

Eva-Dry E-250

Eva-Dry E-250 Mini Renewable Dehumidifier Instruction Manual

1. INTRODUCTION AND OVERVIEW

The Eva-Dry E-250 Mini Renewable Dehumidifier is a compact and efficient solution for controlling humidity in small, enclosed spaces. This unit utilizes advanced silica gel technology to absorb excess moisture from the air, helping to prevent mold, mildew, and musty odors. Designed for convenience, it operates silently without electricity during the absorption phase and is completely reusable.

Ideal for areas up to 250 cubic feet, the E-250 is perfect for use in closets, RVs, boats, storage rooms, gun safes, bathrooms, and other similar environments. The unit features a clear indicator window that changes color to show when the silica gel crystals have absorbed their maximum capacity and require renewal.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating or recharging your Eva-Dry E-250 dehumidifier. Failure to follow these instructions may result in injury or damage to the unit.

- **General Use:** Keep the unit out of reach of children and pets, especially during the recharging process.
- **Recharging:** Only recharge the unit in a well-ventilated area. Do not block the ventilation slots on the unit during recharging.
- **Electrical Safety:** Ensure the electrical outlet used for recharging is functional and properly grounded. Do not use extension cords if possible; if necessary, use a heavy-duty, grounded extension cord.
- **Water Exposure:** Do not immerse the unit in water or expose it to excessive moisture. This unit is designed to absorb moisture from the air, not to be submerged.
- **Damage:** Do not operate the unit if it appears damaged. Contact customer support for assistance.
- **Disassembly:** Do not attempt to open or repair the unit yourself. There are no user-serviceable parts inside.

3. SETUP

The Eva-Dry E-250 is designed for immediate use upon unpacking. No complex assembly or initial power connection is required for its dehumidification function.

1. **Unpack:** Carefully remove the Eva-Dry E-250 unit from its packaging.
2. **Placement:** Place the unit in the desired small, enclosed space where moisture control is needed. Ensure it is positioned where air can circulate around it for optimal performance.
3. **Initial Check:** Observe the moisture indicator window on the front of the unit. The silica gel beads should be **orange**, indicating the unit is dry and ready to absorb moisture. If they are green, the unit may have absorbed moisture during shipping and requires recharging before first use (refer to Section 5: Maintenance).



Figure 3.1: Front view of the Eva-Dry E-250 Mini Dehumidifier, showing the moisture indicator window.



Figure 3.2: Side view of the Eva-Dry E-250 Mini Dehumidifier, illustrating its compact profile.

4. OPERATING INSTRUCTIONS

The Eva-Dry E-250 operates passively, absorbing moisture without any moving parts or noise. Its operation is simple and requires minimal attention.

1. **Moisture Absorption:** Once placed in an enclosed space, the silica gel crystals inside the unit will begin to absorb moisture from the surrounding air. This process is silent and requires no power.
2. **Monitoring the Indicator:** Regularly check the moisture indicator window on the front of the unit. The silica gel beads will gradually change color as they absorb moisture:
 - **Orange:** Indicates the unit is dry and actively absorbing moisture.
 - **Green:** Indicates the unit has absorbed its maximum capacity (up to 170 grams) and needs to be renewed.
3. **Duration:** The time it takes for the beads to turn green depends on the humidity level of the environment. Typically, the unit can absorb moisture for 20-30 days before requiring renewal.

When the indicator beads are fully green, proceed to Section 5 for recharging instructions.

5. MAINTENANCE (RECHARGING)

The Eva-Dry E-250 is renewable, meaning you can dry out the absorbed moisture and reuse the unit repeatedly. This process is simple and requires a standard electrical outlet.

1. **Locate the Plug:** On the back of the Eva-Dry E-250, locate the retractable electrical plug. Press the 'PRESS' button or slide the cover to extend the prongs.
2. **Plug In:** Insert the extended plug into a standard 110-240V AC electrical outlet. Ensure the outlet is in a well-ventilated area, as the unit will generate a small amount of heat during the drying process.
3. **Recharging Process:** The unit will begin to gently heat up, evaporating the absorbed moisture from the silica gel crystals. During this time, the green indicator beads will gradually revert to their original **orange** color.
4. **Completion:** Allow the unit to recharge for approximately 8-12 hours, or until the indicator beads are completely orange. Do not interrupt the process prematurely.
5. **Unplug and Store:** Once the beads are orange, unplug the unit from the outlet and fold the electrical prongs back into their housing. The unit is now renewed and ready for reuse.

Important: Do not block the ventilation slots on the unit while it is plugged in and recharging. Ensure adequate airflow around the unit to facilitate the drying process and prevent overheating.



Figure 5.1: Rear view of the Eva-Dry E-250 Mini Dehumidifier, showing the retractable plug for recharging.

6. TROUBLESHOOTING

If you encounter issues with your Eva-Dry E-250, refer to the following troubleshooting guide:

- **Unit not absorbing moisture:**
 - Check the indicator window: If the beads are green, the unit is saturated and needs recharging.
 - Ensure the unit is placed in an enclosed space: Open or very large areas may dilute its effectiveness.

- Verify humidity levels: In very low humidity environments, the unit may not show significant changes.

- **Unit not recharging (indicator beads remain green):**

- Confirm the unit is securely plugged into a functional electrical outlet.
- Ensure the recharging process is allowed sufficient time (8-12 hours).
- Check that the ventilation slots are not obstructed, allowing proper airflow for drying.
- If the outlet is controlled by a switch, ensure the switch is in the 'ON' position.

- **Unit feels warm during recharging:** This is normal. The unit generates heat to release absorbed moisture. Ensure it is in a well-ventilated area and not covered.

If these steps do not resolve the issue, please contact Eva-Dry customer support.

7. SPECIFICATIONS

Model	E-250
Dimensions (L x W x H)	16.51 x 5.08 x 10.16 cm (6.5 x 2 x 4 inches)
Weight	462.66 grams (1.02 pounds)
Material	Silica Gel
Coverage Area	Up to 250 cubic feet (approx. 250 sq ft)
Absorption Capacity	Up to 170 grams (6 ounces)
Recharge Time	8-12 hours
Operating Temperature Range	Up to 104°F (40°C)
Power Input for Recharging	110-240V AC
Special Features	Renewable, Cordless operation during dehumidification

8. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official Eva-Dry website. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact Eva-Dry customer service directly. Contact details can typically be found on the product packaging or the manufacturer's website.