Thank you for purchasing SIRUI Electronic Humidity Control products.
Please read this manual before using.

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Service Hotline: 0086-400-8302299    http://www.sirui-photo.com
(1) Introduction of Product Use
The SIRUI Electronic Humidity Control Cabinet can effectively prevent mildew, fogging, oxidation, corrosion, material deformation, and can reduce the possibility of fracture and failure of electronic devices, etc. The regulated environment of the SIRUI Cabinet helps extend the life and value of your most precious possessions.
- Ideal for storing paintings and papers, including calligraphy, antiques, paper currencies, ancient books, fax paper, copy paper, printing paper, etc.
- Ideal for storing optical & electronic devices, such as advanced lenses, photographic equipment, camcorders, computer items, cameras, lenses, microscopes, CDs, telescopes, film, videotapes, microfilms, Slides, etc.
- Ideal for storing precision materials, such as gold/silver and other precious metals, non-metals, metal powder products, electrical equipment, semiconductors, condensers, printed circuit boards, tungsten wires, IC, batteries, etc.
- Ideal for precision machinery equipment products such as crystals, precision measuring tools, optical lenses, optical scanners, spectrometers, etc.

(2) Product Features
- The SIRUI Electronic Humidity Control Cabinet contains a high performance dehumidifying system with precise microcomputer control, for automatic, worry-free operation.
- Easy-to-read LCD digital display of temperature and humidity.
- The dehumidifying system is made of fire-resistant material and is quick, high-efficiency, energy saving and non-polluting.
- The internal design of the humidity control elements protects the components from damage and people from inadvertently touching it.
- The cabinet body is made with high strength steel that is precision welded with high frequency argon arc equipment.
- The door is made of high-quality, tempered glass, which is waterproof, dust-proof and airtight.
- Low humidity inside the cabinet can be maintained for a long time after the power is turned off.
- All the SIRUI Electronic Humidity Control Cabinets incorporate a Photocatalyst - a safe, powerful bacteriostatic antiseptic with antifungal, purifier and cleaning functions.

2 Safety Instructions
- Please confirm the power supply is AC 110V~240V 50/60Hz before using.
- Do not put your finger or stick anything into the grill on the back of the Cabinet.
- Inexperienced people and children must use the cabinet under careful supervision and guidance.
- Children should be supervised and should not play with or near the cabinet.
- If the power cord is damaged, it must be replaced with an equivalent power cord. Contact the selling dealer or SIRUI for replacement parts.

3 Safe Operation
Please use the cabinet correctly, to prevent damage to the product or harm to yourself.

⚠ Operating Instructions (Please follow the instructions to prevent damage to the product or harm to yourself.)

- **AC 110V~240V 50/60Hz**
  - Humidity control cabinet uses single phase alternating current AC 110V~240V 50/60Hz power source.
  - Improper use of power source may cause fire or high temperature.

- ![Image](image1)
  - Do not put the cabinet near an air-conditioner vent or in a room with changeable temperature, direct sunlight or excessive dust.
  - Which may weaken the function of humidity removal.

- ![Image](image2)
  - Keep the distance of the cabinet at least 5cm (2 inches) from the wall.
  - For proper air circulation and heat release.

- ![Image](image3)
  - Use of excessive force when pulling out the shelves from the cabinet may cause the shelves to fall out or be damaged.

- ![Image](image4)
  - The cabinet must be attached to the wall or a sturdy object if the cabinet will be placed on a high surface.
  - To prevent the cabinet from falling and causing damage or personal injury.

- ![Image](image5)
  - If there is any abnormal running or smell, please pull out the power plug immediately.
  - Fire or electric shock may occur.

⚠ Warning! (Follow the instructions to prevent serious harm or damage.)

- ![Image](image6)
  - Do not put objects on top of the cabinet or step on the cabinet.
  - This may damage the cabinet and/or cause personal injury.

- ![Image](image7)
  - Do not put flammable and explosive things into the cabinet.

- ![Image](image8)
  - Do not cover the vents behind the cabinet.
  - Which may cause heat buildup and possible product failure.
4 Operation

(1) Appearance
The following picture is only an example for instructional purposes. The actual appearance of your cabinet may be different from the picture.

Caution
Start and Run the cabinet for 4 hours before placing items in the cabinet.
Accuracy of the humidity control is +/- 5% RH
Factory pre-set of the cabinet internal humidity is 25%RH

Serial number on the back of the cabinet

(2) System Control

Lock Indicator Light
Humidity Control light (green light)
Humidity indicator
Lock Indicator
Temperature indicator

Set and Confirmation Button
UP
Down
Lock Button
5 Operation Method

(1) Humidity setting
When you plug in the HC, the system will scan automatically. After 30 seconds, the system will go into Power Saving Mode. Please refer to “Object Storage Humidity Reference Table” (Page 6) to find the corresponding humidity you want (the factory setting of the cabinet is 25% RH). Unlock the display by pressing the “LOCK” button for 2 seconds. Set your desired humidity by pressing the “SET” button first (the current humidity number will be flashing), then press the “▲” / “▼” button to make this number increase/decrease. (The number will keep increasing/decreasing until you release the “▲” / “▼” button). Press “SET” again, when you have the number you want. Now the humidity you set is recorded and the system is automatically back to normal operational mode.

(2) Keypad Lockout Function
The system will automatically lock after 10 seconds, if you do not touch the control panel ( sign appears). This means that any operation, (like pressing “▲” or “▼”、“SET”) will not function.

(3) Unlock the keypad
Press the “LOCK” button for 2 seconds and the sign disappears. You can then control the “▲” or “▼”、“SET” buttons.

(4) Internal lighting and door open/locked indication
When you open the door, the interior cabinet light goes on and the Lock Indicator Light on the Control Panel goes on to indicate that the door is open. When closed, the Lock Indicator Light will go off and the door will lock.

(5) Activate the LCD’s backlight
The LCD screen backlight and keypad illumination function turns on when you press any button on the control panel in normal working mode. The light will turn off after 30 seconds.

(6) Shelf setting
※ Please do not touch the internal Humidity Control Component when setting up the shelf and guide rail system.
※ Both guide rails must be set on the same slot height to ensure that the shelf is horizontal.
※ Set up the shelf and check whether the shelf is fixed.
※ Improper setting of the shelf may cause blocked moisture absorption window or affect the ventilation inside the cabinet.

① Shelf guide rail system setting

![Diagram of Shelf Guide Rail System]
6 Caution

1. Do not touch the power plug with wet hands, otherwise it may cause personal harm.
2. If the power cord is aged, broken, loose, or unusually hot, please replace it immediately to avoid fire.
3. When the cabinet is maintained, cleaned or moved, please turn off the power. Please pull out the power plug if the cabinet will not be used for a long time.
4. Do not put corrosive products like chemicals, flammable or explosive items into the cabinet, otherwise it may cause a fire or explosion.
5. Do not clean the cabinet with water. This may damage the electronics and cause a potential shock or fire hazard.
6. Make sure the items inside the cabinet are about 5cm away from the Humidity Control Component so that the system can be properly ventilated and heat can be dispersed.

7 Possible problems and troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Still doesn't work when turned on</td>
<td>Is Power cord plugged in properly?</td>
<td>Make sure power supply and plug are in good condition and fully plugged into the outlet.</td>
</tr>
<tr>
<td></td>
<td>Does the article contain too much moisture?</td>
<td>Dry the article with a fan before putting it in the cabinet.</td>
</tr>
<tr>
<td></td>
<td>Inappropriate humidity setting.</td>
<td>Refer to the humidity recommendation for your article and set the proper one.</td>
</tr>
<tr>
<td></td>
<td>Internal humidity is much higher than outside environment.</td>
<td>Set the internal humidity lower than outside environment.</td>
</tr>
<tr>
<td></td>
<td>Opening or closing the door too often.</td>
<td>Reduce the number of times and length of time the door is opened.</td>
</tr>
<tr>
<td></td>
<td>a. High heat from a nearby oven or other heat generating equipment may affect efficiency.</td>
<td>Stay away from places with high temperatures and strong airflow, Rearrange the inner articles to allow sufficient airflow or remove some articles. Do not block the ventilation outlet.</td>
</tr>
<tr>
<td></td>
<td>b. The blowing from the air outlet of the air conditioner, fan or other equipment may affect air convection.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c. The inner articles may block the ventilation outlet.</td>
<td></td>
</tr>
</tbody>
</table>

Caution

1. Run the cabinet for 4 hours before placing items into the cabinet.
2. The temperature of the cabinet system will rise when it starts dehumidifying. It will last about 35 minutes (different size cabinets will take longer or shorter periods of time to stabilize).
3. Please fan dry items with lots of moisture, like paper, clothes, packing materials before putting into the cabinet.
When the Humidity Control Component is not working, please remove the Component as follows (the power must be shut off first):

1. Compatible with the HC Series Cabinets with Humidity Control Component mounted inside.
   ① Dismantle the power socket cover.
   ② Pull out the wire terminal connected to the Humidity Control Component.
   ③ Loosen the screw connected to the Humidity Control Component, then the Humidity Control Component can be dismantled.

2. Compatible with the HC Series Cabinets with Humidity Control Component mounted outside.
   ① Remove the ground wire from the cabinet
   ② Unplug the connector of the Humidity Control Component, and pull out the wire from the slot.
   ③ Detach 4 screws from the back plate, and remove the Humidity Control Component.

---

8 Humidity recommendations: Reference Table

<table>
<thead>
<tr>
<th>Relative humidity</th>
<th>Storage Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>55%-60%RH</td>
<td>Paper material: paintings, antiques, paper currency, old books, fax paper, copy paper, typing paper.</td>
</tr>
<tr>
<td>45%-55%RH</td>
<td>Optical equipment: video camera, acoustics, computer equipment, cameras, lenses, microscopes, CDs, telescopes, endoscopes, negative film, video tapes, microfilm, disk drives, lantern slides.</td>
</tr>
<tr>
<td>35%-45%RH</td>
<td>Precise Material: metal, nonmetal, metal powder product, electrical equipment, electronic product, semiconductors, capacitors, Printed Circuit Boards, tungsten filament, IC, battery. Precision machinery &amp; instrument products: accessory, crystal, precision measuring tools, optical glass, spectrometer etc.</td>
</tr>
<tr>
<td>35%-25%RH</td>
<td>Chemical raw materials: pharmacy raw materials, spices, paint, powder, powder material, adhesives. Farm supplies: seeds, pollen, dried flowers.</td>
</tr>
</tbody>
</table>

⚠️ Attention The equipment cannot be used when the external relative humidity is lower than 25%
# 9 Packing List

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Description</th>
<th>Unit</th>
<th>HC30</th>
<th>HC50</th>
<th>HC60</th>
<th>HC70</th>
<th>HC110</th>
<th>HC200</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Detachable power cord with 2/3 prong connector</td>
<td>set</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(Attached on the cabinet)</td>
<td></td>
<td>(Att)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Spare key</td>
<td>pcs</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Moveable Shelf</td>
<td>pcs</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Shelf bracket</td>
<td>pcs</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>Shelf mat</td>
<td>pcs</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Instructions</td>
<td>pcs</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

# 10 HC series specification

<table>
<thead>
<tr>
<th>Model</th>
<th>HC30</th>
<th>HC50</th>
<th>HC60</th>
<th>HC70</th>
<th>HC110</th>
<th>HC200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (L)</td>
<td>30</td>
<td>50</td>
<td>60</td>
<td>70</td>
<td>110</td>
<td>200</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>7.8</td>
<td>12.7</td>
<td>14.5</td>
<td>16.2</td>
<td>23.5</td>
<td>36.5</td>
</tr>
<tr>
<td>Dimensions(mm)</td>
<td>height x width x depth</td>
<td>320 x 400 x 300</td>
<td>520 x 400 x 335</td>
<td>600 x 400 x 335</td>
<td>680 x 400 x 335</td>
<td>820 x 450 x 380</td>
</tr>
<tr>
<td>Humidity control mode</td>
<td>Fully automatic electronic humidity control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door material</td>
<td>Aluminum door frame, silk print tempered glass</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabinet body material</td>
<td>Cold rolled steel with powder coating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>AC 110V~240V 50/60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption (kW/month)</td>
<td>0.4 ~ 1.5</td>
<td>1.3 ~ 3.4</td>
<td>1.3 ~ 3.4</td>
<td>1.3 ~ 3.4</td>
<td>1.3 ~ 5.3</td>
<td>1.5 ~ 5.3</td>
</tr>
<tr>
<td>Quantity of shelves (set)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

Product specifications are subject to change without prior notice.
Revolutionary industry innovation—SIRUI creates high performance, mildew-proof humidity control cabinets.

Principles of Photocatalyst TiO2

Under irradiation of light, Photocatalyst TiO2 will produce a photocatalytic reaction like photosynthesis - oxygen. Due to the absorption of light energy, the interior will be excited and generate electron hole pairs (photo-generated carrier). The electron hole pairs will move to the surface of the Photocatalyst TiO2 immediately and activate the adsorbed (stuck to the outside surface) oxygen and moisture, producing reactive free hydroxyl (\(-\text{OH}\)) and reactive oxygen (\(-\text{O}\)). The Photocatalyst TiO2 has potent light oxidation reduction performance, and can oxidize and decompose all organic compounds and some inorganic substances. When the pollutant and bacteria adsorb onto the surface of the Photocatalyst TiO2, chain degradation reaction will occur, and convert the organic pollutant into harmless, pollution-free water (\(\text{H}_2\text{O}\)) and carbon dioxide (\(\text{CO}_2\)). This makes the Photocatalyst TiO2 capable of sterilizing, deodorizing, mildew-proofing, dust-proofing, self-cleaning and purifying.

Photocatalyst TiO2 converts the contacted organic compounds into \(\text{CO}_2\) and \(\text{H}_2\text{O}\) with the oxygen molecule and water molecule in the air. The Photocatalyst TiO2 itself doesn’t change, but can promote a chemical reaction. The chemical reaction will last long, so the operating cost will be low. Photocatalyst itself is non-toxic and harmless, it has been widely used in the area of food, medicine, cosmetics, etc.
Testing Report for the germicidal rate of SIRUI Electronic Humidity Cabinets

The test report indicated: After operating the 50L cabinet for 1 hour, reduction of the bacterium - Staphylococcus albus 8032 - was 82%.

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**GUANGDONG DETECTION CENTER OF MICROBIOLOGY**

**REPORT FOR ANALYSIS**

**Name of Sample**: SIRUI ELECTRONIC HUMIDITY CONTROL CABINET

**Spec and Lot No. of Sample**: BC Series HS Series

**Applicant**: Zhejiang SIRUI Photographic Equipment Industry Co., Ltd.

**Sample Received Date**: 2016/04/15

**Test Item**: Distribution efficiency for air

**Report No.**: 2014/GX0121-140

**Testing Period**: 2016/05/15 to 2016/05/23

**Sample Receiving Date**: 2014/05/10

**Test Method**: Referenced to Technical Standard for Distribution (2002 Ministry of Health P.R.China) 5.1.2

**RESULTS**

<table>
<thead>
<tr>
<th>Action (hr)</th>
<th>The tested strain</th>
<th>Serial Number</th>
<th>The number of bacteria in the air (cfu/m³)</th>
<th>Reduced rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (CK)</td>
<td>Staphylococcus albus B032</td>
<td>1</td>
<td>$6.8 \times 10^4$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>$4.5 \times 10^4$</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>$6.7 \times 10^4$</td>
<td></td>
</tr>
<tr>
<td>2h</td>
<td>Staphylococcus albus B032</td>
<td>1</td>
<td>$7.8 \times 10^5$</td>
<td>83.06</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>$7.9 \times 10^5$</td>
<td>82.44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>$8.8 \times 10^5$</td>
<td>82.08</td>
</tr>
</tbody>
</table>

Test results showed that after turning on the sample for 1 hour in the 50L test chamber, Staphylococcus albus B032 reduction rate was 82%.

( signature )

**Remarks**

1. Method description: The air was taken in front of the cabinet and the flow was 1 liter/min by pump liquid sample, sampling time is 10 minutes, total number of 100.
2. The test results show the influence of initial death of deodorization bacteria.
SIRUI HC series Electronic Humidity Control Cabinets are all manufactured with Photocatalyst TiO₂ - a safe specialized coating that makes the cabinets anti-bacterial, sterilizing, purifying, deodorizing and mildew-proofing – further enhancing their dust-proof and humidity controlled environment.

Testing Report for the removing rate of pollutants by SIRUI Electronic Humidity Cabinets (Harmful fumes from substance like Formaldehyde, Benzene, etc.)

The testing report indicated: After operating the 50L cabinet for 24 hours, the removal rate for the Formaldehyde was 83.9%, and the removal rate for the Benzene was 86%.
Dear Customer,

Thank you for your purchase of Sirui professional products!
Sirui warrants that your purchase is free from defects in materials and workmanship, under normal use during the Limited Warranty period. The warranty period starts on the original date of purchase on your sales receipt. If service is required, please include a copy of the sales receipt and this warranty card, with an explanation of the problem. Please store your sales receipt and warranty card in a safe location.
SIRUI service hotline: 400 830 2299

Buyer reading:
(1) The Sirui cabinet comes with a 6-year warranty. (The electronic parts have a 3-year warranty).
   The warranty period starts on the original date of purchase on your sales receipt.
(2) This warranty is only valid when product is purchased from an authorized SIRUI dealer or online shop.
(3) If service is required on the cabinet: Please confirm the problem by contacting your dealer or SIRUI directly. Remove the problem parts and send only those parts to the SIRUI factory for repair. Please refer to the instruction manual or call our service hotline for more information.
(4) Warranty repair will not be provided, under the following circumstances:
   ① The warranty period is over.
   ② The product was not purchased from an authorized SIRUI dealer.
   ③ The product was repaired by an unauthorized agency or unauthorized repair center.
   ④ Damage was caused due to improper operation, accident, natural disasters.