

[Manuals.plus](#) /

> [MechMaxx](#) /

> MechMaxx 880L ESD Desiccator Cabinet User Manual

MechMaxx EDC880C

MechMaxx 880L ESD Desiccator Cabinet User Manual

Model: EDC880C

Brand: MechMaxx

PRODUCT OVERVIEW

The MechMaxx 880L ESD Desiccator Cabinet is designed for the precise control of humidity, maintaining levels between 1-10% RH. This unit is ideal for storing moisture-sensitive components such as semiconductors, optical lenses, printed circuit board assemblies, and laboratory chemicals. It features advanced, self-regenerating desiccants, eliminating the need for external nitrogen or compressed air.

Key features include:

- **Ultra-Low Humidity Control:** Maintains humidity levels between 1-10% RH to protect moisture-sensitive components. Utilizes advanced, self-regenerating desiccants, eliminating the need for nitrogen or compressed air.
- **Modular & Flexible Design:** Customizable with easily replaceable modules, including dehumidifiers, shelves, controller, and power unit. Add additional modules as your needs grow, providing a future-proof solution.
- **Robust Structure:** Built with durable materials like powder-coated steel and tempered glass for long-lasting performance. Designed to withstand frequent access without compromising the storage environment.
- **Anti-Static Protection:** ESD-safe features include anti-static coatings (body and shelves), anti-static casters, and 1 MΩ ground wire, protecting electronic components from electrostatic discharge.
- **Intelligent Digital Control:** The intelligent microcomputer control system precisely regulates both temperature and humidity. Equipped with high-precision humidity sensor, it ensures stable and reliable performance. The humidity settings feature a memory function, so there's no need to reset after power loss.





Figure 1: Front view of the MechMaxx 880L ESD Desiccator Cabinet.

1. Unboxing and Inspection

Carefully remove the desiccator cabinet from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the packing list are present. Retain original packaging for future transport or storage.

2. Placement

Place the cabinet on a stable, level surface. Ensure there is adequate clearance around the unit for proper ventilation and access. Avoid placing the cabinet near heat sources, direct sunlight, or in areas with high humidity fluctuations.



Figure 2: The cabinet is equipped with both casters for mobility and adjustable leveling feet for stability. Engage the caster brakes (as shown in the video) to secure the cabinet in place.

3. Shelf Installation

The cabinet comes with adjustable shelves. To install or adjust shelves:

1. Open the cabinet doors.
2. Locate the shelf support brackets on the interior side walls.
3. Insert the shelf into the desired slots, ensuring it is level and securely seated on all four brackets.



Figure 3: Installing an adjustable shelf within the cabinet. The shelves can be repositioned to accommodate items of various sizes.

For a visual guide on shelf installation, please refer to the product demonstration video below (0:24 mark).

4. Power Connection

Locate the power input on the rear of the cabinet. Connect the provided power cord to the cabinet and then to a grounded electrical outlet. Ensure the power source matches the voltage requirements specified on the product label.





Figure 4: Rear panel of the cabinet, highlighting the power input and ventilation areas for the dehumidification units.

A demonstration of connecting the power can be found in the product video (0:40 mark).

5. Grounding

The cabinet is equipped with a 1 MΩ ground wire for ESD protection. Connect this ground wire to an appropriate grounding point in your facility to ensure proper electrostatic discharge safety for sensitive electronic components.

OPERATING INSTRUCTIONS

1. Initial Power On

After connecting the power, press the “ON/OFF” button on the control panel. The LED screen will light up, displaying the current temperature and humidity inside the cabinet.



Figure 5: The intelligent digital control panel displays current humidity and temperature, and allows for setting adjustments.

2. Setting Desired Humidity

To set the required humidity level:

1. Press the “SET” button (often represented by a gear icon or similar).
2. Use the “UP” (▲) and “DOWN” (▼) buttons to adjust the target humidity percentage.
3. Once the desired humidity is set, release the button. The system will automatically save the setting within 5 seconds and begin to adjust the internal humidity to the new target. The temperature display cannot be adjusted manually.

The humidity settings feature a memory function, so there is no need to reset after a power loss.

See the product video for a demonstration of setting the humidity (0:43 mark).

3. Locking the Doors

The cabinet doors are equipped with locks to secure contents. Use the provided keys to lock and unlock the doors as needed.



Figure 6: The cabinet doors feature secure locking mechanisms to protect stored items.

A demonstration of the door locking mechanism is available in the product video (0:16 mark).

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your desiccator cabinet.

- **Cleaning:** Wipe the exterior and interior surfaces with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or internal components.
- **Door Seals:** Periodically inspect the door seals for any signs of wear or damage. Ensure they are clean and free of debris to maintain an airtight environment.

- **Ventilation:** Ensure the ventilation grilles on the rear of the cabinet are not obstructed to allow for proper air circulation for the dehumidification units.
- **Power Cord:** Check the power cord for any fraying or damage. Replace immediately if any damage is found.

TROUBLESHOOTING

If you encounter issues with your MechMaxx Desiccator Cabinet, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Humidity not decreasing	Door not properly sealed.	Ensure doors are fully closed and latched. Check door seals for damage.
	Cabinet overloaded with moisture-laden items.	Remove some items or allow them to pre-dry before placing in the cabinet.
	Dehumidification unit malfunction.	Contact customer support for assistance.
	Ambient humidity is extremely high.	Consider placing the cabinet in a less humid environment if possible.
Display not working	No power supply.	Check power cord connection and wall outlet.
	Control panel malfunction.	Contact customer support for assistance.
Unusual noise from unit	Internal fan obstruction.	Ensure nothing is blocking the internal fans.
	Component issue.	Contact customer support for diagnosis.

SPECIFICATIONS

Feature	Detail
Brand	MechMaxx
Model	EDC880C
Humidity Control Range	1-10% RH
Color	Black
Recommended Uses	Laboratory Chemicals, Semiconductors, Optical Lenses, Printed Circuit Board Assemblies
Special Features	Adjustable Shelf, Customizable, Durable, Lockable, Moisture Resistant, Wheeled
Mounting Type	Floor Mount
Door Style	Open Frame (with glass panels)
Included Components	Dry Cabinet
Finish Type	Powder Coated
Number of Shelves	3
Base Type	Legs (with casters)
Installation Type	Freestanding
Top Material Type	Steel

Feature	Detail
Assembly Required	No (minor setup like shelf installation)
Frame Material	Alloy Steel
Item Weight	362 pounds
Package Dimensions	80 x 38 x 28 inches
Date First Available	February 10, 2025

PRODUCT DEMONSTRATION VIDEO

Your browser does not support the video tag.

Video 1: Official demonstration of the MechMaxx Dry Cabinet Desiccator Cabinet, showcasing its features, operation, and key components. This video provides a visual guide to setup and usage.

WARRANTY AND SUPPORT

MechMaxx products are designed for durability and performance. For warranty information, technical support, or service inquiries, please contact MechMaxx customer service through their official website or the retailer where the product was purchased. Please have your model number (EDC880C) and purchase date available when contacting support. For more information, visit the [MechMaxx Store on Amazon](#).

© 2025 MechMaxx. All rights reserved.

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

Open the live page

<https://manuals.plus/asin/B0DWMVZSSP>

More documents and user manuals: <https://manuals.plus/>