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› Samsung 2 Ton 3 Star AI Inverter Smart Split AC User Manual

Samsung AR50F24D1XHNA

Samsung 2 Ton 3 Star AI Inverter Smart Split AC

USER MANUAL

Model: AR50F24D1XHNA

Introduction

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of your Samsung 2 Ton 3 Star AI Inverter Smart Split AC. Please read this manual thoroughly before using the appliance and keep it for future reference.



The Samsung Bespoke AI Air Conditioner indoor unit, highlighting its Convertible 5-in-1 feature, BESPOKE AI technology, and 5-year complete protection warranty.

Safety Information

Always adhere to the following safety precautions to prevent injury or damage to the appliance.

- **Professional Installation:** Installation, maintenance, and repair should only be performed by qualified service personnel. Improper installation can lead to electric shock, fire, or water leakage.

- **Power Supply:** Ensure the power supply matches the specifications of the unit. Do not use damaged power cords or plugs.
- **Ventilation:** Do not block the air intake or outlet of the indoor or outdoor unit.
- **Flammable Materials:** Do not place flammable materials or spray aerosols near the unit.
- **Children and Pets:** Keep children and pets away from the unit during operation and do not allow them to play with the remote control.
- **Cleaning:** Disconnect power before cleaning the unit. Use a soft, dry cloth for cleaning. Do not use water directly on the unit.

Product Components

The following components are typically included with your Samsung Split AC:

- 1 Indoor unit
- 1 Outdoor unit
- 1 Remote control
- 1 Connecting wire (3.5m)
- Copper pipe/copper tube (3m)
- 2 Batteries for remote control



Image showing both the indoor and outdoor units of the Samsung Split AC.

Setup & Installation

For optimal performance and safety, professional installation by a certified technician is highly recommended for this split air conditioner. This section provides a general overview.

Pre-Installation Checks:

- Ensure the installation site is structurally sound and can support the weight of both units.
- Verify adequate space for air circulation around both indoor and outdoor units.
- Confirm proper drainage for the indoor unit's condensate.

General Installation Steps (Professional Required):

1. Mount the indoor unit securely on the wall, ensuring it is level.
2. Install the outdoor unit on a stable, level surface, away from direct sunlight or heat sources.

3. Connect the refrigerant pipes and electrical wiring between the indoor and outdoor units. Ensure all connections are tight and secure.
4. Perform vacuuming of the refrigerant lines to remove air and moisture.
5. Check for refrigerant leaks.
6. Connect the power supply to the main electrical circuit.
7. Conduct a test run to ensure proper operation of all functions.

Operating Instructions

Your Samsung AI Inverter Smart Split AC offers various modes and features for optimal comfort and energy efficiency.

Remote Control Overview:

The remote control allows you to manage all functions of your AC. Familiarize yourself with the buttons for Power, Mode, Temperature Up/Down, Fan Speed, Swing, and Special Functions.

Basic Operation Modes:

- **Cool Mode:** For cooling the room. Adjust temperature using the Up/Down arrows.
- **Fan Mode:** Circulates air without cooling. Fan speed can be adjusted.
- **Dry Mode:** Reduces humidity in the room.
- **Auto Mode:** The AC automatically selects the appropriate mode (Cool, Fan, Dry) based on the room temperature.

Advanced Features:

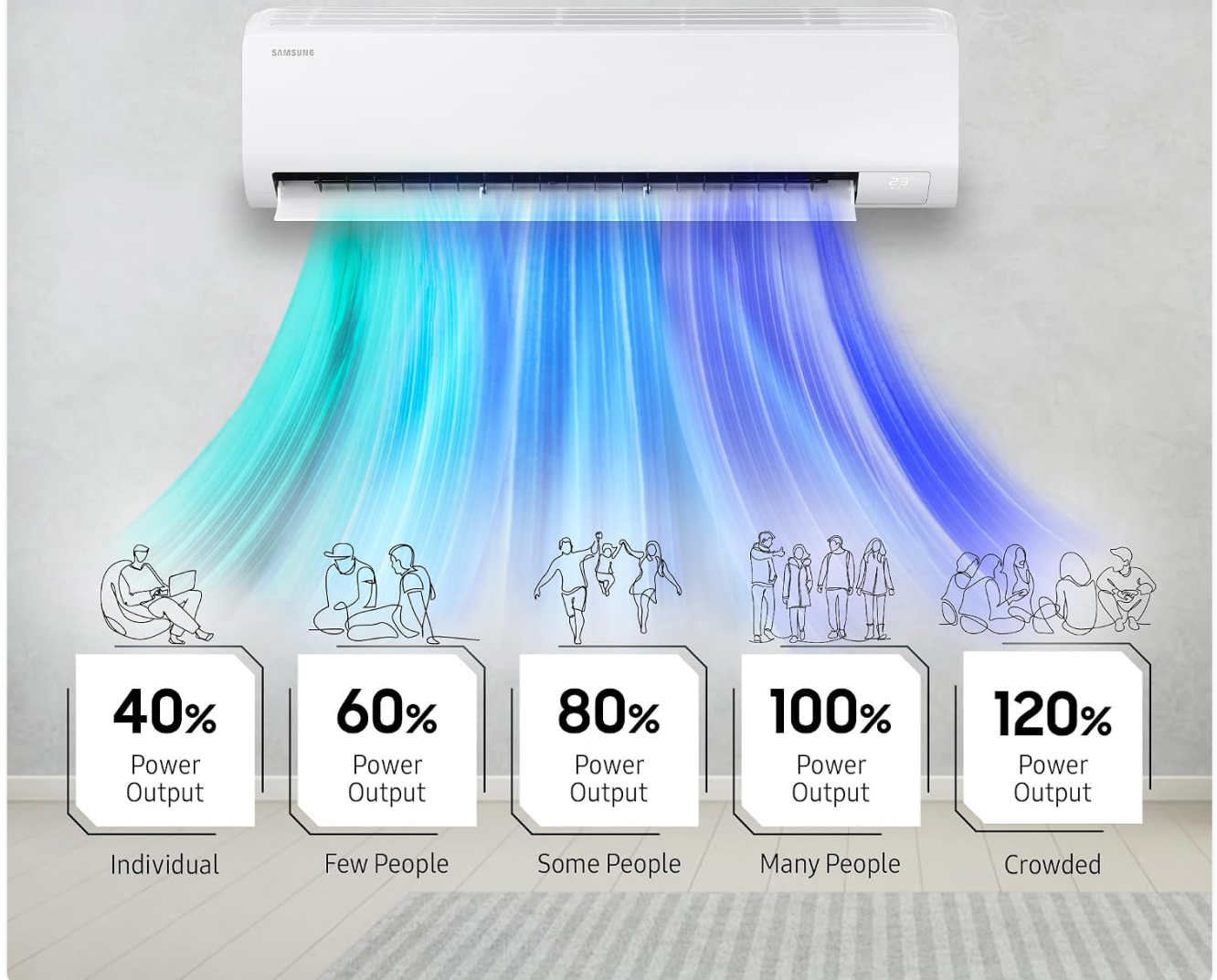
AI Energy Mode



Diagram illustrating the AI Energy Mode, which learns from operating time, setting temperature, outdoor temperature, indoor temperature, and usage patterns to provide up to 30% additional energy savings.

- **AI Energy Mode:** This intelligent mode optimizes energy consumption by learning your usage patterns and environmental factors. It can provide up to 30% additional energy savings.
- **5 Step Convertible Cooling:** Adjust the cooling capacity from 40% to 120% based on the number of people in the room or your cooling needs. This feature helps save energy when full capacity is not required.

5 Step Convertible Cooling Mode for every mood



Visual representation of the 5 Step Convertible Cooling modes, adapting power output for different occupancy levels.

- **4 Way Swing:** The air conditioner features a 4-way swing function (up/down and left/right) to ensure uniform cooling across the entire room.

4 Way Swing



Cools Every Corner

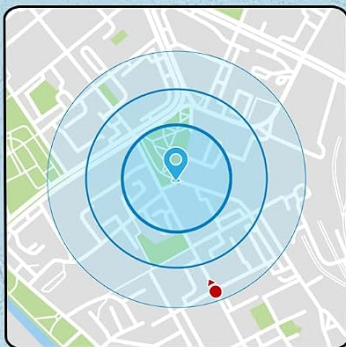
Illustration of the 4 Way Swing feature, demonstrating how air is distributed to cool every corner of the room.

- **Wi-Fi & Voice Control (SmartThings App):** Connect your AC to your home Wi-Fi network and control it remotely using the Samsung SmartThings app. It also supports voice control via Alexa, Google Assistant, and Bixby.

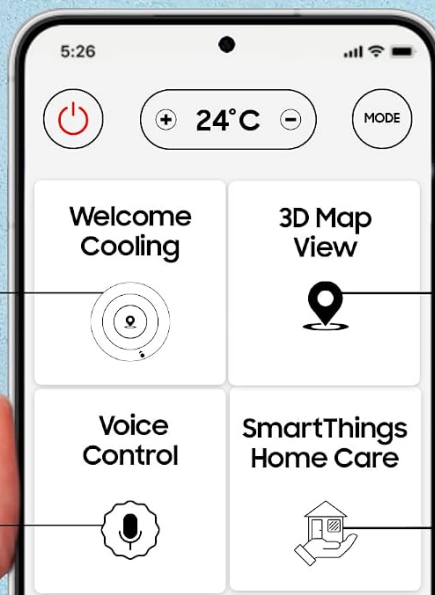
AI SmartThings



Walk in, Feel Cool



Monitor all devices at a glance



The AI SmartThings app interface, showcasing features like remote control, welcome cooling, and AI Diagnosis for convenient management of your AC.

- **Fast Cooling:** Activates a powerful cooling mode to quickly bring the room to your desired temperature.
- **Auto Error Diagnosis:** The unit can detect and display certain operational errors, simplifying troubleshooting.
- **3 Step Auto Clean:** This function automatically dries the indoor unit's heat exchanger to prevent mold and bacteria buildup, ensuring fresh air.

Maintenance

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

Filter Cleaning (Easy Filter Plus):

- The Easy Filter Plus is designed for simple removal and cleaning.
- Open the front panel of the indoor unit.
- Gently slide out the air filters.
- Clean the filters with a vacuum cleaner or wash them with lukewarm water and a mild detergent.
- Rinse thoroughly and allow them to dry completely in a shaded area before reinserting.

- Clean filters every two weeks or more frequently depending on usage and air quality.



Detailed view of the Easy Filter Plus for convenient cleaning and the 100% Copper Condenser for efficient heat exchange.

Outdoor Unit Cleaning:

- Periodically check the outdoor unit for obstructions like leaves, dust, or debris.
- Carefully remove any blockages from the condenser fins.
- Do not spray water directly onto the electrical components.

Seasonal Maintenance:

- Before the cooling season, ensure all components are clean and functioning correctly.
- Consider a professional service check-up annually to ensure optimal performance and identify any potential issues.

Troubleshooting

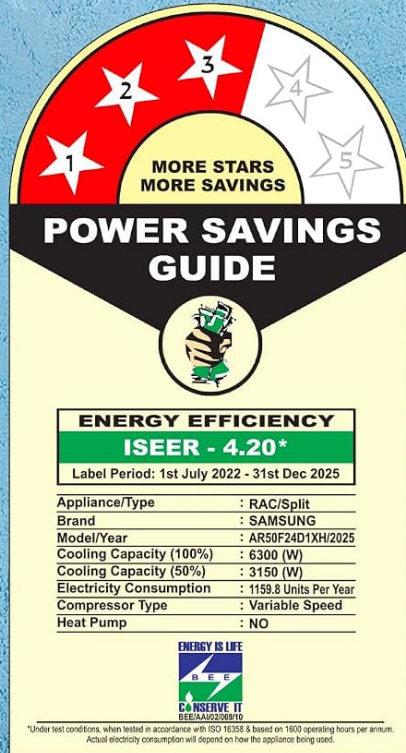
Before contacting service, try the following solutions for common issues:

Problem	Possible Cause	Solution
AC does not turn on.	No power, remote control batteries dead, circuit breaker tripped.	Check power supply, replace remote batteries, reset circuit breaker.
Insufficient cooling.	Dirty air filters, blocked outdoor unit, wrong mode selected, room too large.	Clean air filters, clear outdoor unit, select Cool mode, ensure room size is within capacity.
Unusual noise.	Loose parts, foreign objects, normal operating sounds (e.g., refrigerant flow).	Check for loose parts, remove foreign objects. If noise persists or is abnormal, contact service.
Water leakage from indoor unit.	Blocked drain hose, improper installation.	Check and clear drain hose. If issue persists, professional service is required.
Error code displayed.	Internal malfunction.	Note the error code and refer to the full service manual or contact Samsung customer support. The Auto Error Diagnosis feature can help identify issues.

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

Specifications

Powerful Cooling



Dimensions of the indoor and outdoor units, along with the energy efficiency guide for the Samsung AC.

Feature	Detail
Brand	Samsung
Model	AR50F24D1XH/2025
Capacity	2 Tons
Energy Rating	3 Star BEE Rating (ISEER 4.20 W/W)
Annual Energy Consumption	1159.8 Kilowatt Hours Per Year

Feature	Detail
Noise Level (Indoor)	45 dB
Refrigerant Gas	R32 (Environmental Friendly)
Condenser Coil	100% Copper
Indoor Unit Dimensions (WxHxD)	105.5 x 29.9 x 21.5 cm
Outdoor Unit Dimensions (WxHxD)	79 x 54.8 x 28.5 cm
Indoor Unit Weight	11.4 kg
Outdoor Unit Weight	26.7 kg
Special Features	BESPOKE AI, 5 Step Convertible, 4 Way Swing, Wi-Fi, Voice Control, SmartThings app, Auto Error Diagnosis, 3 Step Auto Clean, Digital Inverter Technology, Durafin Ultra, Triple Protection Plus, Copper Anti-Bacterial Filter, Coated Copper tubes

Warranty & Support

Your Samsung Air Conditioner comes with comprehensive warranty coverage:

- **5 years comprehensive warranty** on the product.
- **10 years warranty** on the Digital Inverter Compressor.

Note: Brand Warranty can be availed using the seller invoice.

Durable & Anti-corrosion

10 Year Compressor Warranty

5

YEAR COMPREHENSIVE WARRANTY

Durafin Ultra

Rust Protection



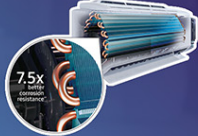
Triple Protector Plus

Power surge protection



Coated Copper Tubes

7.5x corrosion resistance



Overview of durability and anti-corrosion features, including warranty details and protective technologies like Triple Protector Plus and Durafin Ultra.

Customer Support:

For all product-related complaints or assistance, please contact Samsung Customer Care:

- **Toll Free:** 1800 40 7267864 (1800 40 SAMSUNG)
- **Email:** support.india@samsung.com
- **Address:** Manager, Customer Care Samsung India Electronics Pvt. Ltd., 6th Floor, DLF Centre, Sansad Marg, New Delhi - 110001

The full user manual can also be accessed from the official Samsung brand website.