Operation Manual

Product Manual

■ On the controller, the red digit displays temperature, the green digit displays humidity. During dehumidifying process, the inside temperature will be 1.0-3.0 degree C higher than the ambient temperature.

■ TDA refers to middle humidity series. TDB refers to low humidity series. TDC refers to ultra-low humidity series. TDU refers to bottom humidity series,TDN shows nitrogen cabinet.

■ Additional "F" after 'A''B''C''U''N' refers to anti-ESD coating type.

■ Any new types of the Dry Cabinet will be advised accordingly.

Installation Instruction

1. The dry cabinet is operated under the ambient condition at 30℃, 60%RH.

2. Place the dry cabinet on a flat surface. Turn the adjuster to be balanced.

3. Adjust the height of the shelf as per your storage goods, and the shelf clasp should be put as the following figure.

4. Leave a space of at least 10cm behind the dry cabinet for ventilation.

5. Don't set cabinet at areas where there is direct air flow, such as in front of air conditioner or hot area.

6. Don't place the cabinet in direct sunlight.

7. Don't place cabinet at area where there is smoke or stream.

8. Connect the signal cable in series as the number on the plug, then switch on the power supply(220V/50Hz).

9. Highly corrosive, inflammable and explosive items are prohibited to store inside the dry cabinet.

10. The dry cabinet has the memory function to keep the last target humidity setting, so don't need to set the humidity again even after power off.

11. Don't store the materials like fibre board, paper or wood etc., that contains high moisture, in the dry cabinet. This will delay the humidity elimination process.

12. Don't open the windows too frequently. The opening times shall be well controlled and each opening better to be finished in 15 seconds.

13. Don't place the dry cabinet at high temperature location.

14. Please ensure all above installation procedure have been taken care of before plug it in.
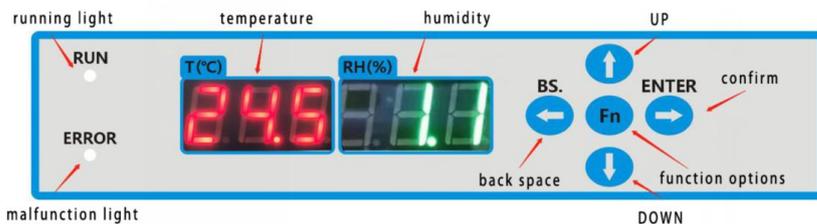

⚠ **STRICTLY PROHIBIT** ⚠

● The following chemicals will cause severe and permanent damage to the sensors.
Ammonia Hydroxide, Acetone,Ethanol, Methanol, Formaldehyde, Benzene, Toulene, Xylene.

● Do not touch the sensors barehanded as it might tamper the sensor and resulting for a re-calibration or even worse, damaged it completely.

Drawing

Ref. Pic.

Digital Display

1. Options of the Control Panel
    1) 2 LED lights for temperature T(℃) in RED and humidity RH(%) in Blue,5 buttons for user operations；
    2) Button of RUN indicates normal working, ERROR for malfunction. Besides, the ERROR will light up once when connecting USB successfully.
    3) UP/DOWN arrows are for figure reducing or increasing. BS. is for back space, ENTER for confirmation, and Fn is for administration. When press Fn to enter admin mode, you'll have 11 functions for resetting, press UP or DOWN arrow to set the required value and press ENTER for confirm, then press BS. back to working status.

2. Starting up
    1) The LED lights will light up for 3 times for self test.
    2)After the self testing, there'll be A-X V1.0, of which A stands for dry cabinet, X stands for the system mode（1-std mode, 2-USB mode, 3-blue tooth mode, 4-networking mode）, V1.O means the working version.
    3)You may reset the target humidity after the self testing, the figure in RED is the bottom and the BLUE is the roof value.

3. Administration mode

Target humidity setting 01

Press Fn to enter admin mode, and press UP or DOWN arrow to select the function (01 for target humidity setting) for resetting and again press UP or DOWN arrow to set the target value, then press ENTER for confirm, you can see SUC in the Blue column, then press BS. back to working status.

Resetting for calibration notice 05

All NetDry models will be well inspected for outcoming. Normally in the first 3years after installation, no need calibration. We suggest once calibration in each year after the first 3-year working, as per ISO regulations on the humidity and temperature sensors. You can reset on the system for calibration notice as below operation:

Press Fn to enter admin mode, and press UP or DOWN arrow to select the function (05 for calibration due date setting) for resetting and again press UP or DOWN arrow to set the target value. The value in RED will be the due date while the BLUE figure will be the options of ON/OFF/Clr. After finish the resetting, press ENTER for confirm, you can see SUC in the Blue column, then press BS. back to working status.

Target temperature resetting for the drying cabinet with heating (for the models with heating) 06

Press Fn to enter admin mode, and press UP or DOWN arrow to select the function (06 for target temperature setting) for resetting and again press UP or DOWN arrow to set the target value. The flickering value in RED will be the bottom limit value while the BLUE figure is the roof limit value. After finish the resetting, press ENTER for confirm, you can see SUC in the Blue column, then press BS. back to working status.

It's defaulted in the system that the difference between the bottom limit and roof limit is 5℃. The temperature resetting range is RT-40℃,from room temperature to 40℃.

Sleep mode of the control panel 09

Press Fn to enter admin mode, and press UP or DOWN arrow to select the function (09 for sleep mode setting) for resetting and press ENTER for sleep mode, you can see all lights off. If you want the system to be back to normal display, operate again as above.

System restart 10

Press Fn to enter admin mode, and press UP or DOWN arrow to select the function (10 for restart mode setting) for resetting and press ENTER for system restart.
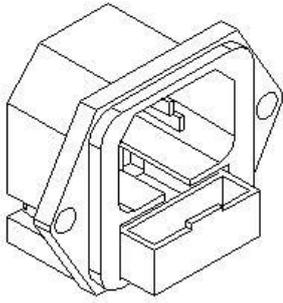
If you have the models with other options, please contact our service for instruction.

Shelf Clasp Fixing Figure

The shelf clasp is of high intension bearing, please place it as the drawing instruction. The shelf slat has many small circle holes at regular distance, to support the shelf on the level surface.
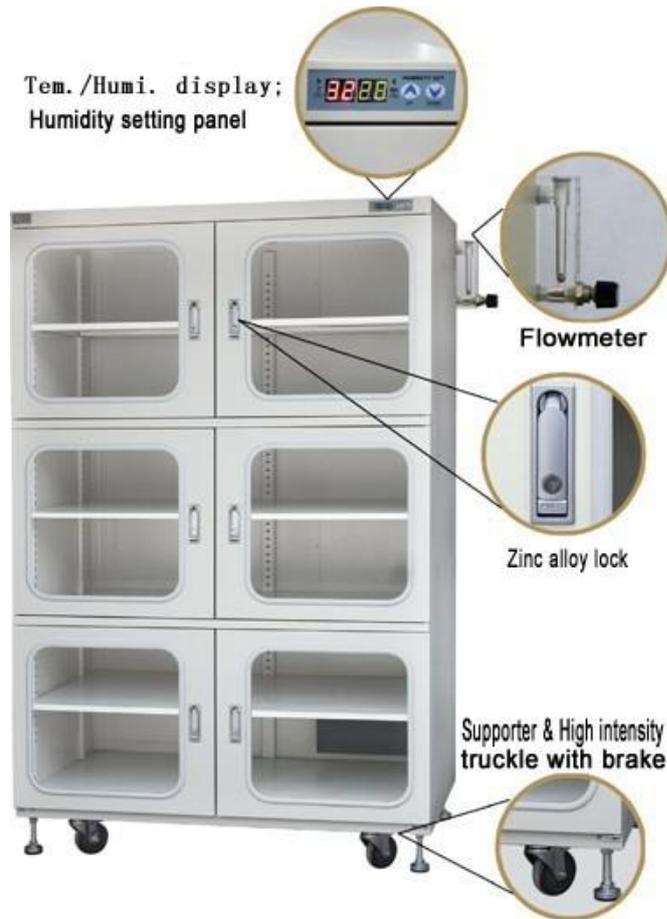
(change the fuse)

This part is on back of the dehumidifying device, pulling out and changing the fuse as the figure. The inside fuse is working fuse and the outside fuse is spare fuse.

Using Notices

1. The dry cabinet is operated under the ambient condition at 30℃, 60%RH.

2. For the first time usage, Plug it in & Keep the box empty for at least 24 hours before storing item.

3. Each time of door opening is suggested be as short as possible, better controlled in 15 seconds, to minimize the humidity rising.

4. Don't need to set for the Ultra-low/Bottom humidity type as both are full automatic type that the micro- computer can control it automatically.

5. The dry cabinet has the memory function, so don't need to set the humidity again even for power off after the first setting.

6. Don't store the materials like fiberboard boxes, paper or wood etc., which contains high moisture in the dry cabinet. This will delay the dehumidifying process.

7. Don't open the doors too frequently, The opening times shall be well controlled,Every time of opening the door should be as short as possible, better controlled in 1 minute.

8. When goods are placed inside the cabinet for storage, the cabinet humidity will rise due to the moisture contained in the goods. It maybe take about 1 to 2 days for dehumidifying. For the goods like package paper or cloth that contain a lot humidity, it might take more than 2 days to dehumidify to normal humidity status.

9. The deviation of humidity value is ±3%RH and temperature is ±1℃.

10. Don't cover the exhaust vent on the back of the dry cabinet.

11. If cabinet has been power off over 24 hours, we suggest to move the goods out of the dry cabinet.

12. It's normal that the surface temperature of the dry cabinet will rise a little as the outer shutter will be open during the dehumidifying process. This does not mean anything wrong with the dry cabinet.

13. If the humidity does not drop down, please switch off the power and restart it again for over 12 hours until the dry cabinet works normally.

SPECIAL INUSTRUCTION FOR N2 CABINET

Tem./Humi. display;
Humidity setting panel

Flowmeter

Zinc alloy lock

Supporter & High intensity
truckle with brake

- Please make sure of the adaptability of power supply before your usage.
- Plugging into the N_2 pipe at the inlet of flow-meter and the inlet pressure should be controlled within 0.4Mpa. The rate of flux can be adjusted within 0~25L/M or 0~60L/M or 0~300L/M, depended on the flow-meter type.
- Setting the target humidity during the running period, and better shut off the flow-meter before open the door, then open up the flow-meter again after close the door and adjust the flux for saving N_2.
- When the humidity is 1 point lower than set target humidity, the electromagnetic valve will shut off the N_2 automatically in half minute. The float ball will be on the bottom at this time. If you find the float ball is not on the bottom, please check whether any gas leakage happens at the connectors.
- When the humidity is 3 point over the setting humidity, the electromagnetic valve will be power-on automatically, then the float ball will rise up and the cabinet will be full of N_2.
- The automatic active time of electromagnetic valve is about half minute.
- The N_2 should be clean and does not contain too much impurity such as oil or granulated solid that will damage the electromagnetic valve.
- If you find the cabinet running wrong, please switch the power off firstly. Then restart again after half minute and adjust the setting humidity once again.
- The suitable flow rate is about 10-25L/M, if not customized.

AFTER SERVICE GUARANTEE

Thank for buying our dry cabinet. Our warranty terms is two years from your buying date. Please ask your distributor to fill in below form to show us for any maintenance. Any problems caused by as below reasons will not be included in the warranty:

◆ Incorrect operation;

◆ Normal consumables of the equipment.

Special notice:

A, necessary charging though within warranty period:

1. problems caused by incorrect operation, or natural disaster like bad weather, flooding, lightning strike, Pats&Rat disaster, etc.;

2. incorrect repairing,opening, changing, moving, shipping or dropping;

3. problems caused outside the cabinet, like wrong power connecting, etc.

B, we will have reasonable charges for parts changing after the warranty period.

C, if want to send the product to our company for any maintenance, please show us the AFTER SERVICE GUARANTEE form. You have to pay for all shipping cost.

D, the AFTER SERVICE GUARANTEE form shall be well kept. We prepare only one Form for each of the device.

Spec：		Type：Dry cabinet	
User	Company name：		
	Tel.：		
	Address：		
Buying date：(date/month/year)		Stamp of the distributor/seller	
Distributor/seller：			
Tel.：			
Address：			

1. Is it plugged in properly? Is the power switched off? Is the fuse broken?

2. Is the humidity setting correct?

3. When operating the dry cabinet for first time or having kept it non-used for long time, did you switch it on and leave it working for at least 8 hours with the empty cabinet?

4. If you want to store materials with high moisture, like paper piles, it may take several days for the dehumidifying process.

5. In the case the dry cabinet fails to work after above checking, please contact us without hesitation.

Application

Suggested storage humidity:

Relative Humidity	Suitable storage of items
60％－50％	Paintings, antiques, paper money, old books, Fax paper, copy paper
50％－30％	Cameras, video cameras, lenses, microscopes, endoscopes, binoculars, magnetic tapes, disks , records, films, negatives, positive films, musical instruments, stamps, furs, medicinal materials, tea , coffee, cigarette etc.
30％－20％	Precision dies, measurement instruments, all electronic parts, metallic powders, semiconductors, medical supplies etc.
20％ or its below	Samples, standard measuring tools, seeds, pollen, seedlings etc.
10%~20%	Electronic parts,PCB, IC,BGA,etc.
10% or below	Materials which are typically sensitive to humidity, e.g., high precision IC,BGA,etc.

Warranty

1. If the dry cabinet is out of function, please continue recording the relative humidity graph for 24 hours,then send it to us.

2 .Please call your supplier for assistant. In case of any parts repairing, please wrap the unit firmly and deliver it back to us.

3.Please do not attempt to open or repair the dehumidifier unit by yourself.