, component details, electrical wiring, and testing.</p>
 <p>innovair Installation and Owner's Manual High Efficiency Heat Pump System SLIM24 Split System Heat Pump & Air Conditioner Up to 18 B20A 1.5-5.5 Tons R454B</p>	<p>Innovair SLIM24 High Efficiency Heat Pump System: Installation and Owner's Manual</p> <p>Comprehensive guide for installing and operating the Innovair SLIM24 High Efficiency Heat Pump System, covering safety precautions, maintenance, and troubleshooting for optimal performance.</p>
 <p>innovair INSTALLATION MANUAL Single Zone Ductless Heat Pump (Outdoor Unit)</p>	<p>Innovair Single Zone Ductless Heat Pump Installation Manual</p> <p>This manual provides detailed installation instructions for the Innovair Single Zone Ductless Heat Pump (Outdoor Unit), covering safety precautions, site preparation, installation steps, and wiring.</p>
 <p>innovair WIN12H1V51 User Manual Indoor Unit SLIM4 Split System Cooling Only & Heat Pump Heat Pump 1.5-5.5 Tons R454B SWV Series</p>	<p>Innovair SLIM4 SWV Series Indoor Unit User Manual</p> <p>Comprehensive user manual for the Innovair SLIM4 SWV Series indoor air conditioning unit, covering safety precautions, operation, maintenance, and troubleshooting. Features include split system cooling and heat pump functionality with R454B refrigerant.</p>
 <p>innovair Elite HEAT PUMP DUCTLESS SPLITS REMOTE CONTROLLER MANUAL EHR18KCV32 EHR18KCV32 EHR18KCV32 EHR18KCV32</p>	<p>Innovair Elite Heat Pump Ductless Splits Remote Controller Manual</p> <p>This manual provides instructions for operating the Innovair Elite Heat Pump Ductless Splits remote controller. It covers features such as ON/OFF, fan speed control, mode selection, temperature adjustment, and special functions like I FEEL and SLEEP modes.</p>

<div> split-type ROOM AIR CONDITIONER Installation Manual</div> <div></div> <div></div> <div><p>IMPORTANT NOTE</p><p>Read the manual carefully before installing or servicing your unit. All instructions and safety warnings must be followed for safe and proper use.</p></div>	<p><u>Innovair M4 Split-Type Room Air Conditioner Installation Manual</u></p> <p>This installation manual provides detailed instructions for the proper installation of the Innovair M4 Split-Type Room Air Conditioner. It covers safety precautions, product overview, installation steps, refrigerant piping, wiring, evacuation, test runs, and packing/unpacking.</p>
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