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AUTENS AD-30L

AUTENS 30L Dehumidifying Dry Cabinet Box

Model: AD-30L

PRODUCT OVERVIEW

The AUTENS 30L Dehumidifying Dry Cabinet Box provides a stable humidity environment for sensitive items. It utilizes a microprocessor and TE Cooling technology to detect and regulate temperature and humidity in real-time. The system automatically initiates dehumidification when humidity exceeds the set value and stops when the desired level is reached, ensuring optimal preservation conditions.



Figure 1: Front view of the AUTENS 30L Dehumidifying Dry Cabinet with electronic equipment stored inside.

Key Features:

- **Stable Humidity Control:** Microprocessor and TE Cooling design ensure precise humidity regulation.
- **Energy Efficient:** Operates in a power-saving mode, consuming only 8W.
- **Safe & Noiseless:** Designed without leakage risks or fire hazards, and operates silently without radiation.
- **High Accuracy:** Humidity control accuracy of $\pm 1\%RH$ (laboratory data).

- **Durable Design:** Constructed from high-quality steel plate and aluminum alloy frame with toughened glass door.
- **Dual Display:** Features an LED screen displaying both temperature and humidity simultaneously.
- **Adjustable Interior:** Includes adjustable shelves and internal LED lighting.



Figure 2: Overview of the dry cabinet's energy-saving, noiseless, safe, and radiation-free operation.

SETUP GUIDE

The AUTENS 30L Dehumidifying Dry Cabinet is designed for straightforward setup. Follow these steps to prepare your cabinet for use:

1. **Unpacking:** Carefully remove the dry cabinet from its packaging. Inspect for any damage during transit.
2. **Placement:** Place the cabinet on a stable, level surface. Ensure it is away from direct sunlight, high temperatures, and heat sources.
3. **Power Connection:** Plug the power cord into a suitable electrical outlet. The digital display will illuminate.

4. **Initial Run:** It is recommended to run the empty cabinet for more than 8 hours when first using it, or after a long period of disuse, to allow the internal humidity to stabilize at a lower level.
5. **Loading Items:** Once the cabinet has stabilized, you can begin placing your valuable items inside. Arrange them on the adjustable shelves as needed.
6. **Secure the Door:** Close the magnetic cabinet door tightly to ensure a proper seal. Use the provided keys to lock the door for added security.

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20.3 °C
39% RH
Temperature Humidity

F/C Set
M/RH
SET

Dehumidifier





Figure 3: The dry cabinet empty, ready for setup and loading.

OPERATING INSTRUCTIONS

The dry cabinet features a digital control panel for easy operation. The dual screen displays current temperature and humidity levels.

Setting Humidity Levels:

- The relative humidity level inside the cabinet can be controlled within a range of 25% to 60%.
- Use the control buttons (usually 'UP' and 'DOWN' arrows, and 'SET') on the panel to adjust your desired humidity percentage.
- The system will automatically work to maintain the set humidity level.

LED Lights:

- The internal LED lights can be turned ON or OFF using a dedicated switch, typically located near the control panel or inside the cabinet.
- Turning off the LED lights can help save energy, especially at night.

Product details

2 Keys



Wave sponge



LED lights



Movement

Magnetic stripe



Crystal shelf

Figure 4: Detail of the control panel and internal LED lighting.

WIDE APPLICATION

The AUTENS Dehumidifying Dry Cabinet is versatile and suitable for preserving a wide range of moisture-sensitive items, protecting them from rust, oxidation, warping, and degradation.

WIDE APPLICATION



paper money



jewelry



Photography equipment



old books



cigarette



stamps

Figure 5: Examples of items that can be stored in the dry cabinet.

Recommended Humidity Levels for Storing Different Items:

Recommend Humidity for storing different items.

Relative humidity (RH%) Level	Recommended Items
50%-60%	Books, antique documents, paper of fax, copy, print
40%-50%	Camcorders, cameras, lenses, telescopes, microscopes, endoscopes, compact discs, film negatives, film transparency/slides, microfilm, disk drives, audio and video tapes
30%-40%	Mental and mental powder products, electrical equipment, semiconductors, capacitors, printed circuit boards, IC, batteries and other electronic equipment, precision measuring tools, spectrometers, optics, lenses
25%-30%	Pharmaceutical raw materials, spices, powder coating, adhesives, seeds, pollen, dry flour

Figure 6: Guide for optimal humidity settings based on item type.

CARE AND MAINTENANCE

Proper care ensures the longevity and optimal performance of your dry cabinet.

Important Tips:

- It is ideal to run the empty cabinet for more than 8 hours when first using it or after prolonged disuse, until the humidity reaches a lower level.
- The dry cabinet may take at least 3 hours to reach the set humidity point when storing a large quantity of items or items with high moisture content for the first time.
- The internal temperature displayed on the digital control is monitored but cannot be actively controlled by the unit.
- Keep the dry case away from direct sunlight, high temperature, and other heat sources.
- To ensure the best dehumidification results, always ensure the cabinet's door seals tightly.
- It is normal for the internal humidity level to increase when the door is opened, as cool air enters the dry box. The longer the door remains open, the higher the humidity will become.



WARM TIPS

1. It is ideal to run more than 8 hours with empty container when first using this electronic dry cabinets or unused for a long time until the humidity has moved down to lower level.
2. This dry cabinets takes at least 3 hours to reach to the set point when storing a large quantity of items or high moisture in them when first time using
3. The internal temperature of the digital control humidity dry box can be monitored but can't be controlled
4. Keep the dry case away from sunlight, high temperature, and heat source
5. In order to make sure the best dehumidification result, please ensure that the dryer cabinet's door seals tightly
6. It is normal that the internal humidity level has increased when the cooling air goes into the dry box after door opened. The longer time the door opened, the higher humidity will be increased

Figure 7: Essential tips for effective use and maintenance.

TROUBLESHOOTING

If you encounter issues with your AUTENS 30L Dehumidifying Dry Cabinet, consider the following common solutions:

- **Cabinet Not Dehumidifying:**

- Ensure the power cord is securely plugged into a working outlet.
- Check if the door is fully closed and sealed. A loose seal can prevent proper dehumidification.
- Verify that the set humidity level is lower than the current internal humidity. The unit will only dehumidify if the current humidity is above the set point.
- Allow sufficient time for the unit to reach the desired humidity, especially if the cabinet was recently opened or loaded with high-moisture items.

- **Display Not Working:**

- Check the power connection.
- Ensure there hasn't been a power outage or surge. Try unplugging and re-plugging the unit after a few minutes.

- **Unusual Noises:**

- The unit is designed to be noiseless. If you hear unusual noises, ensure the cabinet is on a stable, level surface and nothing inside is vibrating against the walls.
- If the noise persists, contact customer support.

PRODUCT SPECIFICATIONS

Specification	Detail
Brand	AUTENS
Model Name	AD-30L
Capacity	30 Liters
Product Dimensions (D x W x H)	16.5"D x 11.41"W x 12.6"H
Item Weight	16.74 pounds (7.61 Kilograms)
Color	Black
Special Feature	Digital Display
Wattage	8 watts
Operation Mode	Sleep
Included Components	DRY BOX

Product Size



Figure 8: Product dimensions for the AUTENS 30L Dry Cabinet.

WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your AUTENS 30L Dehumidifying Dry Cabinet, please refer to the documentation included with your purchase or visit the official AUTENS website. You may also contact the seller directly through the platform where the product was purchased for assistance.

Always retain your proof of purchase for warranty claims.