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> [Hitachi 1.5 Ton 5 Star Wi-Fi Inverter Split AC User Manual \(Model RAS.Y518PCAISL2\)](#)

Hitachi RAS.Y518PCAISL2

Hitachi 1.5 Ton 5 Star Wi-Fi Inverter Split AC User Manual

Model: RAS.Y518PCAISL2

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Hitachi 1.5 Ton 5 Star Wi-Fi Inverter Split AC (Model RAS.Y518PCAISL2). Please read this manual thoroughly before using the air conditioner and retain it for future reference.

2. SAFETY INFORMATION

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- Installation must be performed by qualified personnel only.
- Do not operate the AC with wet hands.
- Ensure the power supply matches the specifications of the unit.
- Do not insert fingers or foreign objects into the air inlet or outlet.
- Keep the area around the outdoor unit clear of obstructions.
- In case of abnormal operation, switch off the unit and disconnect power immediately.

3. PRODUCT OVERVIEW

3.1 Components

- 1 x Indoor Unit
- 1 x Outdoor Unit
- 1 x Inter Connecting Copper Pipe (3m length)
- 1 x Remote Control
- 2 x Batteries (for remote)
- Drain Pipe

3.2 Key Features

- **Inverter Compressor:** Variable speed compressor adjusts power based on heat load for efficient cooling.

- **Capacity:** 1.5 Ton, suitable for medium-sized rooms (111 to 150 sq.ft).
- **Energy Rating:** 5 Star (as per 2025 BEE guidelines) with an ISEER Value of 5.10.
- **100% Copper Condenser Coil:** Ensures faster cooling and long-lasting durability with Nano Tech Ultra coating for the Indoor Unit (IDU) to prevent rust and corrosion.
- **Xpandable+ Technology:** Automatically adjusts cooling capacity based on ambient temperature and room load.
- **ice Clean (FrostWash Technology):** A 3-step cleaning process (Freeze, Melt, Dry) to remove dust, bacteria, and mold from the coil.
- **24m Long Air Throw:** Distributes air uniformly to every corner of the room, eliminating hot air pockets.
- **airCloud Go App:** Wi-Fi enabled for smart control via mobile application.
- **4-Way Swing:** Provides precise air dispersion for uniform cooling.
- **Smart View Display:** Offers clear visibility of settings with Bright, Dim, and Off modes.
- **R32 Refrigerant:** Environmentally friendly with no ozone depletion potential.



Figure 1: Hitachi 1.5 Ton Split AC Indoor and Outdoor Units with dimensions.

4. INSTALLATION

For optimal performance and safety, professional installation by a certified technician is highly recommended. Refer to the detailed installation guide provided with your product packaging for specific instructions.

4.1 Dimensions and Weight

Component	Dimensions (LxWxH)	Weight
Indoor Unit (IDU)	105 cm x 25.5 cm x 29.4 cm	11.4 Kg
Outdoor Unit (ODU)	75 cm x 29 cm x 55 cm	29.4 Kg

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** Press the power button on the remote control to turn the unit on or off.
- **Mode Selection:** Use the 'Mode' button to cycle through cooling, fan, dry, and auto modes.
- **Temperature Adjustment:** Use the 'Temp Up' and 'Temp Down' buttons to set your desired temperature.
- **Fan Speed:** Adjust the fan speed using the 'Fan Speed' button for personalized airflow.

5.2 Special Features

5.2.1 Ice Clean (FrostWash Technology)

The Ice Clean feature, powered by FrostWash Technology, automatically cleans the indoor unit's coil to maintain optimal airflow and hygiene. This process involves three steps:

1. **Freeze:** The AC condenses moisture from the room onto the IDU coil, forming ice at -15°C, trapping dust, viruses, bacteria, and mold.
2. **Melt:** The accumulated ice melts, washing away the trapped impurities with the water.
3. **Dry:** The blower dries the coil, removing any remaining moisture and preventing odor.

To activate, press the 'FrostWash' button on your remote control. The AC will automatically initiate and complete the cleaning cycle based on room temperature and humidity.

Hitachi Heavy Duty Air Conditioner



Figure 2: Visual representation of the 3-step Ice Clean (FrostWash) process.

5.2.2 Xpandable+ Technology

Hitachi's Xpandable+ technology allows the AC to intelligently sense the ambient temperature and room load. It automatically adjusts the compressor's rotation per minute (RPM) to increase or decrease the cooling capacity as needed. This ensures faster cooling, up to 110% of its rated capacity when required, and also helps in reducing humidity by 35% and achieving 30% faster cool-down times, leading to energy savings.

A diagram titled 'ice Clean Powered by FrostWash Technology' illustrates the three-step cleaning process. The top part shows a cross-section of the air conditioner's coil with a red circle containing '3X' and the text 'better at maintaining airflow performance'. Below this, three circular icons represent 'Viruses*', 'Bacteria*', and 'Mold*', with '99.0% removal' for the first two and '95.0% removal' for the third. A remote control is shown at the bottom left with the instruction: 'Switch on the FrostWash function by just pressing FrostWash button on the remote'. The right side of the diagram shows three stages of the process: 1. Freeze: FrostWash Technology Condenses moisture. 2. Melt: Frost on the coil melts, draining with the trapped dust from the IDU Coil. 3. Dry: Blower dry out the Coil. Each stage is accompanied by a small illustration of the coil's state.

Figure 3: Xpandable+ Technology dynamically adjusting cooling capacity based on room conditions.

5.2.3 24m Long Air Throw

The 24-meter long air throw feature ensures that cool air reaches every corner of your room, creating a uniform air circulation pattern. This eliminates hot air pockets and provides consistent cooling throughout the space, enhancing comfort and reducing power consumption.

Xpandable⁺ technology

Auto Adjust Auto Expand

110% Cooling capacity** **35%** Higher humidity removal** **30%** Faster cool down time**

How does it work?
 Auto Convertible inverter increases their RPM from standard as an when required, according to the actual ambient conditions outside and inside the room.

The image shows a white Hitachi split AC unit with a blue glow on the right side. Below it, a family of four is sitting on a grey sofa in a modern living room setting.

Figure 4: Illustration of 24m Long Air Throw ensuring uniform cooling.

5.2.4 airCloud Go (Wi-Fi Enabled)

Control your Hitachi AC from anywhere using the airCloud Go mobile app. This Wi-Fi enabled feature allows you to adjust temperature, change modes, set timers, and monitor your AC's status remotely, providing convenience and smart home integration.

24m Long air throw
 Distributes air across your room

4 Way Swing **Dual Louver**

The image shows a modern living room with a white Hitachi AC unit mounted on the wall. Light rays emanate from the unit, spreading across the room. At the bottom, there are two red icons: a four-pointed star for '4 Way Swing' and a double-louver icon for 'Dual Louver'.

5.2.5 4-Way Swing

The 4-Way Swing function provides better precision in dispersing air. It directs airflow horizontally and vertically, ensuring that cool air reaches every nook and corner of the room for comprehensive and uniform cooling.



Figure 6: Airflow pattern with 4-Way Swing feature.

5.2.6 Smart View Display

The Smart View Display on the indoor unit provides clear information about the current settings. It offers multiple modes (Bright, Dim, Off) allowing you to adjust the display brightness according to your preference, especially useful during nighttime operation.

Smart View Display



Figure 7: Smart View Display showing temperature and mode settings.

5.3 Official Product Video

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Video 1: This video provides a detailed explanation of the Hitachi AC's key features, including the Ice Clean (FrostWash) technology, Xpandable+ functionality, and the 24m Long Air Throw. It visually demonstrates how these features work to enhance cooling efficiency, maintain hygiene, and ensure uniform air distribution throughout the room.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your air conditioner.

6.1 Filter Cleaning

The Anti Bacterial Mesh Filter should be cleaned regularly (e.g., every two weeks or as indicated by the Filter Clean Indicator) to maintain air quality and cooling efficiency. Gently remove the filter, wash it with mild detergent and water, rinse thoroughly, and allow it to dry completely before reinserting.

6.2 Coil Cleaning (ice Clean)

Utilize the built-in ice Clean (FrostWash) feature periodically to automatically clean the indoor unit's coil. This helps prevent the accumulation of dust, mold, and bacteria, ensuring fresh and clean air. Refer to section 5.2.1 for details on activating this feature.

6.3 General Cleaning

Wipe the exterior of the indoor and outdoor units with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the outdoor unit's fins are free from debris.

7. TROUBLESHOOTING

Before contacting customer service, please check the following common issues and solutions:

Problem	Possible Cause	Solution
AC not cooling effectively	Dirty air filters; blocked outdoor unit; incorrect mode setting; room too large.	Clean air filters; clear obstructions from outdoor unit; select appropriate mode (e.g., Cool); ensure AC capacity matches room size.
Unit does not turn on	No power; remote control batteries dead; circuit breaker tripped.	Check power supply; replace remote batteries; reset circuit breaker.
Unusual noise	Loose parts; foreign object in fan; unit not level.	Contact a qualified technician for inspection.
Water leakage from indoor unit	Clogged drain pipe; improper installation.	Clear drain pipe; contact a qualified technician for inspection.

8. SPECIFICATIONS

Feature	Specification
Brand	Hitachi
Model Number	RAS.Y518PCAISL2
Capacity	1.5 Tons
Energy Efficiency	5 Star (2025 BEE guidelines)
Annual Energy Consumption	823.18 Kilowatt Hours
ISEER Value	5.10
Noise Level (Indoor Unit)	37 Decibels
Installation Type	Split System
Refrigerant Gas	R32
Condenser Coil	100% Copper
Voltage	230 Volts
Wattage	1365 Watts

Feature	Specification
Color	White
Material	Plastic
Country of Origin	India

9. WARRANTY AND SUPPORT

Your Hitachi AC comes with the following warranty coverage:

- **Standard Warranty:** 1 Year on the product.
- **Compressor Warranty:** 10 Years.
- **Controller Warranty:** 5 Years.

To avail warranty services, please retain your Amazon invoice as proof of purchase.

9.1 Customer Support

For any queries, service requests, or technical assistance, please contact Hitachi Customer Care:

- **Customer Care No.:** 7567884848
- **Email:** customercare@jci-hitachi.com
- **Manufacturer Address:** JCH-IN., Hitachi Complex, Karannagar, Kadi. Dist. Mehsana- 382715. Gujarat. India.