

2024-01



**Labonce®**  
Stability Chambers



BEIJING LABONCE THERMOSTATIC TECHNOLOGY CO., LTD.



## Company Profile

Beijing Labonce Thermostatic Technology Co., Ltd. is a high-tech enterprise integrating scientific research、 sales and service,founded in 2008, Located in Beijing Zhongguancun Life Science Park, has a branch in Jiangsu called Jiangsu Labonce Instrument Co., LTD.

Our company main business cover in Medicine Stability Chamber、 Walk-in Stability Chamber、 Photo-stability Chamber、 Constant Temperature&Humidity Chamber、 Drying Oven、 Incubator and Low Temperature Chamber and so on. The introduction of Germany advanced technology, adopt the original installation imported high quality parts, stable and reliable performance. As a marketing and service enterprise, our company attaches great importance to the construction of market channels, It provides products and services to more than 3000 enterprises and exports equipment to more than 50 countries such as the United States and the United Kingdom,and has established a close cooperative relationship of integrity, mutual benefit and win-win.We will do our best to provide high-quality products for our partners worry-free after-sales service system.The company has passed ISO9001:2015 quality system certification and CE certification.

The company with "first-class products, first-class service" dedicated to the majority of users. Customer satisfaction is our eternal pursuit !

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## Walk-in Stability Chamber(Constant Temperature&Humidity Chamber)

### I、Performance Index

- 1、Reference Standard: GB/T 10586-2006 Humid heat test chamber technical condition, JJF1101-2019 Environmental test equipment temperature, humidity parameters calibration specifications;
- 2、Temperature Range: 20 ~ 45°C, Temperature Fluctuation $\leq \pm 0.5^{\circ}\text{C}$ , Temperature Deviation $\leq \pm 1.0^{\circ}\text{C}$ ;
- 3、Humidity Range: 20 ~ 80%RH, Humidity Deviation $\leq \pm 3.0\%\text{RH}$ (Customizable Humidity Range: 40 ~ 80%RH);
- 4、Test Points Optional: 25°C/60%RH、30°C/65%RH(Low Humidity:40°C/25%RH、25°C/40%RH);
- 5、Low Temperature Laboratory: The cool storage can be customized $\leq 20^{\circ}\text{C}$  and 2 ~ 8°C cold storage.(Temperature Fluctuation $\leq \pm 1.0^{\circ}\text{C}$ , Temperature Deviation $\leq \pm 2.0^{\circ}\text{C}$ )

### II、Structural features:

- 1、Structure system: New air duct system design to ensure the uniformity of indoor temperature and humidity, the inner wall and air duct plate material is stainless steel 304, the bottom full of stainless, Steel 304 patterned anti-skid plate, with hollow tempered glass observation window, lighting, door heating;
- 2、Refrigeration System: Imported refrigeration compressor unit with backup system;
- 3、Control System: Programmable color touch screen controller, more than 7 inches, With three-level user rights, Audit tracking function;
- 4、Three Level Authority: Adopt the user name and password to log in. Different user names have different permissions at least three levels or above;
- 5、Audit tracking function: The control system is equipped with historical alarm records and operation records, so that users can clearly grasp the operating status of the equipment, and supports the export of the equipment in unchangeable file format using a USB stick;
- 6、Humidity control: Imported capacitive humidity sensor, high precision, low drift, long life, maintenance-free;
- 7、Data management : Equipped with a pin-type micro printer and electronic data storage;
- 8、Alarm system: On-site beeping alarm;
- 9、Safety device: The door is equipped with key safety lock and anti-reverse lock function 、 Internal emergency ring function to ensure the safety of users, With a variety of safety protection measures and fault alarm;
- 10、Daily monitoring: Configure at least two daily temperature and humidity monitoring points, according to the verification of the lowest and temperature, humidity;
- 11、Optional: Web server system for integrated data management of all devices and compliance with FDA 21CFR PART II regulations;
- 12、Optional: Temperature-humidity deviation, sudden power failure , control by Remote SMS alarm;
- 13、FC series equipped with frequency conversion compressor, energy saving more than 50%, in line with ICH and Chinese Pharmacopeia 2020 edition guidelines,see the technical scheme for details.



Model	Temperature Range (°C)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Remarks
Laboncel-8000GS-FC	20 ~ 45	20 ~ 80%	8000	1900×2200×2000	2050×3150×2250	5.0	Customizable Humidity : 40 ~ 80%RH
Laboncel-15000GS-FC	20 ~ 45	20 ~ 80%	15000	1900×4000×2000	2050×4950×2250	5.5	
Laboncel-20000GS-FC	20 ~ 45	20 ~ 80%	20000	2200×4100×2200	2400×4300×2400	6.0	
Laboncel-33000GS-FC	20 ~ 45	20 ~ 80%	33000	2950×5200×2200	3150×5400×2400	6.5	
Laboncel-40000GS-FC	20 ~ 45	20 ~ 80%	40000	3600×5200×2200	3800×5400×2400	7.5	
Laboncel-60000GS-FC	20 ~ 45	20 ~ 80%	60000	4400×6400×2200	4600×6600×2400	8.5	
Laboncel-80000GS-FC	20 ~ 45	20 ~ 80%	80000	5800×6400×2200	6000×6600×2400	10.5	

All indicators on this color page were measured at an ambient temperature of 20~25°C .



## Walk-in Stability Chamber--Exterior and interior



◆ 2000GS-8000GS

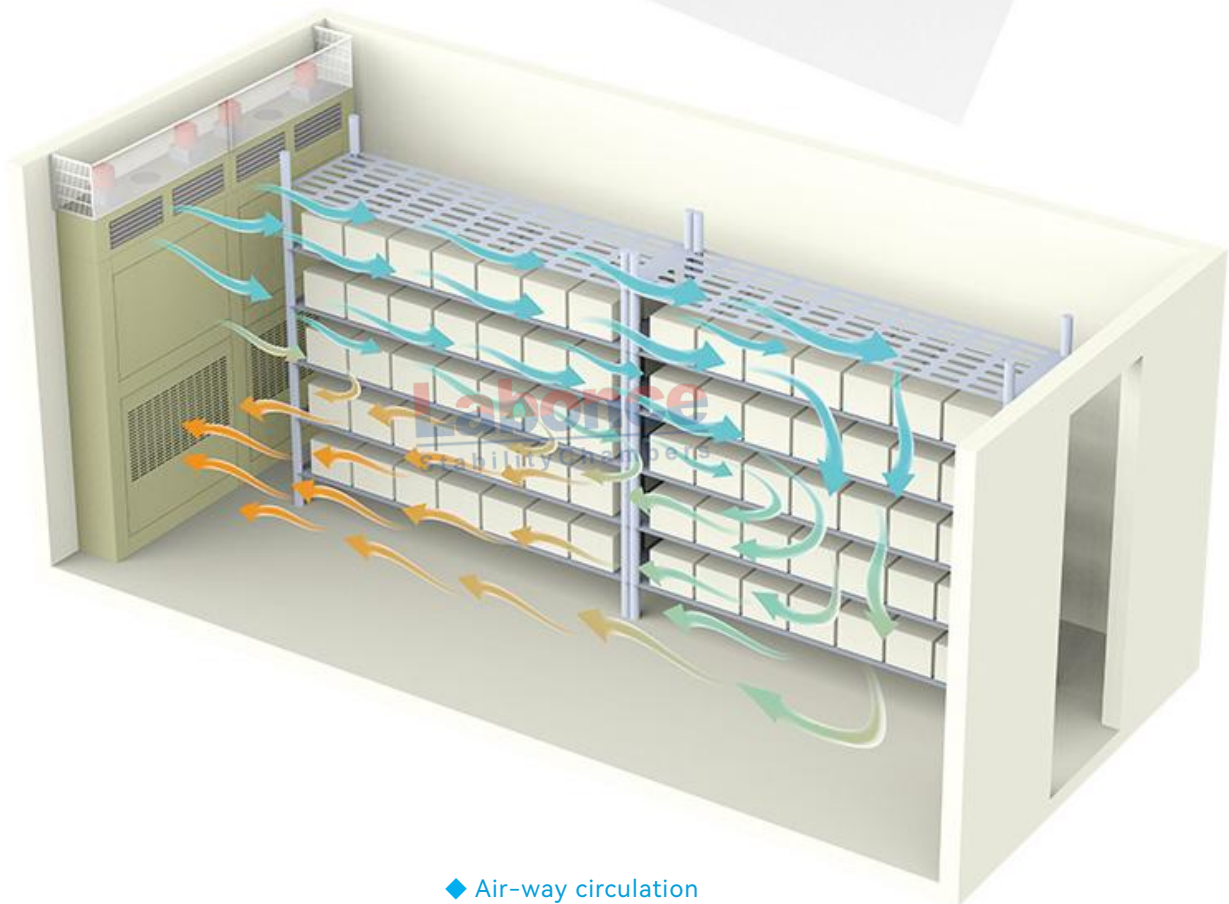
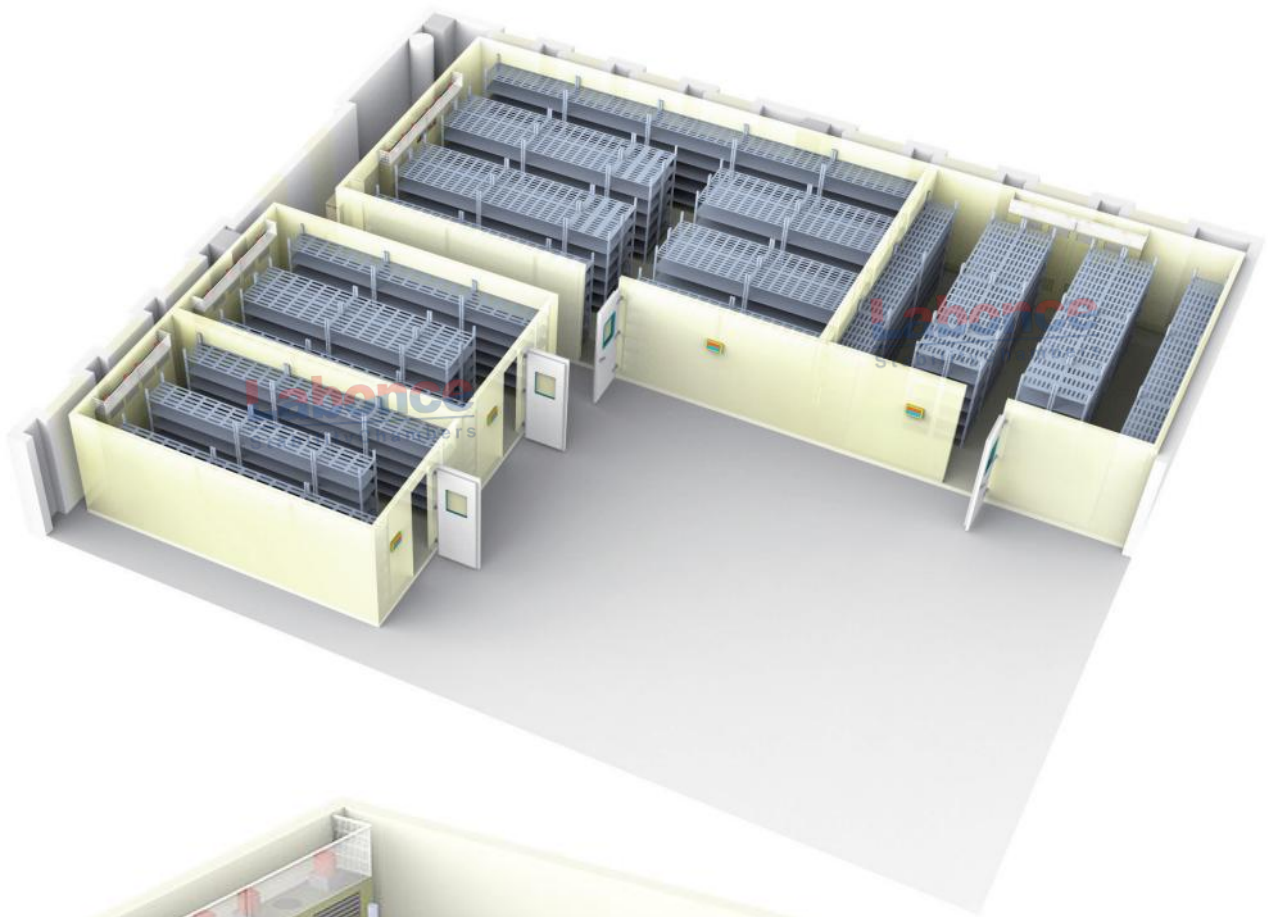


◆ 8000GS-15000GS



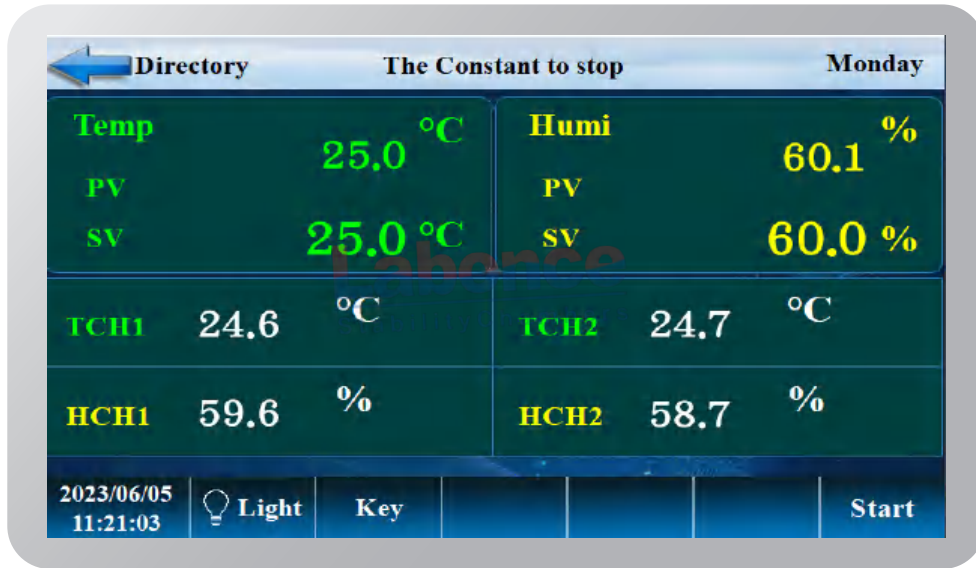
◆ Internal shelf

## Walk-in Stability Chamber-3D schematic diagram



◆ Air-way circulation

## Walk-in Stability Chamber-Monitoring System



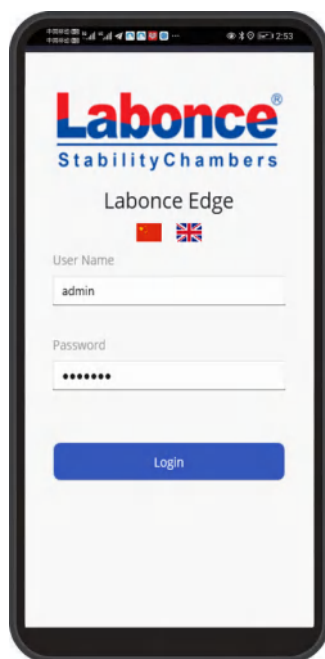
Three Level Authority



Audit trail



Alarm Record



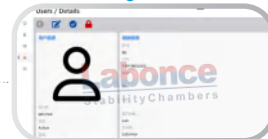
Equipment monitoring information



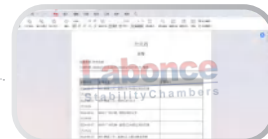
Temperature and humidity curve



E-Signature



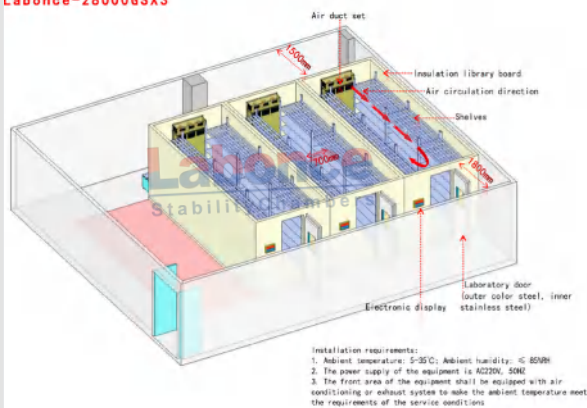
Data download



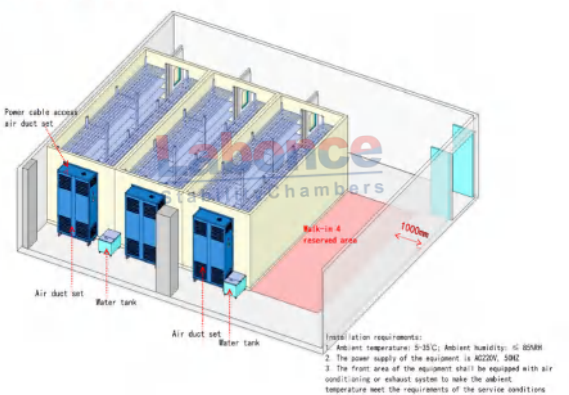


## Walk-in Stability Chamber

Labonco-28000GSX3



Labonco-28000GSX3



## Variable frequency compressor technical description

Labonce research and development team overcame difficulties and solved key technologies. After the temperature and humidity reached stability, the smooth frequency conversion of the compressor does not cause abnormal fluctuations in humidity. With imported compressor + micro-channel heat transfer technology, greatly reduce operating energy consumption.

### ◆ Variable frequency compressor introduction



- Reduce operation energy consumption by more than 50%

- Greatly reduce the heat emission

- Reduce the use of refrigerant, energy saving and environmental protection

### ◆ COUT is the proportion of refrigeration output



The cooling output power is 63.9%  
36.1% cooling energy saving



The cooling output power is 30.0%  
70.0% cooling energy saving



The cooling output power is 5.0%  
95.0% cooling energy saving

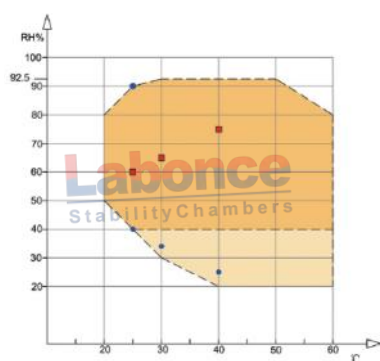




## Stability Chamber(FS series)

Labonce-FS Medicine Stability Testing Chamber, Adopt imported with frequency conversion technology design, Choose the original imported high quality parts, Stable and reliable performance, Suitable for GMP and CGMP certified users.

- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; more than 7 inches, with program setting function;
- ◆ Three Level Authority: Adopt the user name and password to log in. Different user names have different permissions at least three levels or above;
- ◆ Audit tracking: The control system has historical alarm recording and operation recording functions, and supports exporting in an unchangeable file format using a USB flash drive;
- ◆ Refrigeration system: Imported fully enclosed compressor;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Data management: Configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, Anti dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door structure: Interior door tempered glass door, Open the outer door to observe the sample, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Other configuration: test hole, rubber stopper, moving caster, door lock;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.2^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature uniformity  $\leq 1.0$ ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ; Humidity Deviation <  $\pm 3\%\text{RH}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure, Remote SMS alarm.



◆ Temperature and humidity control range diagram



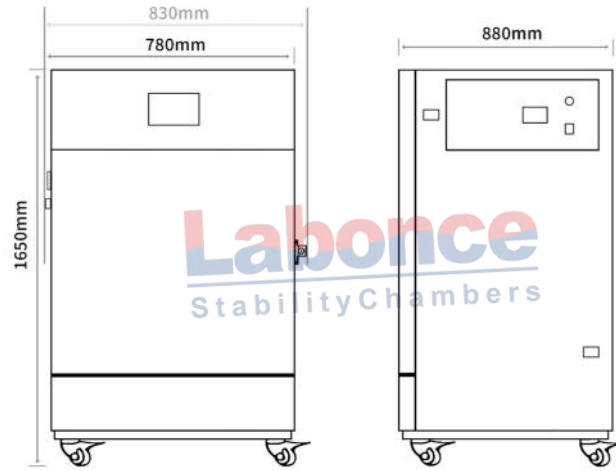
◆ 720FS



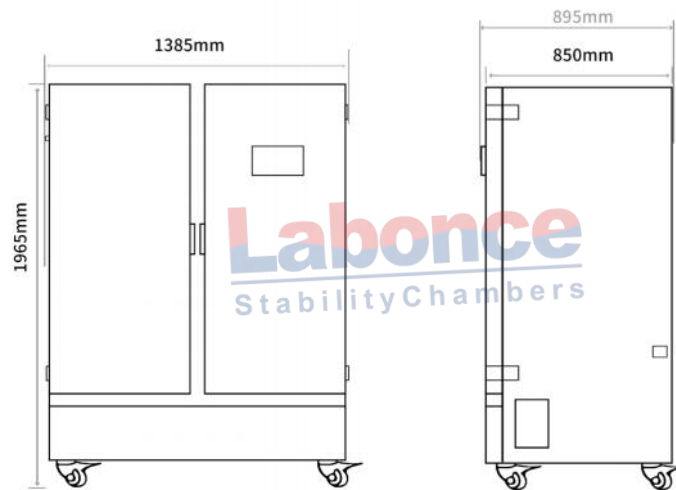
◆ 250FS

Model	Temperature Range (°C)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)
Labonce-250FS	15 ~ 65	20 ~ 95%	250	600×500×830	780×880×1650	1.5	3
Labonce-720FS	15 ~ 65	20 ~ 95%	800	1200×490×1360	1385×895×1965	3.0	4
Labonce-250CFS	15 ~ 65	20 ~ 95%	200	600×500×830	780×880×1650	1.5	3
Remarks	CFS series: comprehensive stability chamber with four functions, temperature, humidity, visible light, and UVA. Illumination measurement is equipped with visible light and UVA sensors as standard, and both visible light and UVA values are automatically printed and stored; Visible light range: 100-8000Lux, illumination deviation: $4500 \pm 500\text{Lux}$ ; The total illumination of the lighting test shall not be less than $1.2 \times 10^6 \text{ Lux} \cdot \text{hr}$ ; UVA range: $0.84-5\text{W/m}^2$ , with a total UVA energy of no less than $200\text{W} \cdot \text{hr/m}^2$ ; When there is no light, the temperature and humidity indicators are the same as FS.						

All indicators on this color page were measured at an ambient temperature of  $20-25^{\circ}\text{C}$ .



◆ 250FS/CFS



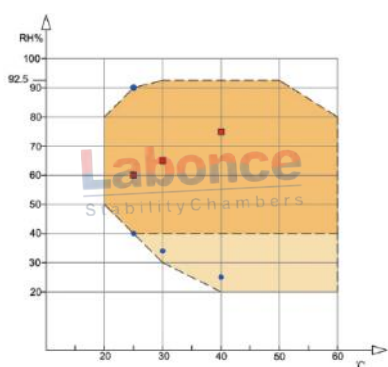
◆ 720FS



## Stability Chamber(GS-FC series:150L-500L)

Labonce-GS Medicine Stability Testing Chamber, Adopt imported with frequency conversion technology design, Choose the original imported high quality parts, Stable and reliable performance, Suitable for GMP and CGMP certified users.

- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; more than 7 inches, display frequency conversion output ratio;
- ◆ Three Level Authority: Adopt the user name and password to log in. Different user names have different permissions at least three levels or above;
- ◆ Audit tracking: The control system has historical alarm recording and operation recording functions, and supports exporting in an unchangeable file format using a USB flash drive;
- ◆ Refrigeration system: Imported fully enclosed compressor; Save more than 50% of electricity and water;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Data management: Configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, Anti dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door structure: Interior door tempered glass door, Open the outer door to observe the sample, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 1.0^{\circ}\text{C}$ ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ; Humidity Deviation <  $\pm 3\%\text{RH}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure, Remote SMS alarm.



◆ Temperature and humidity control range diagram



◆ Mirror stainless steel 304

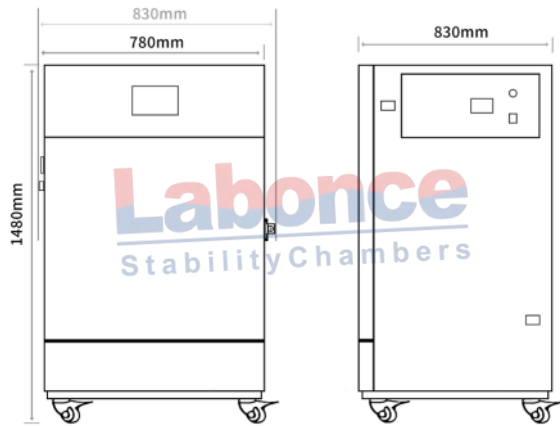


◆ 150GS~500GS

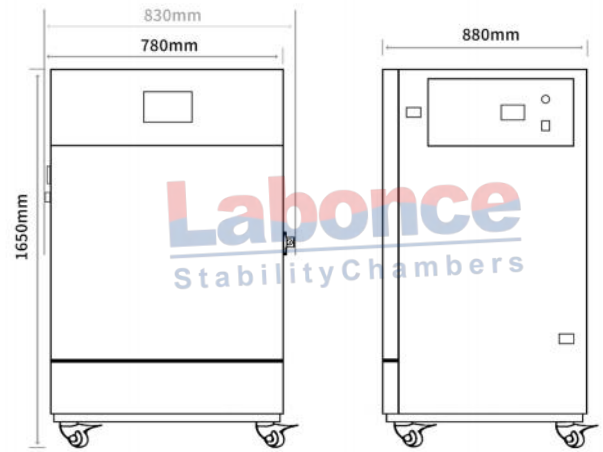
Model	Temperature Range (°C)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Labonce-150GS-FC	10 ~ 65	20 ~ 95%	150	600×405×620	780×830×1480	1.2	3	Frequency conversion energy saving, Power saving > 50%, Water saving > 80%, Drastically reduce Frequency of adding water
Labonce-250GS-FC	10 ~ 65	20 ~ 95%	250	600×500×830	780×880×1650	1.5	3	
Labonce-400GS-FC	10 ~ 65	20 ~ 95%	400	600×700×950	780×1060×1750	2.0	3	
Labonce-500GS-FC	10 ~ 65	20 ~ 95%	500	680×680×1080	860×1050×1850	2.2	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

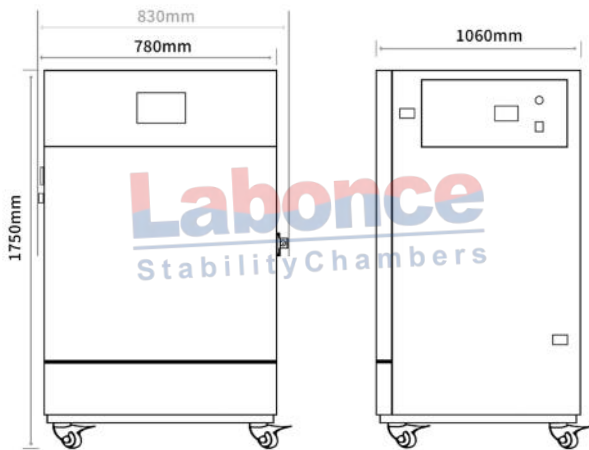




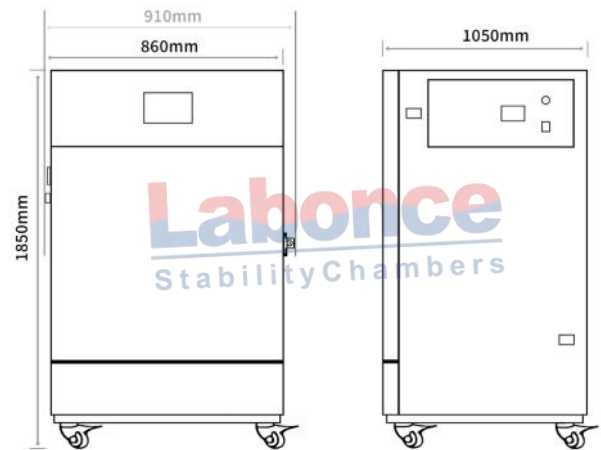
◆ 150GS/CGS



◆ 250GS/CGS



◆ 400GS/CGS



◆ 500GS/CGS



## Stability Chamber(GS-FC series:800L-3000L)

Labonce-GS series large-capacity drug stability test chamber, with independent right and left door opening design. It is small in depth and convenient for taking samples. The single-side door opening minimizes the overall temperature and humidity changes. It adopts high-quality craftsmanship design and selects imported high-quality components. The performance is stable and reliable, suitable for users certified by GMP and CGMP.

- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; more than 7 inches, display frequency conversion output ratio;
- ◆ Three Level Authority: Adopt the user name and password to log in. Different user names have different permissions at least three levels or above;
- ◆ Audit tracking: The control system has historical alarm recording and operation recording functions, and supports exporting in an unchangeable file format using a USB flash drive;
- ◆ Refrigeration system: Imported fully enclosed compressor; Save more than 50% of electricity and water;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Data management: Configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 1.0^{\circ}\text{C}$ ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ; Humidity Deviation <  $\pm 3\%\text{RH}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure, control by Remote SMS alarm.



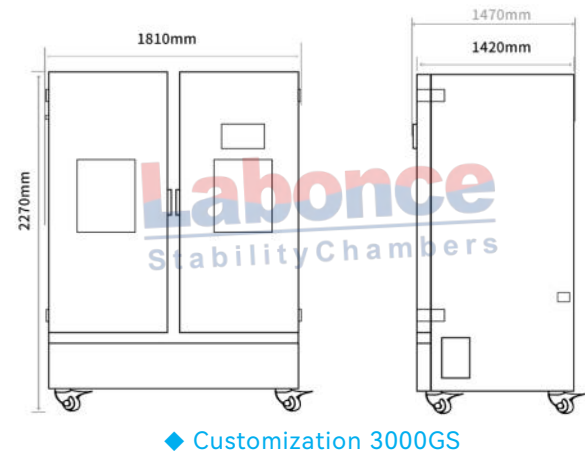
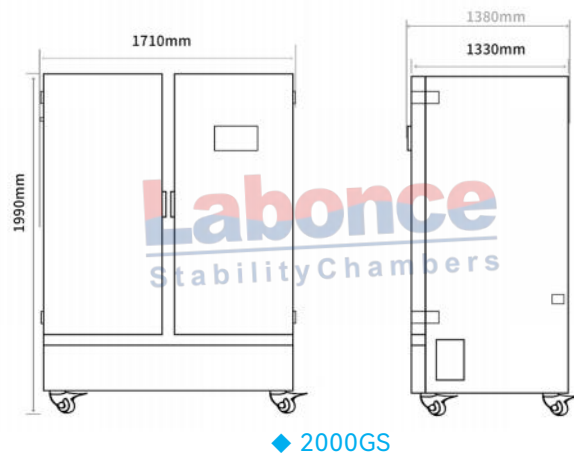
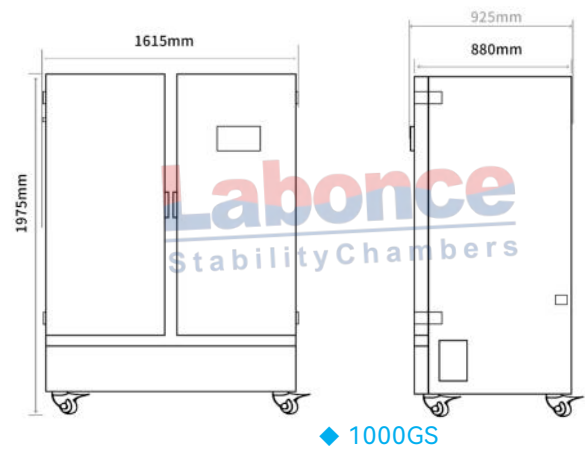
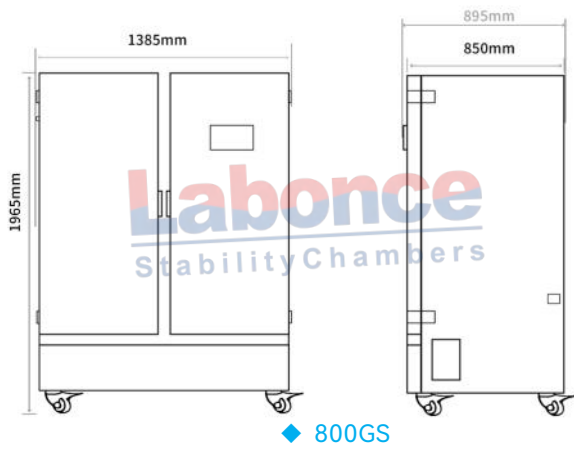
◆ 800GS-2000GS



◆ Customization 3000GS

Model	Temperature Range ( $^{\circ}\text{C}$ )	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Labonce-800GS-FC	10 ~ 65	20 ~ 95%	800	1200×490×1360	1385×895×1965	2.5	4/8	Customized 3000GS-FC configuration observation window
Labonce-1000GS-FC	10 ~ 65	20 ~ 95%	1000	1400×510×1400	1615×925×1975	3.0	4/8	
Labonce-2000GS-FC	10 ~ 65	20 ~ 95%	2000	1500×970×1400	1710×1380×1990	3.5	4/8	
Labonce-3000GS-FC	10 ~ 65	20 ~ 95%	3000	1600×1100×1680	1810×1470×2270	3.8	4/8	

All indicators on this color page were measured at an ambient temperature of 20~25 $^{\circ}\text{C}$ .





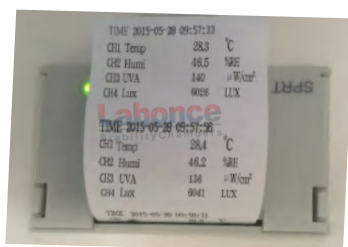
## Stability Chamber(CGS-FC series: with visible light+UVA)

Labonice-CGS Medicine Stability Testing Chamber, Choose the original imported high quality parts, Stable and reliable performance, Suitable for GMP and CGMP certified users.

- ◆ Reference Standard: ICH2003、 Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; more than 7 inches, display frequency conversion output ratio;
- ◆ Refrigeration system: Imported fully enclosed compressor; Save more than 50% of electricity and water;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Data management: configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 1.0^{\circ}\text{C}$ ; Temperature uniformity <  $2.0^{\circ}\text{C}$  (Without light) ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ; Humidity Deviation <  $\pm 3\%\text{RH}$  (Without light) ;
- ◆ Lighting system: The visible light range is 100~8000LUX, and the total illumination for the lighting test is not less than  $1.2 \times 10^6 \text{LUX} \cdot \text{hr}$ ;
- ◆ UV system: The UVA range is  $0.84 \sim 5 \text{w} / \text{m}^2$ , and the UVA energy is not less than  $200 \text{w} \cdot \text{hr} / \text{m}^2$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure, control by Remote SMS alarm.



◆ Control system



◆ Print device



◆ 150CGS~500CGS

Model	Temperature Range (°C)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)
Labonice-150CGS-FC	15 ~ 65	20 ~ 95%	150	600×405×620	780×830×1480	1.2	3
Labonice-250CGS-FC	15 ~ 65	20 ~ 95%	250	600×500×830	780×880×1650	1.5	3
Labonice-400CGS-FC	15 ~ 65	20 ~ 95%	400	600×700×950	780×1060×1750	2.0	3
Labonice-500CGS-FC	15 ~ 65	20 ~ 95%	500	680×680×1080	860×1050×1850	2.2	4
Remark	Equipped with four functions: temperature, humidity, visible light, and near ultraviolet. Illumination measurement is equipped with visible and UVA sensors as standard, achieving automatic control of illumination. Both visible and UVA values are automatically printed and stored.						

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## Comprehensive Stability Chamber(Double case)

Labonice-GS/CGS series two-chamber comprehensive medicine stability tester, GS series two-chamber independent control of temperature and humidity, CGS series with an additional layer of lighting system, to meet the requirements of the 2020 Pharmacopoeia and ICH regulations, suitable for GMP and CGMP certification users.

- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials:The exterior is coated with high quality steel plate,The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller,more than 7 inches, display frequency conversion output ratio;
- ◆ Refrigeration system: Imported fully enclosed compressor;Save more than 50% of electricity and water;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long life, maintenance free;
- ◆ Data management: configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system:On-site beeping alarm;
- ◆ Double Door structure: Interior door tempered glass door, Open the outer door to observe the samples,The temperature and humidity inside the container will not change in a short time,The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Other configurations: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ;  
Temperature Deviation <  $\pm 1.0^{\circ}\text{C}$  (Without light) ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ;  
Humidity Deviation <  $\pm 3\%\text{RH}$  (Without light) ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure , control by Remote SMS alarm.

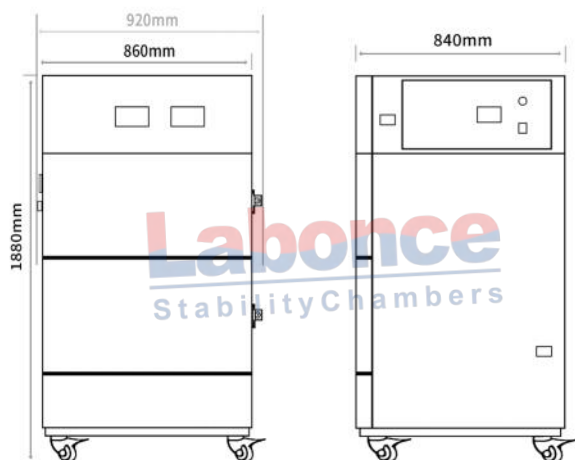


◆ 320GS

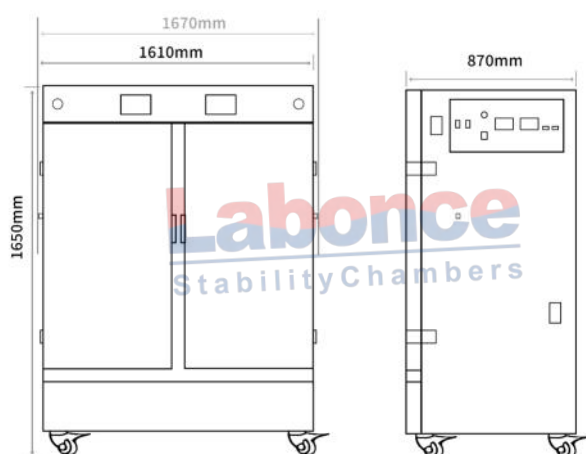


◆ 520GS~620GS

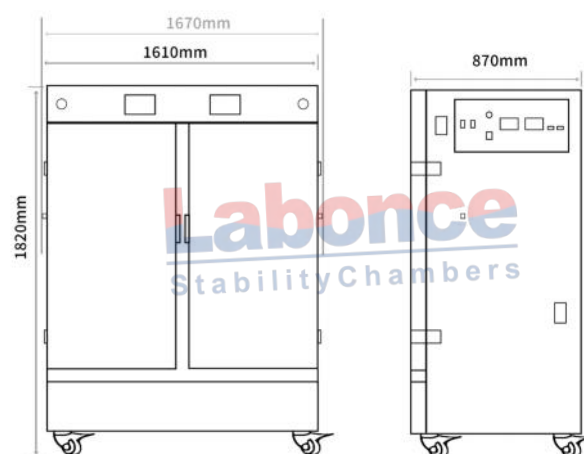
Model	Temperature Range (℃)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power ( kW )	Shelf (Standard)	Chamber Structure	Remarks	
Labonice-320GS-FC	15 ~ 65	20 ~ 95%	150	680×500×460	860×840×1880	2.5	2	UP	A(Temperature+Humidity) B(Temperature+Humidity)	
			150	680×500×460			2	Down		
Labonice-520GS-FC	15 ~ 65	20 ~ 95%	250	600×500×830	1610×870×1650	3.0	3	Left		
			250	600×500×830			3	Right		
Labonice-620GS-FC	15 ~ 65	20 ~ 95%	300	600×500×1000	1610×870×1820	3.2	3	Left		
			300	600×500×1000			3	Right		
Labonice-320CGS-FC	15 ~ 65	20 ~ 95%	150	680×500×460	860×840×1880	2.5	2	UP		A(Temperature+Humidity+Visible Light+UVA) B(Temperature+Humidity)
			150	680×500×460			2	Down		
Labonice-520CGS-FC	15 ~ 65	20 ~ 95%	250	600×500×830	1610×870×1650	3.0	3	Left		
			250	600×500×830			3	Right		
Labonice-620CGS-FC	15 ~ 65	20 ~ 95%	300	600×500×1000	1610×870×1820	3.2	3	Left		
			300	600×500×1000			3	Right		
Remark	CGS series: A chamber has four functions: temperature, humidity, visible light, and UVA. Illumination measurement is equipped with visible light and UVA sensors as standard, and both visible and UVA values are automatically printed and stored; Visible light range: 100-8000Lux, illumination deviation: 4500 ± 500Lux; The total illumination of the lighting test shall not be less than 1.2 × 10 <sup>6</sup> Lux·hr; UVA range: 0.84~5w/ m <sup>2</sup> , with a total UVA energy of no less than 200w · hr/ m <sup>2</sup> ; When there is no light, the temperature and humidity indicators are the same as GS.									



◆ 320GS/CGS



◆ 520GS/CGS



◆ 620GS/CGS





## Comprehensive Stability Chamber (Triple case)

Labonice-GS/CGS series three chamber comprehensive medicine stability tester, GS series three chamber independent control of temperature and humidity, CGS series A box is a light box, meeting the requirements of the 2020 Pharmacopoeia, suitable for GMP and CGMP certified users.

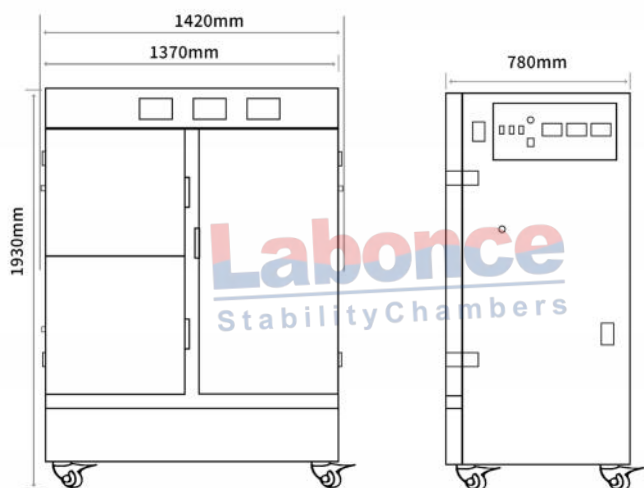
- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; more than 7 inches, display frequency conversion output ratio;
- ◆ Refrigeration system: Imported fully enclosed compressor; Save more than 50% of electricity and water;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Data management: Configuring needle micro printers and electronic data storage functions;
- ◆ Safety device: Compressor overheat and overpressure overload protection, water shortage protection, dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door Structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Other configurations: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 1.0^{\circ}\text{C}$  (Without light) ;
- ◆ Controlling Humidity Precision: Humidity Fluctuation <  $\pm 2\%\text{RH}$ ; Humidity Deviation <  $\pm 3\%\text{RH}$  (Without light) ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure , control by Remote SMS alarm.



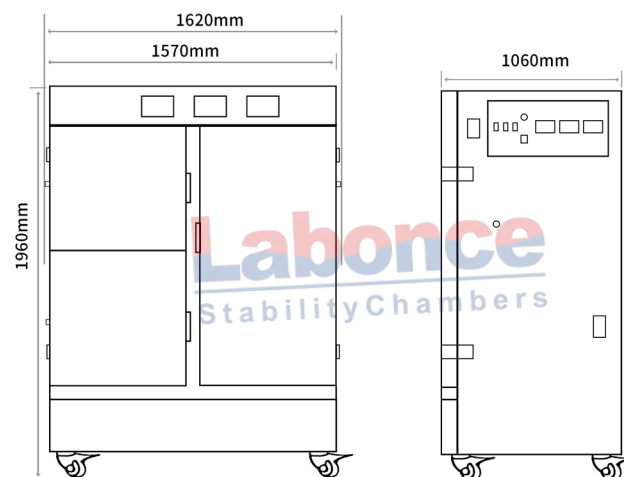
◆ 430GS~930GS

Model	Temperature Range (℃)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power ( kW )	Shelf (Standard)	Chamber Structure	Remarks
Labonce-430GS-FC	15 ~ 65	20 ~ 95%	100	480×420×500	1370×780×1930	3.5	1	Up Left A	A / B / C (Temperature+Humidity)
			100	480×420×500			2	Down Left B	
			230	480×420×1100			4	Right C	
Labonce-930GS-FC	15 ~ 65	20 ~ 95%	220	600×700×520	1570×1060×1960	4.0	1	Up Left A	
			220	600×700×520			2	Down Left B	
			480	600×700×1140			4	Right C	
Labonce-430CGS-FC	15 ~ 65	N/A	100	480×420×500	1370×780×1930	3.5	1	Up Left A	A (Temperature+Visible Light+UVA , At the same level,the temperature deviation is±2.0℃) B / C (Temperature+Humidity)
		20 ~ 95%	100	480×420×500			2	Down Left B	
		20 ~ 95%	230	480×420×1100			4	Right C	
Labonce-930CGS-FC	15 ~ 65	N/A	220	600×700×520	1570×1060×1960	4.0	1	Up Left A	
		20 ~ 95%	220	600×700×520			2	Down Left B	
		20 ~ 95%	480	600×700×1140			4	Right C	
Remarks	CGSseries: A chamber has three functions: temperature, visible light, and UVA . Illumination measurement is equipped with visible light and UVA sensors as standard, and both visible light and UVA values are automatically printed and stored; Visible light range: 100~6000Lux, illumination deviation: 4500 ± 500Lux; The total illumination of the lighting test shall not be less than 1.2 × 10 <sup>6</sup> Lux · hr; UVA range: 0.84~1.0 w/ m <sup>2</sup> , with a total UVA energy of no less than 200w · hr/ m <sup>2</sup> ; When there is no light, the temperature and humidity indicators are the same as GS.								

All indicators on this color page were measured at an ambient temperature of 20~25°C.



◆ 430GS/CGS



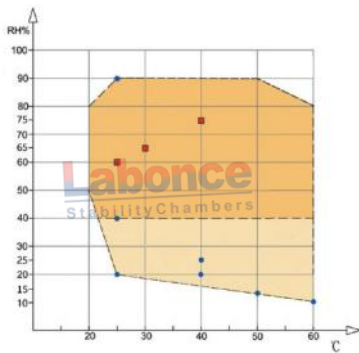
◆ 930GS/CGS



## Stability Chamber(LGS series: Special for medicine packages)

Labonice-LGS series medicine stability chamber is equipped with ultra-low humidity control function, which meets the requirements of the 2020 Pharmacopoeia and is suitable for GMP and CGMP certified users.

- ◆ Reference Standard: ICH2003、Chinese Pharmacopoeia 2020 edition;
- ◆ Ultra low humidity, special conditions for cartridge testing;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Control system: Programmable color touch screen controller; With three levels of user authority, audit trail;
- ◆ Refrigeration system: Imported fully enclosed compressor, high efficiency, low noise, long service life;
- ◆ Data management : Configure needle type micro printer and electronic data storage function, support to use U disk to export the data;
- ◆ Safety device: compressor overheat and overpressure overload protection, water shortage protection, dry burning protection system, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door Structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature and humidity, It can also prevent the influence of external light;
- ◆ Other configurations: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Special indicators: able to meet 60°C /10%RH, 25°C /20%RH special conditions (ambient temperature below 25°C);
- ◆ Controlling Temperature Precision: Temperature Fluctuation < ±0.5°C; Temperature Deviation < ±1.0°C;
- ◆ Controlling Humidity Precision: Humidity Fluctuation < ±3%RH; Humidity Deviation < ±3%RH;
- ◆ Environment Temperature: +5 ~ 35°C;
- ◆ Power: AC220V±10% 50HZ;
- ◆ **Optional:** Temperature-humidity deviation, sudden power failure, control by Remote SMS alarm.



◆ Temperature and humidity control range diagram



◆ 520LGS



◆ 250LGS~500LGS

Model	Temperature Range ( °C )	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power ( kW )	Shelf (Standard)	Remarks
Labonice-250LGS	15 ~ 65	10 ~ 90%	250	600×500×830	780×880×1650	1.5	3	Single(Temperature+Humidity)
Labonice-500LGS	15 ~ 65	10 ~ 90%	500	680×680×1080	860×1050×1850	2.2	4	Single(Temperature+Humidity)
Labonice-520LGS	15 ~ 65	10 ~ 90%	250	600×500×830	1610×870×1650	3.0	3	A(Temperature+Humidity)
			250	600×500×830			3	B(Temperature+Humidity)
Labonice-520LCGS	15 ~ 65	10 ~ 90%	250	600×500×830	1610×870×1650	3.5	3	A(Temperature+Humidity+Visible Light+UVA)
			250	600×500×830			3	B(Temperature+Humidity)
Remarks	LCGS series: A chamber with temperature, humidity, visible light, UVA four functions, illuminance measurement standard with visible light and UVA sensor, the visible light value and UVA value are automatically printed and stored; visible light range: 100 ~ 8000Lux, 4500 ± 500Lux, Total illuminance of the light test is not less than 1.2×10 <sup>6</sup> Lux-hr; UVA range: 0.84 ~ 5w/ m <sup>2</sup> , UVA total energy of not less than 200w-hr/ m <sup>2</sup> ;When there is no light, the temperature and humidity indicators are the same as LGS.							

All indicators on this color page were measured at an ambient temperature of 20~25°C.



## Photo-stability Chamber(TPS Series)

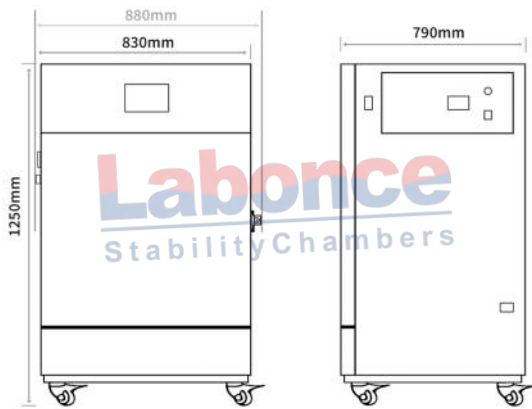
Labonco-TPS series photo-stability chamber is equipped with visible and near-ultraviolet light tubes, can independently control the type of light source, and can real-time printing and recording of visible light and near-UV radiation. visible light and near-ultraviolet can be set directly and adjusted automatically to precisely control both light sources.

- ◆ Equipped with D65 light source, near ultraviolet wavelength 320-400nm. The light source of each layer is controlled independently; With three levels of user authority, audit trail;
- ◆ Reference Standard: ICHQ1B、Chinese Pharmacopoeia 2020 edition;
- ◆ Light source design: The use of reasonable light source top design, the shelves of different positions of the sample to receive the light source irradiation of good uniformity;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Refrigeration system: Imported fully enclosed compressor, high efficiency, low noise, long service life;
- ◆ Control system: Programmable color touch screen controller, more than 7 inches; with three levels of user rights and audit trail function;
- ◆ Data management : Configure needle type micro printer and electronic data storage function, support to use U disk to export the data;
- ◆ Safety device: Compressor overheat and overpressure overload protection, independent overtemperature protection alarm system;
- ◆ Alarm system: On-site beeping alarm;
- ◆ Double Door Structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature inside the container will not change in a short time, The outer door is solid can keep temperature, It can also prevent the influence of external light;
- ◆ Other configurations: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Illumination open: Temperature Fluctuation <  $\pm 1.0^{\circ}\text{C}$ , Temperature deviation of the same layer: <  $\pm 2.0^{\circ}\text{C}$ ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ.

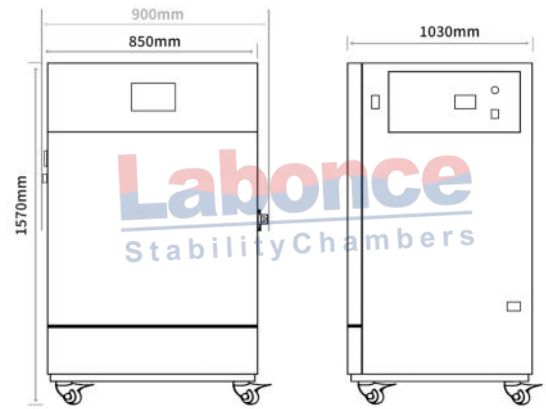


Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Remarks
Labonco-150TPS-1	15 ~ 50	150	650×490×500	830×790×1250	1.2	1 layer of light, Visible Light+UVA
Labonco-300TPS-2	15 ~ 50	300	550×660×770	850×1030×1570	1.5	2 layers of light, Visible Light+UVA
Labonco-500TPS-2	15 ~ 50	500	680×680×1080	860×1050×1850	1.8	2 layers of light, Visible Light+UVA
Labonco-500TPS-3	15 ~ 50	500	660×680×1080	860×1050×1850	2.1	3 layers of light, Visible Light+UVA
Labonco-1000TPS-3	15 ~ 50	1000	1360×490×1360	1620×910×1990	2.5	3 layers of light, Visible Light+UVA
Labonco-150LTPS-1	2 ~ 30	150	650×490×500	830×790×1250	1.5	1 layer of light, Visible Light+UVA
Labonco-500LTPS-2	2 ~ 30	500	680×680×1080	860×1050×1850	2.1	2 layers of light, Visible Light+UVA
Remarks	TPS:Visible Range: 100 ~ 8000Lux,Direct Setting, Illuminance deviation:4500±500Lux; UVA range: 0.84 ~ 5w/m <sup>2</sup> ; LTPS:Visible Range: 100 ~ 5000Lux,Direct Setting, Illuminance deviation:4500±500Lux; UVA range: 0.84 ~ 1w/m <sup>2</sup> ; Illumination requirements: The total illumination is not less than 1.2×10 <sup>6</sup> Lux • hr; UVA energy is not less than 200w • hr/ m <sup>2</sup> .					

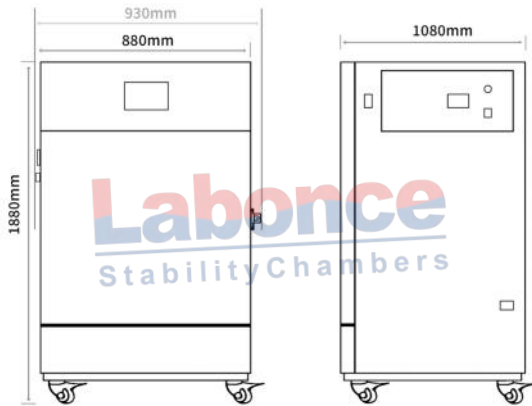
All indicators on this color page were measured at an ambient temperature of 20~25°C.



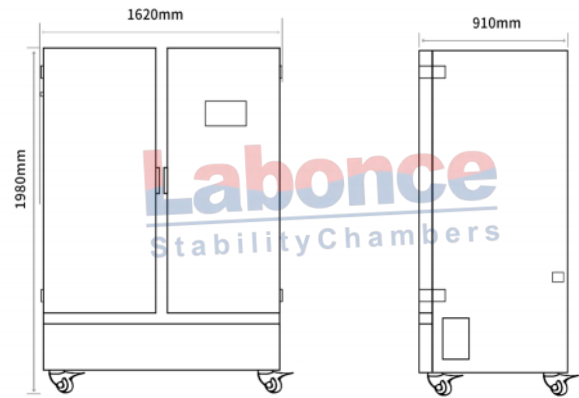
◆ 150TPS-1



◆ 300TPS-2



◆ 500TPS



◆ 1000TPS





## Biochemical Incubator(BIT Series)

Labonice-BIT series of biochemical incubator is applied in scientific research and production departments such as environmental protection, health and epidemic prevention, agriculture, animal husbandry, and aquatic products, drug testing, and cell culture.

- ◆ Reference standard: GB/T 28851-2012 Technical conditions for biochemical incubators;
- ◆ Air-way System: The newly air-way system designed achieves uniform of temperature form different parts inside the chamber;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Refrigeration system: Imported fully enclosed industrial compressor, high efficiency, low noise, long life;
- ◆ Control system: Color touch screen controller, with three levels of authority, with wind speed adjustable function;
- ◆ Data management : Configure needle type micro printer and electronic data storage function , support to use U disk to export the data;
- ◆ Safety device: compressor overheat and overpressure overload protection, independent overtemperature protection alarm system , On-site beeping alarm;
- ◆ Other configuration: Test hole、lighting、 Mobile casters;
- ◆ Controlling Temperature Precision: Temperature Fluctuation: High temperature  $\pm 0.5^{\circ}\text{C}$ ; Low temperature  $\pm 1.0^{\circ}\text{C}$ ; Temperature Uniformity  $\leq 2.0^{\circ}\text{C}$  (@ $37^{\circ}\text{C}$ ) ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ **Optional:** ① UV sterilization system; ② Three-level permission color touch screen controller;
- ③ SMS alarm; ④ Humidity display function.



◆ 150BIT~250BIT



◆ 400BIT~500BIT



◆ 800BIT~2000BIT

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Biochemical Incubator	Labonice-150BIT	0 ~ 60	150	520×460×600	640×700×1250	0.5	3	150-250L Configure observation window
	Labonice-250BIT	0 ~ 60	250	520×460×1050	620×690×1650	0.6	3	
	Labonice-400BIT	0 ~ 60	400	600×700×950	780×1060×1750	1.0	3	400-2000L Configured with built-in glass doors
	Labonice-500BIT	0 ~ 60	500	680×680×1080	860×1050×1850	1.2	4	
	Labonice-800BIT	0 ~ 60	800	1200×490×1360	1385×895×1965	1.5	4	
	Labonice-1000BIT	0 ~ 60	1000	1400×510×1400	1615×925×1975	2.0	4	
	Labonice-2000BIT	0 ~ 60	2000	1500×970×1400	1710×1380×1990	2.5	4	
Biochemical Incubator	Labonice-250BIT-H	0 ~ 60	250	520×460×1050	620×690×1650	0.6	3	With humidity display
	Labonice-800BIT-H	0 ~ 60	800	1200×490×1360	1385×895×1965	1.5	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.



## Mold Incubator(MIT Series/MIS Series)

The mold incubator MI and MIS series are applied in scientific research institutions such as environmental protection, health and epidemic prevention, drug testing, agriculture, animal husbandry, and aquatic products. It is a specialized constant temperature equipment for water analysis, BOD detection, and cultivation of microorganisms such as molds.

- ◆ Reference Standard: GB/T 28851-2012 Technical conditions for biochemical incubators;
- ◆ Air-way System: The newly air-way system designed achieves uniform of temperature form different parts inside the chamber(MI series);
- ◆ Chamber Materials:The exterior is coated with high quality steel plate,The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Refrigeration system: Imported fully enclosed industrial compressor, high efficiency, low noise, long life;
- ◆ Control system: Color touch screen controller, with three levels of authority, with wind speed adjustable function;
- ◆ Data management : Configure needle type micro printer and electronic data storage function, support to use U disk to export the data;
- ◆ Safety device: Compressor overheat and overpressure overload protection, independent overtemperature protection alarm system,On-site beeping alarm;
- ◆ Other configuration: Test holes、mobile casters、lighting、UV disinfection lights;
- ◆ Controlling Temperature Precision: MI Temperature Fluctuation: High temperature  $\pm 0.5^{\circ}\text{C}$ ;Low temperature  $\pm 1.0^{\circ}\text{C}$ ;  
Temperature Uniformity  $\leq 2.0^{\circ}\text{C}$  (@ $37^{\circ}\text{C}$ ) ;  
MIS Temperature Fluctuation:  $\pm 0.5^{\circ}\text{C}$ ,Humidity fluctuation:  $\pm 5\%\text{RH}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ .



◆ LCD temperature controller

◆ 150MI~250MIT

◆ 500MIS

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Mould incubator	Labonca-150MIT	0 ~ 60	150	520×460×600	640×700×1250	0.5	3	With viewing window NO humidity
	Labonca-250MIT	0 ~ 60	250	520×460×1050	620×690×1650	0.6	3	
	Labonca-500MIT	0 ~ 60	500	680×680×1080	860×1050×1850	1.2	4	NO humidity
	Labonca-800MIT	0 ~ 60	800	1200×490×1360	1385×895×1965	1.5	4	
Mould incubator (With humidity control)	Labonca-250MIS	15 ~ 50	250	600×500×830	780×870×1650	1.5	3	Humidity range: 50-85% RH Printer options
	Labonca-500MIS	15 ~ 50	500	680×680×1080	860×1050×1850	2.0	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## Constant Temperature & Humidity Chamber (CH Series)

- ◆ Reference standard: GB/T 10586-2006 Humid heat test chamber technical conditions;
- ◆ Air-way System: The newly air-way system designed achieves uniform of temperature form different parts inside the chamber;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Refrigeration system: Imported fully enclosed compressor, high efficiency, low noise, long life;
- ◆ Control system: programmable color touch screen controller with data storage function, data can be exported through USB flash drive;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Safety device: Anti dry burning protection system, independent overtemperature protection system, on-site buzzer alarm;
- ◆ Other configuration: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Temperature control Precision: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ;  
Temperature deviation  $\leq \pm 1.0^{\circ}\text{C}$ ; Temperature uniformity  $\leq 2.0^{\circ}\text{C}$ ;
- ◆ Humidity control Precision: humidity fluctuation  $\leq \pm 3\% \text{ RH}$ ; Humidity deviation  $\leq 3\% \text{ RH}$ ;
- ◆ Environmental temperature:  $+5\sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V  $\pm 10\%$  50Hz;
- ◆ **Optional:** printer、lighting.



◆ 150CH~500CH

Model	Temperature Control Range(°C)	Humidity control range(RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Labonco-150CH-T	15~60	40 ~ 90%	150	600×405×620	780×830×1480	1.2	3	
Labonco-250CH-T	15~60	40 ~ 90%	250	600×500×830	780×880×1650	1.5	3	
Labonco-400CH-T	15~60	40 ~ 90%	400	600×700×950	780×1060×1750	2.0	3	
Labonco-500CH-T	15~60	40 ~ 90%	500	680×680×1080	860×1050×1850	2.2	4	
Labonco-800CH-T	15~60	40 ~ 90%	800	1200×490×1360	1385×895×1965	2.5	4	
Labonco-1000CH-T	15~60	40 ~ 90%	1000	1400×510×1400	1615×925×1975	3.0	4	

## Constant Temperture & Humidity Chamber (TH Series)

- ◆ Reference standard: GB/T 10586-2006 Humid heat test chamber technical conditions;
- ◆ Air-way System: The newly air-way system designed achieves uniform of temperature form different parts inside the chamber;
- ◆ Insulation material: Overall high-density polyurethane foam technology, with good insulation and moisture retention performance;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel 304, no pollution source, easy to clean;
- ◆ Refrigeration system: Imported fully enclosed compressor, high efficiency, low noise, long life;
- ◆ Control system: programmable color touch screen controller with multi-segment program and fixed value function;
- ◆ Data management : Electronic data storage function, which can export data through a USB flash drive;
- ◆ Humidity control: Original imported capacitive humidity sensor, high precision, low drift, long service life, maintenance free;
- ◆ Safety device: Anti dry burning protection system, independent overtemperature protection system, on-site buzzer alarm;
- ◆ Other configuration: Test hole、Rubber plug、Mobile casters、Door lock;
- ◆ Temperature control Precision: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ;  
Temperature deviation  $\leq \pm 1.0^{\circ}\text{C}$ ; Temperature uniformity  $\leq 2.0^{\circ}\text{C}$ ;
- ◆ Humidity control Precision: Humidity fluctuation  $\leq \pm 3\% \text{ RH}$ ;  
Humidity deviation  $\leq \pm 3\% \text{ RH}$  (control humidity  $> 75\% \text{ RH}$ );  
Humidity deviation  $\leq 5\% \text{ RH}$  (control humidity  $\leq 75\% \text{ RH}$ );
- ◆ Environmental temperature:  $+5\sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V  $\pm 10\%$  50Hz;
- ◆ **Optional:** Printer、Lighting.



◆ 800TH~1000TH

Model	Temperature Range (°C)	Humidity control range(RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Labonco-150TH-T	0 ~ 100	20~95%	150	600×405×620	780×830×1480	1.5	3	Equipped with high temperature resistant capacitive humidity sensor
Labonco-250TH-T	0 ~ 100	20~95%	250	600×500×830	780×870×1650	1.8	3	
Labonco-400TH-T	0 ~ 100	20~95%	400	600×700×950	780×1060×1750	2.2	3	
Labonco-500TH-T	0 ~ 100	20~95%	500	680×680×1080	860×1050×1850	2.5	4	
Labonco-800TH-T	0 ~ 100	20~95%	800	1200×490×1360	1385×895×1965	3.0	4	
Labonco-1000TH-T	0 ~ 100	20~95%	1000	1400×510×1400	1615×925×1975	3.5	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## Electric Heating Thermostatic Incubator (DHP Series)

Labonice-DHP electric thermostat incubator is used in medical and health care, pharmaceutical industry, biochemistry and agricultural science and other scientific research and industrial production departments to do bacteria culture, fermentation and constant temperature test.

- ◆ Reference standard: YY 0027-1990 electrothermal incubator;
- ◆ Heating method: Air jacket electric heating, fast heating speed;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel, four corners half circle arc over plating, shelf can be free loading and unloading;
- ◆ Control System: High precision microcomputer digital display controller with timing function;
- ◆ External door design: double doors with built-in glass doors for easy observation of culture changes;
- ◆ Controlling Temperature Precision: Temperature resolution: 0.1 °C;  
Temperature uniformity  $\pm 1.5^{\circ}\text{C}$  (@ 37 °C);
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ **Optional:** Touch screen controller with three-level permissions and audit tracking; Model is HI.



Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Electrothermal Incubator	Labonice-9052DHP	RT+5 ~ 65	50	415×360×355	690×500×500	0.3	2	
	Labonice-9082DHP	RT+5 ~ 65	80	500×400×400	780×530×560	0.4	2	
	Labonice-9162DHP	RT+5 ~ 65	160	500×500×650	790×630×810	0.6	2	
	Labonice-9272DHP	RT+5 ~ 65	270	600×600×750	890×740×910	0.8	2	
	Labonice-9402DHP	RT+5 ~ 65	400	640×585×1355	780×750×1880	1.1	3	
	Labonice-9602DHP	RT+5 ~ 65	600	840×600×1355	980×800×1880	2.2	4	

## Water-Jacket Thermostatic Incubator (GHP Series)

Labonice-GHP Water-jacket incubator is used by universities and colleges, pharmaceutical and biological research departments for Storage strains, biological culture, is the necessary equipment for scientific research laboratories.

- ◆ Heating method: watertight heating with good temperature uniformity;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel, four corners half circle arc over plating, shelf can be free loading and unloading;
- ◆ Control System: High precision microcomputer digital display controller with timing function;
- ◆ External door design: double doors with built-in glass doors for easy observation of culture changes;
- ◆ Controlling Temperature Precision: Temperature Fluctuation  $\pm 0.3^{\circ}\text{C}$ ;  
Temperature Uniformity  $\pm 0.5^{\circ}\text{C}$  (at 37°C);
- ◆ Environment Temperature:  $+5 \sim 35^{\circ}\text{C}$ ;
- ◆ Power: AC220V $\pm 10\%$  50HZ;
- ◆ **Optional:** Touch screen controller with three-level permissions and audit tracking, printer; Model is WHI.



Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Watertight Incubator	Labonice-9050GHP	RT+5 ~ 65	50	350×350×410	500×500×700	0.4	2	
	Labonice-9080GHP	RT+5 ~ 65	80	400×400×500	550×550×800	0.6	2	
	Labonice-9160GHP	RT+5 ~ 65	160	500×500×650	650×680×950	0.8	2	
	Labonice-9270GHP	RT+5 ~ 65	270	600×600×750	750×740×1050	1.3	2	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## Drying Oven

Products produced using advanced laser and CNC processing equipment; Used in mining enterprises, laboratories, research institutions, etc. for drying, baking, wax melting, and sterilization.

- ◆ Reference standard: GB/T 30435-2013 Electric drying chamber and electric blast drying chamber;
- ◆ Chamber material: The chamber body are made of mirror stainless steel argon arc welding, the box outside the use of high-quality steel plate, beautiful and novel shape;
- ◆ Air-way system: The hot air circulation system consists of a fan that can run continuously at high temperatures and suitable ducts to improve the temperature uniformity in the working room;
- ◆ Control system: High-precision microcomputer digital display controller with timing function, timing range: 1-9999min;
- ◆ Temperature control: The constant temperature fluctuation is  $\pm 1.0^{\circ}\text{C}$ , the temperature precision is  $0.1^{\circ}\text{C}$ ;
- ◆ Environmental temperature:  $+5\sim 40^{\circ}\text{C}$ ;
- ◆ Power: AC 220V  $\pm 10\%$  50Hz (AC 380V  $\pm 10\%$  50Hz);
- ◆ **Optional:** Programmable color touch screen controller with multiple program and fixed value functions, with three-level user permissions and audit tracking function.



Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power ( kW )	Shelf (Standard)	Remarks
Drying Oven (Long term use within 220 °C)	Labonice-9070AL	RT+10 ~ 250	70	400×400×450	540×530×800	1.0	2	Adapted power supply: 220V
	Labonice-9140AL	RT+10 ~ 250	140	450×550×550	600×720×900	1.5	2	
	Labonice-9240AL	RT+10 ~ 250	240	550×550×750	750×750×1150	2.5	2	
	Labonice-9420AL	RT+10 ~ 250	420	640×585×1355	780×750×1880	3.1	3	Adapted power supply: 380V
	Labonice-9620AL	RT+10 ~ 250	620	780×600×1355	980×800×1880	4.0	4	
	Labonice-9920AL	RT+10 ~ 250	1000	1000×600×1600	1140×800×2150	5.2	4	
Drying Oven (Long term use within 270 °C)	Labonice-9075AL	RT+10 ~ 300	70	400×400×450	540×530×800	1.0	2	Adapted power supply: 220V
	Labonice-9145AL	RT+10 ~ 300	140	450×550×550	600×720×900	1.5	2	
	Labonice-9245AL	RT+10 ~ 300	240	550×550×750	750×750×1150	2.5	2	
	Labonice-9425AL	RT+10 ~ 300	420	640×585×1355	780×750×1880	3.1	3	Adapted power supply: 380V
	Labonice-9625AL	RT+10 ~ 300	620	780×600×1355	980×800×1880	4.0	4	
	Labonice-9925AL	RT+10 ~ 300	1000	1000×600×1600	1140×800×2150	5.2	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.



## Vacuum Drying Oven (ZK Series)

The vacuum drying Oven is designed specifically for drying heat-sensitive, easily decomposable, and oxidizable substances. It can fill the interior with inert gas, especially for some items with complex components that can be quickly dried.

- ◆ Reference standard: GB/T 29251-2012 vacuum drying chamber;
- ◆ Structural design: The structural design is more reasonable, the operation is simpler, and the sample rack is placed more reasonably;
- ◆ Internal material: The studio is made of mirror faced stainless steel plate material, ensuring that the product is durable and easy to clean;
- ◆ Control system: Microcomputer digital temperature controller with timing function, precise and reliable temperature control;
- ◆ Control precision: Constant temperature fluctuation:  $\pm 1^{\circ}\text{C}$ ; Temperature precision:  $0.1^{\circ}\text{C}$ ; The vacuum degree can reach 133Pa;
- ◆ Door structure: Tempered and bulletproof double layer glass doors allow for clear observation of objects in the studio at a glance;
- ◆ Seal ring: The door closure is adjustable, and the synthetic silicon door seal ring is formed as a whole to ensure keep high vacuum inside the chamber;
- ◆ Power: AC220V  $\pm 10\%$  50Hz (380V for 6500ZK);
- ◆ **Optional:** program table, inert gas intake valve, drying tank, oil filter, etc.



6050zk optional



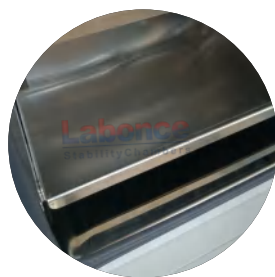
◆ 6050ZK

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Vacuum Drying Oven (Vacuum degree pointer display)	Laboncc-6050ZK	RT+10 ~ 200	50	415×370×345	710×560×550	1.1	2	No vacuum pump
	Laboncc-6090ZK	RT+10 ~ 200	90	450×450×450	610×680×1460	1.7	2	Standard vacuum pump Two layers independent temperature control
	Laboncc-6210ZK	RT+10 ~ 200	210	560×600×640	720×820×1750	2.0	3	Standard vacuum pump Three layers independent temperature control
	Laboncc-6500ZK	RT+10 ~ 200	420	630×810×840	790×1030×1860	3.6	4	Standard vacuum pump Four layers independent temperature control

## High Precision Vacuum Drying Oven (VC Series)

VC series vacuum drying oven is equipped with a vacuum pump as standard, and is equipped with a resistance silicon tube pressure sensor to achieve digital display of vacuum degree. It can also achieve continuous vacuum drying by setting the upper and lower limits of vacuum degree and the number of cycles, improving experimental or production efficiency.

- ◆ Control system: Touch screen controller with timing function, precise and reliable temperature control;
- ◆ Control precision: Constant temperature fluctuation:  $\pm 1^{\circ}\text{C}$ ; Temperature precision:  $0.1^{\circ}\text{C}$ ;
- ◆ Vacuum precision: Equipped with resistance silicon tube pressure sensor, vacuum data display, control precision of  $\pm 1\%$ ;
- ◆ Standard configuration: Vacuum pump.



◆ 6090VC~6210VC

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
High precision vacuum drying oven (Vacuum data display)	Laboncc-6090VC	RT+10 ~ 200°C	90	450×450×450	610×680×1460	1.7	2	2 layers of independent temperature control
	Laboncc-6210VC	RT+10 ~ 200°C	210	560×600×640	720×820×1750	2.0	2	2 layers of independent temperature control

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## High Temperature Chamber (GW/GWH Series)

Labonice-GW series high-temperature test chamber adopts new structure design, stable and reliable performance, which is suitable for high-temperature experiment of electric and electronic products and materials.

- ◆ Reference standard: GB/T 11158-2008 Technical Conditions for High Temperature Test Chambers;
- ◆ Air-way system: A new air-way system design, three sides of the air, good temperature uniformity in different locations within the chamber;
- ◆ Control system: three-level permission programmable color touch screen controller;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel;
- ◆ Data management: Configure electronic data storage function, which can export data through a USB flash drive;
- ◆ Safety device: Equipped with an independent overtemperature protection system to protect the safety of samples and equipment;
- ◆ Temperature control accuracy: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ , temperature deviation  $\leq \pm 2.0^{\circ}\text{C}$  ( $< 150^{\circ}\text{C}$ )  
Temperature deviation  $\leq \pm 3.0^{\circ}\text{C}$  ( $< 250^{\circ}\text{C}$ ).



◆ 250GW

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
High Temperature Chamber(200°C)	Labonice-100GW	RT+10 ~ 200	100	450×450×450	1100×700×800	2.0	2	Temperature deviation (°C): $\pm 2.0$ ( $< 150^{\circ}\text{C}$ )
	Labonice-250GW	RT+10 ~ 200	250	600×600×700	1250×850×1000	2.5	2	
	Labonice-500GW	RT+10 ~ 200	500	800×700×900	1450×1200×1200	3.5	2	
	Labonice-1000GW	RT+10 ~ 200	1000	1000×1000×1000	1650×1650×1300	4.0	4	
High Temperature Chamber(300°C)	Labonice-100GWH	RT+10 ~ 300	100	450×450×450	1100×700×800	2.5	2	Temperature deviation (°C): $\pm 3.0$ ( $< 250^{\circ}\text{C}$ )
	Labonice-250GWH	RT+10 ~ 300	250	600×600×700	1250×850×1000	3.0	2	
	Labonice-500GWH	RT+10 ~ 300	500	800×700×900	1450×1200×1200	4.0	2	
	Labonice-1000GWH	RT+10 ~ 300	1000	1000×1000×1000	1650×1650×1300	4.5	4	

## Precise Blast Drying Oven (HT/GHTH Series)

Labonice-HT series Precise Blast Drying Chamber, Adopt the brand new structural design, Stable and reliable performance, Suitable for high temperature test of electrical and electronic products and materials.

- ◆ Air-way system: A new air-way system design, three sides of the air, good temperature uniformity in different locations within the chamber;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel;
- ◆ Control system: Imported digital display meter controller;
- ◆ Safety device: Equipped with an independent overtemperature protection system to protect the safety of samples and equipment;
- ◆ Temperature control accuracy: Temperature Fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ,  
Temperature Deviation  $< \pm 2.0^{\circ}\text{C}$  ( $< 150^{\circ}\text{C}$ ),  
Temperature Deviation  $< \pm 3.0^{\circ}\text{C}$  ( $< 250^{\circ}\text{C}$ );
- ◆ Power: AC220V $\pm 10\%$  50HZ(AC 380V $\pm 10\%$  50HZ).



◆ 100HT

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Precise Blast Drying Oven(200°C)	Labonice-100HT	RT+10 ~ 200	100	450×450×500	1100×700×800	2.0	2	Temperature Deviation(°C): $\pm 2.0$ ( $< 150^{\circ}\text{C}$ )
	Labonice-250HT	RT+10 ~ 200	250	600×600×700	1250×850×1000	2.5	2	
	Labonice-500HT	RT+10 ~ 200	500	800×700×900	1450×1200×1200	3.5	2	
	Labonice-1000HT	RT+10 ~ 200	1000	1000×1000×1000	1650×1650×1300	4.0	4	
Precise Blast Drying Oven(300°C)	Labonice-100GHTH	RT+10 ~ 300	100	450×450×500	1100×700×800	2.5	2	Temperature Deviation(°C): $\pm 3.0$ ( $< 250^{\circ}\text{C}$ )
	Labonice-250GHTH	RT+10 ~ 300	250	600×600×700	1250×850×1000	3.0	2	
	Labonice-500GHTH	RT+10 ~ 300	500	800×700×900	1450×1200×1200	4.0	2	
	Labonice-1000GHTH	RT+10 ~ 300	1000	1000×1000×1000	1650×1650×1300	4.5	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## High & Low Temperature And Humidity Chamber (JS/GD Series)

Labonco-JS series high and low temperature alternating humidity and heat test chamber is used for adaptability testing of electrical and electronic products, as well as their original components, and other materials during storage, transportation, and use in high temperature, low temperature, and humidity and heat environments. Conduct environmental simulation tests on the physical and other related characteristics of the product under low temperature, high temperature, and high humidity conditions. After testing, determine whether the product's performance still meets the predetermined requirements through testing, for use in product design, improvement, identification, and factory inspection.

- ◆ Reference standard: GB/T 10592-2008 Technical Conditions for High and Low Temperature Test Chambers;
- ◆ Air-way System: The newly air-way system designed achieves uniform of temperature form different parts inside the chamber;
- ◆ Chamber Materials: External high quality steel plate sprayed, The liner is made of stainless steel 304;
- ◆ Refrigeration system: The original imported fully enclosed industrial compressor, high efficiency, low noise, ensure the long-term continuous operation of equipment;
- ◆ Control system: programmable chromatic touch screen controller, With multi - segment program and constant value function;
- ◆ Data management : Electronic data storage function, support to use U disk to export the data;
- ◆ Safety Device: Compressor overheat protection and overload protection; Fan overheat protection; Temperature upper and lower limit deviation alarm; Independent overtemperature protection alarm system;
- ◆ Controlling Temperature Precision: Temperature Fluctuation <  $\pm 0.5^{\circ}\text{C}$ ; Temperature Deviation <  $\pm 2.0^{\circ}\text{C}$  ;
- ◆ Controlling Humidity Precision: Humidity Deviation <  $\pm 3\%\text{RH}$ (Humidity Control > 75%RH);  
Humidity Deviation <  $\pm 5\%\text{RH}$ (Humidity Control  $\leq 75\%\text{RH}$ );
- ◆ Temperature Control Rate: Rising Rate 1  $\sim 3^{\circ}\text{C}/\text{min}$ ; Falling Rate 0.7  $\sim 1^{\circ}\text{C}/\text{min}$ ;
- ◆ **Optional:** Needle type micro printer.



◆ 100GD



◆ 1000JS

Name	Model	Temperature Range (°C)	Humidity Range (RH)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Shelf (Standard)
High & low temperature and humidity chamber	Labonco-100JS	A:-20~150°C B:-40~150°C C:-60~150°C	20 ~ 98%	100	450×450×500	680×1040×1570	2
	Labonco-250JS		20 ~ 98%	250	600×600×700	1100×1100×1900	2
	Labonco-500JS		20 ~ 98%	500	800×700×900	1280×1180×2000	3
	Labonco-1000JS		20 ~ 98%	1000	1000×1000×1000	1500×1500×2200	4
High & low temperature chamber	Labonco-100GD	A:-20~150°C B:-40~150°C C:-60~150°C	N/A	100	450×450×500	680×1040×1570	2
	Labonco-250GD		N/A	250	600×600×700	1100×1100×1900	2
	Labonco-500GD		N/A	500	800×700×900	1280×1180×2000	3
	Labonco-1000GD		N/A	1000	1000×1000×1000	1500×1500×2200	4

All indicators on this color page were measured at an ambient temperature of 20~25°C.

## Constant temperature chamber(CT Series)

Labonco-CT series constant temperature chamber is suitable for high-temperature damage experiments of drugs and temperature resistance tests of packaging materials, as well as high-temperature aging tests of materials.

- ◆ Reference standard: GB/T 10586-2006 Technical Conditions for thermal-humidity chamber ;
- ◆ Air-way system: a new air-way system design, three sides of the air, good temperature uniformity in different locations within the chamber;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel, with built-in glass door;
- ◆ Control system: Programmable color touch screen controller with three-level user permissions and audit tracking function;
- ◆ Data management: Configure electronic data storage function, which can export data through a USB flash drive;
- ◆ Safety device: Equipped with an independent overtemperature protection system to protect the safety of samples and equipment;
- ◆ Double Door Structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature, It can also prevent the influence of external light;
- ◆ Temperature control accuracy: CT series: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ;  
Temperature deviation  $\leq \pm 1.0^{\circ}\text{C}$ ; temperature uniformity  $\leq 2.0^{\circ}\text{C}$ ;  
TT series: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ;  
Temperature deviation  $\leq 0.7^{\circ}\text{C}$ ; Temperature uniformity  $\leq 1.0^{\circ}\text{C}$ ;

◆ Power: AC220V  $\pm 10\%$  50Hz;

◆ **Optional:** Needle type micro printer.



◆ 800~1000CT

Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Constant temperature chamber	Labonco-50CT	0 ~ 85	50	400×310×350	590×520×740	1.0	2	Temperature uniformity: $\leq 2.0^{\circ}\text{C}$
	Labonco-150CT		150	600×405×620	780×830×1480	1.2	3	
	Labonco-250CT		250	600×500×830	780×880×1650	1.5	3	
	Labonco-400CT		400	600×700×950	780×1060×1750	2.0	3	
	Labonco-500CT		500	680×680×1080	860×1050×1850	2.2	4	
	Labonco-800CT		800	1200×490×1360	1385×895×1965	2.5	4	
	Labonco-1000CT		1000	1400×510×1400	1615×925×1975	3.0	4	
Constant temperature chamber	Labonco-720TT	0 ~ 85	750	1200×490×1360	1385×895×1965	2.5	4	Temperature uniformity: $\leq 1.0^{\circ}\text{C}$
	Labonco-1000TT		1000	1400×510×1400	1615×925×1975	3.0	4	

## Constant temperature chamber(T Series)

- ◆ Reference standard: GB/T 10586-2006 Technical Conditions for thermal-humidity chamber ;
- ◆ Air-way system: a new air-way system design, three sides of the air, good temperature uniformity in different locations within the chamber;
- ◆ Chamber Materials: The exterior is coated with high quality steel plate, The liner is made of mirror stainless steel, with built-in glass door;
- ◆ Control system: Programmable color touch screen controller with three-level user permissions and audit tracking function;
- ◆ Data management: Configure electronic data storage function, which can export data through a USB flash drive;
- ◆ Safety device: Equipped with an independent overtemperature protection system to protect the safety of samples and equipment;
- ◆ Double Door Structure: Interior door tempered glass door, Open the outer door to observe the samples, The temperature and humidity inside the container will not change in a short time, The outer door is solid can keep temperature, It can also prevent the influence of external light;
- ◆ Temperature control accuracy: CT series: Temperature fluctuation  $\leq \pm 0.5^{\circ}\text{C}$ ;  
Temperature deviation  $\leq \pm 1.0^{\circ}\text{C}$ ;  
Temperature uniformity  $\leq 2.0^{\circ}\text{C}$ ;

◆ Power: AC220V  $\pm 10\%$  50Hz;

◆ **Optional:** Needle type micro printer.

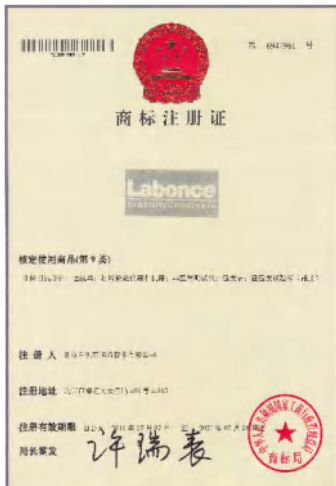


◆ 150~500T

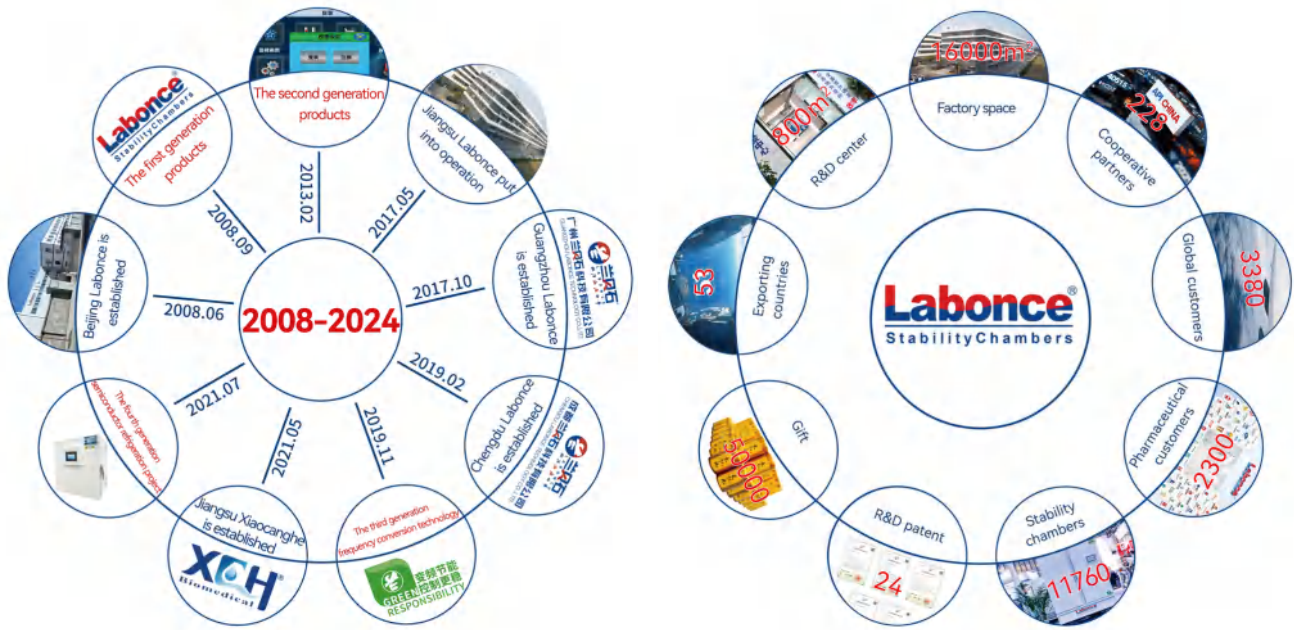
Name	Model	Temperature Range (°C)	Capacity (L)	Interior Dimensions(mm) W×D×H	External Dimensions(mm) W×D×H	Power (kW)	Shelf (Standard)	Remarks
Constant temperature chamber	Labonco-50T	RT+10 ~ 100	50	400×310×350	590×520×740	1.0	2	Temperature uniformity: $\leq 2.0^{\circ}\text{C}$
	Labonco-150T		150	600×405×620	780×830×1480	1.2	3	
	Labonco-250T		250	600×500×830	780×880×1650	1.5	3	
	Labonco-400T		400	600×700×950	780×1060×1750	2.0	3	
	Labonco-500T		500	680×680×1080	860×1050×1850	2.2	4	

All indicators on this color page were measured at an ambient temperature of 20~25°C.

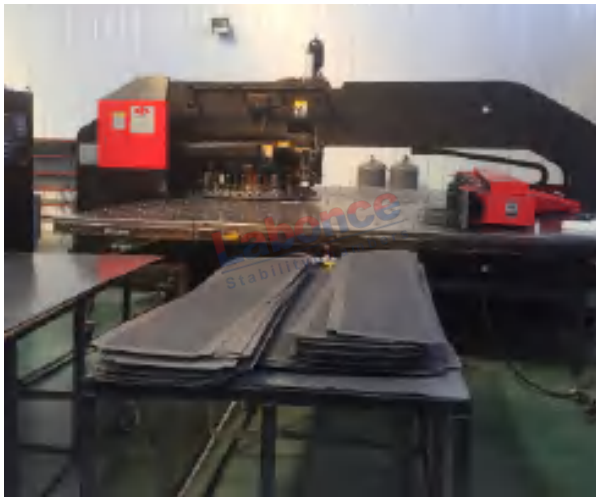




## Development history & Company performance







Group Member :

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Jiangsu XCH Biomedical Technology Co., Ltd.

Guangzhou Labonce Technology Co., Ltd

Chengdu Labonce Technology Co., Ltd

Jiangsu Labonce Instrument Co., Ltd

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