Dr.Storage®

F1/X2B/A1B/T40W/T60M

Dry Cabinet

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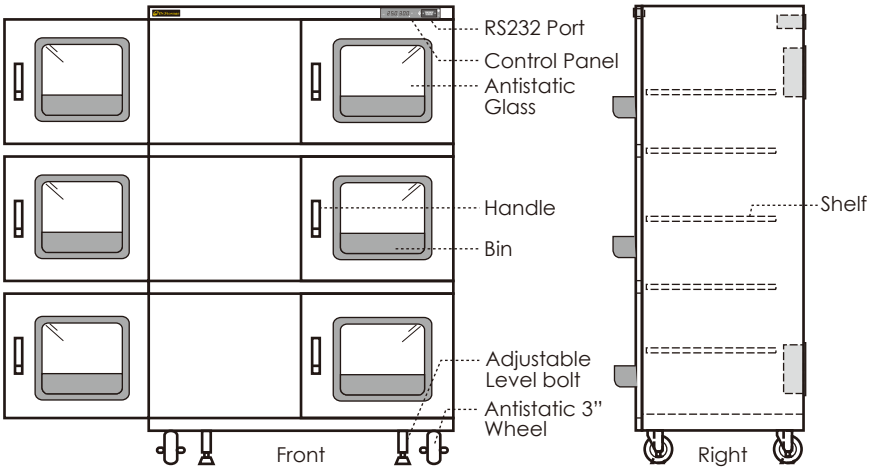
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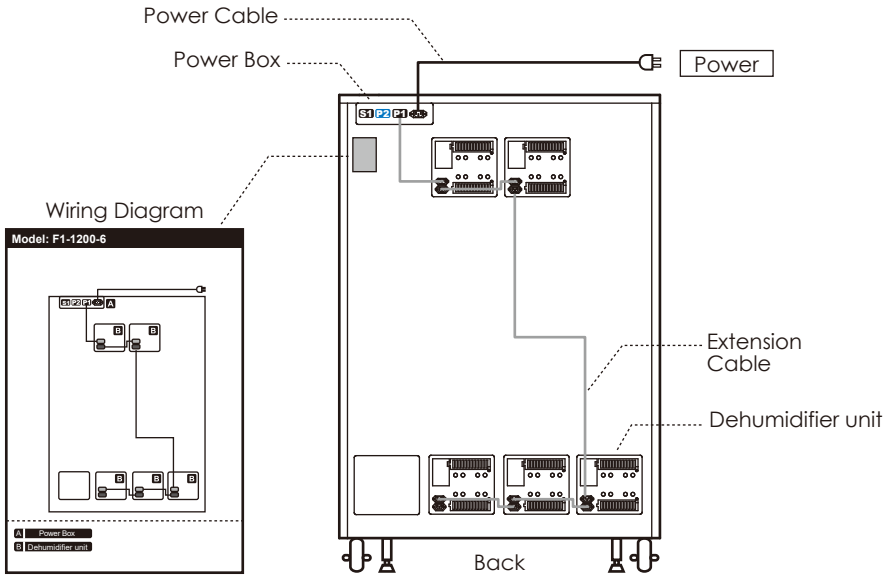
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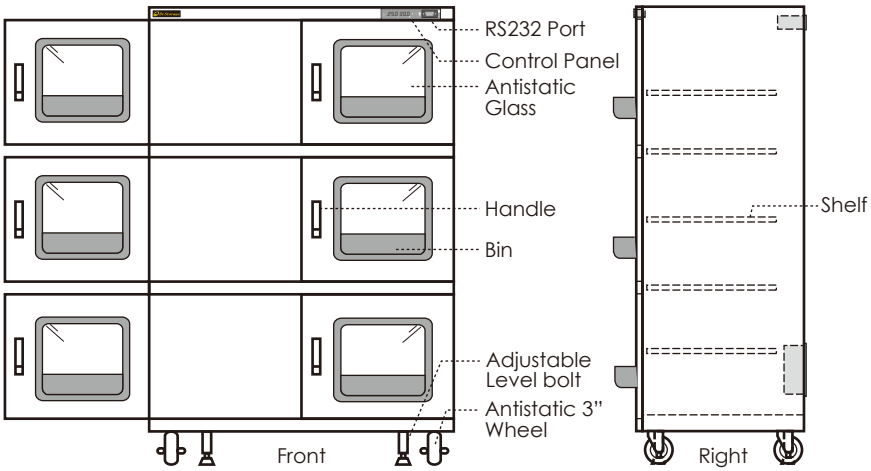
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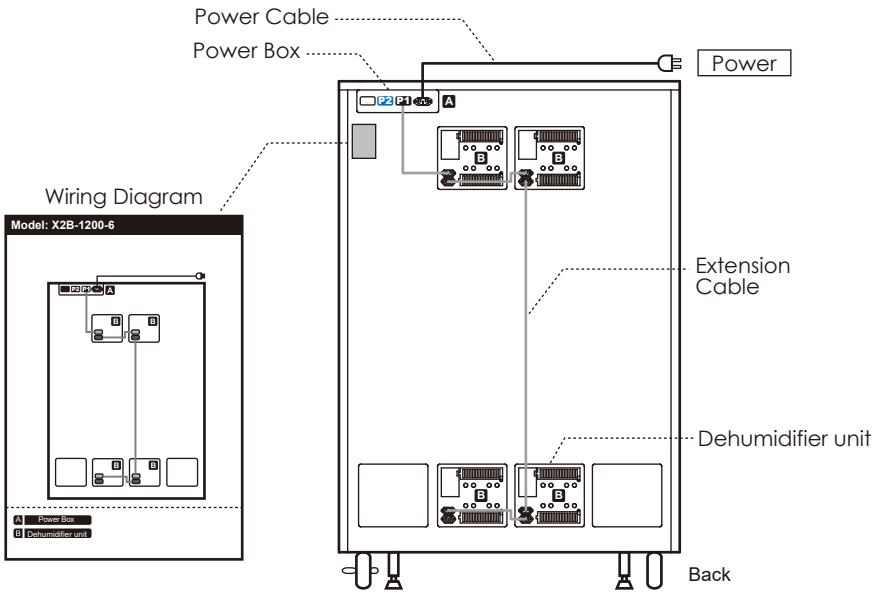
■F1


RS232 Port
Control Panel
Antistatic Glass
Handle
Bin
Adjustable Level bolt
Antistatic 3" Wheel
Front
Shelf
Right

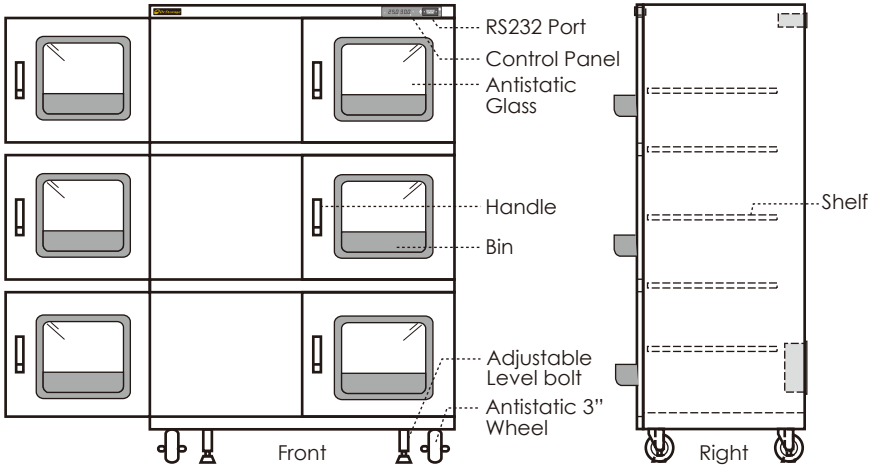

Power Cable
Power Box
Power
Wiring Diagram
Model: F1-1200-6
A Power Box
B Dehumidifier unit
Extension Cable
Dehumidifier unit
Back

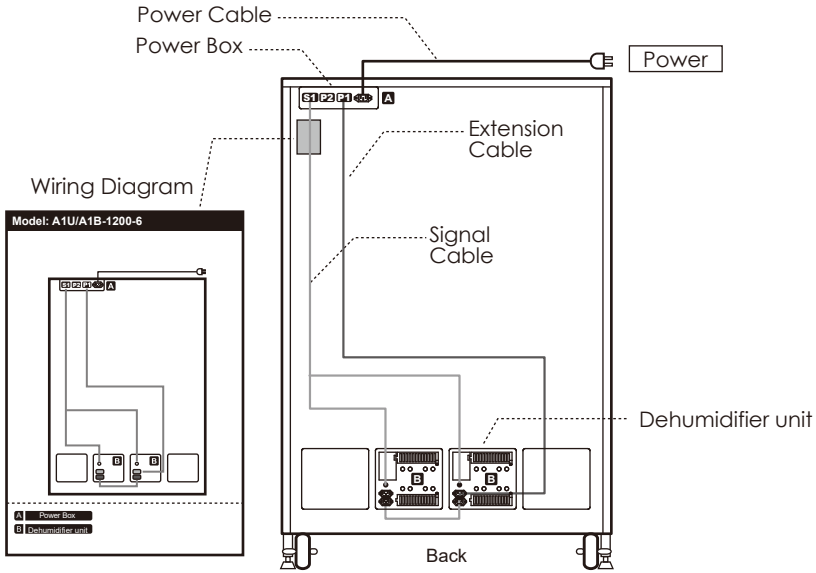
■X2B


RS232 Port
Control Panel
Antistatic Glass
Handle
Bin
Adjustable Level bolt
Antistatic 3" Wheel
Front
Shelf
Right

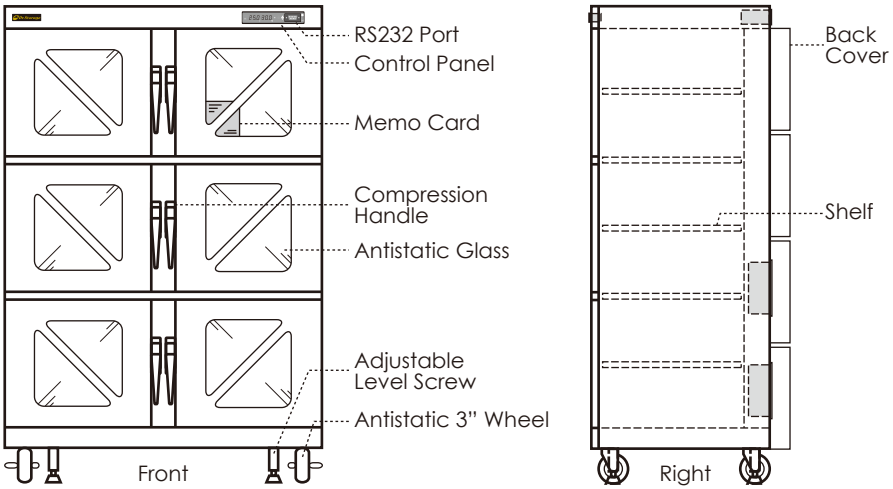

Power Cable
Power Box
Power
Wiring Diagram
Model: X2B-1200-6
A Power Box
B Dehumidifier unit
Extension Cable
Dehumidifier unit
Back

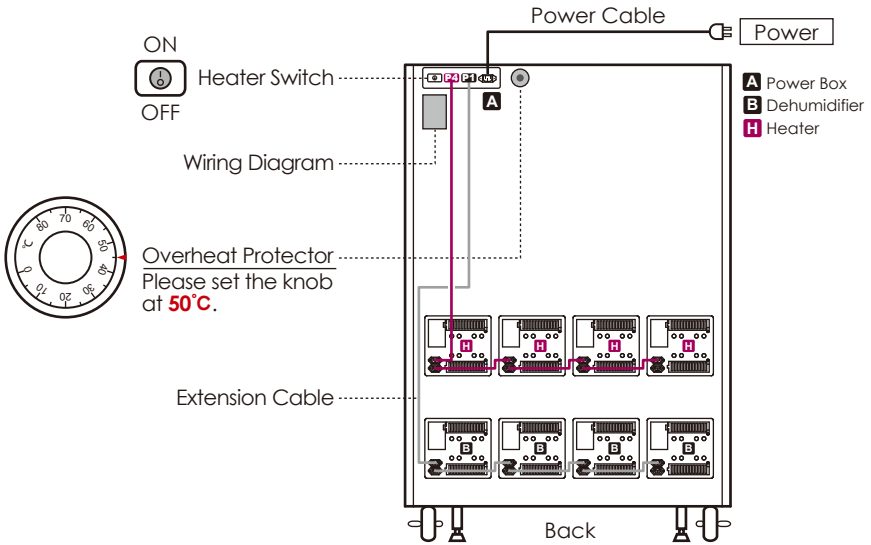
■A1B


RS232 Port
Control Panel
Antistatic Glass
Handle
Bin
Adjustable Level bolt
Antistatic 3" Wheel
Front
Shelf
Right

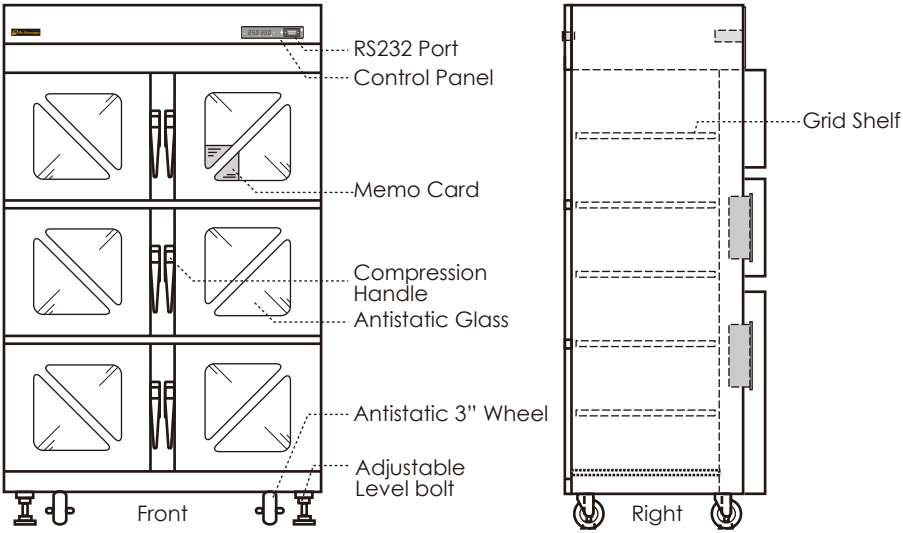

Power Cable
Power Box
Power
Extension Cable
Signal Cable
Wiring Diagram
Model: A1U/A1B-1200-6
Power Box
Dehumidifier unit
Dehumidifier unit
Back

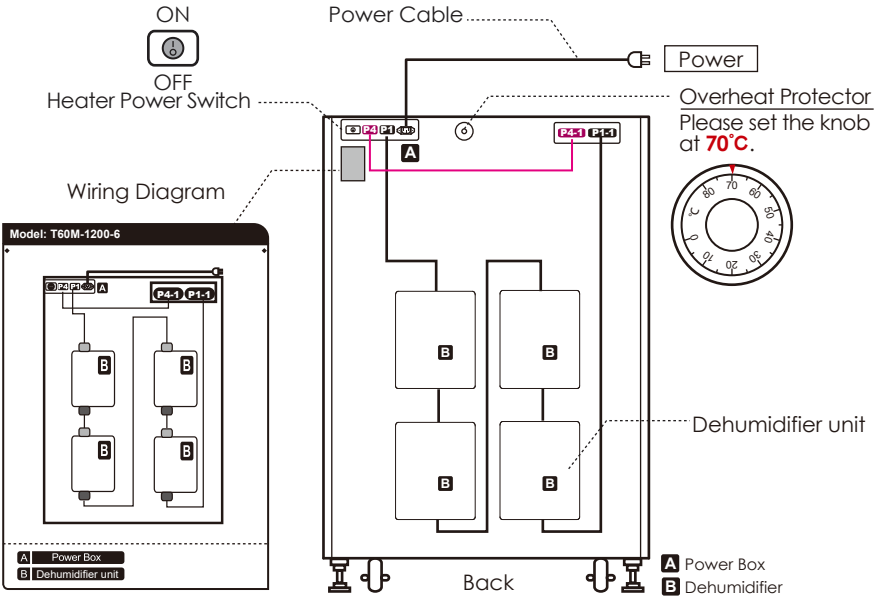
■T40W


RS232 Port
Control Panel
Memo Card
Compression Handle
Antistatic Glass
Adjustable Level Screw
Antistatic 3" Wheel
Front
Back Cover
Shelf
Right

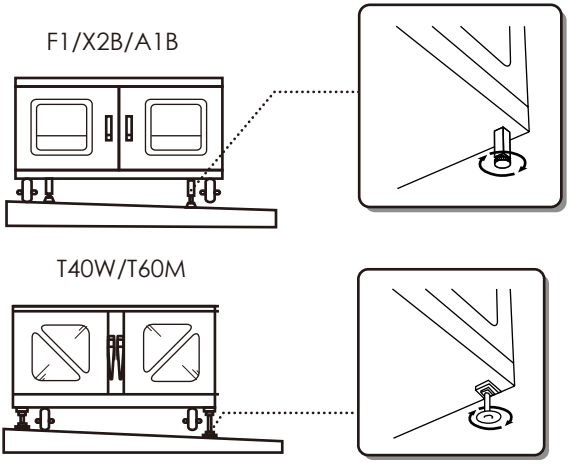

Power Cable
Power
ON
Heater Switch
OFF
Wiring Diagram
Overheat Protector
Please set the knob at 50˚C.
Extension Cable
A Power Box
B Dehumidifier
H Heater
Back

■T60M


RS232 Port
Control Panel
Memo Card
Compression Handle
Antistatic Glass
Antistatic 3" Wheel
Adjustable Level bolt
Front
Grid Shelf
Right

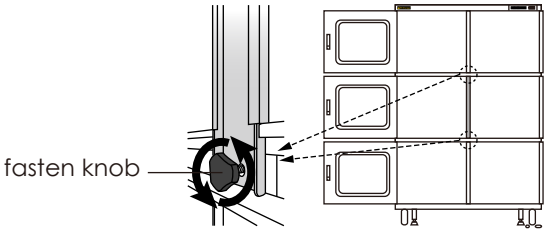

ON
OFF
Heater Power Switch
Power Cable
Power
Overheat Protector
Please set the knob at 70˚C.
Wiring Diagram
Model: T60M-1200-6
A Power Box
B Dehumidifier unit
Dehumidifier unit
Back
A Power Box
B Dehumidifier

STEP1 Adjust the feet to balance the cabinet.

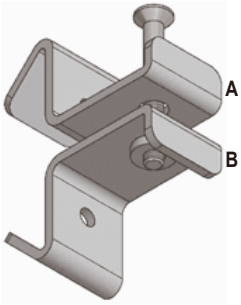


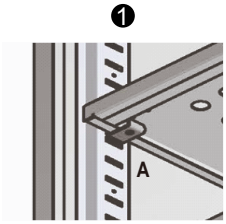
STEP2 Install shelves:

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



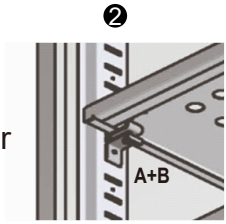
2.Two methods for putting clips and shelves:





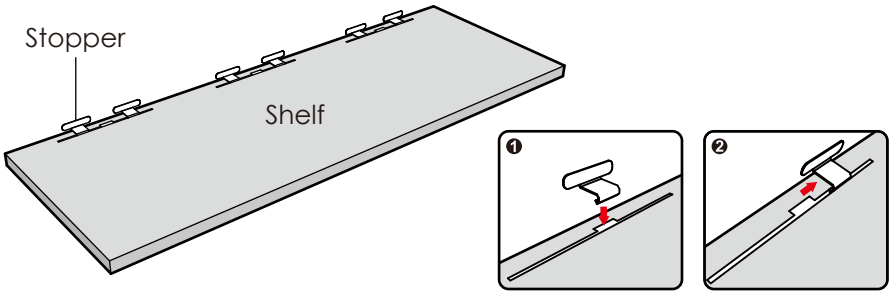
Shelves removable

or



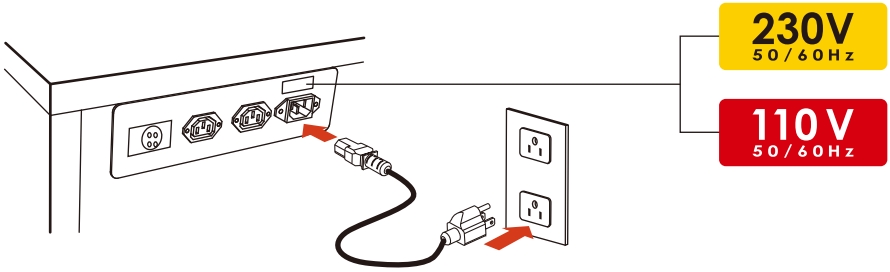
Shelves fixed

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.

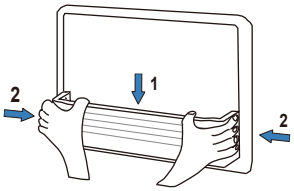


STEP5 Run the dry cabinet without putting any storage items for 24 hours and do not open its door during this period until the cabinet reaches desired value.

■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.



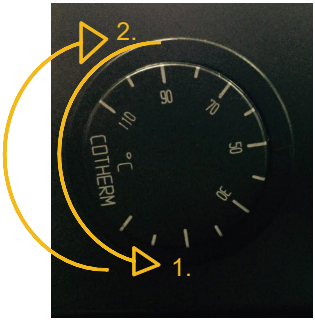
■ The operation mode of interior lights:(available for T40W/T60M)

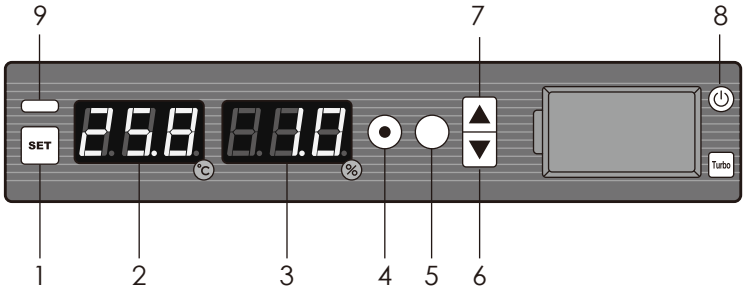
Mode	Lights on	Lights off
Auto	Open door	Close door
Manual	Press F(★)	Close door or wait 3 minutes

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

1st. 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.





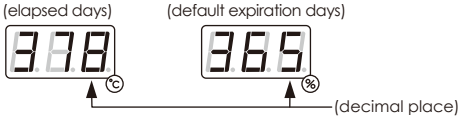
Description:

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

★ 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 ⏻ to restart the display.



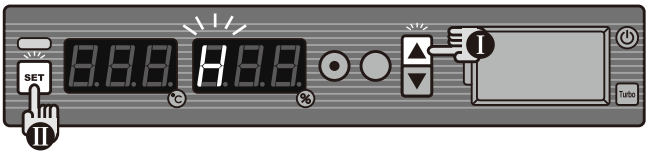
■ Set upper limit of humidity alarm(AHu)

Example

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



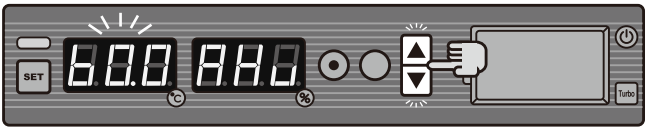
STEP1 Press and hold ▲, then press **SET**.



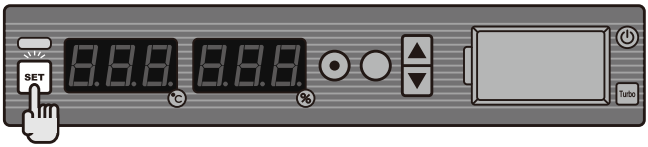
STEP2 Press ⊙ to select from **H→AHu**. Choose **AHu**.



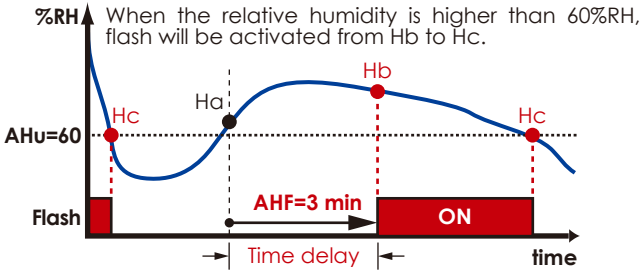
STEP3 Press ▲ or ▼ to reach the required upper limit level of 60%RH



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

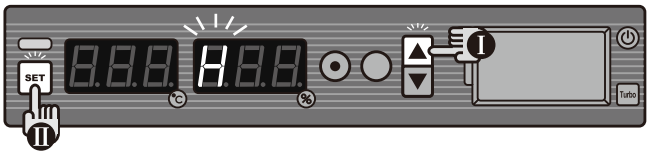


■Time delay setting of humidity Flash alarm(AHF)



■ Set AHF

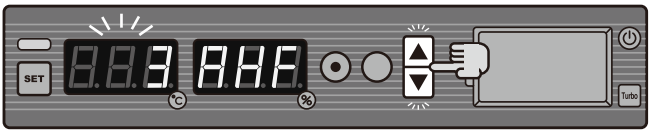
Step 1 Press and hold ▲, then press **SET**.



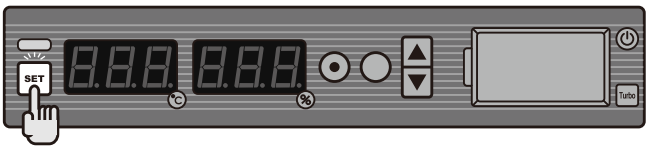
Step 2 Press ⊙ to select from **H→AHu→AHF**. Choose **AHF**.



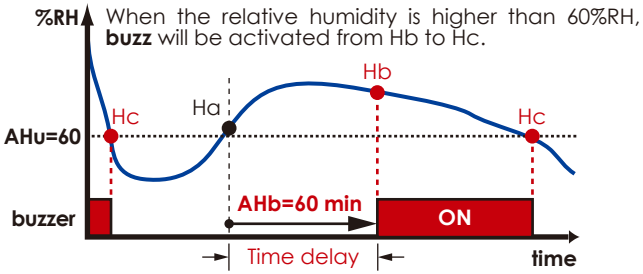
Step 3 Press ▲ or ▼ to reach the required time delay of 3 minutes.



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

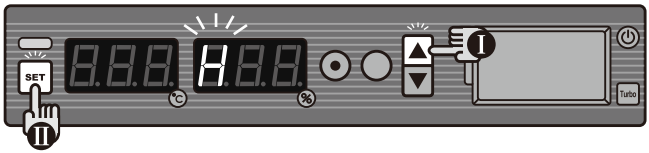


■ Time delay setting of humidity buzzer alarm(AHb)



■ Set AHb

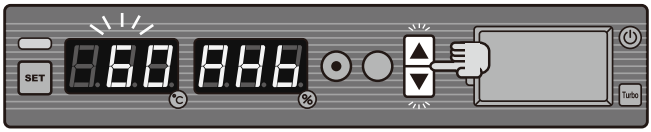
Step 1 Press and hold ▲, then press **SET**.



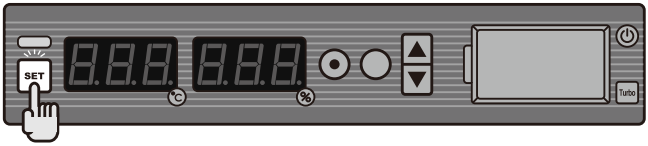
Step 2 Press ⊙ to select from **H→AHu→AHF→AHb**. Choose **AHb**.



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

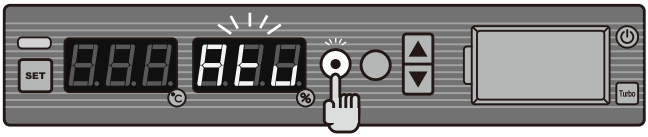
Set **Atu** as 30℃.
Alert is activated when the temperature is higher than 30℃.



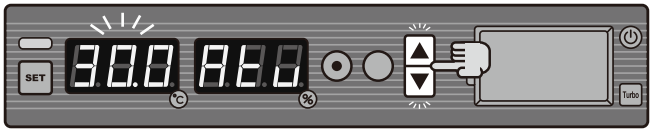
STEP1 Press and hold ▼, then press **SET**.



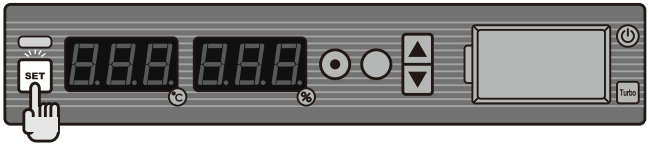
STEP2 Press ⊙ to select from **t**→**Atu**. Choose **Atu**.



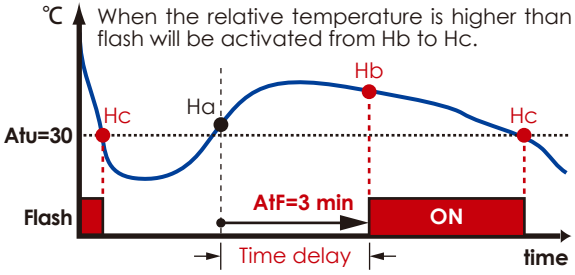
STEP3 Press ▲ or ▼ to reach the required upper limit level of 30℃.



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

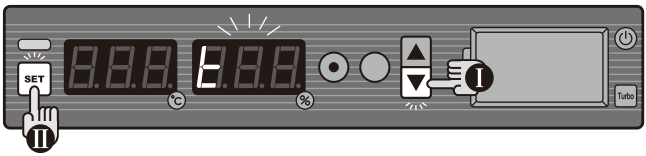


■Time delay setting of temperature flash alarm(AtF)



■ Set AtF

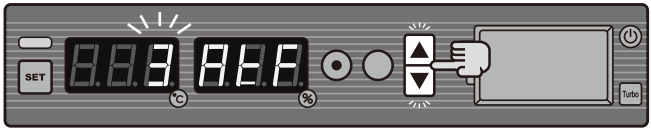
Step 1 Press and hold ▼, then press **SET**.



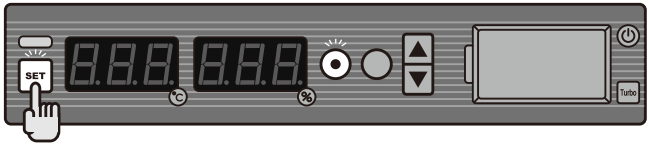
Step 2 Press ⊙ to select from **t→Atu→AtF**. Choose **AtF**.



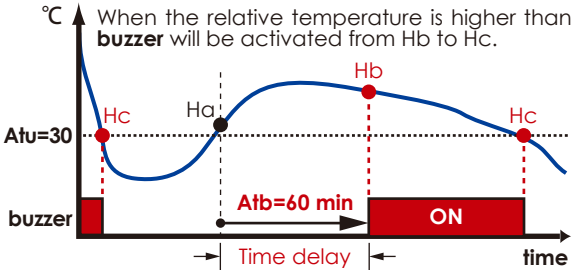
Step 3 Press ▲ or ▼ to reach the required time delay of 3 minutes.



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

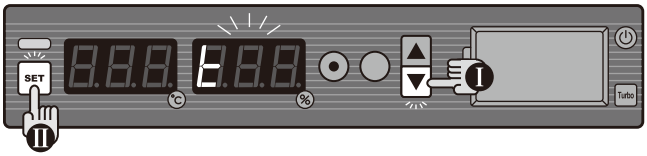


■Time delay setting of temperature buzzer alarm(Atb)



■ Set Atb

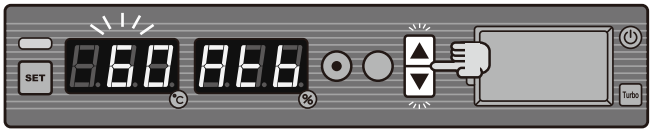
Step 1 Press and hold ▼, then press **SET**.



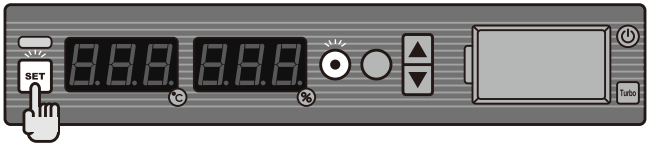
Step 2 Press ⊙ to select from **t→Atu→AtF→Atb**. Choose **Atb**.



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

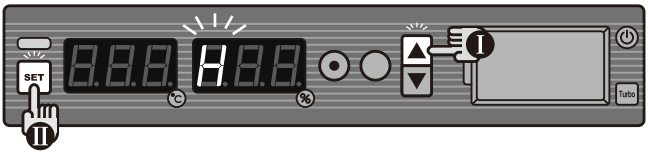


Step 4 Press **SET** to store the setting.

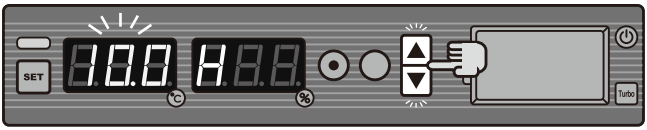


■ **Relative humidity setting:**

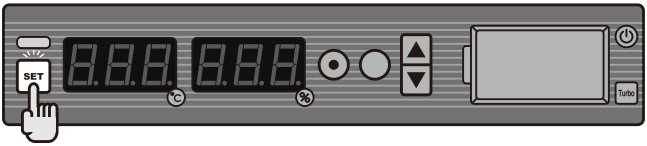
STEP1 Press and hold ▲, then press **SET**. (The humidity display will show **H**, while the temperature display will flash the current humidity setting.)



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



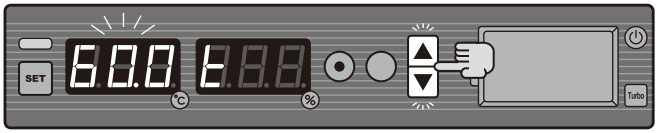
STEP3 Press **SET** to store the setting.



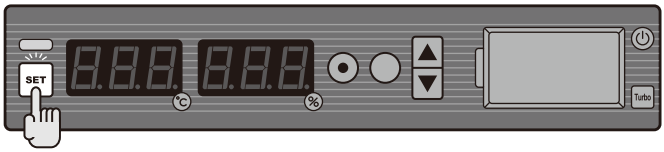
STEP1 Press and hold ▼, then press **SET**. (The humidity display will show **t**, while the temperature display will flash the current temperature setting.)



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



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



Note:

1.Temperature control range:
T40W: >Room temperature ~40℃
T60M: >Room temperature ~60℃

2.Humidity reaches <5%RH only when the temperature reaches 40℃ on T40W. If it is lower than 40℃, the cabinet will perform higher humidity. Humidity reaches ≦1%RH only when the temperature reaches 60℃ on T60M. If it is lower than 60℃, 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℃ 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.

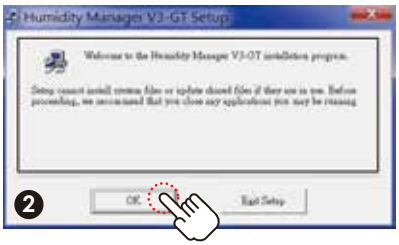
■Installation

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

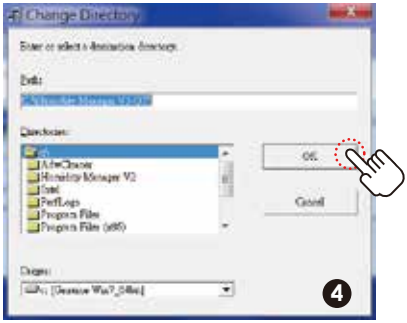


STEP2 To install Huminity Manager by double clicking icon of "setup".





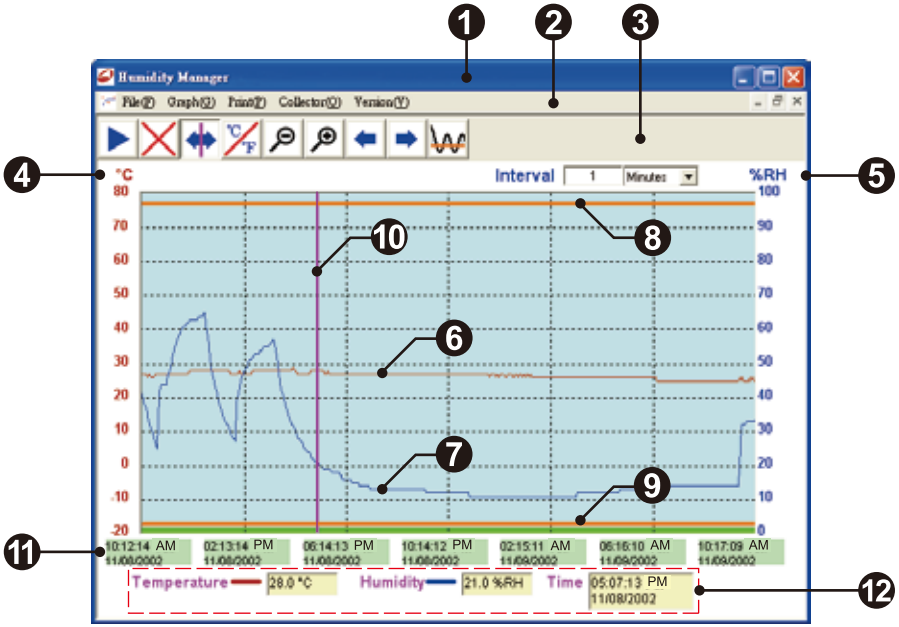






STEP3 Restart the PC.

■General information

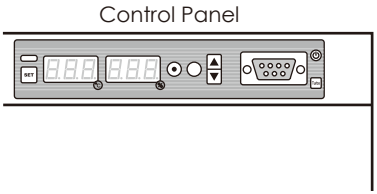


1. Title Bar
2. Function Bar
3. Tool Bar
4. Temperature Scale
5. Humidity Scale
6. Temperature Curve
7. Humidity Curve
8. Upper Limit Bar
9. Lower Limit Bar
10. Time Line
11. Time and Date
12. Data of Time Line

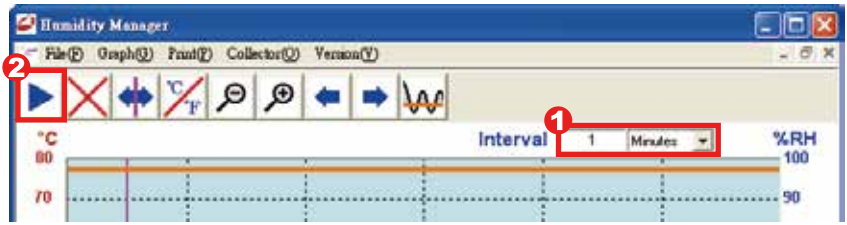
- Data Acquisition
- Termination of data acquisition
- Tracking
- Display Mode (℃/℉)
- Reduce
- Enlarge
- Shift Left
- Shift Right
- Floor Life Counter(V3)

■Operation

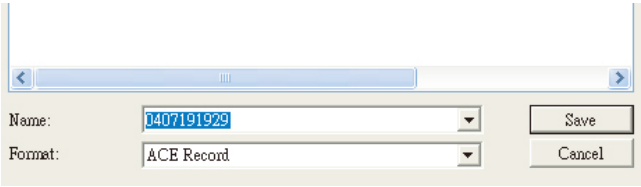
STEP1 Connect USB-RS232 cable from the dry cabinet to PC.



STEP2 Decide on the “Interval” and press “ ▶ ”.



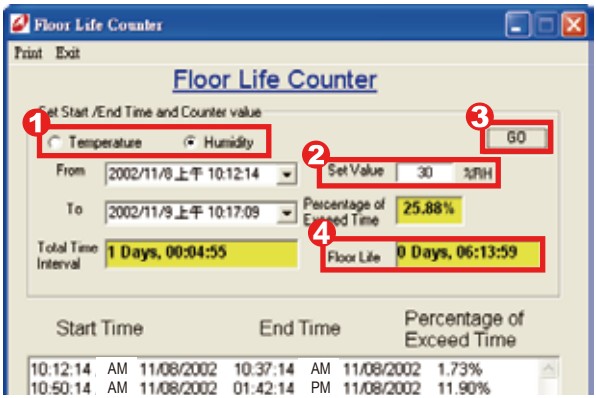
STEP3"Is the time interval correct?" will appear. Press "Yes" to confirm the settings. Enter a file name and press "Save". The software begins to capture the data and the procedure is completed.



■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.



■For Proper Installation

1.The dry cabinet is operated under the condition below 30℃, 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.
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.

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