

Sharp KC850U

SHARP KC850U Air Purifier and Humidifier Instruction Manual

Model: KC850U

1. INTRODUCTION

Thank you for choosing the SHARP KC850U Air Purifier and Humidifier. This appliance is designed to improve indoor air quality and maintain optimal humidity levels in medium-sized rooms. It combines a multi-stage filtration system with Plasmacluster Ion Technology to effectively reduce airborne particles, odors, and maintain a comfortable environment.

Please read this manual thoroughly before operating the unit to ensure safe and efficient use. Keep this manual for future reference.

2. SAFETY INFORMATION

To reduce the risk of electric shock, fire, or injury, always follow basic safety precautions when using electrical appliances:

- Do not operate the unit with a damaged cord or plug.
- Do not place the unit near heat sources or in direct sunlight.
- Ensure the unit is placed on a stable, level surface.
- Do not block air inlets or outlets.
- Unplug the unit before cleaning or performing any maintenance.
- Do not immerse the unit in water or other liquids.
- Keep out of reach of children and pets.
- Use only genuine SHARP replacement parts and filters.

3. PRODUCT OVERVIEW

The SHARP KC850U integrates air purification and humidification functions into a single unit. Key components include the air intake, air outlet, control panel, dust and humidity sensors, and water tank.



Figure 3.1: Front view of the SHARP KC850U Air Purifier and Humidifier, showing the control panel and display.



Figure 3.2: Side view of the SHARP KC850U, illustrating its compact design.

Control Panel and Display

The unit features an intuitive control panel and a display that provides real-time information on air quality and humidity levels.



Figure 3.3: Top view of the control panel, showing buttons for power, fan speed, modes, and light control.

- **Power Button:** Turns the unit on or off.
- **Fan Speed Button:** Cycles through Max, Med, and Low fan speeds.
- **Mode Button:** Selects operating modes including Auto, Pollen, and Quick Clean.
- **Lights Button:** Adjusts the brightness of the display lights (Bright, Dim, Off).
- **Dust Monitor:** Visual indicator of air impurity levels (e.g., green for clean, red for high impurity).

- **Humidity Display:** Shows the current relative humidity percentage.

4. SETUP

4.1 Unpacking

1. Carefully remove the unit from its packaging.
2. Remove all protective materials and plastic bags.
3. Ensure all filters are properly installed before first use. Refer to the Maintenance section for filter installation details.

4.2 Placement

For optimal performance, place the air purifier in a location where air can circulate freely. Avoid placing it directly against a wall or furniture that might obstruct air intake or output.

- Recommended for use in bedrooms, living rooms, studies, or exercise rooms.
- Ensure at least 12 inches (30 cm) of clear space around the unit.
- Place on a firm, level surface.

4.3 Filling the Water Tank (for Humidification)

If you intend to use the humidification function, fill the water tank:

1. Remove the water tank from the side of the unit.
2. Open the tank cap and fill with clean tap water.
3. Securely close the cap and reinsert the water tank into the unit.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **Power** button to turn the unit on or off.

5.2 Fan Speed Selection

Press the **Fan Speed** button repeatedly to cycle through the available fan speeds:

- **Max:** Highest air purification and humidification.
- **Med:** Moderate operation.
- **Low:** Quiet operation, suitable for sleeping (as quiet as 23 dBA).

5.3 Mode Selection

Press the **Mode** button repeatedly to select an operating mode:

- **Auto Mode:** The unit automatically adjusts fan speed and humidification based on sensor readings for air quality and humidity.
- **Pollen Mode:** Optimized for pollen removal.
- **Quick Clean Mode:** Releases high-density Plasmacluster ions for rapid air purification.

5.4 Plasmacluster Ion Technology

The Plasmacluster Ion Technology actively disperses positive and negative ions into the air to help reduce

microscopic pollutants. This function operates automatically with the unit. A slight clicking sound may be audible during operation, which is normal.

5.5 Display Light Control

Press the **Lights** button to adjust the brightness of the display indicators:

- **Bright:** Full illumination.
- **Dim:** Reduced illumination.
- **Off:** Display lights are off, suitable for dark rooms.



Figure 5.1: Display showing 'Lo' for low humidity and green dust monitor indicators.



Figure 5.2: Display showing 'Hi' for high humidity and red dust monitor indicators, indicating higher impurity levels.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your SHARP KC850U. Always unplug the unit before cleaning or replacing filters.

6.1 Filter System Overview

The KC850U utilizes a triple filtration system:

- **Washable Pre-Filter:** Traps large airborne particles like dust and pet dander.
- **Activated Carbon Deodorizing Filter:** Helps reduce common household odors.
- **True HEPA Filter:** Captures 99.97% of particles 0.3 microns and larger.
- **Humidifying Filter:** Used for the humidification function.



Figure 6.1: Diagram showing the air purification process through the humidifying filter, True HEPA filter, carbon filter, and pre-filter.

6.2 Filter Cleaning and Replacement

- **Pre-Filter:** Clean regularly by vacuuming or washing with water. Allow to dry completely before reinstallation.
- **Activated Carbon Deodorizing Filter:** May be washed. Refer to the filter's specific instructions for cleaning frequency and method. Replace as needed, typically every 2-5 years depending on usage and environment.
- **True HEPA Filter:** This filter is not washable. Replace typically every 2-5 years, depending on usage and environment. The unit will indicate when replacement is due.
- **Humidifying Filter:** Clean regularly to prevent mineral buildup. Replace as needed, typically every 2-5 years depending on water quality and usage.

Actual filter life may vary significantly based on air quality, usage frequency, and environmental conditions.

6.3 General Cleaning

- Wipe the exterior of the unit with a soft, damp cloth.
- Clean the dust and humidity sensors periodically to ensure accurate readings.
- Clean the water tank and humidifying tray regularly to prevent mold or bacteria growth.

7. TROUBLESHOOTING

If you encounter issues with your SHARP KC850U, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	Power cord not properly plugged in; no power at outlet.	Check power connection; test outlet with another device.
Air purification/humidification is ineffective.	Filters are dirty or clogged; water tank is empty (for humidification).	Clean or replace filters as per Maintenance section; refill water tank.
Unusual noise (e.g., clicking).	Normal operation of Plasmacluster Ion generator; foreign object in fan.	A slight clicking is normal. If noise is excessive, unplug and check for obstructions.
Odor persists or unit emits strange smell.	Carbon filter saturated; new unit odor; mold in water tank.	Replace carbon filter; new unit odor will dissipate; clean water tank and humidifying filter.
Humidity level not increasing.	Water tank empty; humidifying filter dirty or damaged.	Refill water tank; clean or replace humidifying filter.

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

8. SPECIFICATIONS

Feature	Specification
Model Number	KC850U
Brand	Sharp
Color	White
Product Dimensions (D x W x H)	10.5" x 14.87" x 23.11"
Item Weight	20.5 pounds
Recommended Floor Area	254 Square Feet (4.8 air changes/hour)
Noise Level	23 dBA (Quiet Sleep setting) to 36 dB (typical)
Particle Retention Size	0.3 Micrometer (HEPA filter)
Controller Type	Button Control
Wattage	50 watts
CADR (Smoke / Dust / Pollen)	164 / 164 / 174
Certifications	ENERGY STAR Rated, AHAM Verifide Tested, CARB Certified



Figure 8.1: Dimensions of the SHARP KC850U unit.

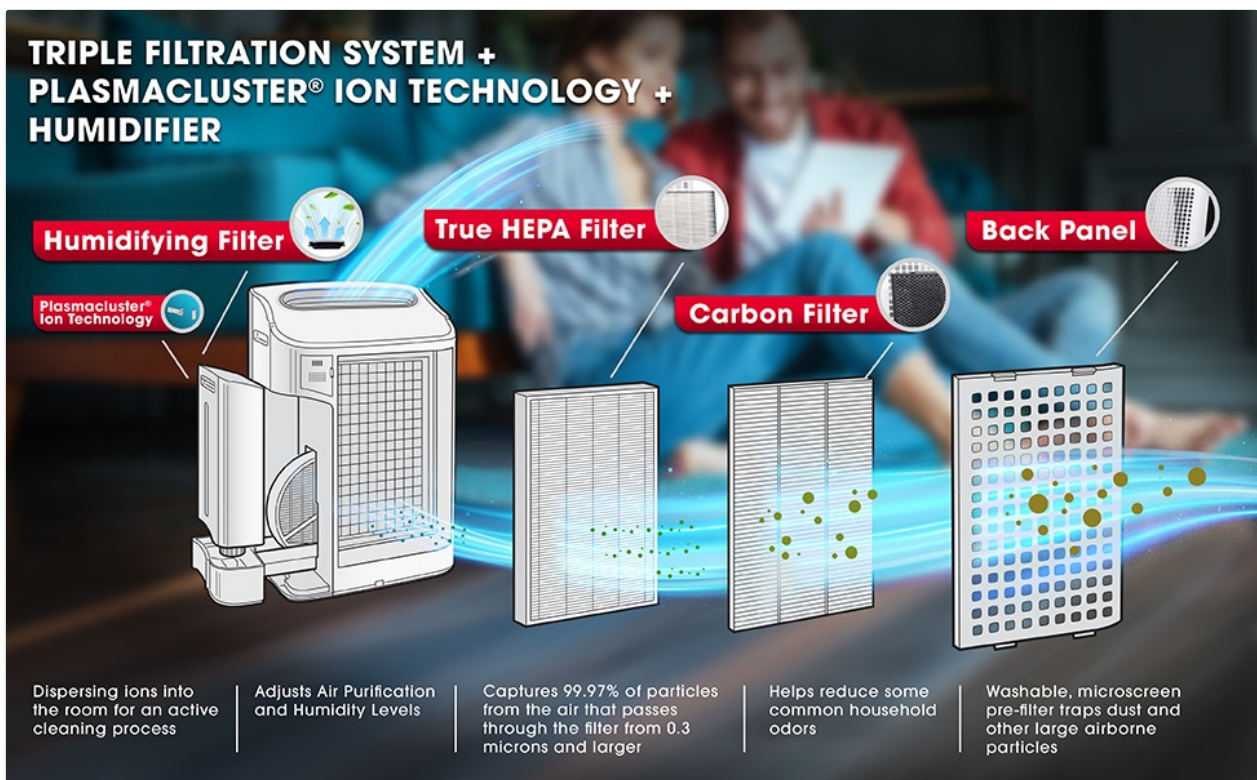


Figure 8.2: Room coverage diagram, showing 254 sq. ft. for 4.8 air changes per hour.

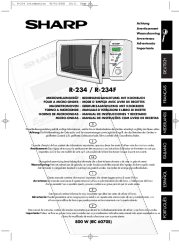



9. WARRANTY AND SUPPORT

9.1 Warranty Information

The SHARP KC850U Air Purifier and Humidifier comes with a **1-year limited warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official SHARP website.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts and filters, please contact SHARP customer support. Contact information can typically be found on the SHARP official website or on the product packaging.

	<p>Sharp 4K Ultra HD LED TV User Manual</p> <p>Comprehensive user manual for Sharp 4K Ultra HD Full Array LED TVs, models 4T-C60BK2UD and 4T-C70BK2UD. Includes setup instructions, safety precautions, troubleshooting, and specifications.</p>
	<p>SHARP R-234/R-234F Mikrowellengerät Bedienungsanleitung mit Kochbuch</p> <p>Umfassende Bedienungsanleitung und Kochbuch für das SHARP R-234/R-234F Mikrowellengerät, das detaillierte Anweisungen zur sicheren Bedienung, Wartung und verschiedene Rezepte für die Zubereitung von Speisen bietet.</p>
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