Hitachi RAS.E518PCAIBS

Hitachi 1.5 Ton 5 Star Toushi Plus 5200XL Inverter Split AC User Manual

Model: RAS.E518PCAIBS

1. Product Overview

The Hitachi Toushi Plus 5200XL Inverter Split AC is designed for efficient cooling and comfort. This 1.5-ton, 5-star rated air conditioner features inverter technology for variable speed compression, adapting to heat load for optimal performance and energy savings. It is suitable for room sizes of 150-180 sq. ft.

Key Features:

- **Inverter Compressor:** Variable speed compressor adjusts power based on heat load, ensuring energy efficiency.
- **Copper Condenser Coil:** Provides better cooling performance and requires low maintenance.
- **Multiple Operating Modes:** Includes Auto Mode, Cool Mode, Fan Mode, and Dry Mode for enhanced humidity control.
- **Long Air Throw:** Capable of a 24-meter long air throw for uniform cooling across the room.
- **airCloud Home:** Offers convenient control and smart features.
- **Odour Free Air:** Designed to prevent unpleasant air experiences.
- **Stabilizer Free Operation:** Operates reliably without an external stabilizer within specified voltage ranges.
- **Ergonomic Remote Control:** User-friendly design for easy operation.



Figure 1: Front view of the Hitachi Toushi Plus 5200XL Inverter Split AC indoor unit.

2. Installation and Setup

Proper installation is crucial for the optimal performance and longevity of your air conditioner. It is highly recommended that installation be performed by a qualified and authorized service technician.

Included Components:

- Indoor Unit (IDU)
- Outdoor Unit (ODU)
- Remote Control
- Installation Kit
- User Manual (this document)

General Installation Steps (for qualified technicians):

1. **Site Selection:** Choose appropriate locations for both indoor and outdoor units, ensuring proper airflow, drainage, and structural support.
2. **Mounting:** Securely mount the indoor unit on the wall and the outdoor unit on a stable surface, following manufacturer guidelines for clearances.
3. **Piping Connection:** Connect the refrigerant pipes between the indoor and outdoor units. Ensure proper insulation and leak-free connections. The permissible maximum pipe length limit is up to 25 meters.
4. **Drainage Connection:** Install the drain pipe for the indoor unit to ensure proper condensate removal.
5. **Electrical Wiring:** Connect the power supply and communication cables according to the wiring diagram provided in the detailed installation manual. Ensure all electrical connections are secure and comply with local regulations.
6. **Vacuuming and Refrigerant Charging:** Evacuate the refrigerant lines to remove air and moisture, then charge with the correct amount of R32 refrigerant if necessary.
7. **Test Run:** Perform a test run to verify proper operation, cooling performance, and check for any abnormalities.



Figure 2: The outdoor unit of the Hitachi Toushi Plus 5200XL Inverter Split AC.

3. Operating Instructions

Your Hitachi AC comes with an ergonomic remote control for easy access to various functions. Ensure the remote has working batteries before use.

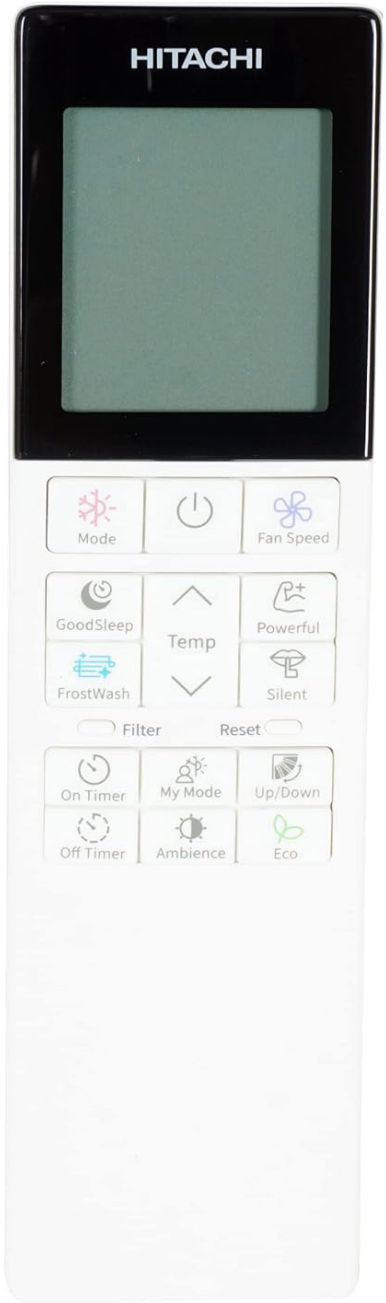


Figure 3: The remote control for the Hitachi Toushi Plus 5200XL Inverter Split AC.

Basic Operations:

- **Power On/Off:** Press the **Power** button to turn the unit on or off.
- **Mode Selection:** Use the **Mode** button to cycle through available modes:
  - **Cool Mode:** For cooling the room.
  - **Fan Mode:** Circulates air without cooling.
  - **Dry Mode:** Reduces humidity in the room.
  - **Auto Mode:** Automatically selects the appropriate mode based on room temperature.
- **Temperature Adjustment:** Use the **Temp Up/Down** buttons to set your desired temperature.

- **Fan Speed:** Press the **Fan Speed** button to adjust the fan speed (e.g., Low, Medium, High, Auto).
- **Swing Function:** Activates or deactivates the automatic swing of the air deflector for wider air distribution.

Advanced Functions:

- **Timer Function:** Set the AC to turn on or off automatically after a specified period using the **On Timer** and **Off Timer** buttons.
- **Good Sleep Mode:** Optimizes temperature settings for comfortable sleep.
- **Powerful Mode:** Provides rapid cooling when activated.
- **FrostWash:** An automatic cleaning function for the indoor unit's heat exchanger.
- **Eco Mode:** Operates the AC with reduced power consumption for energy saving.
- **Auto Restart:** The unit will automatically restart with previous settings after a power outage.

4. Maintenance

Regular maintenance ensures efficient operation and extends the lifespan of your Hitachi AC. Always turn off the power supply to the unit before performing any maintenance.

User Maintenance:

- **Air Filter Cleaning:**
    a. Open the front panel of the indoor unit.
    b. Remove the air filters.
    c. Clean the filters using a vacuum cleaner or wash them gently with lukewarm water and mild detergent.
    d. Allow filters to dry completely before reinstalling.
    e. Clean filters every two weeks or more frequently depending on usage and air quality.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor unit clear of obstructions (leaves, debris) to ensure proper airflow. Gently clean the outdoor coil fins with a soft brush if visible dirt accumulates.
- **Remote Control:** Replace batteries when the display becomes dim or the remote stops responding.

Professional Maintenance:

It is recommended to schedule professional servicing at least once a year. A qualified technician can perform:

- Thorough cleaning of indoor and outdoor coils.
- Checking refrigerant levels and pressure.
- Inspecting electrical connections.
- Checking drain lines for blockages.
- Verifying overall system performance.

5. Troubleshooting

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

Problem	Possible Cause	Solution
AC does not turn 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, blocked outdoor unit, wrong mode selected, room too large.	Clean air filters, clear obstructions from outdoor unit, select Cool Mode, ensure AC capacity matches room size.

Problem	Possible Cause	Solution
Water leakage from indoor unit.	Blocked drain pipe, improper installation.	Check and clear drain pipe blockage. If issue persists, contact a qualified technician.
Unusual noise.	Loose parts, fan obstruction, compressor issue.	Turn off the unit and inspect for loose parts or obstructions. If noise continues, contact service.
Remote control not working.	Dead batteries, obstruction between remote and AC, remote malfunction.	Replace batteries, remove obstructions, try operating from closer distance.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact Hitachi customer support.

6. Specifications

Feature	Detail
Brand	Hitachi
Model	RAS.E518PCAIBS
Capacity	1.5 Tons
Energy Efficiency	5 Star (High Efficiency)
Annual Energy Consumption	950 Kilowatt Hours
Noise Level	34 Decibels
Installation Type	Split System
Form Factor	Mini-Split
Refrigerant	R32
Colour	White
Voltage	230 Volts
Wattage	5200 Watts
Material	Plastic
Item Weight	32 kg
Product Dimensions (LxWxH)	23.5 x 95 x 29.4 Centimeters
Special Features	Auto Restart, Inverter Compressor, Copper Condenser, Odour Free Air, airCloud Home

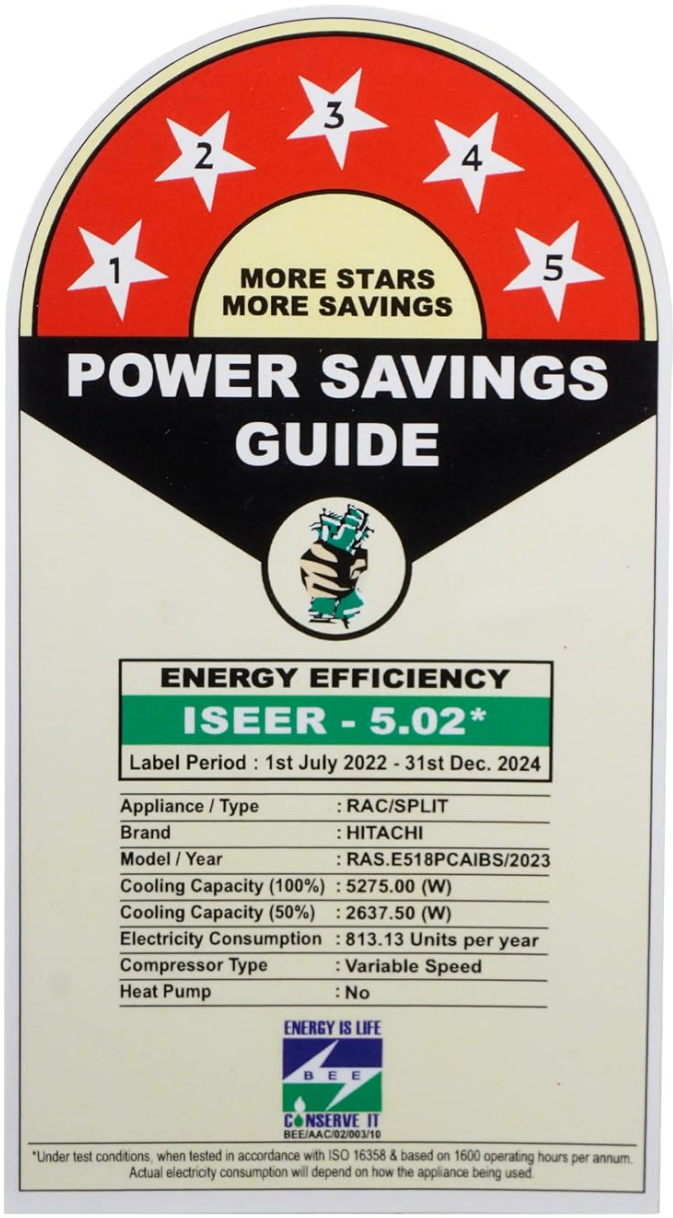


Figure 4: Energy efficiency label for the Hitachi Toushi Plus 5200XL Inverter Split AC, showing 5-star rating and ISEEER value.



Figure 5: Dimensions of the Hitachi Toushi Plus 5200XL Inverter Split AC indoor unit (95cm width, 29.4cm height, 23.5cm depth).

7. Warranty and Support

Warranty Information:

- **Product Warranty:** 1 year on the complete product.
- **Compressor Warranty:** 10 years on the compressor.

This warranty covers manufacturing defects under normal use. Please refer to the warranty card included with your product for detailed terms and conditions, exclusions, and claim procedures.

Customer Support:

For any service requests, technical assistance, or warranty claims, please contact Hitachi customer support. You can find contact details on the official Hitachi website or in the documentation provided with your AC unit.

Manufacturer: Johnson Controls-Hitachi Air Conditioning India Limited

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question