

Manuals.plus /

› Hitachi /

› Hitachi 2 Ton Class 5 Star Xpandable+ Inverter Split AC User Manual

Hitachi RAS.V522PCBISH1

Hitachi 2 Ton Class 5 Star Xpandable+ Inverter Split AC

Model: RAS.V522PCBISH1

1. PRODUCT OVERVIEW

The Hitachi 2 Ton Class 5 Star Xpandable+ Inverter Split AC is designed to provide superior cooling performance with advanced features for enhanced comfort and energy efficiency. This model incorporates innovative technologies such as Xpandable+ for increased cooling capacity, ice Clean for automatic coil cleaning, and a 4-Way Swing for uniform air distribution.



Image 1.1: Front view of the Hitachi 2 Ton Split AC indoor unit, showcasing its sleek design and 'ice Clean' and 'NEW LAUNCH 2025' indicators.

Key Features:

- **Inverter Compressor:** Variable speed compressor adjusts power based on heat load for energy efficiency.
- **5 Star Energy Rating:** Ensures best-in-class energy efficiency.
- **100% Copper Condenser Coil:** Provides better cooling and requires low maintenance.
- **Xpandable+ Technology:** Increases cooling capacity by up to 110% when needed, offering faster cooling and higher humidity removal.
- **ice Clean powered by FrostWash Technology:** Automatically cleans the indoor unit coil by freezing and melting frost, removing dust and maintaining airflow performance.
- **24m Long Air Throw:** Ensures uniform cooling across larger spaces.
- **4-Way Swing:** Disperses air precisely to every corner of the room.
- **Penta Sensor Technology:** Optimizes cooling performance and protects critical components.
- **Smart View Display:** Offers bright, dim, or off display modes for convenience.

- **My Mode:** Allows customization and saving of preferred operating settings.
- **Odour-free Air:** Designed to prevent unpleasant odors.
- **Silent Air:** Operates quietly for a peaceful environment.

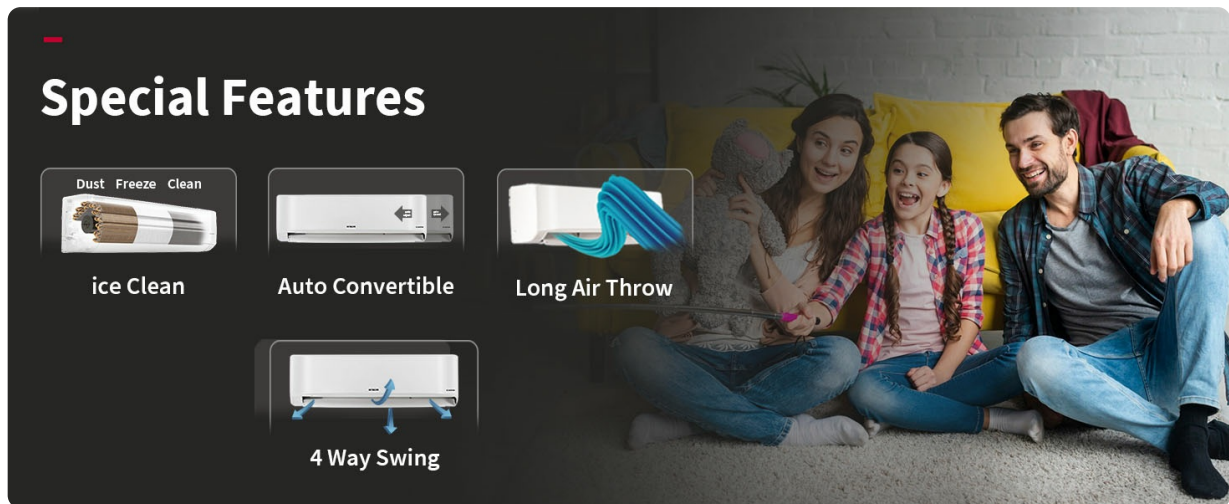


Image 1.2: Visual representation of the key special features of the Hitachi AC, including ice Clean, Auto Convertible, Long Air Throw, and 4 Way Swing.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Hitachi Split AC. It is highly recommended to have the unit installed by a qualified and certified technician.

Pre-Installation Checklist:

- Ensure the installation site has adequate space for both indoor and outdoor units, allowing for proper airflow and maintenance access.
- Verify that the electrical supply meets the AC's power requirements (230 Volts, 1675 Watts).
- Confirm that the wall or mounting surface for the indoor unit is strong enough to support its weight (11.4 Kg).
- Ensure proper drainage for condensate water from the indoor unit.

Installation Steps (Overview for User):

1. **Indoor Unit Placement:** Mount the indoor unit securely on a wall, ensuring it is level and positioned for effective air distribution.
2. **Outdoor Unit Placement:** Position the outdoor unit on a stable, level surface, away from direct sunlight or obstructions, ensuring good ventilation.
3. **Refrigerant Piping:** Connect the indoor and outdoor units using the provided inter-connecting copper pipe (3m length). Ensure all connections are tight and leak-free.
4. **Electrical Wiring:** Connect the power supply to both units according to the wiring diagram in the detailed installation manual (provided with the product).
5. **Drainage Pipe Connection:** Connect the condensate drain pipe from the indoor unit to a suitable drainage point, ensuring a downward slope for proper water flow.
6. **Vacuuming and Gas Charging:** Evacuate the refrigerant lines to remove air and moisture, then release

the refrigerant gas into the system.

7. **Test Run:** Perform a test run to ensure all functions are operating correctly and there are no leaks or unusual noises.



Image 2.1: Diagram showing the dimensions of both the indoor and outdoor units of the Hitachi AC, along with the energy savings guide.

3. OPERATING INSTRUCTIONS

Your Hitachi AC comes with a remote control for easy operation and access to various modes and features.

Basic Operation:

- **Power On/Off:** Press the **ON/OFF** button on the remote to turn the unit on or off.
- **Temperature Adjustment:** Use the **TEMP UP/DOWN** buttons to set your desired temperature.
- **Mode Selection:** Press the **MODE** button to cycle through operating modes: Auto, Cool, Dry, Fan, Heat (if applicable).
- **Fan Speed:** Adjust fan speed using the **FAN SPEED** button. Options typically include Auto, Low, Medium, High, and Super High.

- **Swing Function:** Activate the **SWING** button for automatic vertical and horizontal louver movement (4-Way Swing).



Image 3.1: Illustration demonstrating the 4-Way Swing feature, showing air being dispersed effectively in multiple directions for comprehensive room coverage.

Advanced Features:

- **Xpandable+ Technology:** This feature automatically increases the compressor's RPM to deliver up to 110% cooling capacity when the ambient temperature is high or faster cooling is desired. It also aids in higher humidity removal.
- **ice Clean (FrostWash Technology):** To activate, press the dedicated FrostWash button on your remote. The unit will initiate a cycle of freezing moisture on the coil, capturing dust, then melting the frost to drain away the trapped dust. Finally, the blower will dry the coil. This process helps maintain clean air and optimal airflow.



Image 3.2: Visual explanation of the ice Clean feature, highlighting its effectiveness in removing viruses, bacteria, and mold for cleaner air.

- **My Mode:** This function allows you to save your preferred settings (temperature, fan speed, mode, timer, silent operation) for quick recall. Refer to your remote control guide for specific steps to set and activate My Mode.
- **Smart View Display:** The indoor unit features a temperature display. You can adjust its brightness to Bright, Dim, or turn it Off using the remote control for comfort during different times of the day or night.

Smart View Display



Image 3.3: The Smart View Display on the Hitachi AC indoor unit, showing the temperature and options to adjust display brightness (Bright, Dim, Off).

4. MAINTENANCE

Regular maintenance ensures your Hitachi AC operates efficiently and provides clean, healthy air.

Filter Cleaning:

The AC is equipped with a SuperFine Mesh Filter that captures microdust particles. A unique alert (Filter Clean Indicator) reminds you when to clean the filter.

1. **Turn Off Power:** Always switch off the AC and disconnect power before cleaning.
2. **Open Front Panel:** Gently open the front panel of the indoor unit.
3. **Remove Filters:** Carefully slide out the air filters.
4. **Clean Filters:** Use a vacuum cleaner to remove dust. For heavy dirt, wash with lukewarm water and a mild detergent. Rinse thoroughly.
5. **Dry Filters:** Allow filters to dry completely in a shaded area before reinserting. Do not expose to direct sunlight.

6. **Reinstall Filters:** Slide the dry filters back into their original position and close the front panel.

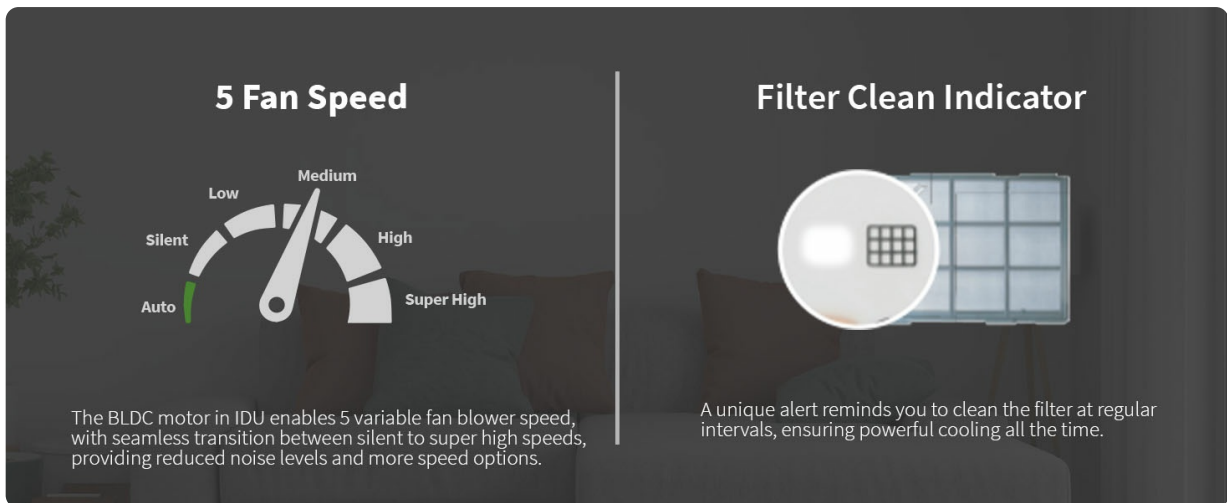


Image 4.1: Depiction of the Filter Clean Indicator and the 5 Fan Speed settings, emphasizing the importance of regular filter maintenance.

Coil Cleaning (ice Clean / FrostWash):

The ice Clean feature automatically cleans the indoor coil. It is recommended to use this feature periodically, especially during peak usage seasons, to prevent dust and mold buildup and ensure optimal performance and air quality.

Professional Servicing:

It is advisable to schedule professional servicing at least once a year, or more frequently if the AC is used heavily. A professional technician can perform deep cleaning, check refrigerant levels, inspect electrical connections, and ensure all components are functioning correctly.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
AC not turning on	No power supply; Remote control batteries dead; Circuit breaker tripped.	Check power connection; Replace remote batteries; Reset circuit breaker.
Insufficient cooling	Dirty air filters; Doors/windows open; Temperature setting too high; Refrigerant leak.	Clean air filters; Close all openings; Lower temperature setting; Contact service for refrigerant check.
Unusual noise	Loose parts; Obstruction in fan; Unit not level.	Check for loose screws; Remove obstructions; Ensure unit is level. If noise persists, contact service.
Water leakage from indoor unit	Clogged drain pipe; Improper installation.	Clear drain pipe; Contact service for inspection.
Remote control not working	Dead batteries; Obstruction between remote and unit; Remote sensor blocked.	Replace batteries; Remove obstructions; Clean remote sensor area.

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

6. SPECIFICATIONS

Detailed technical specifications for the Hitachi 2 Ton Class 5 Star Xpandable+ Inverter Split AC (Model RAS.V522PCBISH1).

Specification	Value
Brand	Hitachi
Model	RAS.V522PCBISH1
Energy Efficiency	5 Star
Capacity	1.8 Tons (Nominal 2 Ton Class)
Annual Energy Consumption	943.52 Kilowatt Hours
Noise Level (Indoor Unit)	37 dB
Installation Type	Split System
Form Factor	Mini-Split
Colour	White
Voltage	230 Volts
Wattage	1675 Watts
Material	Plastic
Refrigerant Gas	R32 (Environmental Friendly)
Indoor Unit Dimensions (WxHxD)	105 cm X 29.4 cm X 25 cm
Outdoor Unit Dimensions (WxHxD)	80 cm X 64 cm X 29.8 cm
Indoor Unit Weight	11.4 Kg
Outdoor Unit Weight	34.8 Kg
Included Components	1 Indoor Unit, 1 Outdoor Unit, Inter Connecting Copper Pipe (3m), 1 Remote, 1 Manuals With Warranty Card, 2 Batteries

7. WARRANTY AND SUPPORT

Hitachi provides comprehensive warranty coverage and dedicated customer support for your peace of mind.

Warranty Information:

- **Comprehensive Product Warranty:** 5 Years
- **Compressor Warranty:** 10 Years
- **PCB/Controller Warranty:** 5 Years

Please retain your purchase invoice and warranty card for any warranty claims. The warranty covers manufacturing defects and specified component failures under normal operating conditions.

Customer Support:

For any queries, service requests, or technical assistance, please contact Hitachi customer care:

- **Customer Care Number:** 7567884848
- **Email:** customercare@jci-hitachi.com

Manufacturer/Importer:

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