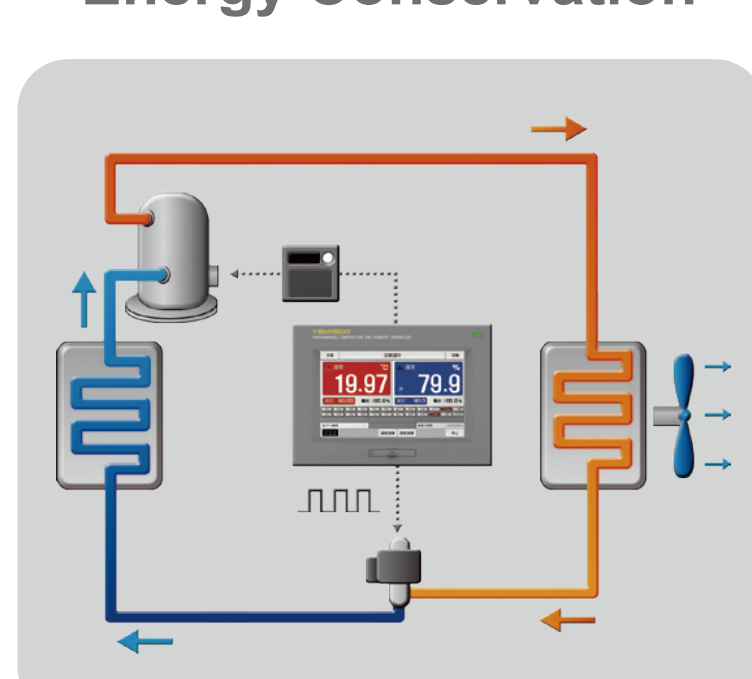


Xeno Lamp Weathering Chamber



Energy Conservation



Remote network system



Circuit System



Xeno Lamp Weathering Chamber



Application

- Xenon lamp aging
- Solar radiation test

Functions

- Features
- GE CPU controller
- Water cut switch
- Light irradiance sensor
- Circulating cooling water pump

special function

- Convenient water supply**
The pull-out bucket at the lower end of the main body is removable, free to move and convenient to replenish water.
- Dry ball - wet ball sensor**
A highly reliable control method of wet and dry balls is adopted to obtain precise test results and long-term experiments.
- Long arc water-cooled xenon lamp**
The quartz tube imported by GE Company of America has high light efficiency and long life (more than 1000 hours).
- Light irradiance sensor**
Japan Hamamatsu light sensor, with high sensitivity and high reliability from visible light to near infrared band.

Control system



SAMWON Form Korea

- With color touch screen 7 inch.
- With a 4G SD card for storing data.
- Communication port: RS232, RS485 and Ethernet.
- Minimum display resolution: temperature is 0.01C, humidity is 0.01%.
- Several language option : English, Korean, Russian, Chinese, and Japanese.

Based on smart phone monitoring APP of SIMS server S/W communication (Apple, SAMSONG) SIMS server (PC Program) and Network App which can be visited by most smart phones are based on product control module of smart phone (iphone)

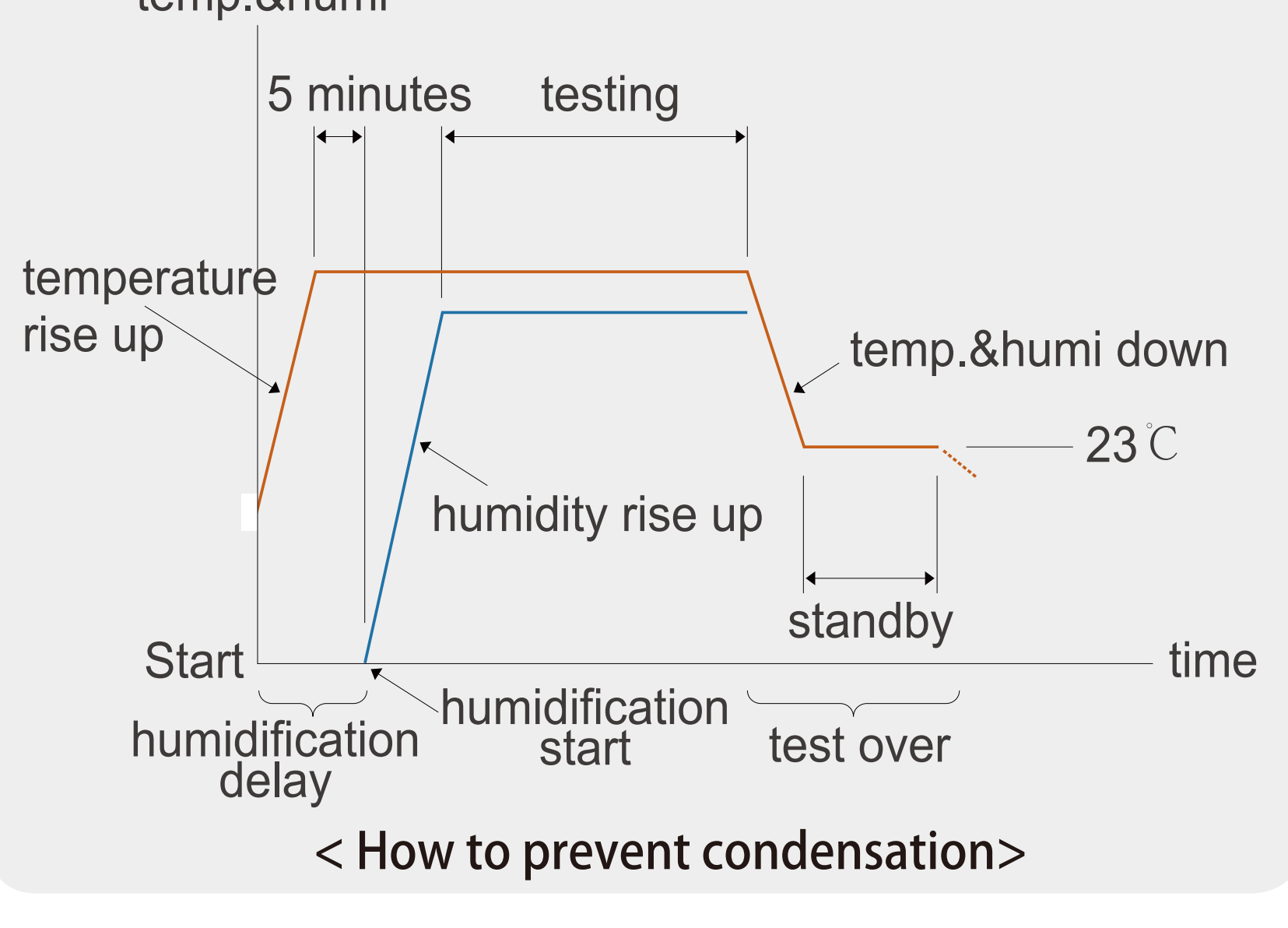
Remote network system



Energy Conservation

Guarantee the sample with no condensation

The chamber has a function to prevent the condensation when the temperature and humidity rise up or have some error, to prevent damage to the sample.



Cut off overheating, overcurrent

By cutting off the overheating and over-current to protect the safety of the machine and the user.

Controller

we used the controller TEMI 2500 form company Sanwontech, imported from South Korea.

Service port

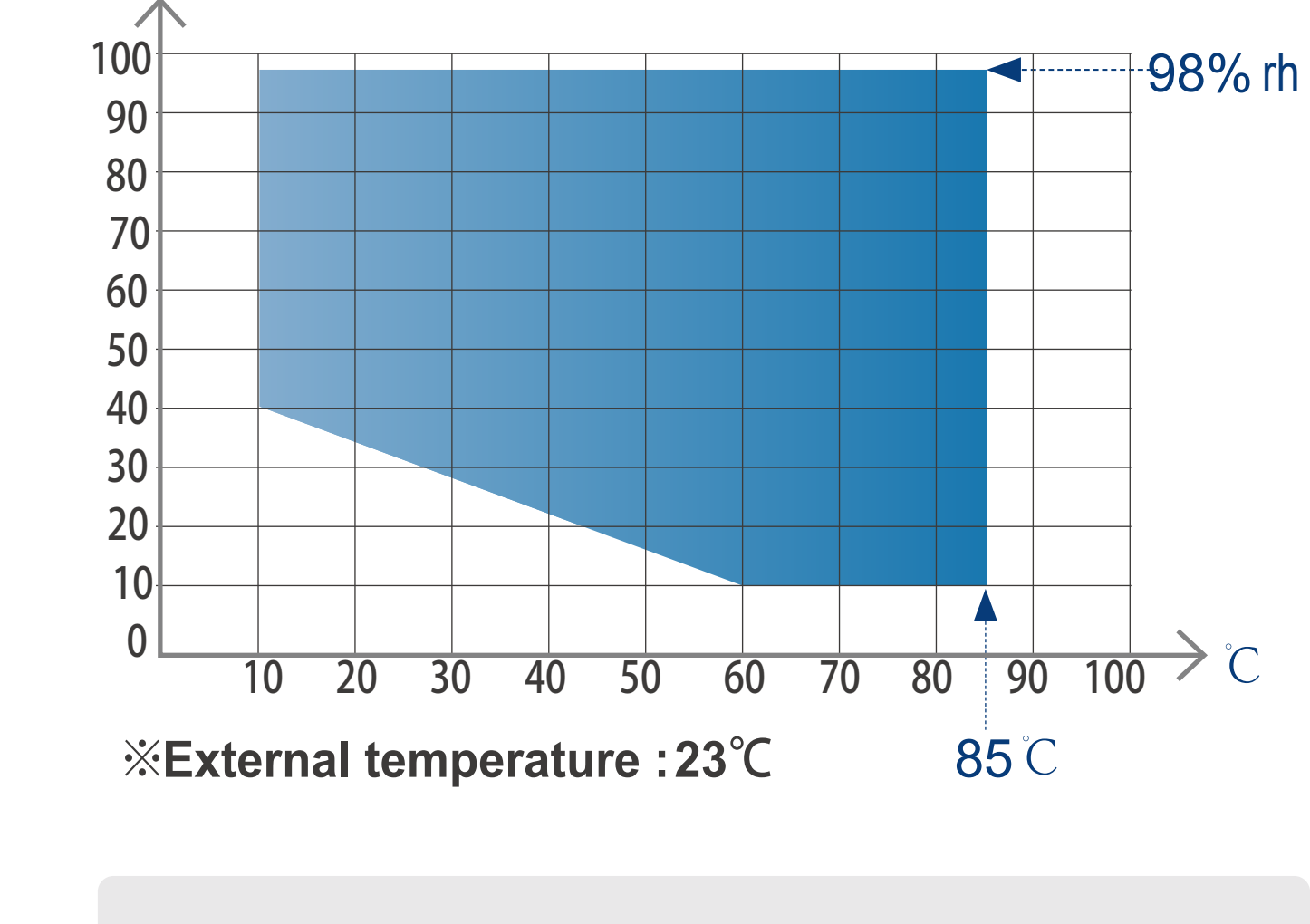
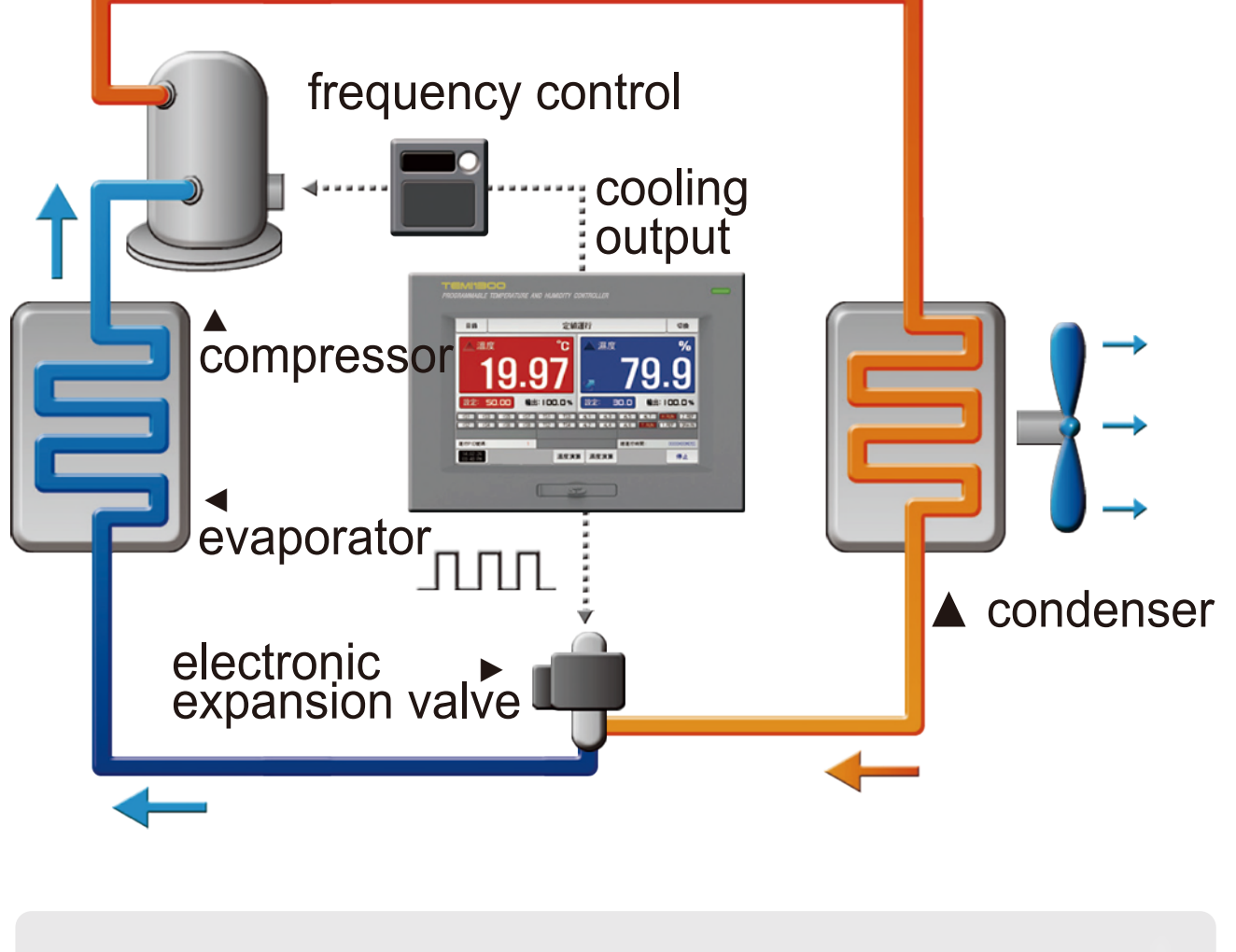
Communication and operation, alarm, time signal are provided by relay contact.

Low power consumption

Install the power outlet on the side of the chamber for customer power test.

Energy Conservation

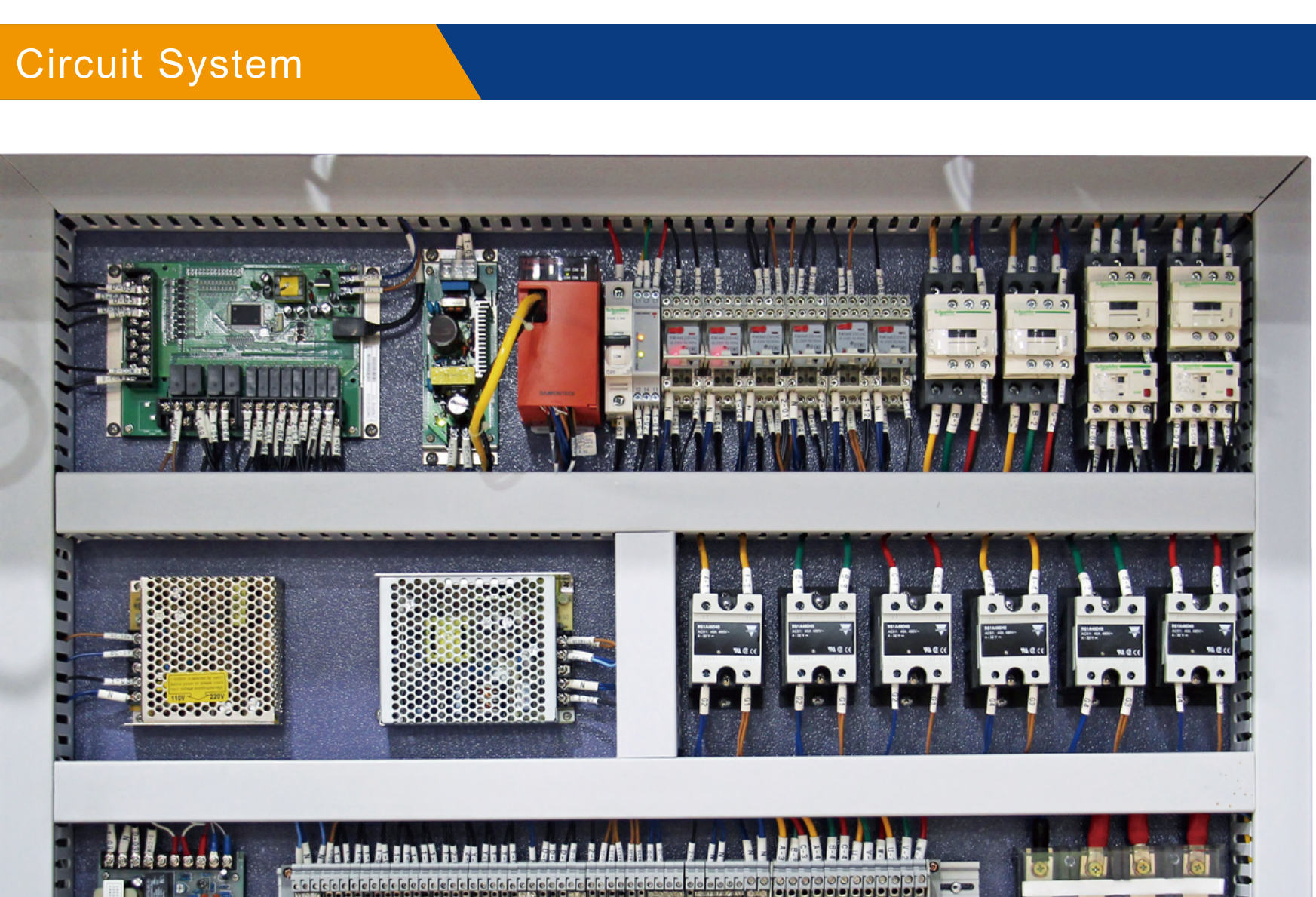
Temperature· Humidity Range Of Control



Through the controller output signal, control the frequency converter and electronic expansion valve, accurately adjust the refrigerant flow, in order to achieve energy saving effect, and the cooling system will more stable. (Frequency control is optional)

Can support the humidity from 20% to 98% in the temperature range of +10 to 85, to maximize the simulation of the atmospheric environment, can design a variety of tests.

Circuit System

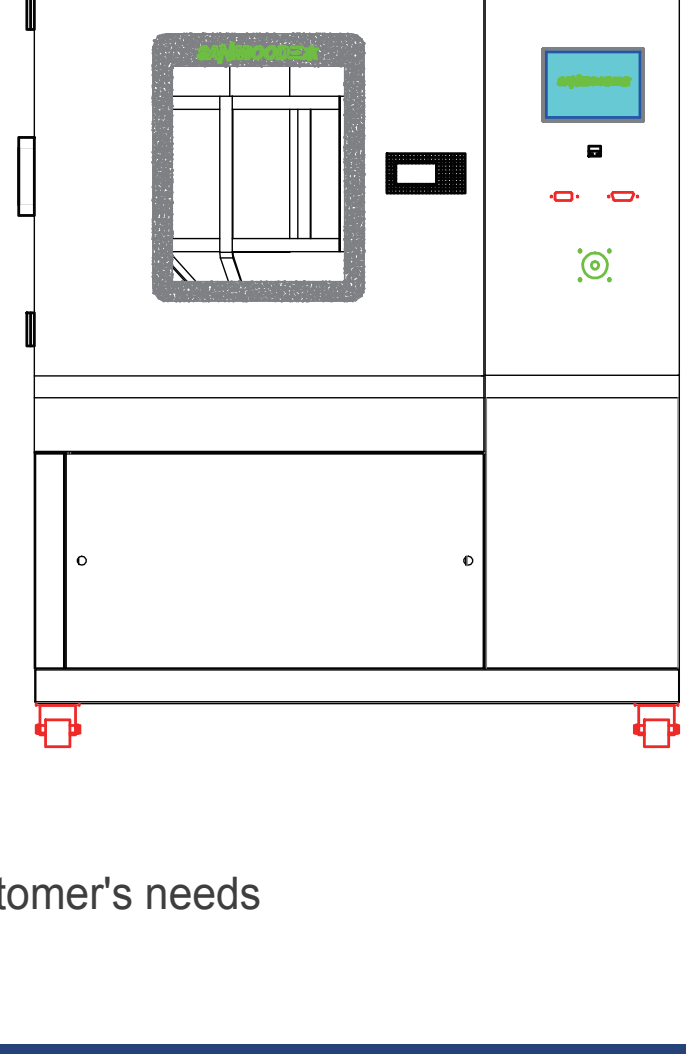
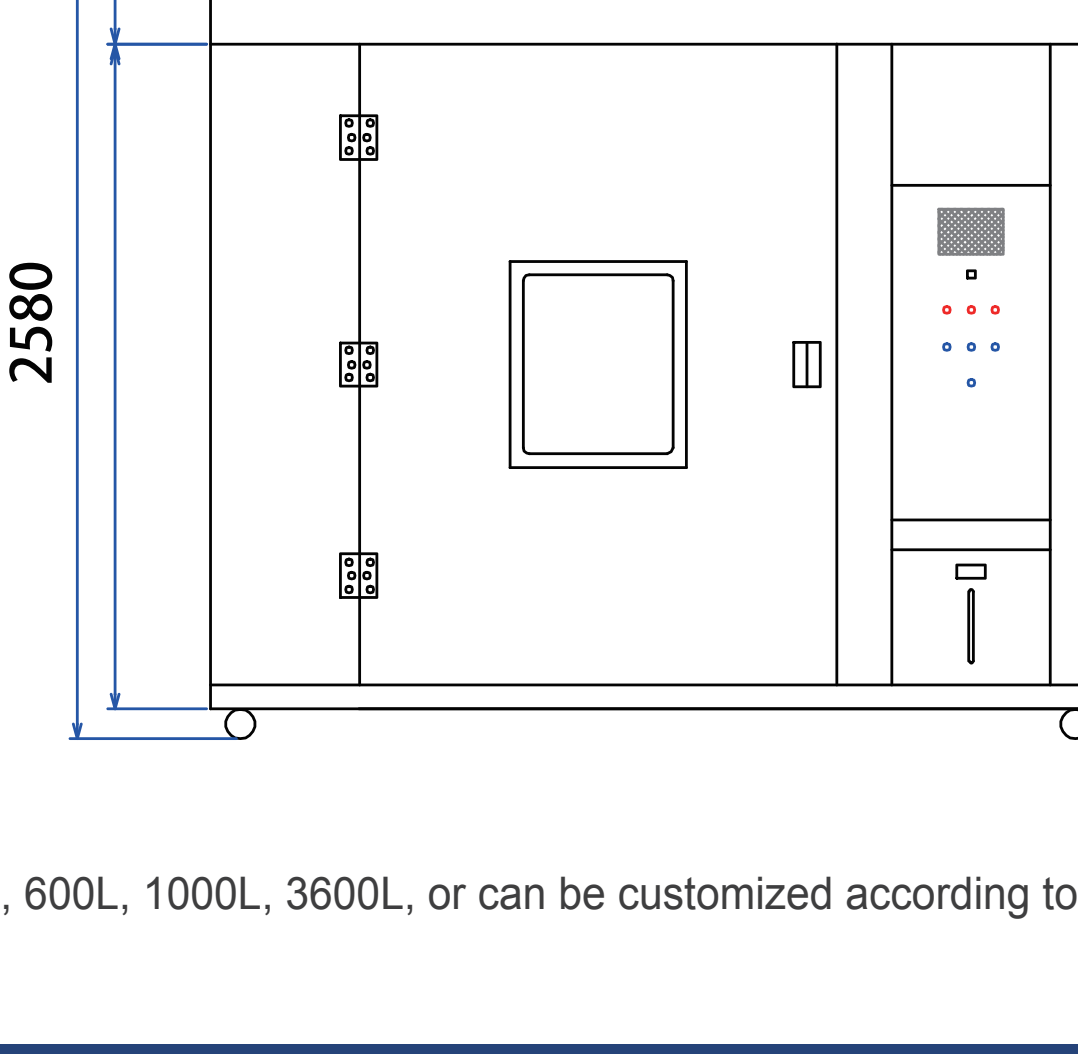
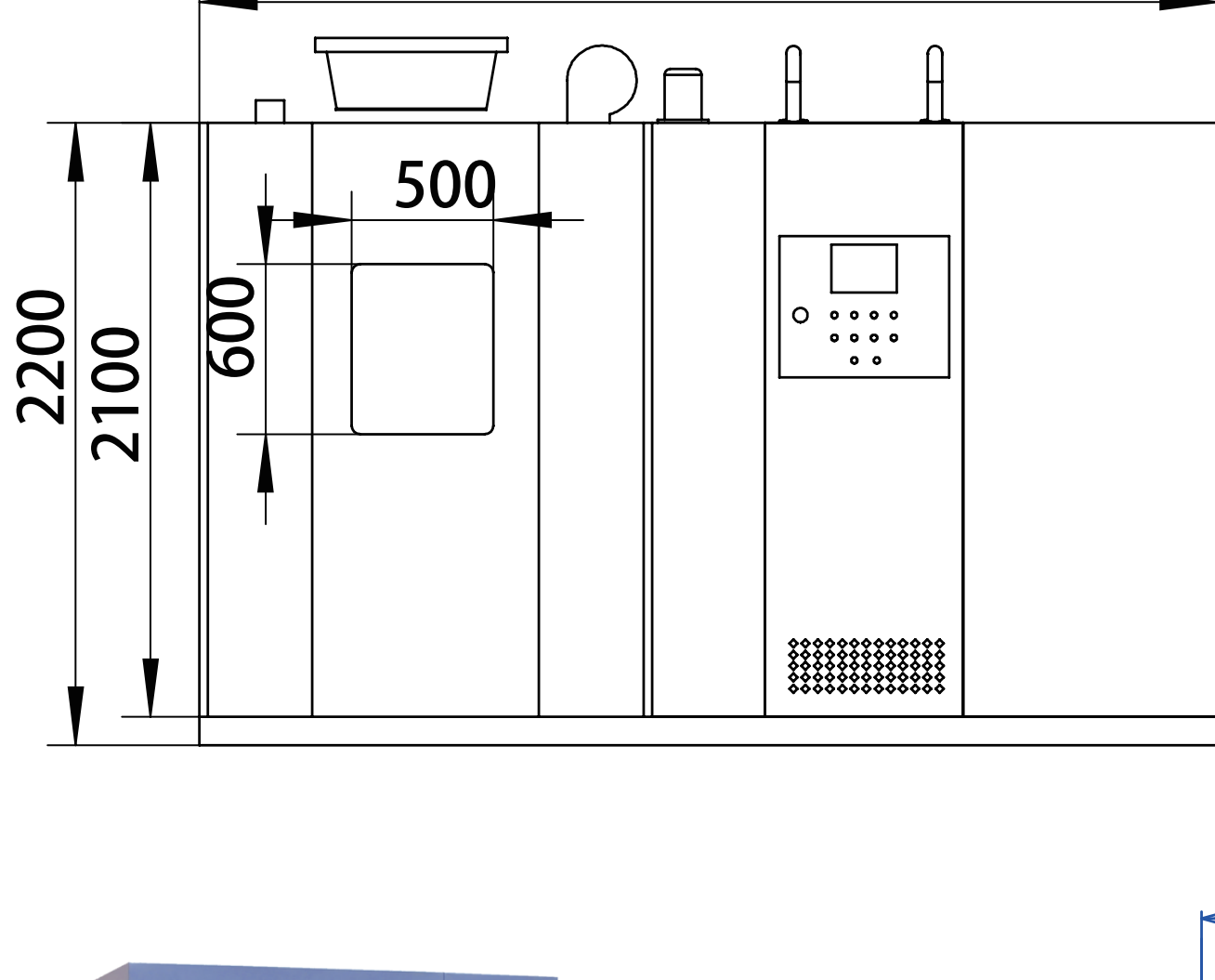


U K International Standard

Our circuit system wiring according to international standard, the layout and color of wires are complied with the international standard, and all equipped with line number to facilitate maintenance.

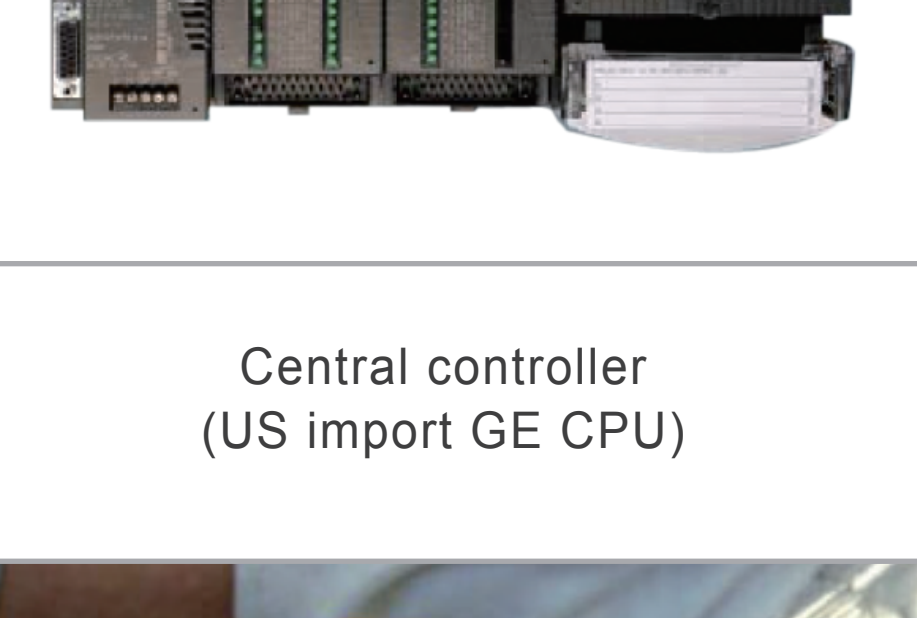


Customizable size of inner box



Customers can choose the following dimensions: 400L, 600L, 1000L, 3600L, or can be customized according to customer's needs

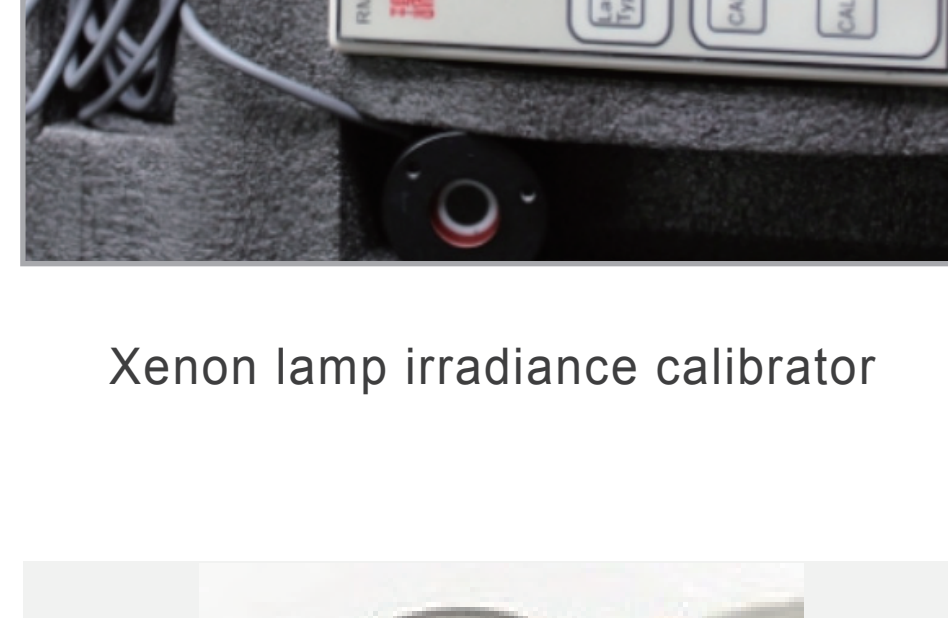
Technical features and main parts



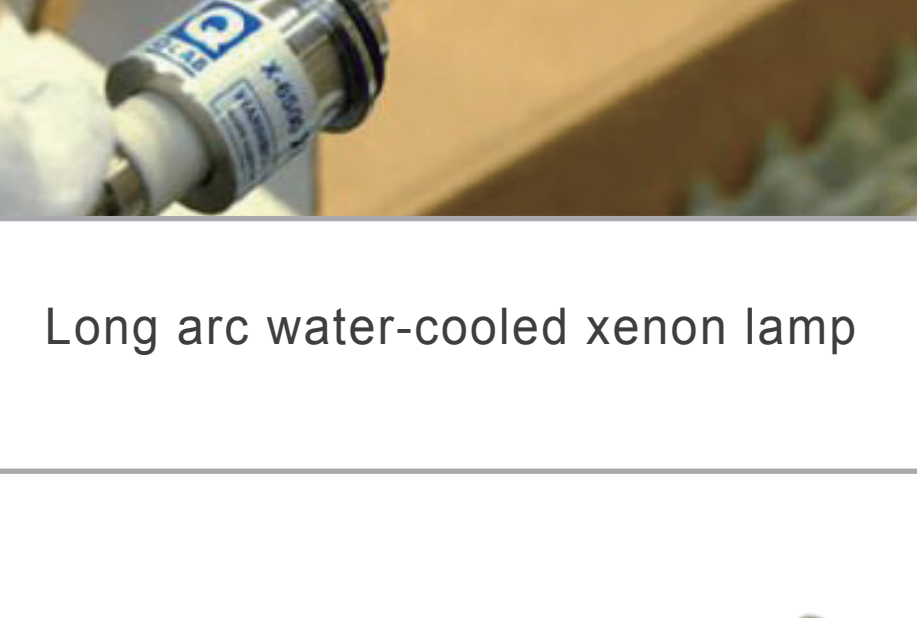
Central controller (US import GE CPU)



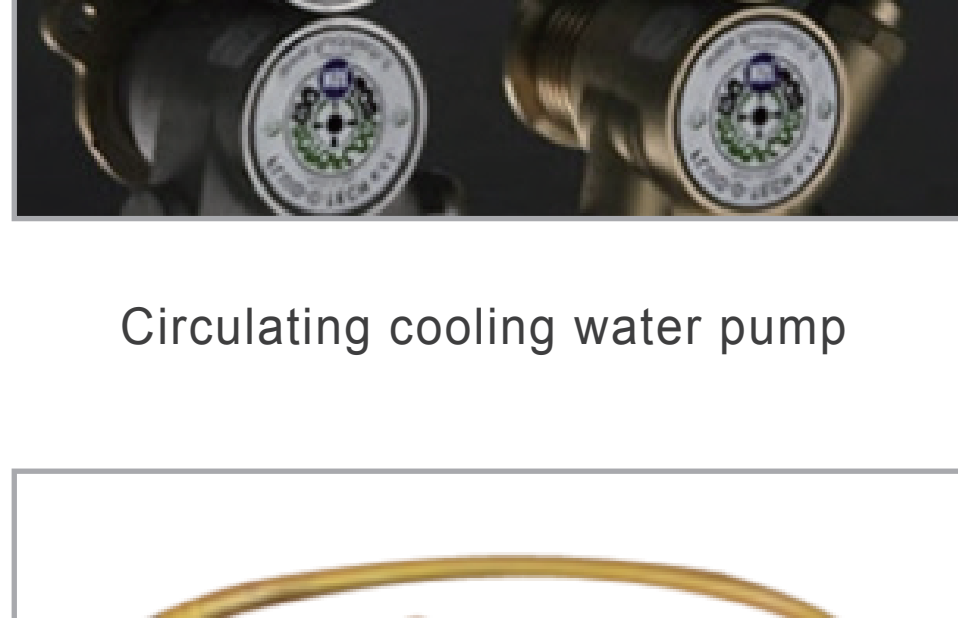
Water cut switch



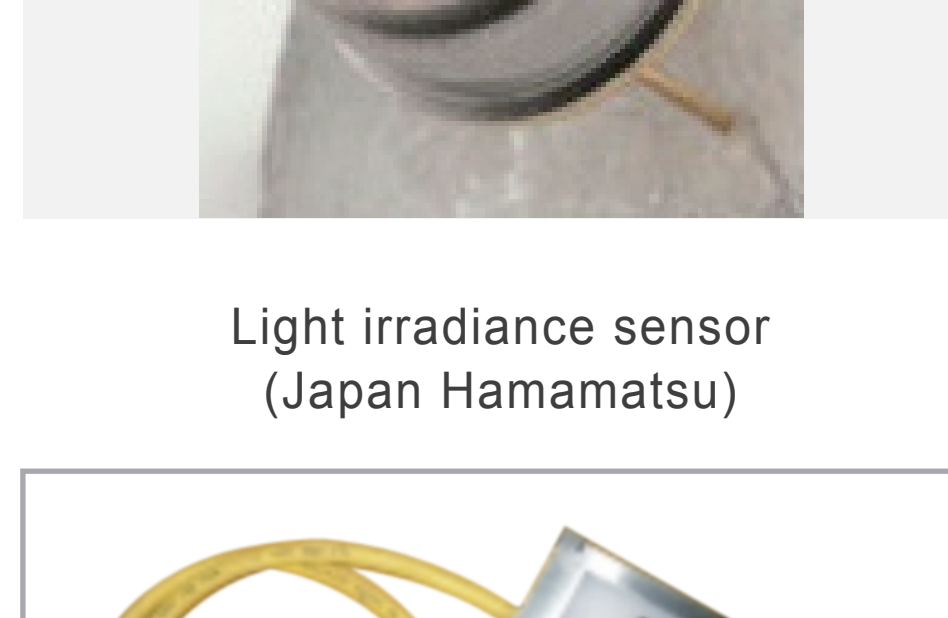
Xenon lamp irradiance calibrator



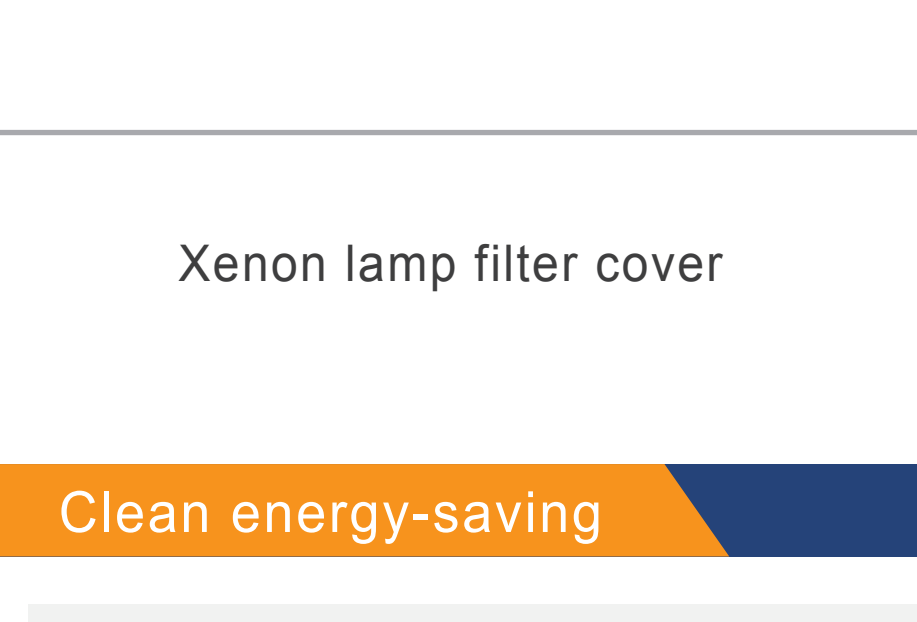
Long arc water-cooled xenon lamp



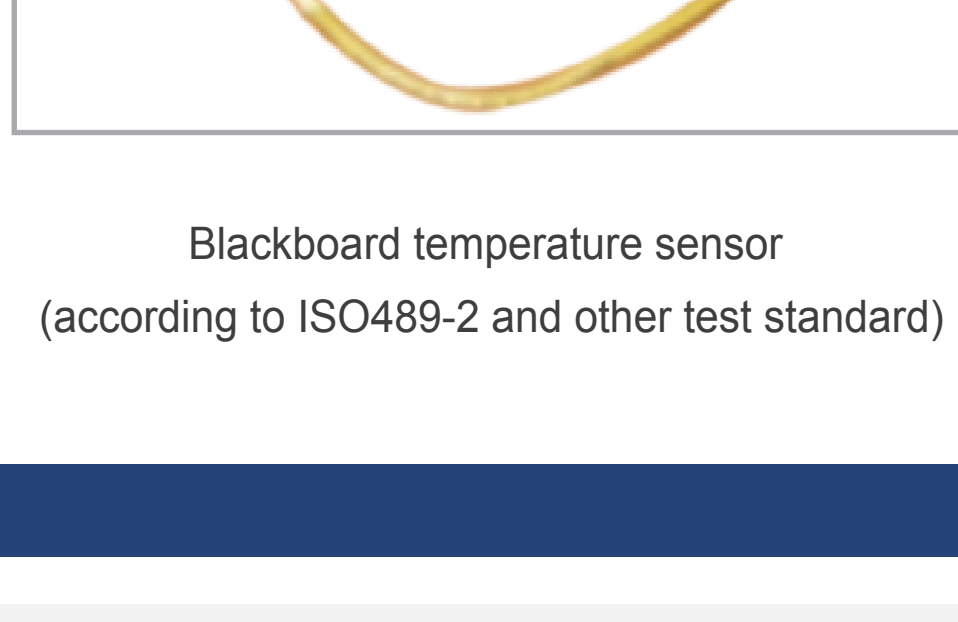
Circulating cooling water pump



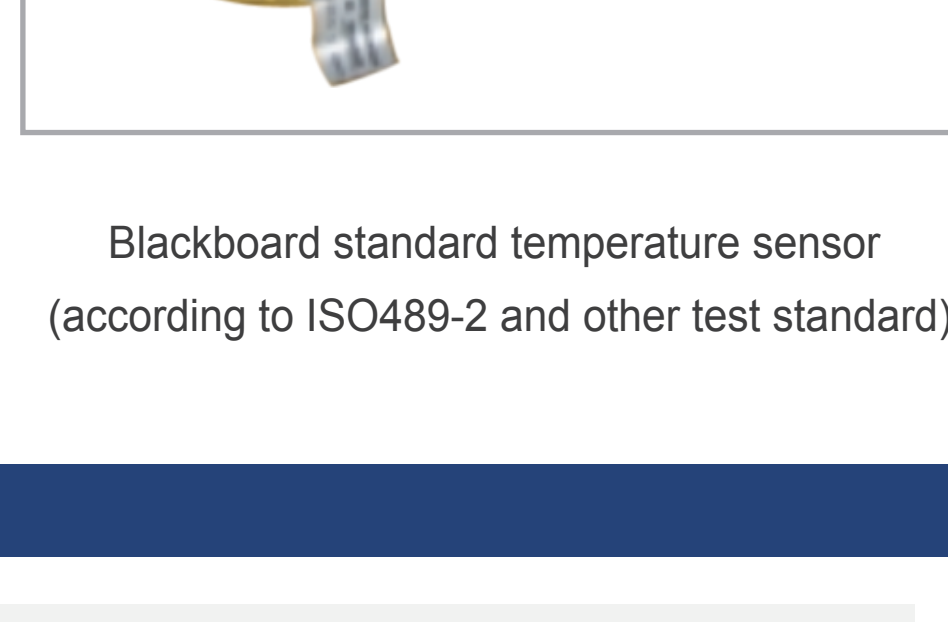
Light irradiance sensor (Japan Hamamatsu)



Xenon lamp filter cover



Blackboard temperature sensor (according to ISO489-2 and other test standard)



Blackboard standard temperature sensor (according to ISO489-2 and other test standard)

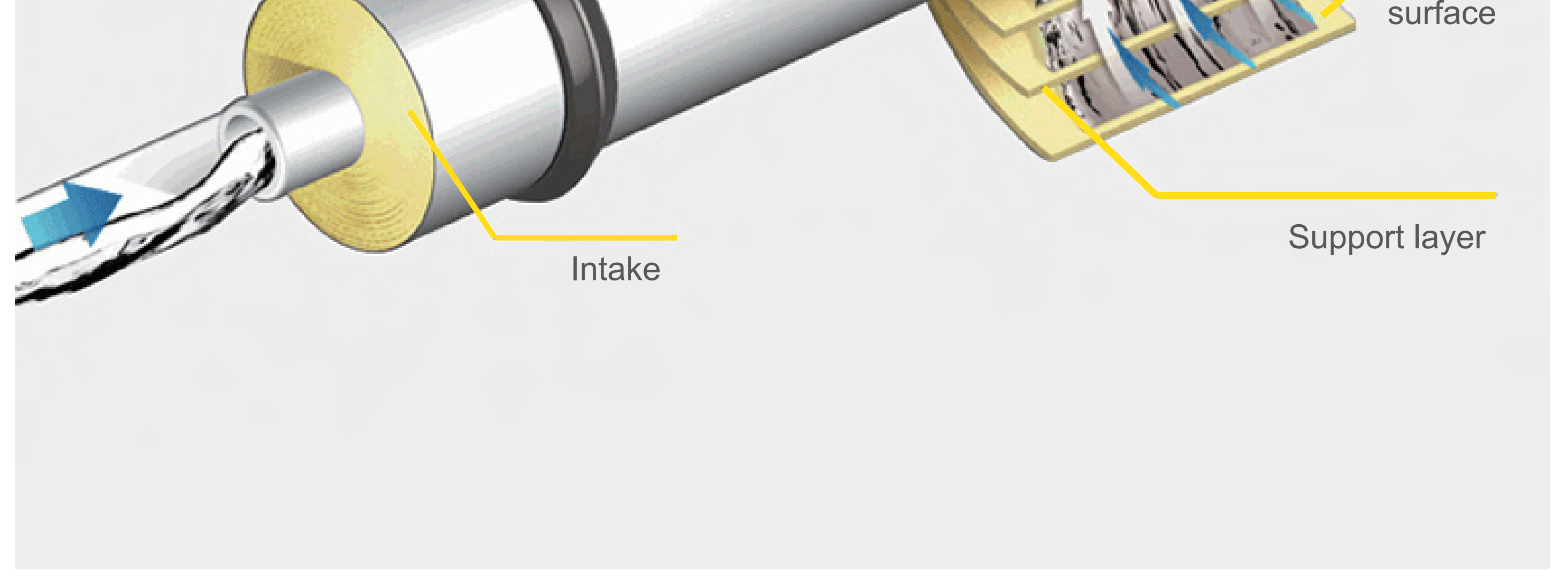
Clean energy-saving

5 levels purely physical filtration system

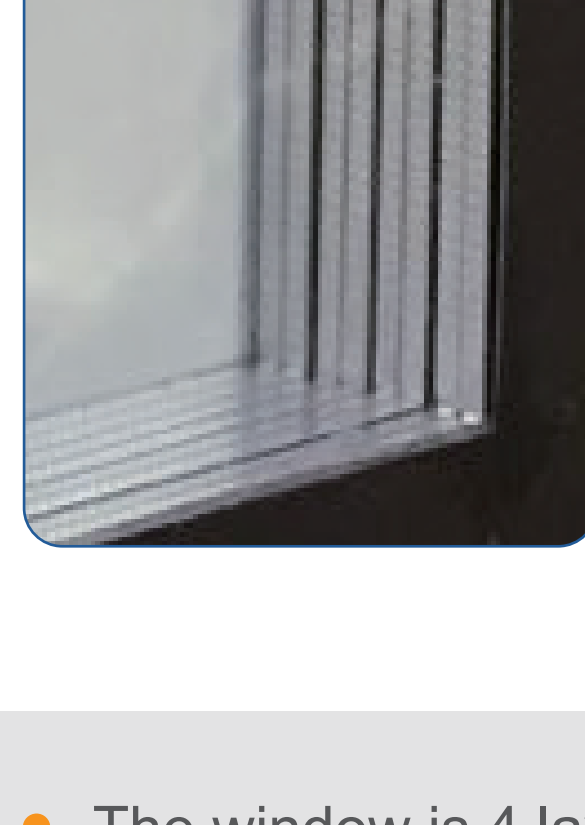
Effectively remove sediment, scale, bacteria, heavy metals



Principle diagram of filtration:



Observation window



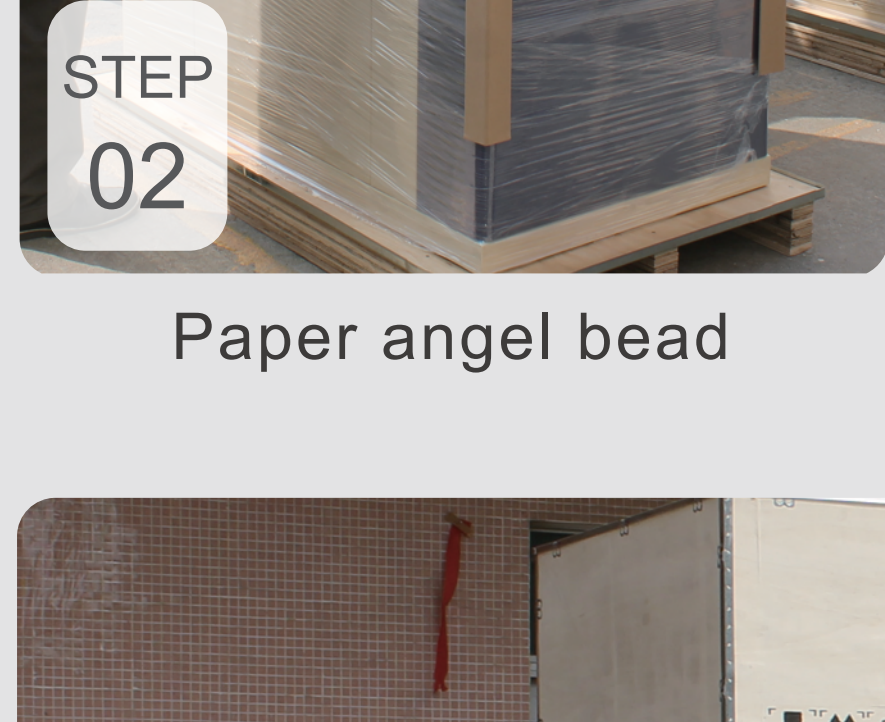
- The window is 4 layers of tempered glass
- You can customize the window size as you like
- Equipped LED lamp

Packaging process



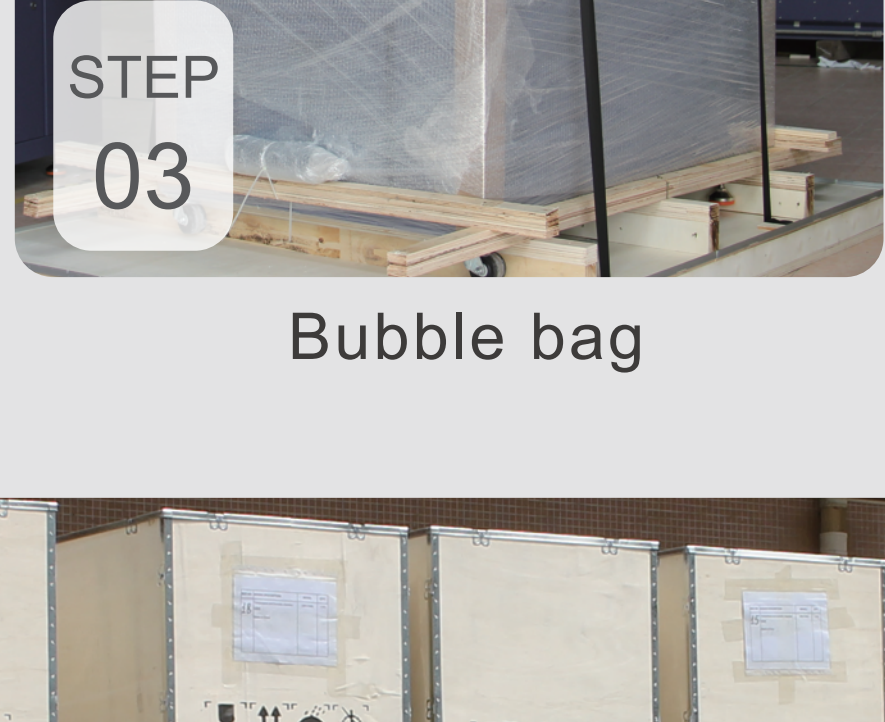
STEP 01

Environmental chamber have passed all the inspection and ready for packing



STEP 02

Paper angel bead



STEP 03

Bubble bag



STEP 04

Fixed wooden case



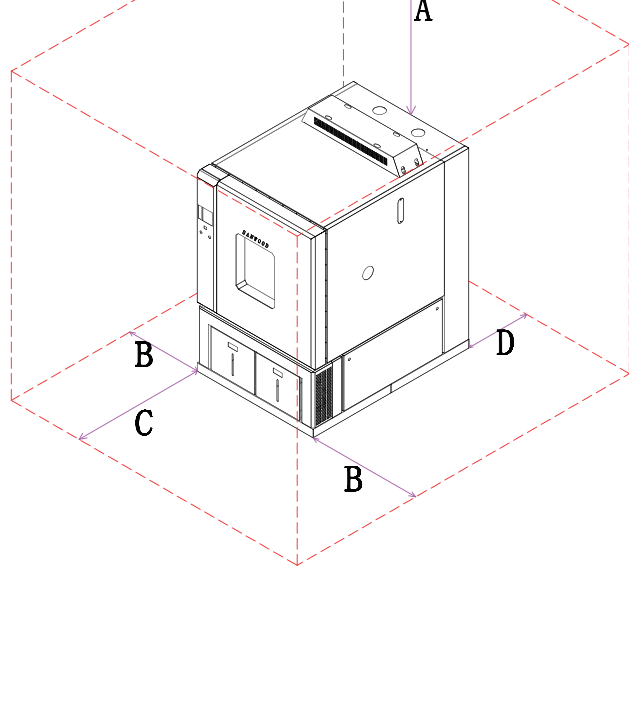
STEP 05

We packed with fumigation and wooden case to protect the goods from any damage

参数

Model	SM-XD-400-CA	SM-XD-600-CA	SM-XD-1000-CA	SM-XD-3600-CA	
Temperature	Temperature control range	-70.0℃~80.0℃ (A:25℃~80.0℃;B:-20℃~80.0℃; C:-40℃~80.0℃;D:-70℃~80.0℃)			
	Temperature fluctuation	±0.5℃			
	Cooling rate	80.0℃~70.0℃ Within 90mins (1.0~2.0℃/min)			
	Heating rate	-70.0℃~80.0℃ within 60mins (3.0~5.0℃/min)			
Humidity	Temperature uniformity	±2.0℃ (-40.0℃~80.0℃)			
	Humidity control range	20.0%RH~98.0%RH(without lighting, temp range: 20.0℃~70.0℃)			
	Humidity fluctuation	±2.0% RH			
Lighting	Humidity uniformity	±3.0%RH			
	Irradiance	(300~850nm) 550±10%W/m², (300~850nm) 1200±20%W/m²			
	Xenon lamp power	4.5KW、6kw(water-cooled all solar spectrum long arc xenon lamp)			
	Specimen rotation speed	1r/min			
Material / components	Distance between center of arc and samples	476~482mm			
	Internal material	Stainless steel(SUS304)			
	External material	Cold rolled steel sheet / powder spraying			
	Heat insulating material	100mm thickness poly urethane plate+10mm thickness mineral wool			
	Fan	Centrifugal blower			
	Compressor	France Tecumseh, Germany Bock, Germany Bitzer			
	Condenser	Air cooling, water cooling			
Refrigerant	R404A、R23、R508				
Size	Evaporator	Fin - and - Tube Heat Exchanger			
	Heater	Nickel chromium alloy heating wire			
	Humidifier	Steam humidifier			
	Inner size(mm) W*H*D	700*850*700	850*900*750	1000*1000*1000	1700*1800*1200
Operating ambient temperature	Outer size(mm) W*H*D	1350*1850*980	1500*1900*1050	1650*2100*1300	3600*2300*1600
	Volume (L)	400L	600L	1000L	3600L
	Power supply	+5 ~ 35℃			
Controller	380V AC 50/60Hz				
	South korea SAMWONTECH TEMI880 7.0 inch controller, equipped with RS232 port;				

Installation size



Region	Distance
A	≥30
B	≥50
C	≥70
D	≥90

Matters needing attention

- Protect the chamber from the direct sunlight, maintain good indoor ventilation.
- Don't place the chamber against the wall, keep the chambers from the wall more than 600mm. It will good for heat dissipation, otherwise will occurred error because of overheat.
- Install the chamber in a clean and tidy room, avoid using this chamber in extreme cold, heat, dust or humidity, keep the temperature in 10 to 30, and humidity in 70+10%.