

## LOW TEMPERATURE TEST CHAMBER

### PRODUCT IMAGE

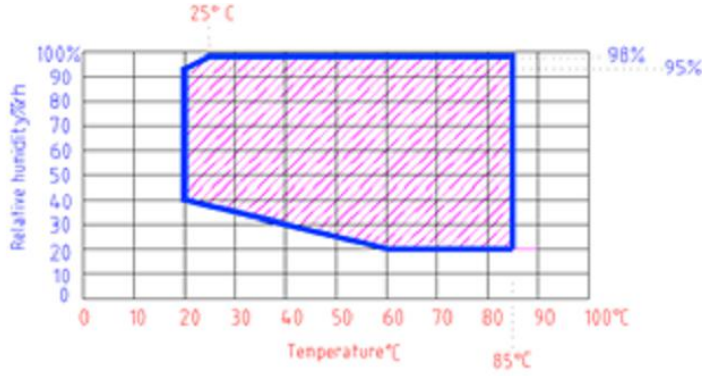


*Photo for reference*

### APPLICATION

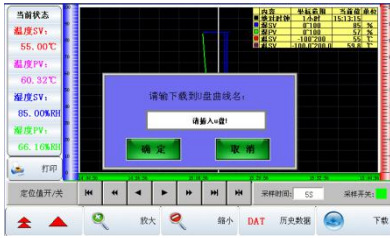

Climatic Chamber simulates various temperature and humidity environment for high low temperature operation & storage, temperature cycling, low temperature & humidity. The chamber is widely used in defense industry, auto parts, electronics, instruments, rubber and plastic, textile, chemical industry and others for heating, moisture, cold, dry resistance test and quality control.

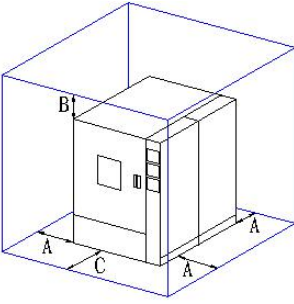
## Specifications

|   |   |
|---|---|
| <b>1. Product name</b>                      | <b>Low Temperature Test Chamber</b>   |
| 1.1 Model                                   | R-TH-100  |
| 1.2 Internal volume                         | 100L  |
| 1.3 Internal size                           | W400 * D500* H500mm   |
| 1.4 External size                           | W600 * D1400* H1100mm   |
| <b>2. Performance</b>                       |   |
| <b>2.1 Temp. range</b>                      | <b>-40 ~ 150°C</b>  |
| 2.2 Temp. fluctuation                       | ±0.5°C  |
| 2.3 Temp. error                             | ±1°C  |
| 2.4 Temp. uniformity                        | ±2°C  |
| <b>2.5 Humid. range</b>                     | <b>20% - 95%RH</b>  |
| 2.6 Humid. fluctuation                      | ±2%R.H.   |
| 2.7 Humid. uniformity                       | ±3%R.H.   |
| <b>2.8 Tested sample</b>                    | <b>Concrete, furniture items</b>  |
| 2.9 Heat up rate                            | 0°C to +60°C, about 20min (non-linear, without load)  |
| 2.10 Cool down rate                         | +20°C to -40°C, about 60 min (non-linear, without load)   |
| 2.11 Temperature and humidity control range |    |
| <b>3. Structure</b>                         |   |
| 3.1 Thermal insulation structure            | External material: Cold-rolled steel plate with powder coating<br>Internal material: SUS#304<br>Chamber thermal insulation material: Rigid polyurethane foam<br>Door thermal insulation material: Rigid polyurethane foam |

|   |  |
|---|--|
| <p>3.2 Air conditioning channel</p>       | <p>Centrifugal fan.</p>  <p>Heater, humidifier, evaporator, water supply and drainage holes, temperature sensor</p>   |
| <p>3.3 Chamber standard configuration</p> | <p>One observing windows with three vacuum layers<br/>         Door handle<br/>         Door hinge: SUS #304<br/>         One diameter 100mm test hole on the right side with silicone soft plug and stainless steel cap</p>  <p>One observing light:<br/>         Two pieces SUS #304 sample trays for each chamber<br/>         2sets SUS #304 guide rail for sample trays with adjustable distance 40mm</p> |
| <p>3.4 Chamber door</p>                   | <p>Single door and handle on the right<br/>         Observing windows with three vacuum layers<br/>         Door and frame equipped with anti-condensation electric heating device</p>   |
| <p>3.5 Control panel</p>                  | <p>PLC touch screen controller, over-temperature protector</p>   |
| <p>3.6 Machinery room</p>                 | <p>Refrigerating unit, tray for water output, water output hole</p>  |
| <p>3.7 Power distribution</p>             | <p>Power distribution panel, exhaust fan</p>   |
| <p>3.8 Heating system</p>                 | <p>Stainless steel fin type heater</p>   |
| <p>3.9 Humidification system</p>          | <p>Plastic water tank to supply water for humidification</p>  <p>Manual or Automatic water loading</p>  |
| <p><b>4. Refrigerating system</b></p>     |  |

|                                      |  |
|--------------------------------------|--|
| 4.1 Cooling way                      | Air cool   |
| 4.2 Compressor                       | <p>France Tecumseh full closed compressor unit</p>    |
| 4.3 Evaporator                       | Fin type multi - section automatic load capacity adjustment  |
| 4.4 Condenser                        | <p>Fin type air cool condenser</p>    |
| 4.5 Expansion system                 | Volume control refrigeration system.   |
| 4.6 Evaporator condenser             | Stainless steel plate heat exchanger   |
| 4.7 Control way                      | <p>Control system can automatically adjust operating condition of refrigerator</p> <p>Evaporation pressure regulating valve</p> <p>Compressor return air and cooling circuit</p>   |
| 4.8 Refrigerant                      | R404a  |
| <b>5 . Electrical control system</b> |  |
| 5.1 Control system                   | PLC touch screen controller  |
| 5.2 Controller specifications        | <p>Accuracy: temperature <math>\pm 0.1^{\circ}\text{C}</math> + 1digit, humidity <math>\pm 1\% \text{RH}</math> + 1digit;</p> <p>Resolution: temperature <math>0.1^{\circ}\text{C}</math>, humidity <math>\pm 0.1\% \text{RH}</math>;</p> <p>With upper and lower limits of standby and alarm functions;</p> <p>Temperature humidity input signal wet and dry bulb PT100 x 2;</p> <p>9 groups P.I.D control parameter setting, P.I.D auto calculation;</p> <p>Wet and dry bulb automatic correction;</p> |

|   |   |
|---|---|
| <p>5.3 Display functions</p>                              | <p>Color touch screen<br/>Temp. SV and PV display directly<br/>Display current segment number and left time and cycle times<br/>Running total time<br/>Temp. set value and curve display, real-time curve display<br/>With separate program editing screen; each page can input at least 5 segments temperature and time<br/>English interface; fault reminder display<br/>Screen with backlight adjustment; timing screen display protection function, TIMER or manual shutdown setting</p>  |
| <p>5.4 Program segment capacity and control functions</p> | <p>Program: Max. 50 patten<br/>Capacity: 12000 segments<br/>Repeat command execution: each one can reach 3200times<br/>Functions has editable, delete, insert etc<br/>Time setting for segment: 0 ~ 99Hour59Min<br/>Programmable sequence control module unit x2 groups<br/>Power off program memory, automatically start and continue to execute the program function after the resumption of power<br/>RS-232 / USB connecting<br/>Real-time curve display<br/>Automatic adjustment for freezing function; reserved start and shutdown function<br/>Date, time editable, buttons and screen lock function</p> |
| <p><b>6. Safety protection</b></p>                        |   |
| <p>6.1 Cooling system</p>                                 | <p>Protection for compressor over- current, over-voltage, over-heat<br/>Protection for condensate fan over-heat</p>   |
| <p>6.2 Chamber</p>  | <p>Adjustable over-temp protection; air conditioning channel over-temp protection; fan and motor over-heat protection</p>   |
| <p>6.3 Other</p>  | <p>Power phase sequence and lack of phase protection; leakage protection; heating over-load protection</p>  |
| <p><b>7. Other configurations</b></p>                     |   |
| <p>7.1 Main power</p>                                     | <p>1# AC220V±10%, 50Hz</p>  |
| <p>7.2 USB port</p>                                       | <p>Controller can download previous curves and data which can be saved with excel as per date. Also data can be saved by JPG to zoom and download.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="619 1529 1010 1765">  <p style="text-align: center;">Test curve download</p> </div> <div data-bbox="1066 1529 1457 1765">  <p style="text-align: center;">Test data download</p> </div> </div>      |
| <p><b>8. Chamber using environmental conditions</b></p>   |   |

|                                     |  |
|-------------------------------------|--|
| <p>8.1 Installation conditions</p>  | <p>Smooth ground; good ventilation; without strong vibration and electromagnetic around<br/>           Without inflammable, explosive, corrosive material substance and dust<br/>           There should be suitable room for chamber, see below:<br/>           A≥80cm B≥80cm C≥120cm</p>  |
| <p>8.2 Environmental conditions</p> | <p>Temperature: 5°C-35°C<br/>           Humidity: ≤85%<br/>           Pressure: 86kPa ~ 106kPa</p>   |

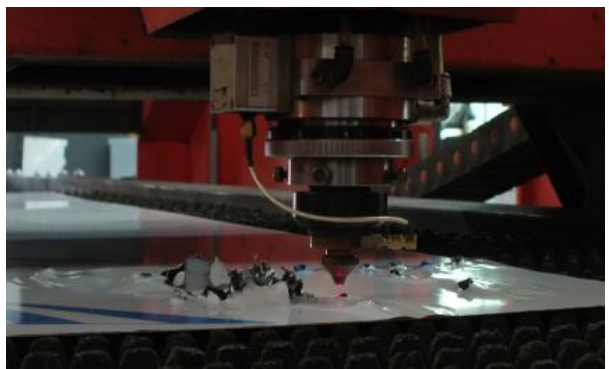
### Main Parts

| Equipment name           | Brand            | Equipment name      | Brand               |
|--------------------------|------------------|---------------------|---------------------|
| Compressor               | France Tecumseh  | PLC Controller      | China               |
| Expansion valve          | DANFOSS          | Heating tube        | Taiwan Lu Chiuan    |
| Solenoid valve           | Japan Saginomiya | Over-temp protector | South Korea Rainbow |
| Plate heat exchanger     | Taiwan Gaoli     | Dehumidifier        | China               |
| High pressure controller | DANFOSS          | Contactora          | Schneider           |
| Evaporator               | China            | Thermal relay       | Schneider           |
| Condenser                | China            | Control transformer | Taiwan              |
| Condensate fan           | Germany Mahr     | Intermediate relay  | Schneider           |
| Circulation Fan          | Taiwan Guangyu   | Breaker             | Japan Mitsubishi    |
| Door lock/ hinge         | China            | Power switch        | Japan Mitsubishi    |

*The final parts are subject to actual machine*

### Factory pictures





## LOW TEMPERATURE TEST CHAMBER

### PRODUCT IMAGE



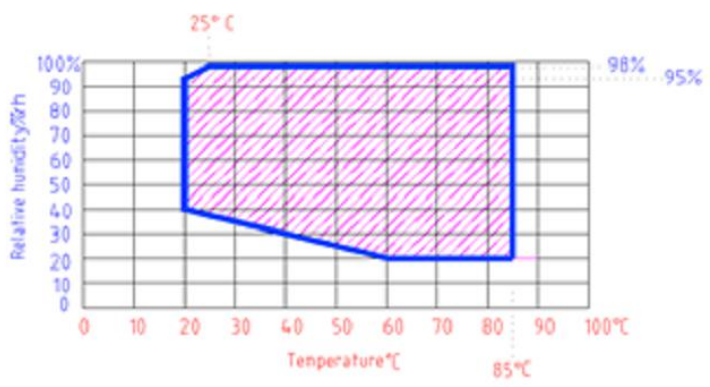

*Photo for reference*




### APPLICATION


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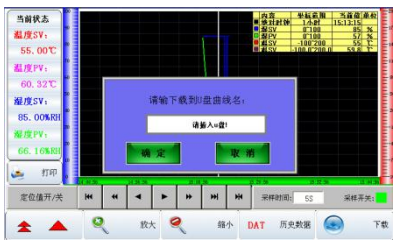

### Specifications

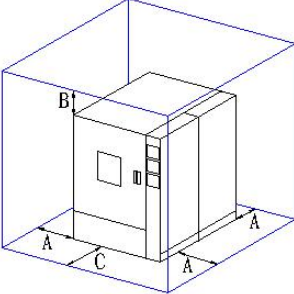


|   |   |
|---|---|
| <b>1. Product name</b>                      | <b>Low Temperature Test Chamber</b>   |
| 1.1 Model                                   | R-TH-150  |
| 1.2 Internal volume                         | 150L  |
| 1.3 Internal size                           | W500 * D500* H600mm   |
| 1.4 External size                           | W750 * D1020* H1500mm   |
| <b>2. Performance</b>                       |   |
| <b>2.1 Temp. range</b>                      | <b>-40 ~ 150°C</b>  |
| 2.2 Temp. fluctuation                       | ±0.5 °C   |
| 2.3 Temp. error                             | ±1 °C   |
| 2.4 Temp. uniformity                        | ±2 °C   |
| <b>2.5 Humid. range</b>                     | <b>20% - 95%RH</b>  |
| 2.6 Humid. fluctuation                      | ±2%R.H.   |
| 2.7 Humid. uniformity                       | ±3%R.H.   |
| <b>2.8 Tested sample</b>                    | <b>Concrete, furniture items</b>  |
| 2.9 Heat up rate                            | 0°C to +60°C, about 20min (non-linear, without load)  |
| 2.10 Cool down rate                         | +20°C to 0°C, about 20 min (non-linear, without load)   |
| 2.11 Temperature and humidity control range |    |
| <b>3. Structure</b>                         |   |
| 3.1 Thermal insulation structure            | External material: Cold-rolled steel plate with powder coating<br>Internal material: SUS#304<br>Chamber thermal insulation material: Rigid polyurethane foam<br>Door thermal insulation material: Rigid polyurethane foam |
| 3.2 Air conditioning channel                | Centrifugal fan.<br><br>Heater, humidifier, evaporator, water supply and drainage holes, temperature sensor                            |

|   |  |
|---|--|
| <p>3.3 Chamber standard configuration</p> | <p>One observing windows with three vacuum layers<br/>           Door handle<br/>           Door hinge: SUS #304<br/>           One diameter 100mm test hole on the right side with silicone soft plug and stainless steel cap</p>  <p>One observing light:<br/>           Two pieces SUS #304 sample trays for each chamber<br/>           2sets SUS #304 guide rail for sample trays with adjustable distance 40mm</p> |
| <p>3.4 Chamber door</p>                   | <p>Single door and handle on the right<br/>           Observing windows with three vacuum layers<br/>           Door and frame equipped with anti-condensation electric heating device</p>   |
| <p>3.5 Control panel</p>                  | <p>PLC touch screen controller, over-temperature protector</p>   |
| <p>3.6 Machinery room</p>                 | <p>Refrigerating unit, tray for water output, water output hole</p>  |
| <p>3.7 Power distribution</p>             | <p>Power distribution panel, exhaust fan</p>   |
| <p>3.8 Heating system</p>                 | <p>Stainless steel fin type heater</p>   |
| <p>3.9 Humidification system</p>          | <p>Plastic water tank to supply water for humidification</p>  <p>Manual or Automatic water loading</p>  |
| <p><b>4. Refrigerating system</b></p>     |  |
| <p>4.1 Cooling way</p>                    | <p>Air cool</p>  |
| <p>4.2 Compressor</p>                     | <p>France Tecumseh full closed compressor unit</p>    |
| <p>4.3 Evaporator</p>                     | <p>Fin type multi - section automatic load capacity adjustment</p>   |

|                                      |  |
|--------------------------------------|--|
| 4.4 Condenser                        | Fin type air cool condenser<br>   |
| 4.5 Expansion system                 | Volume control refrigeration system.   |
| 4.6 Evaporator condenser             | Stainless steel plate heat exchanger   |
| 4.7 Control way                      | Control system can automatically adjust operating condition of refrigerator<br>Evaporation pressure regulating valve<br>Compressor return air and cooling circuit  |
| 4.8 Refrigerant                      | R404a  |
| <b>5 . Electrical control system</b> |  |
| 5.1 Control system                   | PLC touch screen controller  |
| 5.2 Controller specifications        | Accuracy: temperature $\pm 0.1^{\circ}\text{C}$ + 1digit, humidity $\pm 1\% \text{RH}$ + 1digit;<br>Resolution: temperature $0.1^{\circ}\text{C}$ , humidity $\pm 0.1\% \text{RH}$ ;<br>With upper and lower limits of standby and alarm functions;<br>Temperature humidity input signal wet and dry bulb PT100 x 2;<br>9 groups P.I.D control parameter setting, P.I.D auto calculation;<br>Wet and dry bulb automatic correction;  |
| 5.3 Display functions                | Color touch screen<br>Temp. SV and PV display directly<br>Display current segment number and left time and cycle times<br>Running total time<br>Temp. set value and curve display, real-time curve display<br>With separate program editing screen; each page can input at least 5 segments temperature and time<br>English interface; fault reminder display<br>Screen with backlight adjustment; timing screen display protection function, TIMER or manual shutdown setting |

|   |   |
|---|---|
| <p>5.4 Program segment capacity and control functions</p> | <p>Program: Max. 50 patten<br/>Capacity: 12000 segments<br/>Repeat command execution: each one can reach 3200times<br/>Functions has editable, delete, insert etc<br/>Time setting for segment: 0 ~ 99Hour59Min<br/>Programmable sequence control module unit x2 groups<br/>Power off program memory, automatically start and continue to execute the program function after the resumption of power<br/>RS-232 / USB connecting<br/>Real-time curve display<br/>Automatic adjustment for freezing function; reserved start and shutdown function<br/>Date, time editable, buttons and screen lock function</p>   |
| <p><b>6. Safety protection</b></p>                        |   |
| <p>6.1 Cooling system</p>                                 | <p>Protection for compressor over- current, over-voltage, over-heat<br/>Protection for condensate fan over-heat</p>   |
| <p>6.2 Chamber</p>  | <p>Adjustable over-temp protection; air conditioning channel over-temp protection; fan and motor over-heat protection</p>   |
| <p>6.3 Other</p>  | <p>Power phase sequence and lack of phase protection; leakage protection; heating over-load protection</p>  |
| <p><b>7. Other configurations</b></p>                     |   |
| <p>7.1 Main power</p>                                     | <p>1# AC220V±10%, 50Hz</p>  |
| <p>7.2 USB port</p>                                       | <p>Controller can download previous curves and data which can be saved with excel as per date. Also data can be saved by JPG to zoom and download.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="619 1093 1013 1332">  </div> <div data-bbox="1021 1093 1460 1332">  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="686 1339 925 1370" style="text-align: center;"> <p>Test curve download</p> </div> <div data-bbox="1133 1339 1372 1370" style="text-align: center;"> <p>Test data download</p> </div> </div> |
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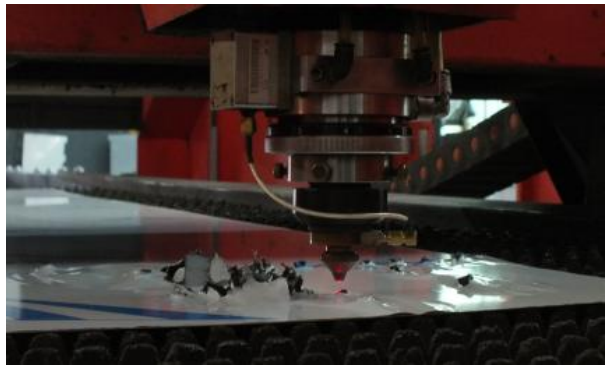
|                                     |  |
|-------------------------------------|--|
| <p>8.1 Installation conditions</p>  | <p>Smooth ground; good ventilation; without strong vibration and electromagnetic around<br/>           Without inflammable, explosive, corrosive material substance and dust<br/>           There should be suitable room for chamber, see below:<br/>           A≥80cm B≥80cm C≥120cm</p>  |
| <p>8.2 Environmental conditions</p> | <p>Temperature: 5°C-35°C<br/>           Humidity:≤85%<br/>           Pressure:86kPa ~ 106kPa</p>   |

### Main Parts

| Equipment name           | Brand            | Equipment name      | Brand               |
|--------------------------|------------------|---------------------|---------------------|
| Compressor               | France Tecumseh  | PLC Controller      | China               |
| Expansion valve          | DANFOSS          | Heating tube        | Taiwan Lu Chiuan    |
| Solenoid valve           | Japan Saginomiya | Over-temp protector | South Korea Rainbow |
| Plate heat exchanger     | Taiwan Gaoli     | Dehumidifier        | China               |
| High pressure controller | DANFOSS          | Contactora          | Schneider           |
| Evaporator               | China            | Thermal relay       | Schneider           |
| Condenser                | China            | Control transformer | Taiwan              |
| Condensate fan           | Germany Mahr     | Intermediate relay  | Schneider           |
| Circulation Fan          | Taiwan Guangyu   | Breaker             | Japan Mitsubishi    |
| Door lock/ hinge         | China            | Power switch        | Japan Mitsubishi    |

*The final parts are subject to actual machine*

### Factory pictures





## LOW TEMPERATURE TEST CHAMBER

### PRODUCT IMAGE

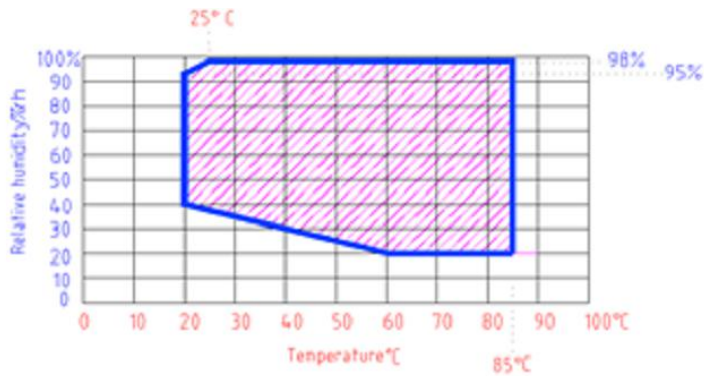


*Photo for reference*



### APPLICATION

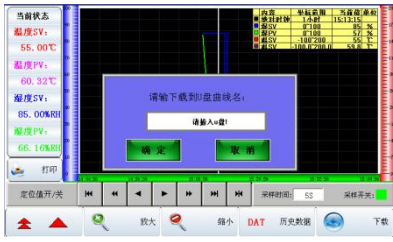

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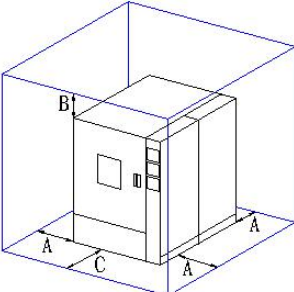
## Specifications

|   |  |
|---|--|
| <b>1. Product name</b>                      | <b>Low Temperature Test Chamber</b>  |
| 1.1 Model                                   | R-TH-225   |
| 1.2 Internal volume                         | 225L   |
| 1.3 Internal size                           | W500 * D750* H600mm  |
| 1.4 External size                           | W700 * D1650* H1200mm  |
| <b>2. Performance</b>                       |  |
| <b>2.1 Temp. range</b>                      | <b>-40 ~ 150°C</b>   |
| 2.2 Temp. fluctuation                       | ±0.5°C   |
| 2.3 Temp. error                             | ±1°C   |
| 2.4 Temp. uniformity                        | ±2°C   |
| <b>2.5 Humid. range</b>                     | <b>20% - 95%RH</b>   |
| 2.6 Humid. fluctuation                      | ±2%R.H.  |
| 2.7 Humid. uniformity                       | ±3%R.H.  |
| <b>2.8 Tested sample</b>                    | <b>Concrete, furniture items</b>   |
| 2.9 Heat up rate                            | 0°C to +60°C, about 20min (non-linear, without load)   |
| 2.10 Cool down rate                         | +20°C to -40°C, about 60 min (non-linear, without load)  |
| 2.11 Temperature and humidity control range |  <p>The graph illustrates the temperature and humidity control range. The x-axis represents Temperature in °C, ranging from 0 to 100. The y-axis represents Relative humidity in %, ranging from 0 to 100. A blue shaded area indicates the control range, which is bounded by a temperature of 25°C at 98% RH, a temperature of 85°C at 20% RH, and a temperature of 25°C at 95% RH.</p> |
| <b>3. Structure</b>                         |  |
| 3.1 Thermal insulation structure            | External material: Cold-rolled steel plate with powder coating<br>Internal material: SUS#304<br>Chamber thermal insulation material: Rigid polyurethane foam<br>Door thermal insulation material: Rigid polyurethane foam  |

|   |  |
|---|--|
| <p>3.2 Air conditioning channel</p>       | <p>Centrifugal fan.</p>  <p>Heater, humidifier, evaporator, water supply and drainage holes, temperature sensor</p>   |
| <p>3.3 Chamber standard configuration</p> | <p>One observing windows with three vacuum layers<br/>         Door handle<br/>         Door hinge: SUS #304<br/>         One diameter 100mm test hole on the right side with silicone soft plug and stainless steel cap</p>  <p>One observing light:<br/>         Two pieces SUS #304 sample trays for each chamber<br/>         2sets SUS #304 guide rail for sample trays with adjustable distance 40mm</p> |
| <p>3.4 Chamber door</p>                   | <p>Single door and handle on the right<br/>         Observing windows with three vacuum layers<br/>         Door and frame equipped with anti-condensation electric heating device</p>   |
| <p>3.5 Control panel</p>                  | <p>PLC touch screen controller, over-temperature protector</p>   |
| <p>3.6 Machinery room</p>                 | <p>Refrigerating unit, tray for water output, water output hole</p>  |
| <p>3.7 Power distribution</p>             | <p>Power distribution panel, exhaust fan</p>   |
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|                                      |   |
|--------------------------------------|---|
| 4.1 Cooling way                      | Air cool  |
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|   |   |
|---|---|
| <p>5.3 Display functions</p>                              | <p>Color touch screen<br/>Temp. SV and PV display directly<br/>Display current segment number and left time and cycle times<br/>Running total time<br/>Temp. set value and curve display, real-time curve display<br/>With separate program editing screen; each page can input at least 5 segments temperature and time<br/>English interface; fault reminder display<br/>Screen with backlight adjustment; timing screen display protection function, TIMER or manual shutdown setting</p>  |
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| <p><b>6. Safety protection</b></p>                        |   |
| <p>6.1 Cooling system</p>                                 | <p>Protection for compressor over- current, over-voltage, over-heat<br/>Protection for condensate fan over-heat</p>   |
| <p>6.2 Chamber</p>  | <p>Adjustable over-temp protection; air conditioning channel over-temp protection; fan and motor over-heat protection</p>   |
| <p>6.3 Other</p>  | <p>Power phase sequence and lack of phase protection; leakage protection; heating over-load protection</p>  |
| <p><b>7. Other configurations</b></p>                     |   |
| <p>7.1 Main power</p>                                     | <p>1# AC220V±10%, 50Hz</p>  |
| <p>7.2 USB port</p>                                       | <p>Controller can download previous curves and data which can be saved with excel as per date. Also data can be saved by JPG to zoom and download.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="619 1518 1013 1758">  <p style="text-align: center;">Test curve download</p> </div> <div data-bbox="1061 1518 1460 1758">  <p style="text-align: center;">Test data download</p> </div> </div>      |
| <p><b>8. Chamber using environmental conditions</b></p>   |   |

|                                     |  |
|-------------------------------------|--|
| <p>8.1 Installation conditions</p>  | <p>Smooth ground; good ventilation; without strong vibration and electromagnetic around<br/>           Without inflammable, explosive, corrosive material substance and dust<br/>           There should be suitable room for chamber, see below:<br/>           A≥80cm B≥80cm C≥120cm</p>  |
| <p>8.2 Environmental conditions</p> | <p>Temperature: 5°C-35°C<br/>           Humidity:≤85%<br/>           Pressure:86kPa ~ 106kPa</p>   |

### Main Parts

| Equipment name           | Brand            | Equipment name      | Brand               |
|--------------------------|------------------|---------------------|---------------------|
| Compressor               | France Tecumseh  | PLC Controller      | China               |
| Expansion valve          | DANFOSS          | Heating tube        | Taiwan Lu Chiuan    |
| Solenoid valve           | Japan Saginomiya | Over-temp protector | South Korea Rainbow |
| Plate heat exchanger     | Taiwan Gaoli     | Dehumidifier        | China               |
| High pressure controller | DANFOSS          | Contactora          | Schneider           |
| Evaporator               | China            | Thermal relay       | Schneider           |
| Condenser                | China            | Control transformer | Taiwan              |
| Condensate fan           | Germany Mahr     | Intermediate relay  | Schneider           |
| Circulation Fan          | Taiwan Guangyu   | Breaker             | Japan Mitsubishi    |
| Door lock/ hinge         | China            | Power switch        | Japan Mitsubishi    |

*The final parts are subject to actual machine*

### Factory pictures



