Simplewell昇微

Temperature humidity test chamber

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01Part

Production description





Energy-saving temperature humidity test chamber



Bench-top temperauter humidity test chamber





Temperature humidity test chamber



Battery temperature humidity test chamber

-. ESTH/ENTH/LSTH/LNTH introduction

Energy-saving temperature humidity test chamebr



1.Self-developed controller
2.Electronic expansion valve, energy saving and environmental protection
3.Small humidification water consumption

ENTH series



LSTH series

Temperature humidity test chamber

- 1.Self-developed controller
- 2.Good temperauter uniformity
- 3.Small humidification water consumption



LNTH series

ESTH series

Content

- 1.Inner cabin and electric box structure
- 2. Electronic control system
- 3. Display module
- 4.Door handle
- 5.External parts
- 6.Inner cabin parts
- 7. Water tank
- 8. Water system
- 9. Electronic components
- 10.Refrigeration components
- 11. Optional components

1. Inner cabin and electric box structure



ESTH/ENTH series inner cabin



LSTH/LNTH series inner cabin



ESTH/LSTH series electric box



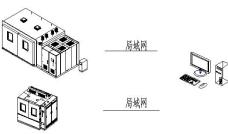
ENTH/LNTH series electric box

2. Electronic control system

1.Control: Adopt Japanese Mitsubishi new generation high-performance FX3U series PLC, 7.0 inches 600×480 dot matrix TFT color LCD display, Chinese/English menu, touch-type man-machine dialogue. The control unit adopts Japanese Mitsubishi PLC module to enter each system control, the control temperature is accurate and the equipment runs stably.







2. Connect to PC (optional): Through the centralized monitoring software, the test data can be recorded and automatically displayed as a curve in the PC, which can be printed directly, and the recording time is unlimited. File size depends on hard drive capacity. The PC can also be used as an operation terminal to realize remote monitoring.





Control box and panel: The electric box is sprayed with electrolytic board, the color is standard color, and the panel is equipped with touch-type man-machine dialogue interface, emergency stop switch, power indicator, USB, data exchange interface, over-temperature protector etc

3.Display module



Display

Cermate Taiwan

Benlee China



Emergency stop swith



Power Indicator

Benlee China

Yatai Shanghai



Over-temperature protector

4. Door handle



Customized handle

Features: light material, good hand feeling, temperature and humidity resistance

Applicable series-ENTH/LNTH/BAT-NT



Squeeze handle

Features: The lever principle makes the opening and closing of the door easier, stainless steel material, good corrosion resistance



Window glass
Built-in heating wire, temperature
and humidity resistance



Swivel casters

Good load bearing, with brake

5. External parts



Onnled brand indicator light, the angle can be adjusted freely

Three-color light



Leveling feet
Good load bearing,adjustable height



Motor

Drive the wind wheel to rotate, high temperature and low humidity resistance



Door hinge
The position can be adjusted, and the fixed angle can be limited



Sample holder
Lightweight structure, good loadbearing performance



Cooling tube
Conveying coolant

6. Inner cabin parts



Water tray
One-piece stamping, good sealing
performance



Evaporator
Increase the return pipe to save energy



Lamp
Wide range of light, temperature
and humidity resistance



Heating pipe
321 seamless stainless steel pipe



Humidifier
Seamless titanium tube, good humidification effect



Multi-wing wind wheel
Galvanized material, strong wind, low noise





7. Water tank



ESTH/ENTH series water tank



LSTH/LNTH series water tank





8. Water system



Gauze humidity sensor (ESTH/ENTH) (custom made)



Plastic Humidity
Sensor (LSTH/LNTH)



Ball guide rail (ESTH/ENTH) (Cobbe China)



Automatic refill cup



Water inlet (LSTH/LNTH)



Waterway solenoid valve



Supply pump



Waste water filter



Hydration water box

9. Electronic components









Flame retardant wire

Overload protector (Schneider)

Temperature sensor (Switzerland/Finland)

Solid State Relay (Carlo gavazzi)









Contactor (Schneider)

No fuse switch (Schneider)

Gas switch

PLC controller (Mitsubishi)

10. Refrigeration components



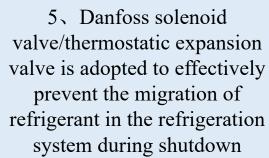
1"Tecumseh/Bitzer、
Bock" Full/semi-hermetic lownoise piston compressor with
reliable and stable performance



4. store refrigerant and reduce condenser load



3.Customized comdensor with Mar fan



Liquid storage tank

Bottle Ox

2. Emerson's high-efficiency oil separator is used to separate the lubricating oil in the high-pressure steam discharged from the refrigeration compressor to ensure the safe and efficient operation of the refrigeration system.



6. Hexnovo brand



Plate heat exchanger

11. Optional components



Electronic Humidity Sensor



Pure water machine (automatic replenishment)

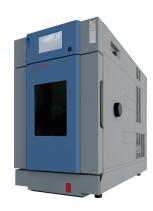


Door sensory switch

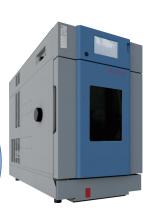


Air source dryer (low humidity)

二、Bench-top temperature humidity test chamber



1.Self-developed controller
2.Good temperature uniformity
3.Fast heating and cooling
4.Stable control, strong anti-interference
performance
5.Humidification water storage tank
adopts 3D printing, personalized design,
beautiful, easy to add water
6.Small humidification water
consumption



Content

- 1.Chamber structure
- 2. Electronic control system
- 3. Display module
- 4.Door handle
- 5.External parts
- 6.Inner cabin parts
- 7. Water tank
- 8. Water system
- 9. Electronic components
- 10.Refrigeration components

1. Chamber structure



Inner cabin



Refrigeration unit



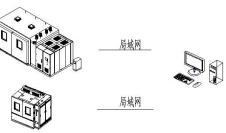
Electric box

2. Electronic control system

1.Control: Adopt Japanese Mitsubishi new generation high-performance FX3U series PLC, 7.0 inches 600×480 dot matrix TFT color LCD display, Chinese/English menu, touch-type man-machine dialogue. The control unit adopts Japanese Mitsubishi PLC module to enter each system control, the control temperature is accurate and the equipment runs stably.







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Yatai Shanghai

1.1 Production description

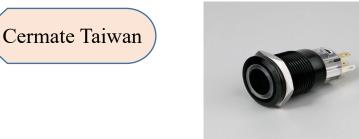


Control box and panel: The electric box is sprayed with electrolytic board, the color is standard color, and the panel is equipped with touch-type man-machine dialogue interface, emergency stop switch, power indicator, USB, data exchange interface, over-temperature protector etc

3.Display module



Display



Emergency stop swith



Serial interface



Over-temperature protector

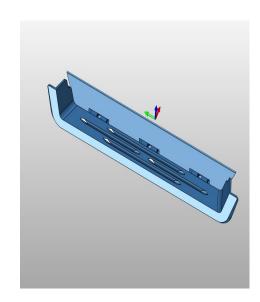


Renderings

4. Door handle



Renderings



Customized handle

Aluminum-magnesium alloy, hard texture, good hand feeling, friction resistance, high temperature resistance, low humidity resistance



Sample holder
Lightweight structure, good loadbearing performance



Evaporator

Increase the return pipe to save energy

6. Inner cabin parts



Water tray



Heating pipe
321 seamless stainless steel pipe



Humidifier
Seamless titanium tube, good humidification effect



Multi-wing wind wheel
Galvanized material, strong wind, low noise

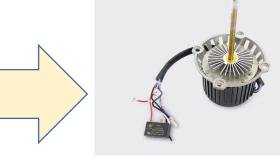
5. External parts



Window glass

Hollow glass, built-in defrosting heating wire, high temperature resistance, low humidity resistance. During the test, no fog or condensation can be achieved

Fengyu hardware brand, high horsepower, hard material, suitable for working in high temperature and low humidity environment



Motor



LAMP brand. Nylon base, high anti-skid resistance, stable use, wear-resistant.

Takigen brand. Alloy material, antioxidation and corrosion resistance, high hardness, strong bearing capacity.



Door hinge

Leveling feet



7. Water tank





Water tank

Simplewell Customized water tanks - good looking, durable and resistant to wear and tear

8. Water system



Electronic Humidity Sensor (Swizerland / Finland)



Supply pump



Waterway solenoid valve (AiTac brand)



Automatic refill cup (ShangKun brand)

9. Electronic components



Flame retardant wire



Overload protector (Schneider)



Temperature sensor (Switzerland/Finland)



Solid State Relay (Carlo gavazzi)



Contactor (Schneider)



No fuse switch (Schneider)



Gas switch



PLC controller (Mitsubishi)

10. Refrigeration components



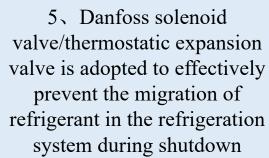
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3.Customized comdensor with Mar fan



Liquid storage tank

Bottle Ox

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6. Hexnovo brand



Plate heat exchanger

三、BAT-NT series test chamber



- 1.Self-developed controller is perfectly compatible with various charging and discharging systems
- 2.Linkage control with charging and discharging system and fire protection system
- 3.Explosion-proof pressure detection and automatic pressure relief
- 4.Equipped with flammable gas H2/HC detection sensor, the control system displays in real time
- 5.Electronic expansion valve, automatically balance battery charge and discharge heat



Content

- 1.Chamber structure
- 2. Electronic control system
- 3.Display module
- 4.External parts
- 5.Inner cabin parts
- 6.Principles of fire fighting
- 7. Fire components
- 8.Smoke exhaust element
- 9. Water system
- 10. Electronic components
- 11.Refrigeration components

1.Chamber structure



Inner cabin



Refrigerated cabinet



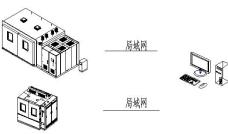
Electric box

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3.Display module



Display

Cermate Taiwan

Benlee China



Emergency stop swith



Power Indicator

Benlee China

Yatai Shanghai



Over-temperature protector

5. External parts



Window glass

Hollow glass, built-in defrosting heating wire, high temperature resistance, low humidity resistance. During the test, no fog or condensation can be achieved

Fengyu hardware brand, high horsepower, hard material, suitable for working in high temperature and low humidity environment



Motor



ShangKun brand.
Good material, strong load-bearing, with brakes, no noise during activities.

ShangKun brand. Alloy material, anti-oxidation and corrosion resistance, high hardness, strong bearing capacity.



Swivel casters

Leveling feet



Door handle

The lever principle makes the opening and closing of the door easier, stainless steel material, good corrosion resistance



Explosion-proof chain

Hard material, strong load-bearing, explosion-proof and anti-static

4. External parts



Door hinge

The position can be adjusted, and the fixed angle can be limited



Rings nut

Solid structure, strong and smooth, tightly fixed



Three-color light

Onnled brand indicator light, the angle can be adjusted freely



Damper controller
Intelligent angle switch, five-speed
adjustment



Sample holder
Lightweight structure, good loadbearing performance



Evaporator

Increase the return pipe to save energy

5.Inner cabin parts



Lamp
Wide range of light, temperature and humidity resistance



Heating pipe
321 seamless stainless steel pipe



Water tray



Multi-wing wind wheel
Galvanized material, strong wind, low noise

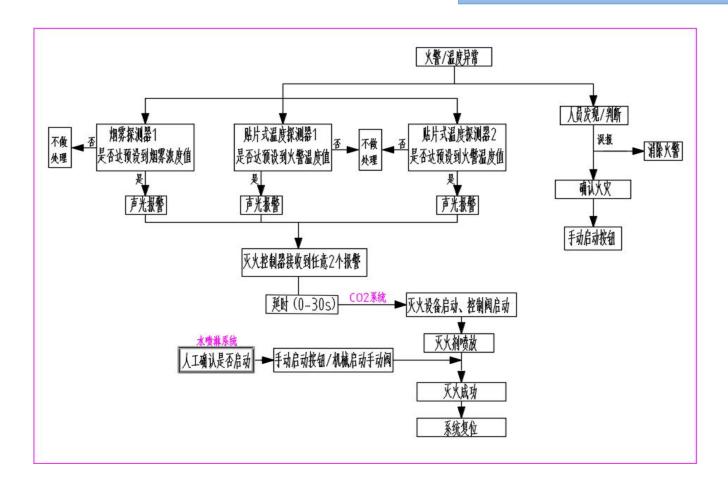
5.Inner cabin parts



Battery chamber pressure relief system:

- 1. When the battery explodes, the pressure in the box increases sharply due to abnormal working conditions, and the pressure relief device is automatically pushed open to relieve the destructive pressure in the box and quickly discharge high-pressure gas;
- 2. After the pressure is balanced, the pressure relief device automatically returns to its original position, making the cabin airtight;
- 3. One pressure relief port is located on the top, which is safe and reliable; the picture shows the external view of the pressure relief device, and the top opening is connected to the exhaust gas filtration system

6. Principles of fire fighting



- 1. The carbon dioxide cooling system adpots a 70L bottle group, and a nozzle is installed in the environmental test chamber. After receiving the start signal, the valve is opened to spray CO2 into the chamber.
- 2. The water fire extinguishing system consists of manual valves, electric valves, open water nozzles, Y-type filters, pipelines, etc. The water supply of the system needs to be provided by the user. The water fire extinguishing start is manually started. After the CO2 is sprayed, the fire continues to burn and the water fire extinguishing system is manually started. The water fire extinguishing system is stopped manually. Press the stop button and the fire extinguishing system stops spraying water.

7. Fire components









Fire fighting system:

- 1. Fire extinguishing controller (built-in independent power supply);
- 2. Detection system (suction sampling device, smoke detection, patch temperature detector, 8-way temperature controller)
- 3. Water spray manual ball valve switch, solenoid valve;
- 4. CO2 extinguisher

7. Fire components













Water spray nozzle: The fine water mist nozzle makes the water go through a strong rotating motion in the vortex type, and instantly converts into fine water mist and sprays it to the battery under high pressure. Wide range and low water consumption.

Carbon dioxide trachea joint: When the battery cannot extinguish the fire under water mist, carbon dioxide is introduced at this time, and the carbon dioxide can exclude air and surround the surface of the burning object, reducing the oxygen concentration in the combustible space. suffocate fire

7. Fire components



Audible alarm



Y-type filter



SMD temperature sensor



Electric button



Round head valve main unit

8.Smoke exhaust element



Blower



Smoke Detector



Electric valve



Exhaust hose

Smoke exhaust system:

- 1. When the experimental sample spontaneously ignites, a large amount of harmful gas and smoke will be produced. After the smoke detector is detected, the solenoid valve is automatically opened, and the blower is started to extract the smoke and harmful gases from the cabin and discharge them to the waste gas for filtration and purification.
- 2. After the smoke in the cabin is exhausted, the solenoid valve is automatically closed and the blower is stopped to prevent a large amount of external humid air from entering the test chamber.
- 3. The smoke exhaust system can be directly controlled by the switch on the control panel, or other equipment can give a control signal to control the opening and closing of the exhaust fan.



Water tank (custom made)



Waste water filter

9. Water system



Humidifier



Hydration water box



Ball guide rail



Automatic refill cup



Supply pump



Waterway solenoid valve

9. Electronic components









Flame retardant wire

Overload protector (Schneider)

Temperature sensor (Switzerland/Finland)

Solid State Relay (Carlo gavazzi)









Contactor (Schneider)

No fuse switch (Schneider)

Gas switch

PLC controller (Mitsubishi)

10.Refrigeration components



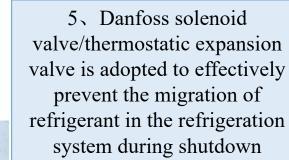
1"Tecumseh/Bitzer、
Bock" Full/semi-hermetic lownoise piston compressor with
reliable and stable performance



4. store refrigerant and reduce condenser load



3.Customized comdensor with Mar fan



Liquid storage tank

Brefet On Control of C

2. Emerson's high-efficiency oil separator is used to separate the lubricating oil in the high-pressure steam discharged from the refrigeration compressor to ensure the safe and efficient operation of the refrigeration system.



6. Hexnovo brand



Plate heat exchanger

1.2 Product Standard Introduction

- 一个周期(见图 1)持续 720 min (12 h),由下面的温度 空气湿度的曲线构成:
- 60 min, 升温相位,
- 温度为+80℃,相对湿度为80%.
- 240 min, 保持时间
 - 温度为+80℃,相对湿度为 80%
- 120 min, 降温相位, 在一40℃处, 当达到冻点附近约 30%空气湿度时, 从 T<0℃ 起保持空气湿度不变, 即不再调节温度, (由于设备条件的限
 - 制,从 T<10℃开始,湿度调节失效是允许的).
- 240 min, 保持时间, 在-4060 min, 升温相位, 在+23
- 在-40℃左右, 保持空气温度不变, 不调节温度 在+23℃处,约在 T=0℃时, 相对湿度调到 30%.

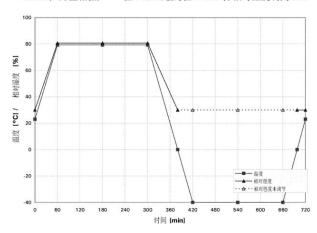


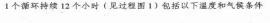
图 1. PV 1200 试验周期

PV1200 standard, at -40°C, the relative humidity is <30%RH, the technical point is that the humidity is not controlled below 0°C, and the relative humidity is maintained at <30%RH

The temperature humidity test chamber for interior parts meets the environmental test requirements for auto parts and materials in mainstream car companies and industry standards as follows (selected):

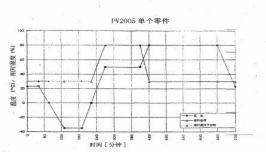
PV2005, PV1200

PR303, PR308

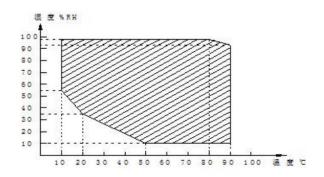


- 40 分钟	保持时间	+23℃,30%相对湿度
- 90 分钟	冷却过程	从423 到-35℃,30%相对湿度
- 60 分钟	保持时间	-35℃,最大相对湿度30%
- 80 分钟	加热过程	升温到+50℃,80%相对湿度
- 120 分钟	保持时间	+50℃,80%相对湿度
- 30 分钟	加热过程	升至+80℃,30%相对湿度
- 240 分钟	保持时间	+80℃,30%相对湿度
- 60 分钟	冷却过程	至+23℃,30%相对湿度

在升温过程-升至+80℃,30%相对湿度,空气中的实际含水量不得超过 95g/m³进行汽车内饰件试验时,在任何时间都不能出现露水。

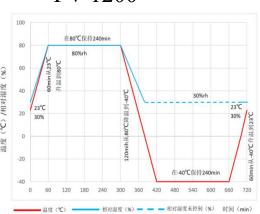


PV2005, at -40°C, the relative humidity is <30%RH, the technical point is that the humidity is not controlled below 0°C, and the relative humidity is maintained at <30%RH, and the temperature rises linearly from -40°C and control the humidity from 0°C.

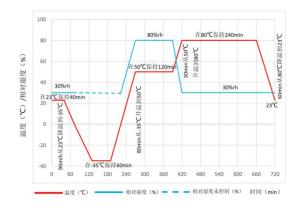


1.2 Product Standard Introduction

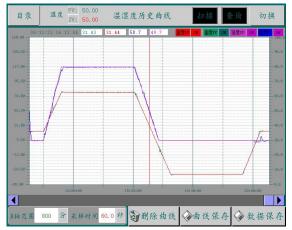
PV 1200



PV 2005

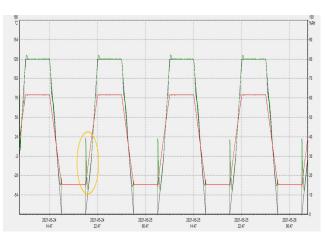


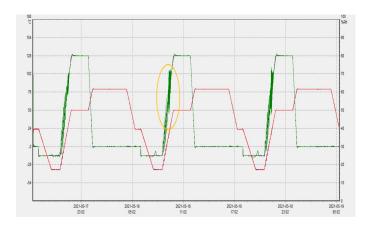
Simplewell curve



680 分采样时间 60.0 秒 分删除曲线 ◆曲线保存 ◆ 数据保存

Peer curve





2. Features

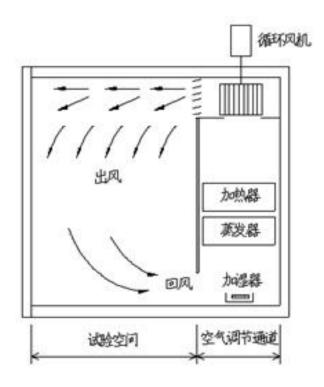
Content

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- 2.2.Evaporator return pipe
- 2.3.Base air inlet
- 2.4. Hidden drawer water tank
- 2.5.Process advantage
- 2.6. Simulated road condition vibration test
- 2.7. Confirmation of each process
- 2.8. Wire Flame Retardant Certificate

Production

description

2.1 Air circulation system

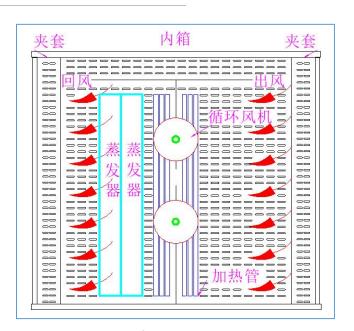


Applicable models: ESTH/LSTH/ENTH/LNTH/Bench-top

working principle:

1. Adopt the method shown in the figure to transfer heat to ensure the temperature uniformity of the test space. The centrifugal fan placed on the top of the air conditioning channel is the power source of air circulation. The air enters the channel from the bottom of the regulating channel, passes through the humidifier, standard evaporator and heater for heat exchange, is stirred and blown out by the centrifugal wind wheel, then passes through the split air outlet evaporator, and enters the inner cabin.

2.1 Air circulation system



left and right ventilation

When the battery is placed vertically, the left and right air ducts of the box are opened, and the upper and lower air ducts are closed at this time to peform the test

Up and down ventilation

When the battery is placed horizontally, the upper and lower air ducts of the box are opened, and the left and right air ducts are closed at this time to conduct the test.

Applicable models: Battery temperature test chamber

1. Adopt the method shown in the figure to

Working principle:

transfer heat to ensure the temperature uniformity of the test space. The centrifugal fan placed on the top of the air conditioning channel is the power source of air circulation. The air enters the channel from the bottom of the regulating channel, passes through the humidifier, standard evaporator and heater for heat exchange, is stirred and blown out by the centrifugal wind wheel, then passes through the split air outlet evaporator, and enters the inner cabin. 2. When the left and right circulation is performed, the wind blows out from the left mesh and returns to the air-conditioning room through the right mesh. At this time, the upper and lower air ducts are closed. 3. When the up and down circulation is carried out, the wind blows out from the rear side mesh and returns to the air conditioning room through the front side mesh. At this time, the left and right air ducts are closed

2.2 Evaporator return pipe



The evaporator adds return pipe to save energy. Sealing boards are added around to reduce gas loss and improve cooling efficiency.

2.3 Base air inlet





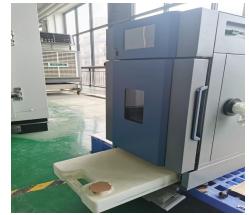
The air inlet structure of the base, the mesh can ensure the air volume required by the condenser, can play a shockproof role and can also prevent mice from entering the base and eating wires

2.4 Hidden drawer water tank









The bottom is a revolving door with a built-in drawer-type water tank. When water needs to be added, unplug the water tank or unscrew the water cover to add water without lifting the water tank separately

2.5 Process advantage

1. Pipeline welding process: high-quality copper tube nitrogen shielded welding method is adopted, which avoids the damage to the compressor caused by the oxide impurities on the inner wall of the copper tube entering the refrigeration system caused by the traditional welding method.



3. Pipeline protection measures: The pipeline of the refrigeration system adopts the method of adding anti-vibration hose and C-shaped elbow to avoid copper pipes and cracks caused by vibration and temperature changes.



5. When the equipment is running, detect the circuit temperature of the power distribution cabinet.

2. Damping measures: Install damping springs and anti-vibration soft rubber pads at the bottom of the compressor and pipeline to reduce vibration.





4. Noise control: The condenser adopts the German Marl low-speed high-air volume condensing fan, and installs wave-shaped sound-absorbing sponge around the refrigeration unit to achieve lower noise.



2.6 Simulated road condition vibration test

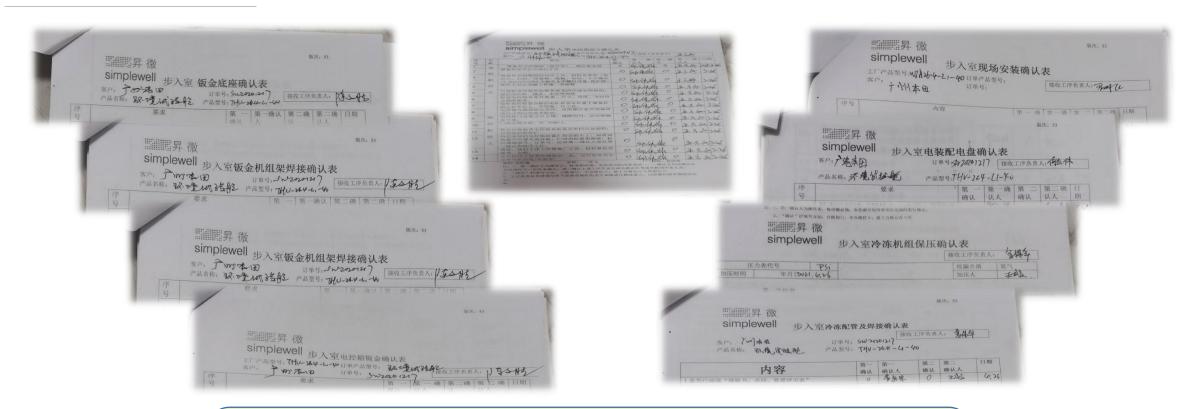


Parts such as evaporators are subjected to vibration tests before installation



Vibration test for small equipment before shipment

2.7 Confirmation of each process



The environment chamber is strictly controlled in every step of detail confirmation from sheet metal cutting, bending, welding, electric control wiring, freezing assembly, assembly, debugging, and quality inspection. Correct the problems in the production process in time, trace the source at the same time, optimize the production process, improve production efficiency and ensure the quality of each equipment produced

2.8 Wire Flame Retardant Certificate









Adopt flame retardant wires, the picture shows the wire flame retardant certification

Energy saving

The refrigeration system of related equipment (R404 and R23) adopts electronic expansion valve energy-saving control, and the temperature is stabilized by automatically adjusting the valve opening through software. The heater does not work during the stable process of low temperature (below 0° C), and the compressor consumes less with the cooling flow. The power is correspondingly reduced to achieve the purpose of energy saving. The energy-saving control effect of related equipment has passed the China CQC energy-saving product certification.



Energy Conservation Certification Report

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试验结果及判定		

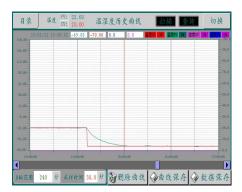
序号	检验项目	技术要求	型号	实测值
1	125℃耗电量 (kW•h/h)	按照委托方技术要求进行检测。	NTH (AYH,ST) -420- (20~ 70)	0. 785
2	25℃耗电量 (kW•h/h)	按照委托方技术要求进行检测。	NTH (AYH,ST) -420- (20~ 70)	1.818
3	-25℃耗电量 (kW•h/h)	按照委托方技术要求进行检测。	NTH (AYH,ST) -420- (20~ 70)	1. 303

Energy saving test results and judgment

Just set the temperature (humidity) conditions, the automatic control function can reach the set value with the maximum power before reaching the set value, and maintain the operation with the minimum power after reaching the set value. It can respond quickly to the opening and closing of the door and the change of heating load during the test to maintain a stable test environment







Running screen

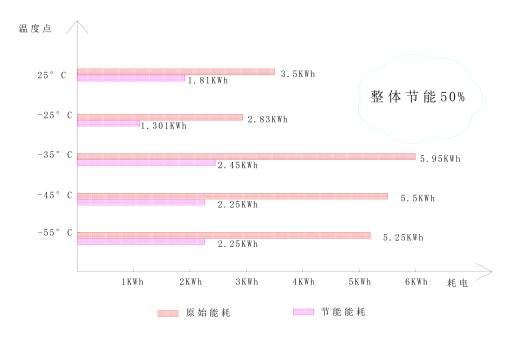
Temperature:

The refrigeration system can control the output refrigeration capacity with high precision to achieve high performance and greatly save electricity consumption; in the stable normal temperature and low temperature range, the energy saving can reach more than 50% compared with the traditional mode

\mathbf{S}	STH408-70 Comparison of Electricity Consumption of Cascade				
Refrigeration Units					
Serial number	Temperature point	unit turned on	Old model power consumption	New model power consumption	
1	25°C	R404A	3.5kWh	1.81kWh	
2	-25°C	R404A	2.83kWh	1.303kWh	
3	-35°C	R404A+R23	5.95kWh	2.45kWh	
4	-45°C	R404A+R23	5.5kWh	2.25kWh	
5	-55°C	R404A+R23	5.25kWh	2.25kWh	

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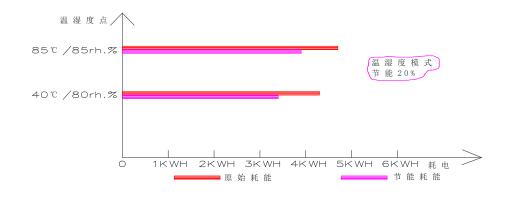


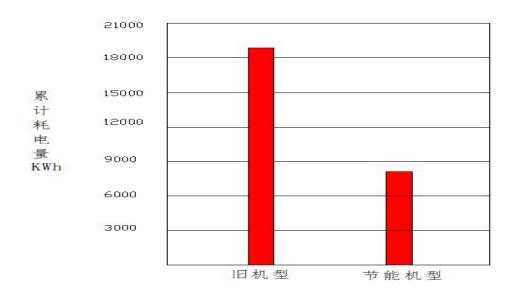
Temperature and humidity:

accordingly to achieve the purpose of energy saving

Adopt traditional control method at low humidity and high humidity extreme (Because the humidification output itself is small at the low humidity limit, and the heating tube output is small at the high humidity limit) When the temperature and humidity are in other ranges, the evaporation pressure of the evaporator is adjusted according to the dew point corresponding to the set value to control the stability of the humidity, so that the output power of heating and humidification becomes smaller. The power becomes smaller

	STH408-70 Comparison of Electricity Consumption			
Serial	Temperature	Humidity	Old model power	New model power
number	point	point	consumption	consumption
1	85℃	85rh%	4.7kWh	3.9kWh
2	45℃	80rh%	4.3kWh	3.4kWh





Device:ESTH408-70

Control temperature at -55°C without load

Environment condition: 25°C 50%RH

Annual power consumption:

300 days*12*power consumption

4 .Customer case

















Simplewell昇微

Thanks for watching

Simplewell Technology Co., Ltd



Team



Cooperation



Persistence



Honor



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