

Operation instruction for moisture-proof cabinet

Welcome to choose NMC series electronic moisture-proof cabinet produced by Suzhou Nargon Electronic Equipment Co., LTD. Please read this manual carefully before using so as to give the best performance and avoid unnecessary loss.

First, we would like to thank you for purchasing Nargon NMC series electronic moisture-proof cabinet. We are convinced that this product will improve your working environment and play a good role in improving product quality.

This manual describes all the characteristics of NMC series electronic moisture-proof cabinets. For special non-standard products, please read and use the manual together with the additional instructions. For non-standard products with only ruler marking or material change, no additional instructions will be given.

In order to ensure the most effective operation of the product, please read this manual carefully and get familiar with the product. And keep the manual in a convenient place for reference at any time in the use of the product.

In order to ensure the safe and reliable operation of the product, please designate a special person as the operation manager of the product. In case of failure of the product, please immediately report to the manager or contact the company. **Contact number: 0512-52179330**

specification table of Nargon NMC series electronic moisture-proof cabinet

nominal volume L	Medium humidity model 20%-60%RH adjustable	Ultra-low humidity model 1%-40%RH fully automatic	External dimensions W*D*H(mm)	Internal dimensions W*D*H (mm)	Layers
160L	NMC161	NMC161B	W450*D450*H1010	W405*D420*H840	3
240L	NMC242	NMC242B	W600*D450*H1250	W555*D420*H1080	3
320L	NMC322	NMC322B	W900*D450*H1010	W855*D420*H840	3
450L	NMC452	NMC452B	W900*D600*H1010	W855*D570*H840	3
540L	NMC542	NMC542B	W600*D690*H1485	W555*D640*H1315	3
730L	NMC732	NMC733B	W600*D690*H1830	W555*D640*H1660	5
730	NMC733	NMC733B	W600*D690*H1830	W555*D640*H1660	5
880L	NMC884	NMC884B	W900*D600*H1860	W855*D550*H1680	5
1430L	NMC1434	NMC1434B	W1200*D690*H1830	W1155*D640*H1660	5
1430L	NMC1436	NMC1436B	W1200*D690*H1830	W1155*D640*H1660	5

Functions and features:

Humidity control:

Touch CNC humidity control; humidity range is adjustable.

Rated voltage (Rated voltage) : AC220V / 60 hz, extremely low power consumption

The dehumidifier core whose performance is highly reliable and durable adopts the dehumidifier technology with Chinese patent, making it work without noise or water.

Keep at room temperature and humidity, no heating effect; which will not affect the quality of store items.

The shelf position can be adjusted to facilitate the storage of articles of different heights.

Use special hygroscopic material which needs no change.

No vibration, no water; clean storage

For detailed information, please refer to the "Nargon NMC series electronic moisture-proof cabinet user manual".

General product installation steps (when the moisture-proof box is used for the first time or has been out of use for a period of time and needs to be reused), please follow the following steps to install:

Note: Turn on the power after confirming that the four legs of the goods are adjusted and stabilized. And adjust humidity when the power is on. After 24 hours, check and confirm the humidity reaches the set humidity, then put the product in.

Preparation before starting:

Cabinet placement:

1. Moisture-proof cabinet must be placed in the horizontal solid surface; Turn the balancing feet to solid
2. Reserve a certain space on the back to facilitate moisture removal (no less than 20cm away from the movement)
3. Please do not put the moisture-proof cabinet in the following places:
 - 1) air flow direction, such as air outlet of air conditioner.
 - 2) high temperature
 - 3). Direct sunlight
 - 4) smoke, water vapor places
4. Adjust the height of each layer of the adjustable laminates in the cabinet according to the height of the placement

How to use:

1. It is recommended to use wall fixed independent socket, 220V/ 10a socket
2. Press the "ON/OFF" button ON the far right of the numerical control panel. Humidity setting can be started when the display screen lights up .
3. Press the "+" and "-" button on the numerical control panel and adjust it to the humidity you need. After 5 seconds, the computer will record it. Set humidity values.

4. At this time, the red light of the dehumidifier movement is on. And lighting up of green "RUN" light on the left side of the display indicates that the valve has been opened outwardly normally. After a few minutes, the green light of the dehumidifier movement is on. Then the red "OUT" light is on. Movement heating indicates that the movement starts to drain moisture outwards.
5. After the dehumidifying of the dehumidifier movement is finished, dehumidifying shall be started. When lights "RUN" "OUT" are off, it begins to turn into the moisture inside the absorption box, and at the same time, the red light and green light on the dehumidifying movement are off. The dehumidifying work starts.
6. Leave the moisture-proof box empty and the warm-up machine running for one night or more than 10 hours (do not place any storage items)
7. Confirm the relative humidity before opening: it is normal that it is below the set humidity;
8. When the articles are put in, the relative humidity will rise; and the host machine will dehumidify slowly and stably. For items with high moisture content, it will take a long time for them to fall back. This is normal. Please feel free to use.
9. The goods stored in the cabinet should not be too close to the housing of the movement, so as not to cover the moisture absorption port of the dehumidifier

Matters needing attention:

This is not a failure in this case

1. The temperature and humidity control panel on the cabinet has been calibrated and calibrated by the temperature and humidity instrument calibrated by the national standard measurement department for 24 hours when the product leaves the factory. To avoid misleading, it is necessary to seek the local national standard measurement department for calibration.
2. In the comparison process, the humidity value of the two instruments fluctuates normally on 5%RH, and the humidity error value is 5%RH.
3. It is a normal phenomenon that the humidity in the cabinet increases when the movement valve plate is opened externally, because the humidity in the cabinet is far lower than the ambient humidity before the valve plate is opened. The valve blade switch is not completed in an instant. It takes about 3 minutes. Therefore, the environmental humidity has some influence on the cabinet during this process.
4. When dehumidifying, that is, when the valve plate is opened externally, the surface temperature of the dehumidifying movement is higher than the normal temperature, which is normal. Please do not mistake it for a failure of the dehumidifying movement.
5. Please try to shorten the opening time when you open the door to pick up and release.
6. Do not cover the back dehumidifier core cooling hole
7. When the object is put into the moisture-proof cabinet, the humidity in the moisture-proof box will rise due to the moisture contained in the object itself. And it may take 1 to 2 days for the humidity to fall. For the article containing wrapping paper or cloth, the humidity will fall for a longer time.

Failure and elimination:

Please confirm before repair services

Abnormal conditions	Items to be inspected	Reasons	Processing methods
Humidity can't go down	1. power on or not 2. Whether the power plug is firmly inserted in to the power socket 3. For those equipped with sub-units, please check whether the power cables of the main and sub-units are connected	1. When power is off, humidity will not rise; But if the door is often open or for days without power, moisture will gradually enter the box	1. please confirm the power 2. Please secure the power socket 3. The humidity cannot drop below the set value because the auxiliary machine is not working
	4. Switching time of glass door is too long 5. Glass doors' opening and closing are too often	2. causing a large number of moisture into the box and the relative humidity rise.	4. Reduce opening time and frequency.
	6. Newly added items with high moisture content: such as: paper products, wood products, leather products, etc	3. As water molecules are constantly released due to the high moisture content of the articles, the rate of humidity decline will be affected.	5. It takes a long time to observe, sometimes as long as several weeks, to reach the low wet range.
The indicator light "RUN" and "OUT" on the temperature and humidity display screen is not on	Whether the relative humidity is in stable range or in continuous decline.	The dehumidifying heart is absorbing the humidity in the chamber.	This is a normal phenomenon. When desiccant heart hygroscopic saturation, it will automatically light up to discharge the humidity of the cabinet.
The indicator light in the dehumidifier is not on	Whether the relative humidity is in stable range or in continuous decline.	The dehumidifying heart is absorbing the humidity in the chamber.	This is a normal phenomenon. When desiccant heart hygroscopic saturation, it will automatically light up to discharge the humidity of the cabinet.

Check the following items again before commissioning them for repairing

Abnormal condition	Items to be inspected	Reasons	Processing method
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Humidity display value is abnormal, the value does not change.	Please open the door next to the digital display screen of temperature and humidity. There is an aviation plug at the left rear of the display screen. Please unscrew it and press it again.	Air plug connection of temperature and humidity sensor component is not reliable. It might have been loosened during the transit	Please reinstall the air connector for the sensor component or contact our customer service department for details of the abnormality.
Humidity only rise and cannot fall; or rising and falling amplitude of humidity is unusual.	<ol style="list-style-type: none"> 1. Please pull the power plug directly and reset the required humidity after plugging it in. 2. Please confirm in detail whether the "RUN" and "OUT" indicators on the left side of the temperature and humidity display are on. 3. After 30 minutes of power on, touch the plastic shell on the back of each dehumidifier movement to see if there is any heat. The heat is normal 4.. If the indicator light in the dehumidifier movement does not work, please check whether the power cord is securely plugged in at the back of the cabinet. 5. After power on for about 20 minutes, please observe whether the upper and lower valves of the dehumidifier movement are opened externally at the back of the cabinet. At this time, touch the wet air discharge outlet on the back of the movement with your hand and feel the warm and wet water vapor discharged; 6After about 90 minutes, the water gas discharge is completed. At this time, the front indicator light will go out and the upper and lower valves will also be closed. 	Unless otherwise stated in the following column, the dehumidifier movement (not heating and upper and lower valves can not be opened and closed) shall be returned to the factory for maintenance.	<p style="color: red;">0512-52179330</p> <p>Please contact our customer service department directly at:</p> <p style="color: red;">0512-52179330</p>

applications and storing items for reference

Relative humidity	Suitable storage of items
45%RH—60%RH	Books, antiques, paper money, old books, fax paper, copy paper

45%RH—55%RH	Camera, video camera, camera, microscope, magnifying glass, binoculars, magnetic tape, magnetic disk, tape, film (light), the positive and negative film, Musical Instruments, stamps, fur, Chinese traditional medicine, tea, coffee, cigarettes, etc
35%RH—45%RH	Precised hardware molds, measuring instruments, electronic parts, motherboard, metal powder, semiconductor, pharmaceutical raw materials,etc
35%RH 或以下	Samples, standard gauges, seeds, pollen, bulbous roots, etc.
10% RH -40%RH	Patch elements,PCB boards
10%RH 以下	IC. Silicon wafer, wafer.TFT-LCD, LTPS, etc