



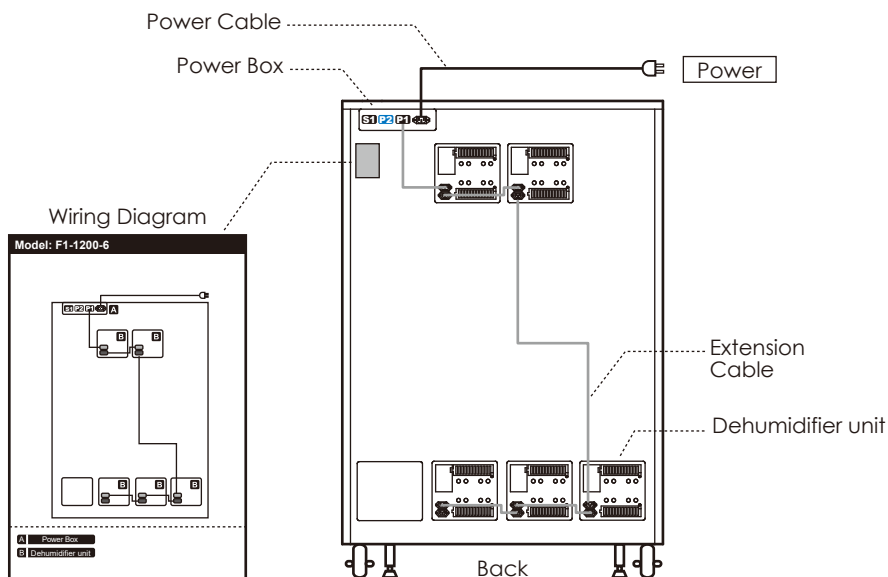
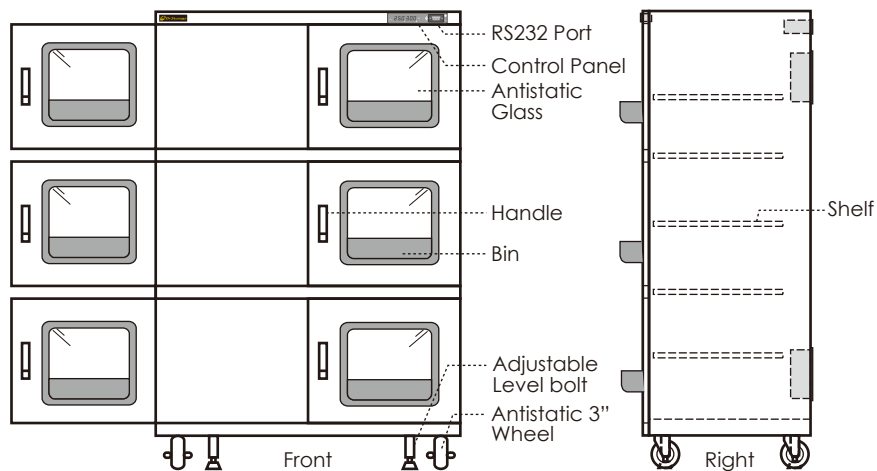
F1/X2B/A1B/T40W/T60M

**Dry Cabinet**

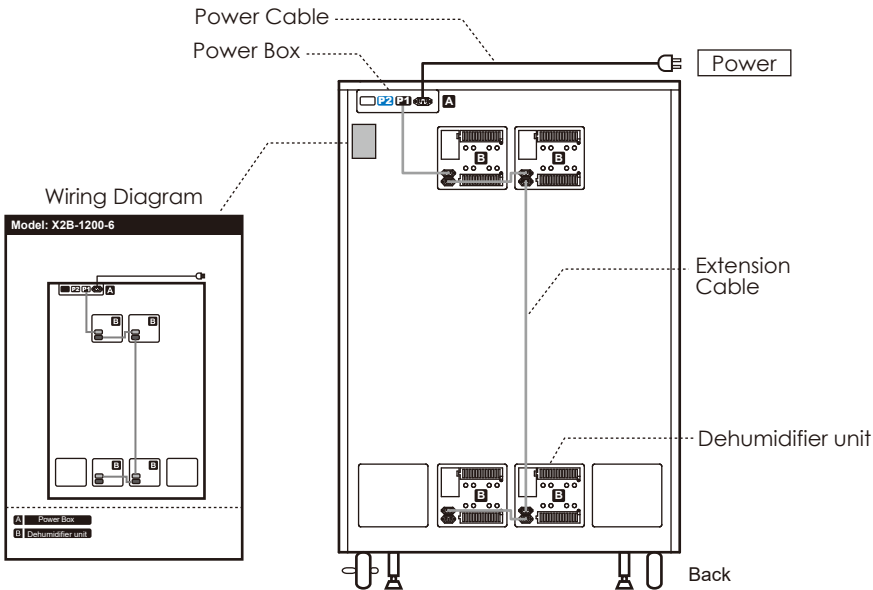
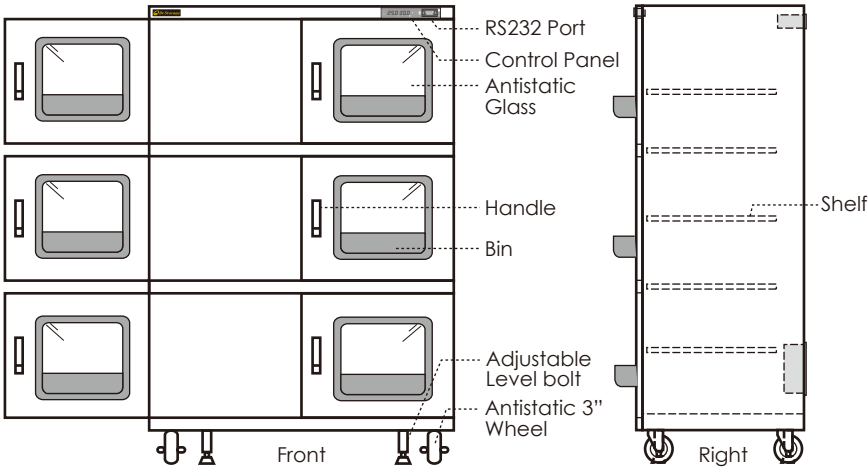
# Contents

|                                           |    |
|-------------------------------------------|----|
| General specifications -F1                | 1  |
| General specifications -X2B               | 2  |
| General specifications -A1B               | 3  |
| General specifications -T40W              | 4  |
| General specifications -T60M              | 5  |
| Installation                              | 6  |
| Introduction of control Panel             | 9  |
| Alert Setting for Humidity(all models)    | 10 |
| Alert Setting for Temperature(all models) | 13 |
| How to set Humidity(A1B Only)             | 16 |
| How to set Temperature (T40W/T60M Only)   | 17 |
| How to use software Humidity Manager V3   | 18 |
| Notes                                     | 22 |
| Warranty                                  | 23 |

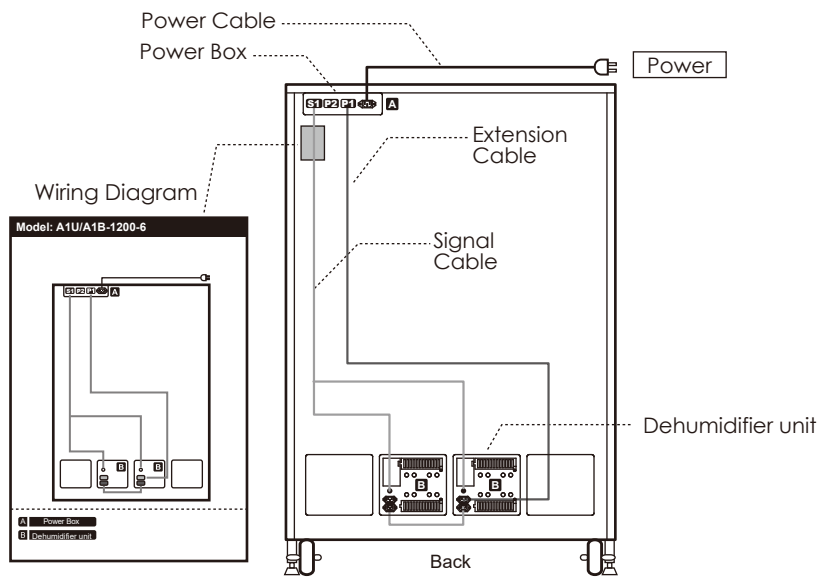
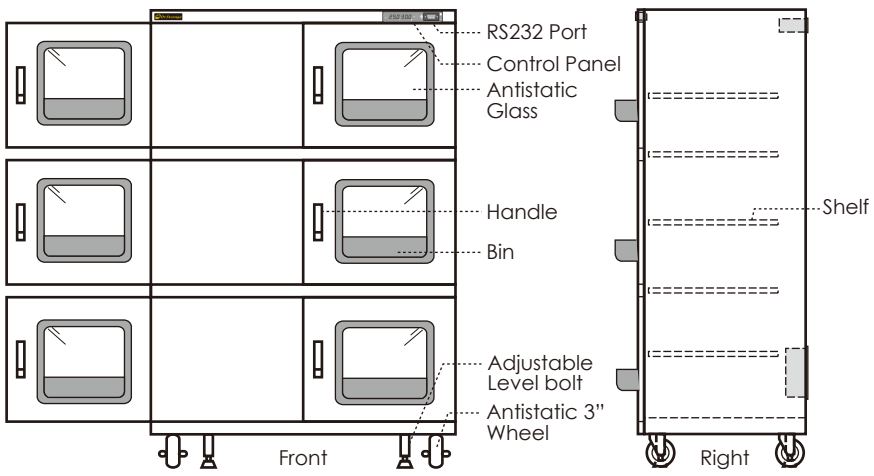
## F1



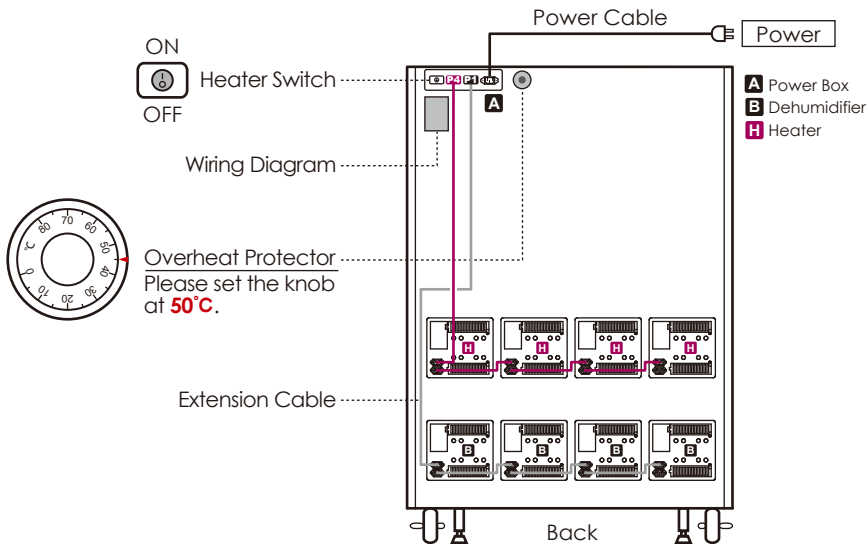
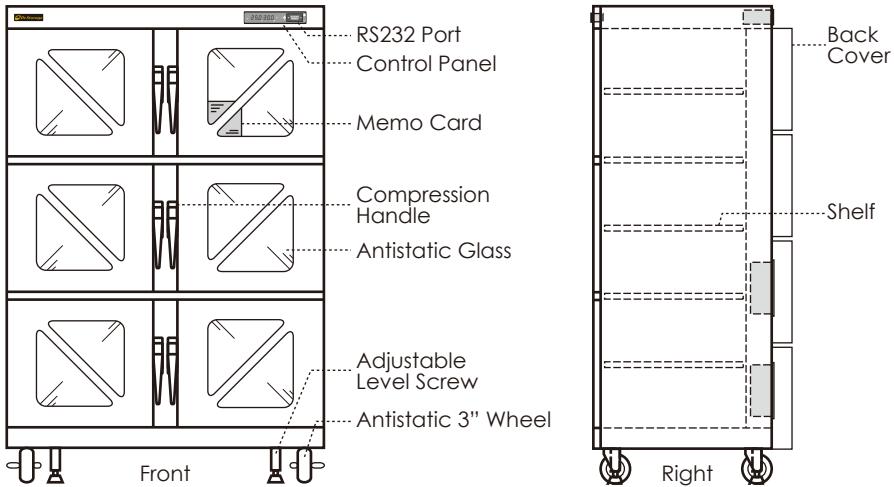
■ X2B



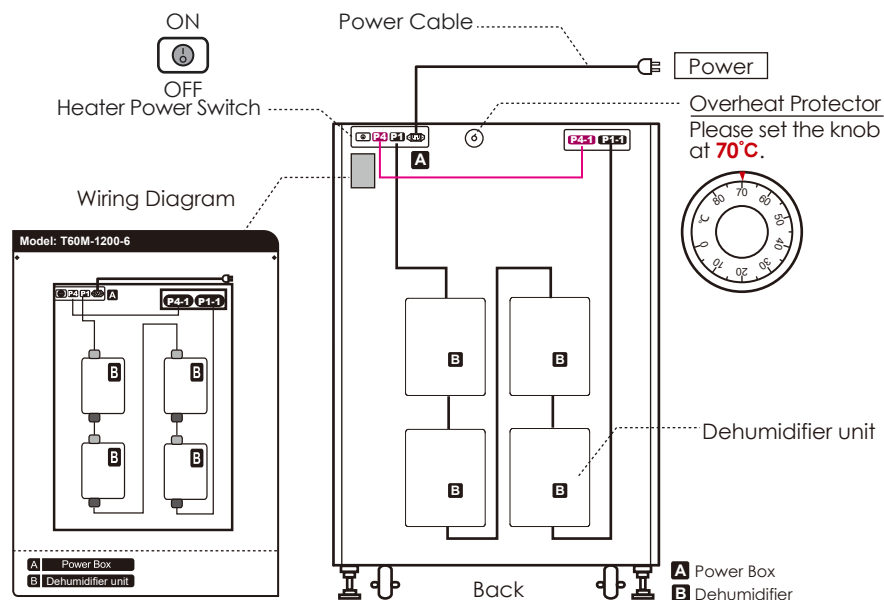
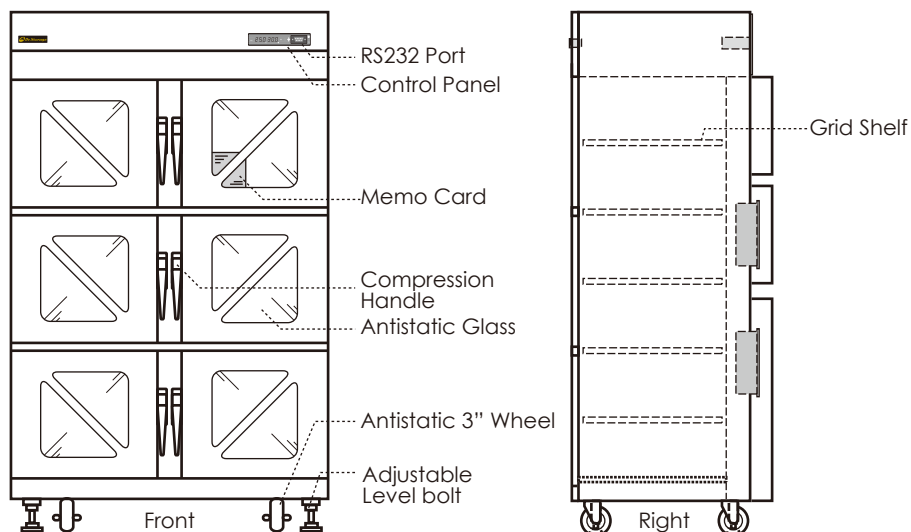
■A1B



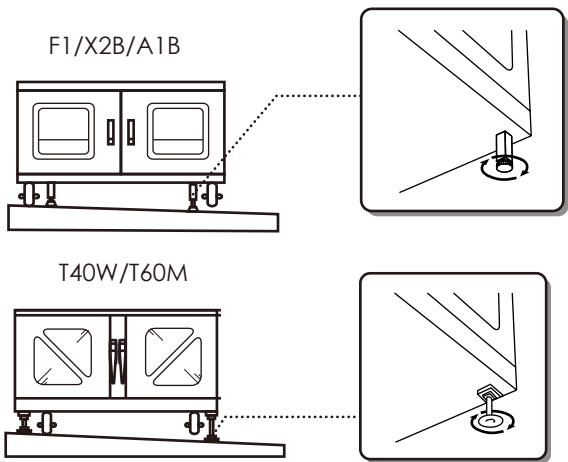
■T40W



## ■ T60M

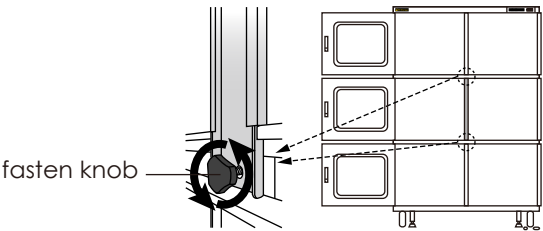


**STEP1** Adjust the feet to balance the cabinet.

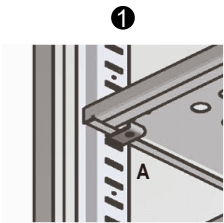
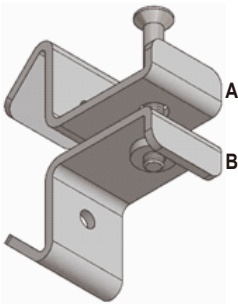


**STEP2** Install shelves:

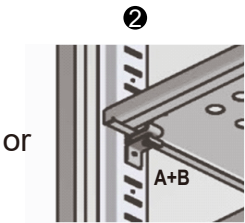
1.Moveable column: the moveable column can be taken out for installing the shelves. available models( F1/X2B/A1B-315/575/1200-6 )



2.Two methods for putting clips and shelves:

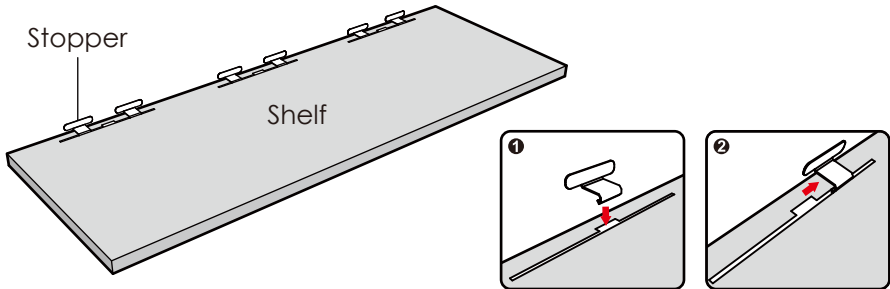


Shelves removable



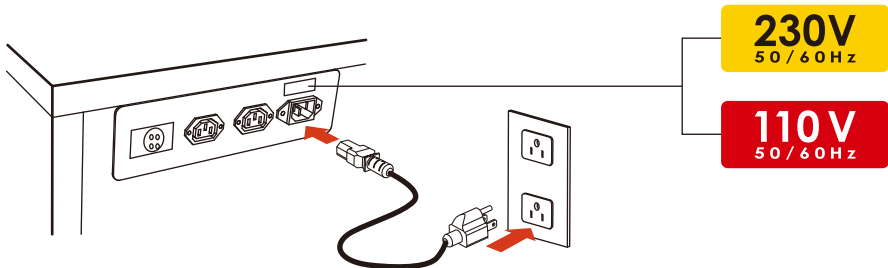
Shelves fixed

3.The installation of Stopper: this stopper will avoid the object to drop down from the gap between the shelf and wall of cabinet.available models( F1/X2B/A1B-157/315/575/200/400 1600/1200-6 )



**STEP3** Connect modules:connect all modules according to the Wiring Diagram which is affixed at the back of cabinet.

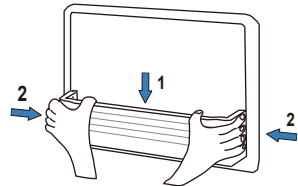
**STEP4** The voltage is specified in the Label which is affixed on power socket of cabinet. Please ensure the power supply providing the same voltage value as requirement of cabinet before connecting.



**STEP5** Run the dry cabinet without putting any storage items for 24 hours and do not open its door during this period until the cabinet reaches desired value.

■ **Bin set up(available for F1/X2B/A1B)**

- 1.Insert the tenons at the bottom of bin into the slots on window frame.
- 2.Bend both sides of bin then insert the tenons into the slots on window frame.

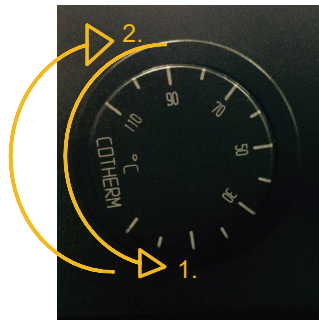


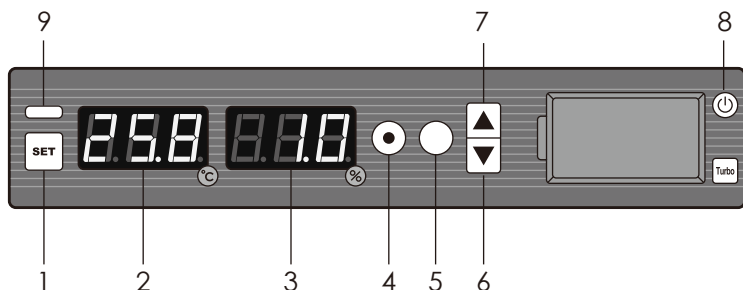
■ **The operation mode of interior lights:(available for T40W/T60M)**

| Mode   | Lights on  | Lights off                   |
|--------|------------|------------------------------|
| Auto   | Open door  | Close door                   |
| Manual | Press F(★) | Close door or wait 3 minutes |

■ **Default for overheat protector: 50°C for T40W and 70°C for T60M.**  
**If they are not set at above values,please follow below steps to set it:**

- 1 st. Turn the temperature protection switch knob to the end in a counter-clockwise direction.
- 2nd. Turn the temperature protection switch knob to the scale 50/70 to complete the setting.





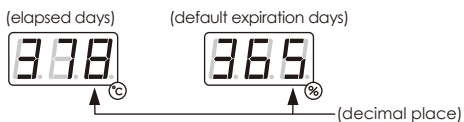
Description:

- |                                  |                            |
|----------------------------------|----------------------------|
| 1. SET Button                    | 7. UP Button               |
| 2. Temperature Display           | 8. Power Button of Display |
| 3. Humidity Display              | 9. Flash Alarm Lamp        |
| 4. Select Button                 |                            |
| 5. Calibration Expiration Button |                            |
| 6. DOWN Button                   |                            |

### ★ Calibration Reminding function

The drift effect of sensor might influence the accuracy. In order to help complying with the regulation of ISO. When the sensor runs over 365 days, the decimal place in the panel will be flash to remind the user.

- Check the elapsed days: Press "○"
- Reset the elapsed days: Press "⊙" about 15 seconds, then press ① to restart the display.



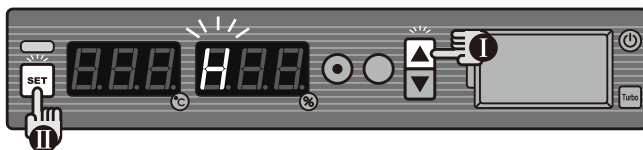
## ■ Set upper limit of humidity alarm(AHu)

### Example

Set **AHu** as 60%RH.  
Alert is activated when the relative humidity is higher than 60%RH.



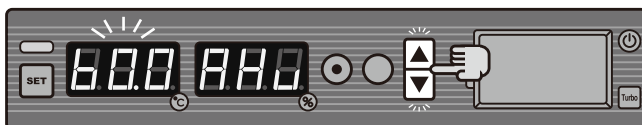
**STEP1** Press and hold **▲**, then press **SET**.



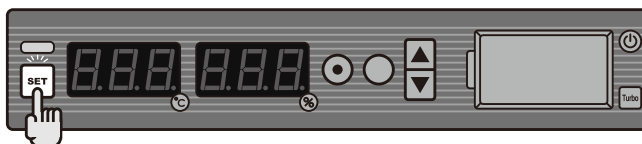
**STEP2** Press **○** to select from **H**→**AHu**. Choose **AHu**.



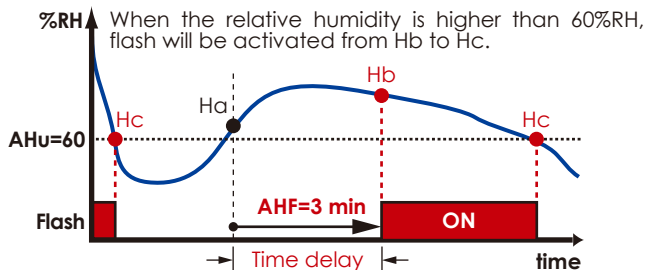
**STEP3** Press **▲** or **▼** to reach the required upper limit level of 60%RH



**STEP4** Press **SET** to store the setting.

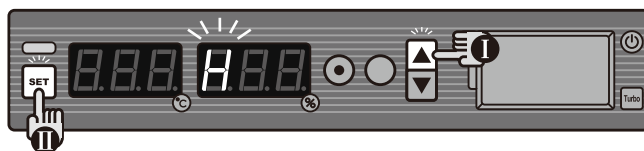


### ■ Time delay setting of humidity Flash alarm(AHF)



### ■ Set AHF

**Step 1** Press and hold  $\blacktriangle$ , then press **SET**.



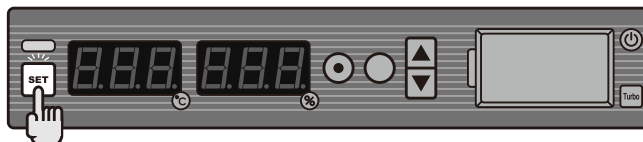
**Step 2** Press  $\odot$  to select from **H**→**AHu**→**AHF**. Choose **AHF**.



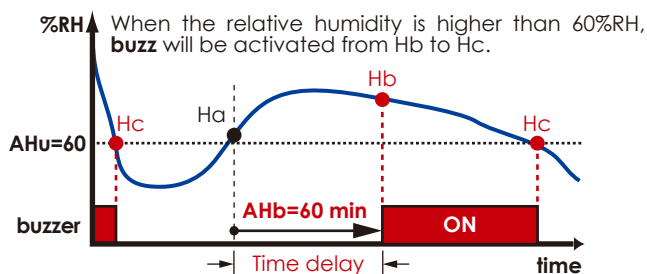
**Step 3** Press  $\blacktriangle$  or  $\blacktriangledown$  to reach the required time delay of 3 minutes.



**Step 4** Press **SET** to store the setting.

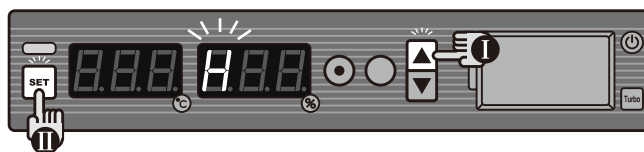


### ■ Time delay setting of humidity buzzer alarm(AHb)



### ■ Set AHb

**Step 1** Press and hold ▲, then press SET.



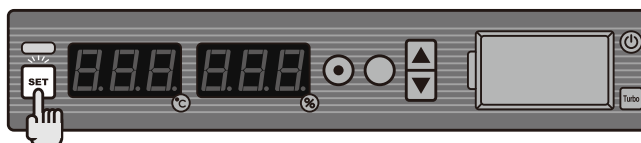
**Step 2** Press ○ to select from H→AHu→AHF→AHb. Choose AHb.



**Step 3** Press ▲ or ▼ to reach the required time delay of 60 minutes.



**Step 4** Press SET to store the setting.



## ■ Set upper limit of temperature alarm(Atu)

### Example

Set **Atu** as 30°C.  
Alert is activated when the temperature is higher than 30°C.



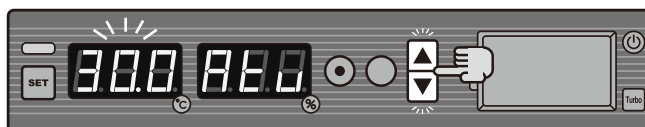
**STEP1** Press and hold ▼, then press **SET**.



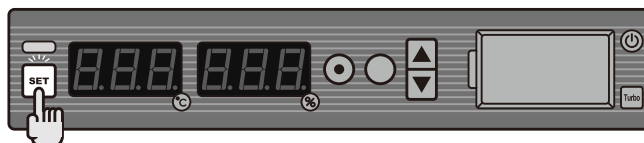
**STEP2** Press  $\odot$  to select from **t** → **Atu**. Choose **Atu**.



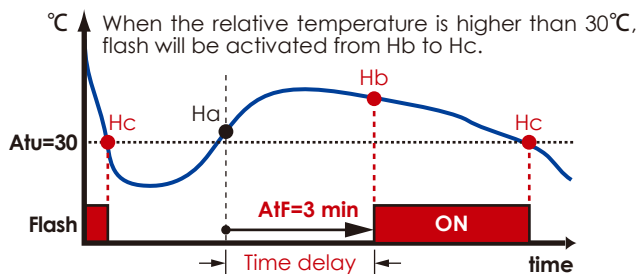
**STEP3** Press ▲ or ▼ to reach the required upper limit level of 30°C.



**STEP4** Press **SET** to save the setting.



### ■ Time delay setting of temperature flash alarm(AtF)



### ■ Set AtF

**Step 1** Press and hold **▼**, then press **SET**.



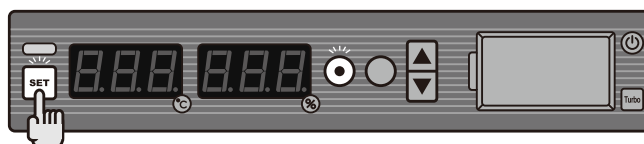
**Step 2** Press **⊙** to select from **t**→**Atu**→**AtF**. Choose **AtF**.



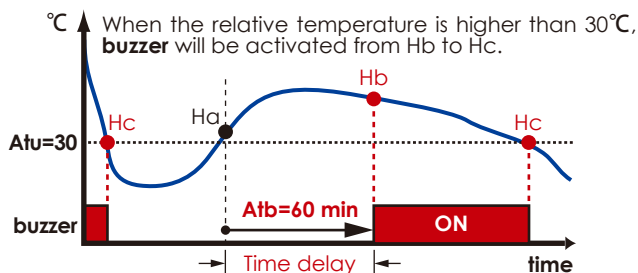
**Step 3** Press **▲** or **▼** to reach the required time delay of 3 minutes.



**Step 4** Press **SET** to store the setting.



### ■Time delay setting of temperature buzzer alarm(Atb)



### ■ Set Atb

**Step 1** Press and hold ▼, then press SET.



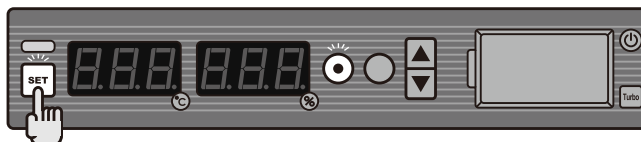
**Step 2** Press ○ to select from t→Atu→AtF→Atb. Choose Atb.



**Step 3** Press ▲ or ▼ to reach the required time delay of 60 minutes.

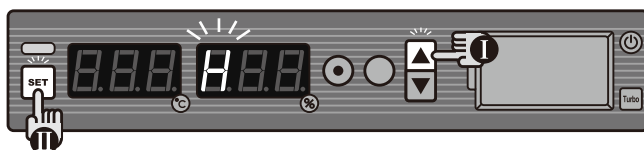


**Step 4** Press SET to store the setting.



**■ Relative humidity setting:**

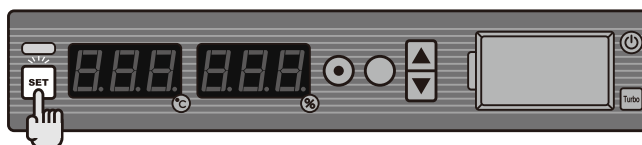
**STEP1** Press and hold **▲**, then press **SET**. (The humidity display will show **H**, while the temperature display will flash the current humidity setting.)



**STEP2** Press **▲** or **▼** to reach the required humidity level .  
(setting range: 0~99%RH)



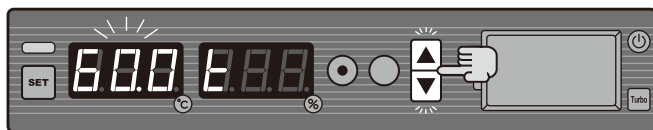
**STEP3** Press **SET** to store the setting.



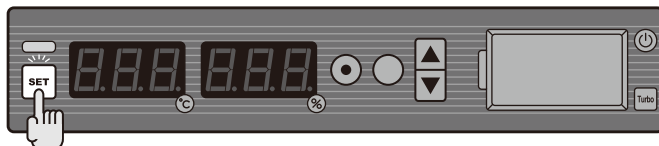
**STEP1** Press and hold ▼, then press **SET**. (The humidity display will show **t**, while the temperature display will flash the current temperature setting.)



**STEP2** Press ▲ or ▼ to reach the required temperature level of 60°C. (setting range: 0~60°C)



**STEP3** Press **SET** to store the setting.



Note:

1. Temperature control range:

T40W: >Room temperature ~40°C

T60M: >Room temperature ~60°C

2. Humidity reaches <5%RH only when the temperature reaches 40°C on T40W.

If it is lower than 40°C, the cabinet will perform higher humidity. Humidity reaches ≤1%RH only when the temperature reaches 60°C

on T60M. If it is lower than 60°C, the cabinet will perform higher humidity.

3. If the heaters is turned off, please also disconnect power fan in order to maintain humidity stabilized.

4. The best performance achieved at ambient condition 25°C and <50%RH.

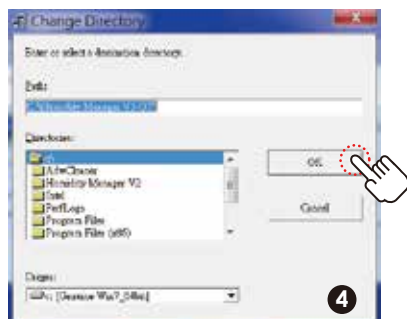
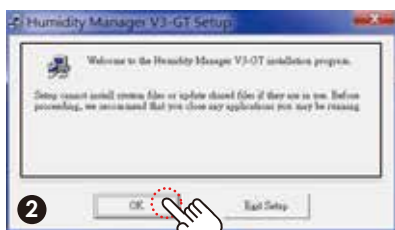
Lower ambient temperature may cause cabinet to take longer time reaching desired temperature. Higher ambient humidity may cause cabinet to take longer time reaching desired humidity.

## ■ Installation

**STEP1** To install USB-RS232 driver by double clicking icon of "PL-2303 Driver Installer".

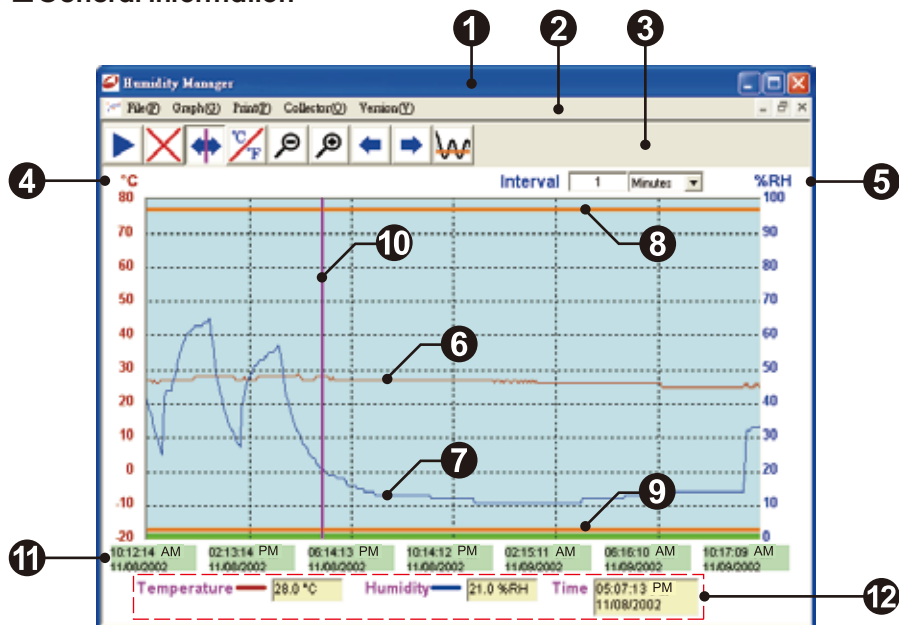


**STEP2** To install Humidity Manager by double clicking icon of "setup".



**STEP3** Restart the PC.

## ■ General information



1 Title Bar

2 Function Bar

3 Tool Bar

4 Temperature Scale

5 Humidity Scale

6 Temperature Curve

7 Humidity Curve

8 Upper Limit Bar

9 Lower Limit Bar

10 Time Line

11 Time and Date

12 Data of Time Line



Data Acquisition



Termination of data acquisition



Tracking



Display Mode (°C/°F)



Reduce



Enlarge



Shift Left



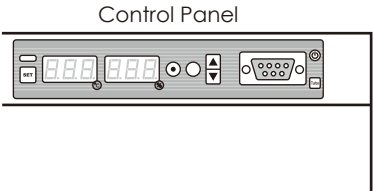
Shift Right



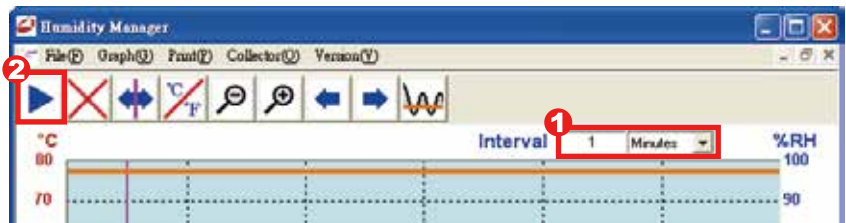
Floor Life Counter(V3)

■ **Operation**

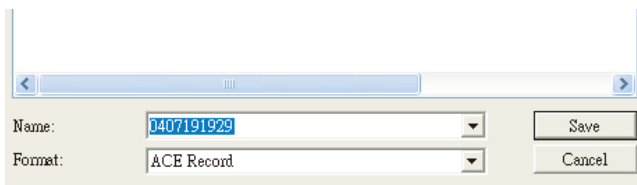
**STEP1** Connect USB-RS232 cable from the dry cabinet to PC.



**STEP2** Decide on the "Interval" and press "▶".



**STEP3** "Is the time interval correct?" will appear. Press "Yes" to confirm the settings. Enter a file name and press "Save". The software begins to capture the data and the procedure is completed.



Name: 0407191929

Format: ACE Record

Save Cancel

### ■ Floor Life Counter (V3)

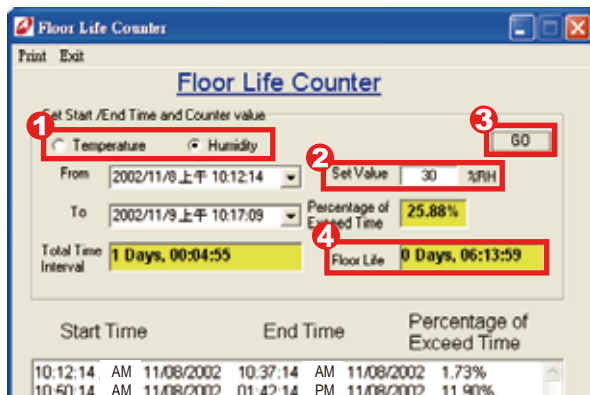
Press "  ", "Floor Life Counter" will appear.

**Step1** Choose "Temperature" or "Humidity".

**Step2** Enter the "Set Value".

**Step3** Press "Go".

**Step4** Floor Life is shown as follow.



**Floor Life Counter**

Print Exit

Set Start/End Time and Counter value

☒ Temperature ☐ Humidity

From: 2002/11/8 上午 10:12:14

To: 2002/11/9 上午 10:17:09

Total Time Interval: 1 Days, 00:04:55

Set Value: 30 %RH

Percentage of Exceed Time: 25.88%

Floor Life: 0 Days, 06:13:59

Start Time End Time Percentage of Exceed Time

|          |    |            |          |    |            |        |
|----------|----|------------|----------|----|------------|--------|
| 10:12:14 | AM | 11/08/2002 | 10:37:14 | AM | 11/08/2002 | 1.73%  |
| 10:50:14 | AM | 11/08/2002 | 01:42:14 | PM | 11/08/2002 | 11.90% |

**■ For Proper Installation**

- 1.The dry cabinet is operated under the condition below 30°C, 60%RH.
- 2.Please place the dry cabinet on a leveled ground.
- 3.Please place the cabinet away from direct outlet of ventilation.  
Because the strong wind pressure will lead to the penetration of moisture into the dry cabinet.
- 4.Please do not block the back of the cabinet so as to facilitate the moisture purging process.
- 5.Please do not share the power socket with other appliances.
- 6.For the first time operation, please maintain an empty cabinet and switch it on for 24 hours before storing any items.
- 7.When storing items of high moisture materials (e.g. paper, woodcraft), it is normal for the relative humidity to rise high and then drop at a slower rate. (Sometimes it takes around 1 or 2 days for moisture deep inside of material to come out and to reach to the presetting relative humidity.)
- 8.Highly corrosive, inflammable and explosive items are prohibited from storing inside the dry cabinet.
- 9.Please connect the electric source in the last step.

**⚠ 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 with your bare hands or any other objects, as it will cause permanent inaccuracies and result in a need for calibration or a change in sensors.

- 1.If the dry cabinet is abnormal, please continually record the relative humidity graph for 24 hours then send it to [service@dr-storage.com](mailto:service@dr-storage.com).
- 2.If we determine the malfunction of product, please carefully wrap and deliver the parts back to us for maintenance.
- 3.Please do not attempt to open or repair the dehumidifier unit by yourself.

**Warranty does not extend to the Dry Cabinet that is tampered.**

### **Ace Dragon Corp.**

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<http://www.Dr-Storage.com>

E-mail: [service@dr-storage.com](mailto:service@dr-storage.com)

