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## Evapolar EV-500W

# Evapolar evaCHILL Portable Air Cooler Instruction Manual

Brand: Evapolar | Model: EV-500W

## 1. PRODUCT OVERVIEW

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The Evapolar evaCHILL is a compact 3-in-1 personal evaporative air cooler designed to cool, humidify, and filter air in your personal space. It utilizes evaporative technology to provide a comfortable microclimate, making it ideal for desks, offices, cars, or camping. This device is intended for personal cooling, not for cooling entire rooms.



Figure 1: Front view of the Evapolar evaCHILL Portable Air Cooler.

### Key Features:

- **3-in-1 Functionality:** Cools, humidifies, and catches large dust particles using evaporative technology.
- **Portable Design:** Features a handy handle for easy transport, making it suitable for various personal spaces.
- **Simple Control:** Equipped with one-button control and 4 fan speeds for customized comfort.
- **Natural Cooling:** Provides a pleasant cool breeze within 3-5 feet in the direction of airflow, most effective in relative humidity not exceeding 70%.
- **Energy-Efficient:** Consumes only 10W, contributing to lower energy bills.
- **Safe for Breathing:** Utilizes a long-lasting evaBREEZE basalt fiber material, which is 100% safe.
- **USB Powered:** Can be powered via USB from power banks, laptops, and car power outlets (minimum 2A 5V capacity required).

# Features



Figure 2: Key features of the evaCHILL unit, including one-button control, 800ml water tank, rotating grill, and LED light.

## 2. SETUP AND INITIAL USE

Follow these steps for the first-time setup of your evaCHILL unit:

1. **Unpack:** Carefully remove the evaCHILL unit and all accessories from the packaging. Ensure all protective films and packaging materials are removed, especially from the filter cartridge.
2. **Access Water Tank:** To access the water tank, slide the top handle piece upwards. This will reveal the water tank compartment.
3. **Fill Water Tank:** Using the provided funnel, fill the 800ml (27 fl oz) water tank with cold, filtered water. Do not overfill. The unit is designed to hold enough water for 6-7 hours of operation. Avoid adding ice cubes directly into the tank.
4. **Connect Power:** Plug the micro USB power cable into the unit's port. Ensure the port is protected with the silicone plug while filling to prevent water ingress. Connect the other end to a compatible USB power source

(e.g., power bank, laptop, car outlet) with a minimum capacity of 2A 5V.

5. **Power On:** Press the single button on top of the unit to power it on. The unit will start operating at its lowest fan speed.
6. **Initial Saturation:** Allow the filter cartridge to fully soak for at least 20 minutes before expecting optimal cooling performance. During this time, the water will saturate the basalt fiber material, which is crucial for the evaporative cooling process.



Figure 3: Simple steps for setting up and using your evaCHILL unit.

### 3. OPERATING INSTRUCTIONS

Your evaCHILL unit is designed for ease of use with its intuitive one-button control.

#### Fan Speed Control:

- Press the button once to cycle through the 4 available fan speeds. Each press will increase the fan speed.
- The unit operates quietly, with a noise level of approximately 25 dB, ensuring minimal disturbance.

#### LED Light Control:

- The unit features an integrated LED light.
- To turn the LED light off or on, press and hold the control button for a few seconds while the unit is running.

#### Optimal Placement:

- Place the evaCHILL unit within 3-5 feet of your personal space to feel the direct cooling effect.
- The evaporative cooling technology is most effective in dry climates (relative humidity below 70%). In highly humid environments, the cooling effect will be less pronounced.
- The unit can be used independently or in conjunction with a traditional air conditioning system to enhance comfort and reduce overall energy consumption.

# Whisper-Quiet, Yet Powerful



Figure 4: The evaCHILL is designed for quiet operation, suitable for use in bedrooms or quiet workspaces.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your evaCHILL unit.

### Cartridge Replacement:

- The evaBREEZE cartridge is a replaceable component. Its natural basalt fiber material may vary in color from white to dark green, and a small amount of basalt dust inside is normal and safe.
- Refer to the detailed instructions in the included Product Guide for specific steps on how to replace the cartridge.

### Cleaning:

- Periodically clean the exterior of the unit with a soft, damp cloth.

- Ensure the unit is disconnected from the power source before cleaning.

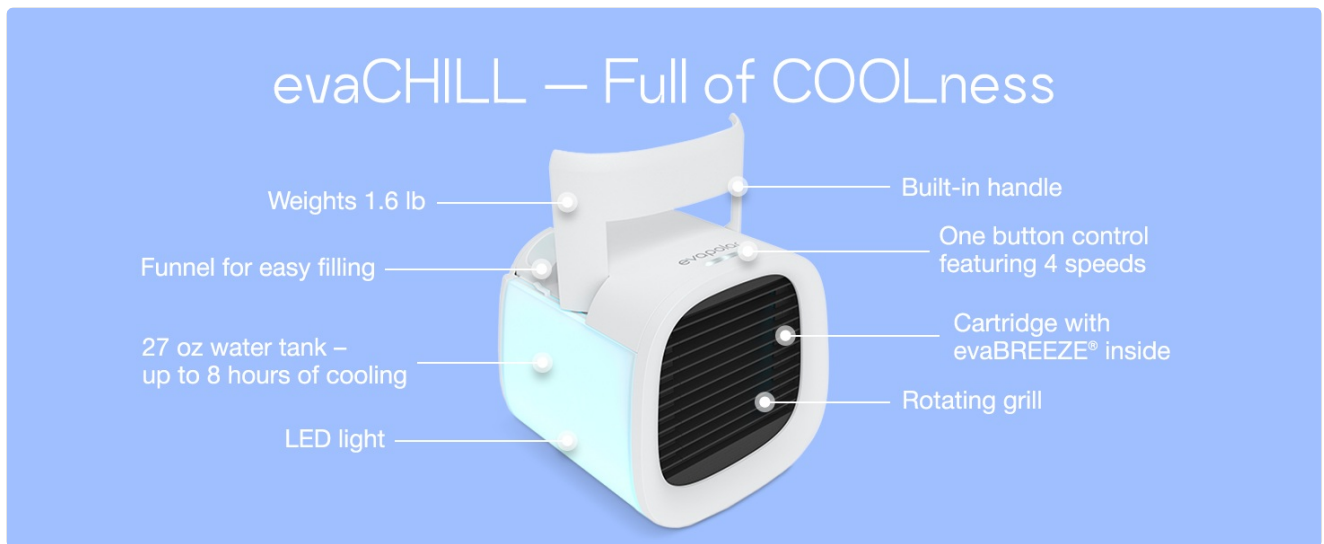


Figure 5: The evaBREEZE filter, made from natural basalt fiber, is key to the unit's cooling and air purification.

## 5. TROUBLESHOOTING

If you encounter issues with your evaCHILL unit, refer to the common problems and solutions below:

### Unit Not Cooling Effectively:

- **Initial Saturation:** Ensure the filter cartridge has had sufficient time (at least 20 minutes) to fully soak with water. The cooling effect will increase as the cartridge becomes saturated.
- **Humidity Levels:** The evaporative cooling technology performs best in dry climates (relative humidity below 70%). In highly humid environments, the cooling effect will be less noticeable.
- **Water Level:** Check if the water tank is adequately filled. Refill with cold, filtered water if necessary.
- **Placement:** Ensure the unit is placed within 3-5 feet of your personal space for direct airflow.

### Water Leakage:

- **Overfilling:** Do not overfill the water tank. Ensure the water level does not exceed the maximum fill line.
- **Power Port Protection:** Always ensure the silicone plug is securely in place over the power port on the back of the unit when filling the water tank to prevent water from entering the electronics.
- **Unit Position:** Ensure the unit is placed on a flat, stable surface to prevent tipping and spillage.

### Unit Not Powering On:

- **Power Connection:** Verify that the USB cable is securely connected to both the evaCHILL unit and the power source.
- **Power Source:** Ensure your USB power source (e.g., power bank, laptop, wall adapter) provides at least 2A 5V. Try a different power source if unsure.

## 6. SPECIFICATIONS

Attribute	Detail
Brand	Evapolar
Model Name	evaCHILL (EV-500W)
Mounting Type	Freestanding
Color	Opaque White
Air Flow Capacity	49.1 Cubic Feet Per Minute
Controls Type	Button
Reservoir Capacity	800 Milliliters (27 Fluid Ounces)
Floor Area (Effective)	26 Square Feet
Included Components	Replaceable cartridge, Power cable USB micro, Funnel, Product Guide
Standby Power Consumption	7.5 Watts
Noise Level	25 dB
Number of Speeds	4
Product Dimensions	6.5"D x 6.5"W x 6.5"H
Voltage	5 Volts
Item Weight	1.65 pounds

## 7. WARRANTY AND SUPPORT

Your Evapolar evaCHILL unit comes with a **1-year limited warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For detailed warranty information, troubleshooting, and additional support, please refer to the official documents:

- [User Guide \(PDF\)](#)
- [User Manual \(PDF\)](#)

For further assistance, please visit the official Evapolar website or contact customer support.