

Stability Test Chamber



Pharmaceutical
Stability Test
Chamber





Active Pharmaceutical Ingredient (API)

Test Name	Test Conditions	Duration	Remarks
Influencing Factors Test	Above 10°C (e.g., 50°C, 60°C, etc.) 75% RH or higher (e.g., 90% RH, etc.)		
Photostability Test	Daylight Standard: (ISO10977)(1993) Total illuminance not less than 1.2×10^6 , Lux- hr near-ultraviolet energy not less than 200 w · hr/m ² . Wavelength Range: 320 ~ 400 nm (with Maximum Emission in 350 ~ 370 nm)		Test on Active Pharmaceutical Ingredient or on Formulation without Inner Packaging (if needed); Test on Formulation without Outer Packaging (if needed); Test on Marketed Packaged Formulation;
Accelerated Test	40°C±2°C/75%RH±5%RH Intermediate Conditions: 30°C±2°C/65% RH±5% RH 12 months Refrigerated Storage: 5°C±3°C (API); Accelerated Test Conditions: 25°C±2°C/60% RH±5% RH;	6 months	Impact on API Quality (e.g., Possible Situations During Transportation)
Long-term Test	25°C±2°C/60%RH±5%RH 30°C±2°C/65%RH±5%RH		

Formulation

Test Name	Test Conditions	Duration	Remarks
I. Formulations Packaged in Non-Permeable or Semi-Permeable Containers Water Loss Ratio			
Long-term Test Chamber	25°C±2°C/40% RH±5% RH or 30°C±2°C/35% RH±5% RH		New formulation: 12 months; Generic formulation: 6 months
Intermediate test	30°C±2°C/ 65%RH±5%RH	6 months	
Accelerated Test	40°C±2°C/25%RH±5%RH	6 months	
II. Refrigerated Preparations If refrigerated preparations are packaged in semi-permeable containers, they should also undergo low humidity testing under appropriate temperature conditions to assess water loss.			
Long-term Test	5°C±3°C	12 months	
Accelerated Test	25°C±2°C/60%RH±5%RH	6 months	
III. Frozen Storage Formulations Understand the impact of short-term deviations from the storage conditions specified in the instruction/label on the quality of the preparation.			
Long-term Test	-20°C±5°C	12 months	

Product Features



Temperature and Humidity Controller:

Original imported color touch screen controller, program-controlled with 5-inch or larger screen and three-level authorization password. Able to store temperature and humidity values for over 5 years.



Overtemperature Protection:

Equipped with double insurance dry-burn protection system. Equipped with an independent overtemperature protection system that automatically cuts off the power supply;



Humidity Sensor:

Imported VAISALA capacitive humidity sensor with direct measurement and maintenance-free operation;



Door Lock:

Equipped with a key lock to prevent unauthorized personnel from accessing the pharmaceuticals and affecting the test.



Refrigeration Compressor:

Original imported fully enclosed compressor for long service life and low noise;



Mobility:

Four casters, lockable.



Data Printing:

Capable of printing equipment model and serial number, as well as real-time temperature and humidity values and curves.



Visibility:

Observe the test samples through the inner glass door, minimizing changes to the experimental data.



On-site Alarm:

On-site temperature and humidity deviation with audible and visual alarm; Independent overtemperature alarm.



Validation:

Provide IQ/OQ/PQ validation scheme documents and execution services in compliance with international standards.



Remote Alarm:

Remote SMS alarm (including power outage alarm), multiple devices can share a single SIM card;

Drug Stability Test Chamber

- Compliant with ICH, FDA, and 2020 edition of national pharmacopeia requirements; manufacturing standards (technical specifications): Refer to JJF1101-2019.



Model	YP-SD150	YP-SD250	YP-SD500	YP-SD1000	YP-SD2000
Volume	150L	250L	500L	1000L	2000L
Approx. Installation Power	1500W	1800W	2200W	2800W	4000W
Approx. Operating Power	500W	600W	700W	1000W	1500W
Inner Chamber Dimensions (W*D*H)	600*405*620mm	600*500*830mm	800*700*900mm	1000*1000*1000mm	2050*750*1350mm
External dimensions (W*D*H)	825*800*1510mm	825*900*1720mm	1020*1100*1720mm	1225*1400*1840mm	2275*1200*1980mm
Temperature Control Range					0~65°C
Temperature Control Fluctuation					±0.5°C
Temperature Deviation					±2.0°C
Humidity Control Range					20~95%RH
Humidity Control Fluctuation					±3.0%RH
Humidity Deviation					±3.0%RH
Temperature and Humidity Control Method					Balanced Temperature and Humidity Control
Refrigeration Method					Direct Cooling High-Efficiency Refrigeration
Refrigeration Compressor					Imported Fully Enclosed Compressor
Cooler					Air-Cooled Cooler
Controller					Three-Level Password Authorization Touch Screen
Temperature Sensor					Platinum Resistance PT100
Humidity Sensor					Imported Electronic Humidity Sensor VAISALA/E+E
Power Supply					AC 220V 50Hz
Shelving Trays (Standard Configuration)					2 pcs.
Safety Devices					Compressor overload protection, humidification tube dry-burn protection, overtemperature protection, electrical short-circuit protection

Dimensions: (D×W×H) mm Operating Power: Measured result with one refrigeration unit operating at 25°C, 60% R.H.
Measured result: * Equipment operating conditions: Ambient temperature: 5~35°C; Ambient humidity: ≤85%R.H

Product parameters are subject to change without prior notice.

Comprehensive Pharmaceutical Stability Test Chamber

Compliant with ICH, FDA, and the 2020 edition of the National Pharmacopoeia requirements - Manufacturing Standards (Technical Specifications): Refer to JJF1101-2019



Model	YP-GSD150	YP-GSD250	YP-GSD500	YP-GSD1000	YP-GSD2000
Volume	150L	250L	500L	1000L	2000L
Approx. Installation Power	1500W	1800W	2200W	2800W	4000W
Approx. Operating Power	500W	600W	700W	1000W	1500W

Internal Dimension (W*D*H)	600*405*620mm	600*500*830mm	800*700*900mm	1000*1000*1000mm	2050*750*1350mm
External Dimension (W*D*H)	825*800*1510mm	825*900*1720mm	1020*1100*1720mm	1225*1400*1840mm	2275*1200*1980mm
Temperature Control Range					10~65°C
Temperature Control Fluctuation					±0.5°C
Temperature Deviation					± 2.0°C
Humidity Control Range					20 ~ 95%RH
Humidity Control Fluctuation					±3.0%RH
Humidity Deviation					±3.0%RH
Light Intensity					500 ~ 8000LUX
Illuminance Error					±500LUX
Ultraviolet Irradiance					0.8 ~ 5w/m ²
Ultraviolet Wavelength Range					320 ~ 400nm
Temperature and Humidity Control Method					Balanced Temperature and Humidity Control Method
Refrigeration Method					Direct Cooling High-Efficiency Refrigeration
Refrigeration Compressor					Imported Fully Enclosed Compressor
Cooler					Air-Cooled Cooler
Controller					Three-Level Password Authorization Touch Screen
Temperature Sensor					Platinum Resistance PT100
Humidity Sensor					Imported Electronic Humidity Sensor VAISALA/E+E
Power Supply					AC 220V 50Hz
Shelving Trays (Standard Configuration)					2 pcs.
Safety Devices					Compressor overload protection, humidification tube dry-burn protection, overtemperature protection, electrical short-circuit protection devices.

Dimensions: (D×W×H) mm Operating Power: Measured result with one refrigeration unit operating at 25°C, 60% R.H.
Measured result: * Equipment operating conditions: Ambient temperature: 5~35°C; Ambient humidity: ≤85%R.H

Drug Photostability Test Chamber

-In compliance with ICH, FDA, and relevant requirements of the 2020 edition of the national pharmacopoeia - Manufacturing Execution Standard (Technical Specification): Refer to JJF1101-2019.



Model	YP-GP150	YP-GP250	YP-GP500	YP-GP1000	YP-GP2000
Volume	150L	250L	500L	1000L	2000L
Approx. Installation Power	1500W	1800W	2200W	2800W	4000W
Approx. Operating Power	500W	600W	700W	1000W	1500W

Internal Dimension (W*D*H)	600*405*620mm	600*500*830mm	800*700*900mm	1000*1000*1000mm	2050*750*1350mm
External Dimension (W*D*H)	825*800*1510mm	825*900*1720mm	1020*1100*1720mm	1225*1400*1840mm	2275*1200*1980mm
Temperature Control Range					10~65°C
Temperature Control Fluctuation					±0.5°C
Temperature Deviation					± 2.0°C
Light Source					Near D65 Fluorescent Lamp and Ultraviolet
Light Intensity					500 ~ 8000LUX
Illuminance Error					±500LUX
Ultraviolet Irradiance					0.8~ 5w/m ²
Ultraviolet Wavelength Range					320 ~ 400nm
Temperature Control Method					Balanced Temperature Control Method
Refrigeration Method					Direct Cooling High-Efficiency Refrigeration
Refrigeration Compressor					Imported Fully Enclosed Compressor
Cooler					Air-Cooled Cooler
Controller					Three-Level Password Authorization Touch Screen
Temperature Sensor					Platinum Resistance PT100
Light Sensor					Directly sense light intensity
Power Supply					AC 220V 50Hz
Shelving Trays (Standard Configuration)					2 pcs.
Safety Devices					Compressor overload protection, overtemperature protection, electrical short-circuit protection

Dimensions: (D×W×H) mm Operating Power: Measured result with one refrigeration unit operating at 25°C, 60% R.H.
Measured result: * Equipment operating conditions: Ambient temperature: 5~35°C; Ambient humidity: ≤85%R.H

Multi-chamber Test Chamber

-Compliant with ICH, FDA, and the 2020 edition of the National Pharmacopoeia requirements - Manufacturing Standards (Technical Specifications): Refer to JJF1101-2019

Specifications	Two chambers	Two chambers	Three chambers
Model	YP-TSD150/YP-TGSD150	YP-TSD250/YP-TGSD250	YP-TGSD400/800
Volume	300L	500L	400L/800L
Approx. Installation Power	1800W	2000W	2000W/3000W
Approx. Operating Power	550W	550W	550W/750W
Inner Chamber Dimensions (W*D*H)	600*405*620mm	600*500*830mm	Right: 450*500*1000, Upper Left: 450*500*450; Lower Left: 450*450*450; Right: 600*600*1200; Upper Left: 600*600*600; Lower Left: 600*600*600
External Dimension (W*D*H)	1490*810*1510mm	1460*900*1720mm	1280*840*1940mm/1600*1000*1980mm
Note: TSD - No Light, TGSD - With Light			
Temperature Control Range	10 ~ 65°C		
Temperature Control Fluctuation	± 0.5°C		
Temperature Deviation	± 2°C		
Humidity Control Range	20 ~ 95%RH		
Humidity Control Fluctuation	± 3%RH		
Humidity Deviation	± 3%RH		
Light Intensity (Optional)	500 ~ 8000Lux		
Illuminance Error	±500Lux		
Ultraviolet Irradiance (Optional)	0.8 ~ 10w/m ²		
Ultraviolet Wavelength Range	320 ~ 400nm		
Temperature and Humidity Control Method	Balanced Temperature and Humidity Control Method		
Refrigeration Method	Direct Cooling High-Efficiency Refrigeration		
Refrigeration Compressor	Imported Fully Enclosed Compressor		
Cooler	Air-Cooled Cooler		
Controller	Touch Screen (Three-Level Password Access)		
Temperature Sensor	Platinum Resistance PT100		
Humidity Sensor	Imported Electronic Humidity Sensor VAISALA/E+E		
Power Supply	AC 220V 50Hz		
Shelving Trays (Standard Configuration)	2 pcs.		
Safety Devices	Compressor overload protection, humidification tube dry-burn protection, overtemperature protection, electrical short-circuit protection		

*Dimensions (D × W × H) mm; Operating Power: Measured result with one refrigeration unit on at 25°C, 60% RH; Equipment Operating Conditions: Ambient Temperature: 5~35°C, Ambient Humidity: ≤85% RH

Pharmaceutical Low Temperature Test Chamber (-20°C)

-Compliant with ICH, FDA, and the 2020 edition of the National Pharmacopoeia requirements - Manufacturing Standards (Technical Specifications): Refer to JJF1101-2019



Model	HZ-250D	HZ-500D	HZ-1000D	HZ-2000D
Volume	250L	500L	1000L	2000L
Approx. Installation Power	1050W	1250W	1250W	1650W
Approx. Operating Power	500W	700W	700W	900W
Inner Chamber Dimensions (W*D*H)	600*500*830mm	800*700*900mm	1000*1000*1000mm	2050*750*1350mm
External dimensions (W*D*H)	825*900*1720mm	1020*1100*1720mm	1225*1400*1840mm	2275*1200*1980mm
Temperature Control Range	-25~80°C			
Temperature Control Fluctuation	± 0.5°C			
Temperature Deviation	± 1.0°C			
Temperature Control Method	Balanced Temperature Control Method			
Refrigeration Method	Direct Cooling High-Efficiency Refrigeration			
Refrigeration Compressor	Imported Fully Enclosed Compressor			
Cooler	Air-Cooled Cooler			
Controller	Touch Screen Controller			
Temperature Sensor	Platinum Resistance PT100			
Power Supply	AC 220V 50Hz			
Shelving Trays (Standard Configuration)	2 pcs.			
Safety Devices	Compressor overload protection, overtemperature protection, electrical short-circuit protection			

*Dimensions (D × W × H) mm; Operating Power: Measured result with one refrigeration unit on at 25°C, 60% RH; Equipment Operating Conditions: Ambient Temperature: 5~35°C, Ambient Humidity: ≤85% RH

Pharmaceutical Low Temperature Storage Chamber Pharmaceutical Low Temperature Refrigeration Chamber (2~8°C)

- Compliant with ICH, FDA, and relevant requirements of the 2020 edition of the National Pharmacopoeia: Refer to JF1101-2019.



- Compliant with ICH, FDA, and 2020 edition of national pharmacopoeia requirements; manufacturing standards (technical specifications): Refer to JF1101-2019. 0

Walk-in Constant Temperature and Humidity Test Chamber

The walk-in pharmaceutical stability test chamber creates a stable temperature and humidity environment over an extended period for evaluating the shelf-life of pharmaceutical batches. It is suitable for accelerated and long-term testing of pharmaceuticals and new drugs, making it an ideal solution for large-scale drug storage and stability testing in pharmaceutical companies. A key feature of this chamber is its custom sizing, tailored to the user's specific site requirements. Compared to standard pharmaceutical stability chambers, it maximizes the use of laboratory space and meets the requirements for large-scale sample retention under identical test conditions. The larger the customized capacity, the more significant the savings in procurement costs.

Model	SZ-250	SZ-500	SZ-1000	SZ-2000
Volume	250L	500L	1000L	2000L
Approx. Installation Power	1050W	1250W	1250W	1650W
Approx. Operating Power	500W	700W	700W	900W
Inner Chamber Dimensions (W*D*H)	600*500*830mm	800*700*900mm	1000*1000*1000mm	2050*750*1350mm
External dimensions (W*D*H)	825*900*1720mm	1020*1100*1720mm	1225*1400*1840mm	2275*1200*1980mm
Temperature Control Range				2~8°C
Temperature Control Fluctuation				±0.5°C
Temperature Deviation				±1.0°C
Temperature Control Method				Balanced Temperature Control Method
Refrigeration Method				Direct Cooling High-Efficiency Refrigeration
Refrigeration Compressor				Imported Fully Enclosed Compressor
Cooler				Air-Cooled Cooler
Controller				Touch Screen Controller
Temperature Sensor				Platinum Resistance PT100
Power Supply				AC 220V 50Hz
Shelving Trays (Standard Configuration)				2 pcs.
Safety Devices				Compressor overload protection, overtemperature protection, electrical short-circuit protection

*Dimensions (D × W × H) mm; Operating Power: Measured result with one refrigeration unit on at 25°C, 60% RH; Equipment Operating Conditions: Ambient Temperature: 5~35°C, Ambient Humidity: ≤85% RH

Model	YP-SD***
Temperature Range	0 ~ 65°C
Temperature Fluctuation	±0.5°C
Temperature Deviation	±2°C
Humidity Range	20 ~ 95% RH
Humidity Deviation	±3% RH
Power Supply	380/220V/50Hz
Inner Chamber Dimensions	Customized as per requirements
External Dimensions	Customized as per requirements

Triple Data Recording

- Micro Printer Paper Record: Adjustable printing cycle frequency;
- Paperless Recording: Internal controller stores 64M of cyclic data, exportable via built-in SD card, including settings, measurements, date, real-time data. Data collection frequency is adjustable; at a frequency of 1 minute, data storage capacity is up to 10 years;
- Real-time computer data recording
- One computer can connect simultaneously to multiple devices of the same series, up to 30 controllers;
- Remote debugging and monitoring can be achieved using the internet and Sims software

Accessories

- Touch Screen Controller
- Original Imported Electronic Humidity Sensor
- Original Imported Pt100 Temperature Sensor
- Imported Low-Power Heat-Resistant Refrigeration Compressor
- Environmentally Friendly Fluorine-Free Refrigerant
- External Automatic Circulation Water Supply System
- Micro Printer
- Mobile SMS Alarm System

Energy-Saving, Quiet, and Intelligent

- Low Energy Consumption Design: Lower operating costs.
- Quiet Design: Ultra-low operating noise
- Touch Screen Display: Intuitive, precise, and easy to operate

Safety Protection

- Independent Chamber Over-Temperature Protection
- Water Supply Cut-Off Protection for Humidification System
- Refrigeration Compressor Overload Protection
- Electrical Short-Circuit Protection

Mobile SMS Alarm System

- Power failure and temperature/humidity deviation alerts via SMS
- One phone can manage up to 15 devices

After-Sales Service

- One-year warranty from the date of acceptance, lifetime maintenance.
- Provide IQ/OQ/PQ validation scheme documents and execution services in compliance with international standards.