



- Oven /
- Vacuum Oven /
- Heating Incubator /
- Cooling Incubator /
- CO₂ Incubator /
- Temperature & Humidity Chamber /
- Shaker /
- Water Bath /
- Magnetic Stirrer /



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Version No:2021-03

BLUEPARD INSTRUMENTS CO.,LTD



LED Microprocessor Controller (with timing function)

Provided for desiccation, torrefaction, wax-melting and sterilization in mining industry, laboratories and scientific research institutes.

Features

- 304 stainless steel, mirror polishing processing, easy to clean and maintain.
- PID controller with over temperature alarm and timing function ensures precise and reliable control.
- Air circulation system with specific air flow channel ensures a good temperature uniformity performance.
- Silicon door gasket with long lifetime, and easy to change.
- A damper adjustment in the front ensures the gas convection enough in working chamber.

Option

- Independent over-temperature alarm system ensures experiments running safely.
- RS 485 connector can connect computer to save the data via software.



Specifications

Model	DHG-9013A	DHG-9030A	DHG-9053A	DHG-9070A	DHG-9140A	DHG-9240A	DHG-9420A	DHG-9620A	DHG-9920A
Electrical Requirement	220V 50Hz					380V 50Hz			
Temperature Range	RT+10°C ~250°C								
Display Resolution	0.1°C								
Temperature Stability	±1°C								
Temperature uniformity	±3% (at 100°C)								
Ambient Temperature	+5~40°C								
Power Consumption	500W	850W	1100W	1550W	2050W	2450W	3100W	4000W	5200W
Chamber Volume	16L	30L	50L	80L	136L	220L	420L	620L	1000L
Interior Dimension (WxDxH)mm	250x260x250	340x320x320	420x395x350	450x400x450	550x450x550	600x500x750	640x585x1355	840x600x1355	820x730x1600
Exterior Dimension (WxDxH)mm	530x370x420	620x440x490	720x530x520	740x530x630	840x580x730	880x630x930	780x730x1780	980x800x1880	1050x890x2070
Shelves	2(pcs)		2(pcs)	2(pcs)		3(pcs)	4(pcs)		
Timing Range	0~9999min								

Model	DHG-9015A DHG-9035A	DHG-9055A	DHG-9075A	DHG-9145A	DHG-9245A	DHG-9425A	DHG-9625A
Electrical Requirements	220V 50Hz					380V 50Hz	
Temperature Range	RT+10~300°C						
Display Resolution	0.1°C						
Temperature Stability	±1°C						
Temperature uniformity	±3% (at 100°C)						
Ambient Temperature	+5~40°C						
Power Consumption	850W	1100W	1550W	2050W	2450W	3100W	4000W
Chamber Volume	16L/30L	50L	80L	136L	220L	420L	620L
Internal Dimension (WxDxH)mm	250x260x250 340x320x320	420x395x350	450x400x450	550x450x550	600x500x750	640x585x1355	840x600x1355
External Dimension (WxDxH)mm	530x370x420 620x440x490	720x530x520	740x530x630	840x580x730	880x630x930	780x730x1780	980x800x1880
Shelves	2(pcs)	2(pcs)	2(pcs)	2(pcs)	2(pcs)	3(pcs)	4(pcs)
Timing Range	0~9999min						

LED Microprocessor Controller (with timing function)

Provided for desiccation, torrefaction, wax-melting and sterilization in mining industry, laboratories and scientific research institutes.

Features

- 304 stainless steel, mirror polishing processing, easy to clean and maintain.
- Natural convection with low noise.
- PID controller with over temperature alarm and timing function ensures precise and reliable control.

Option

- Independent over-temperature alarm system ensures experiments running safely.
- RS 485 connector can connect computer to save the data via software.



Specifications

Model	DHG-9031A	DHG-9051A	DHG-9091A	DHG-9141A	DHG-9201A
Electrical Requirement	AC220V 50Hz				
Temperature Range	RT+10 ~ 200°C				
Display Resolution	0.1°C				
Temperature Stability	±1°C				
Ambient Temperature	+5 ~ 35°C				
Power Consumption	850W	1000W	1400W	2000W	2200W
Chamber Volume	27L	54L	96L	140L	200L
Interior Dimension (WxDxH)mm	320x300x355	400x330x415	450x430x505	520x500x575	570x560x640
Exterior Dimension (WxDxH)mm	460x520x660	540x550x720	590x650x810	660x720x880	710x780x945
Shelves	2(pcs)			3(pcs)	

Options:

- Printer



- Independent temperature-limiting Alarm system



- RS485 connector



- Intelligent programmable temperature controller
- Test hole(φ 25mm or 50mm)

LCD Programmable controller (with timing function)

Features:

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Auto-controller of fan speed to prevent damage to the samples.
- Large LCD screen to display more data at same time.
- Self-check function easy to identify problems.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature.
- Programmable controller: 7 periods 63 steps, 0~5999min for each periods, fan speed 0 to 100% adjustable.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.
- RS485 connector can connect computer and printer to record the parameters and the variations of temperature.(Option)

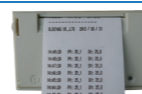


Specifications

Model	BPG-9040A	BPG-9070A	BPG-9140A	BPG-9240A	BPG-9420A
Electrical Requirement	220V 50HZ				
Controller	Programmable LCD display				
Power Consumption	850W	1100W	1550W	2050W	3000W
Temperature Range	RT+10~250°C				
Display Resolution	0.1°C				
Temperature Stability	±1°C				
Temperature Uniformity	±2.5%				
Shelves	2(PCS)		3(PCS)		
Interior Dimension(WxDxH)mm	350×300×400	400×320×550	500×380×750	600×450×900	1000×510×800
Exterior Dimension(WxDxH)mm	505×655×600	550×660×750	655×715×980	755×785×1130	1140×850×1080
Chamber Volume	40L	70L	142L	243L	400L
Timing Range	0~5999min				

Options:

- Printer



- RS485 connector



LCD Programmable controller (with timing function)

Provided for desiccation, torrefaction, wax-melting and sterilization in mining enterprises, laboratories and scientific research institutes.

Features:

- 304 stainless steel, mirror polishing processing, semicircular arcs at corners easy to clean and maintain. The space between the shelves in the chamber is adjustable.
- PID controller with over temperature alarm and timing function ensures precise and reliable control.
- Ceramic fiber door seal, which can run at high temperature for a long time and has a long service life.
- Programmable controller: 7 periods 63 steps, 0 ~5999mins for each period, can preset boot and shutdown time, adjustable circulating fan.
- Independent over-temperature alarm system ensures experiments running safely



Specifications

Model	BPG-9050AH BPG-9050BH	BPG-9100AH BPG-9100BH	BPG-9200AH BPG-9200BH	BPG-9760AH BPG-9760BH
Electrical Requirements	AC380V 50HZ			
Temperature Range	AH series: RT+20°C 400°C BH series: RT+20°C 500°C			
Display Resolution	0.1°C			
Temperature Stability	±0.5°C			
Ambient Temperature	+5~40°C			
Power Consumption	3250W 4050W	4050W 4900W	4900W 6050W	12750W 12750W
Chamber Volume	50L	90L	216L	760L
Internal Dimension (WxDxH)mm	350×350×400	450×450×450	600×600×600	980×1000×780
External Dimension (WxDxH)mm	890×700×920	990×790×990	1140×950×1140	1324×1263×1770
Shelves	2(pcs)			
Timing Range	0~5999min			

Options:

- Micro printer
- RS485 connector

LED Microprocessor Controller (with timing function)

Vacuum oven is designed especially for drying material which is thermosensitive, oxidative, decomposable easily. It can also work with inert gas to dry some compound material.

Features

- 304 stainless steel, mirror polishing processing, easy to clean and maintain.
- PID controller with over temperature alarm and timing function ensures precise and reliable control, also save more than 40% heating time.
- A big dual layer tempered glass on the door provides good observation.
- Door adjustment system with silicon door gasket ensures better vacuity.

Option

- KF25 Vacuum Port.
- LED lights on the door.
- Inert gas valve.

Specifications

Model	DZF-6012	DZF-6020 DZF-6022 DZF-6024	DZF-6050 DZF-6053 DZF-6055 DZF-6056	DZF-6030A DZF-6032 DZF-6034 (Special for chemistry)	DZF-6092 DZF-6094 DZF-6096	DZF-6123 DZF-6126	DZF-6213 DZF-6216	DZF-6030B DZF-6050B DZF-6055B (Special for biology)
Electrical Requirement	AC220V 50HZ							
Controller	LED display							
Power Consumption	400W	700W	1450W	550W 850W 850W	870W	1500W	1550W	300W 650W
Temperature Range	RT-10~200°C							RT-10~65°C
Display Resolution	0.1							
Temperature Stability	±1°C							
Vacuum Degree	133Pa							
Chamber Volume	10L	24L	50L	30L	90L	125L	216L	30L/50L
Ambient Temperature	+5~40°C							
Interior Dimension (WxDxH)mm	220x210x220	300x300x275	415x370x345	320x320x300	450x450x450	500x500x500	600x600x600	320x320x300 415x370x345
Exterior Dimension (WxDxH)mm	500x375x410	605x490x450	730x560x550	630x510x490	740x610x591	790x660x641	890x760x741	610x510x490 730x560x550
Shelves	2(pcs)	1(pcs) 2(pcs) 4(pcs)	2(pcs) 3(pcs) 5(pcs) 6(pcs)	1(pcs) 2(pcs) 4(pcs)	2(pcs) 4(pcs) 6(pcs)	3(pcs)-Independent temp. control 6(pcs)		1(pcs) 2(pcs) 5(pcs)
Chamber Material	304 Stainless steel			316 SS	304 Stainless steel			

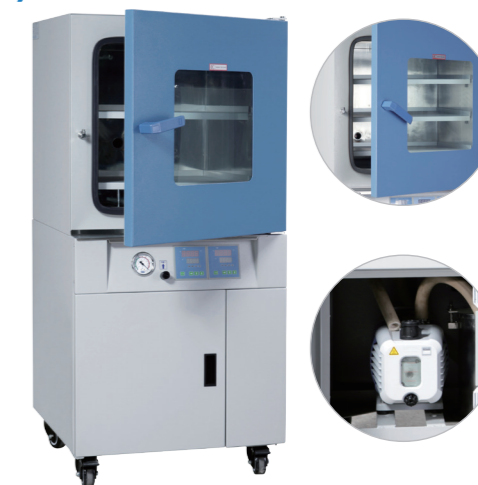


Microprocessor controller (with timing function)

Vacuum oven is designed especially for drying of material which is thermo-sensitive or decomposes and oxidizes easily. It can be filled with inert gases, which is especially for a rapid drying of some compound material.

Features:

- Microprocessor controller.
- Dual layer tempered glass door for clear observation.
- Minimum heating time 50% less than traditional vacuum oven.
- Interior chamber made from stainless steel with a mirror polished finish making for easy cleaning.
- Standard with vacuum pump.
- Direct heating and control by shelves: Each shelf has a separate temperature sensor, can be independently displayed and controlled temperature in setting, monitoring and timing, more accurate and stable(except model DZF-6216A & DZF-6094A).



Specifications (With Vacuum Pump)

Model	DZF-6930	DZF-6500	DZF-6210 DZF-6216A	DZF-6090 DZF-6094A
Electrical Requirement	AC380V 50HZ	AC380V 50HZ	AC220V 50HZ	AC220V 50HZ
Controller	LED display			
Power Consumption	5800W	3800W	2100W	1350W
Temperature Range	RT+10 ~ 200°C			
Display Resolution	0.1			
Temperature Stability	±1°C			
Vacuum Degree	133Pa			
Ambient Temperature	+5~40°C			
Chamber Volume	913L	431L	215L	90L
Interior Dimension (WxDxH) mm	750x1160x1050	630x810x845	560x600x640	450x450x450
Exterior Dimension (WxDxH) mm	1400x1395x2010	1000x1040x1855	720x820x1750	610x590x1350
Shelves	5pcs (Independent temp. control)	4pcs (Independent temp. control)	3pcs (Independent temp. control) 6pcs	2pcs (Independent temp. control) 4pcs
Chamber Material	304 Stainless steel			

Options

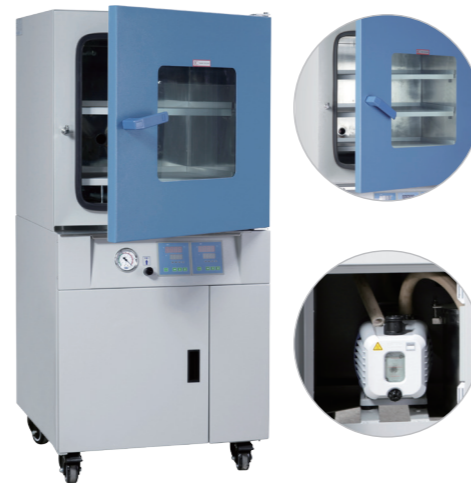
- LED lamp
- Inert gas valve
- Oil mist filter
- Intelligent programmable temperature controller(LCD)

Programmability controller (with timing function)

Vacuum oven is designed especially for drying of material which is thermo-sensitive or decomposes and oxidative easily. It can be filled with inert gases, which is especially for a rapid drying of some compound material.

Features:

- Microprocessor controller.
- Dual layer tempered glass door for clear observation.
- Minimum heating time 50% less than traditional vacuum oven.
- Interior chamber made from stainless steel with a mirror polished finish making for easy cleaning.
- Standard with vacuum pump.
- Provides programmability for 7 periods and 9 steps for each period making for a total of 63 programmable step.



Specifications (With Vacuum Pump)

Model	BPZ-6933B	BPZ-6503B	BPZ-6213	BPZ-6123	BPZ-6063	BPZ-6033
Electrical Requirement	AC380V 50HZ		AC220V 50HZ			
Controller	LCD Programmability controller					
Power Consumption	5600W	3800W	2100W	2050W	1800W	1200W
Temperature Range	RT+10 ~ 200°C					
Display Resolution	0.1					
Temperature Stability	±1°C					
Vacuum Degree	133Pa					
Ambient Temperature	+5~40°C					
Chamber Volume	913L	431L	197L	125L	63L	32L
Interior Dimension (WxDxH) mm	750x1160x1050	630x810x845	540x575x635	500x500x500	400x400x400	320x320x320
Exterior Dimension (WxDxH) mm	1400x1395x2010	790x1030x1855	720x740x1530	660x640x1400	600x570x1390	550x490x1240
Shelves	5pcs (Independent temp. control)	4pcs (Independent temp. control)	3pcs	3pcs	3pcs	2pcs
Chamber Material	304 Stainless steel					

Options

- LED lamp
- Oil mist filter
- Inert gas valve

Microprocessor controller (with timing function)

Vacuum degree Control:

Vacuum oven adopts the digital technique of simulated engineering to control vacuum degree.

The vacuum degree controlled by full-automatic electromagnetism valve which make the degree control more exact.

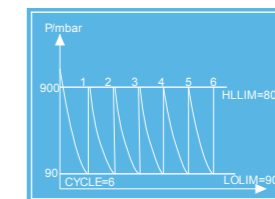
Vacuum control rang: 20Pa ~9999Pa

Vacuum display rang: 1Pa ~9999Pa

Vacuum accuracy: 1Pa

Features:

- Programmable vacuum cycle
- LCD vacuum degree window
- Suitable for drying thermo-sensitive material
- Shorter drying time for sample that does not dry easily
- Dual layer tempered glass door for clear observation
- Fully automatic electromagnetism controlled vacuum
- Minimum heating time 50% less than traditional vacuum oven



Specifications

Model	BPZ-6933LC (BPZ-6930LC)	BPZ-6503LC (BPZ-6500LC)	BPZ-6213LC (BPZ-6210LC)	BPZ-6123LC	BPZ-6093LC (BPZ-6090LC)	BPZ-6063LC	BPZ-6033LC
Electrical Requirement	AC380V 50HZ			AC220 50HZ			
Temperature Range	RT+10~200°C						
Display Resolution	0.1°C						
Temperature Stability	±1°C						
Vacuum Gauge	Digital Display						
Vacuum Degree	133Pa						
Vacuum Sensor	Resistance silicon tube pressure sensor						
Vacuum Control Range	10~10 ⁵ Pa						
Power Consumption	5600W	3800W	2100W	2050W	1350W	1800W	1200W
Interior Dimension (WxDxH, mm)	750x1160x1050	630x810x845	560x600x640	500x500x500	450x450x450	400x400x400	320x320x320
Exterior Dimension (WxDxH, mm)	1400x1395x2010	1000x1040x1855	720x820x1750	660x640x1400	610x590x1350	600x570x1390	550x490x1240
Shelves	5pcs (Independent temperature control)	4 pcs (Independent temperature control)	3 pcs (Independent temperature control)	3pcs	2pcs (Independent temperature control)	3pcs	2pcs
Chamber Material	304 Stainless steel (1Cr18Ni9Ti)						

Microprocessor Controller (with timing function)

Summary

Provided as a necessary equipment for scientific research to colleges as well as biological, agricultural and scientific research departments for storage of mould and biology cultivation.

Features





- Microprocessor controller (with timing function)
- With inner glass door for easy observation.
- Polished stainless-steel chamber.
- Independent temperature-limiting alarm system ensures experiments run safely.(Option)
- Printer connector and RS485 connector are options which can connect printer and computer to record the parameters and the variations of temperature.(Option)



Heating Incubator(Forced air)

Model	DHP-9012 DHP-9012B	DHP-9032 DHP-9032B	DHP-9052 DHP-9052B	DHP-9082 DHP-9082B	DHP-9162 DHP-9162B	DHP-9272 DHP-9272B	DHP-9402 DHP-9602 DHP-9902
Electrical Requirement	220V 50Hz						
Temperature Range	RT+5~65℃						
Display Resolution	0.1℃ /±0.5℃						
Ambient Temperature	+5~35℃						
Temperature Uniformity	±1.5℃ (at 37℃)						±1.5(at 37℃)
Power consumption	200W	200W	300W	400W	600W	750W	1100W/1400W/2200W
Chanber Volume	16L	35L	50L	80L	160L	270L	420L/620L/1000L
Interior Dimension (WxDxH)mm	250×260×250	340×320×320	415×360×355	500×400×400	500×500×650	600×600×750	640×585×1355 840×600×1355 1000×600×1600
Exterior Dimension (WxDxH)mm	530×480×420	620×490×490	690×500×500	780×530×560	790×630×810	890×740×910	780×750×1880 980×800×1880 1140×800×2150
Shelves(pcs)	2						3/4/4
Timing Range	0~5999min						
Remark	LCD display is marked with an "A"; model DHP-9012(B) with observation window and without inner glass door.						

Options:

- Printer 
- Independent temperature-limiting Alarm system 
- RS485 connector 
- UV Sterilizer 

LCD Programmable controller (with timing function)

Features:




- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Auto-controller of fan speed to prevent damage to the samples.
- Large LCD screen to display more data at same time.
- Self-check function easy to identify problems.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- Programmable controller: 7 periods 63 steps, 0 ~ 5999mins for each periods, fan speed 0 to 100% adjustable.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.
- RS485 connector can connect computer and printer to record the parameters and the variations of temperature.(Option)



Specifications

Model	BPH-9042	BPH-9082	BPH-9162	BPH-9272	BPH-9402
Electrical Requirement	220V 50HZ				
Controller	LCD Programmable controller				
Temperature Range	RT+5℃ ~80℃				
Display Resolution	0.1℃				
Temperature Stability	±0.2℃				
Temperature Uniformity	±1.5(at 37℃)				
Ambient Temperature	+5~35℃				
Power Consumption	250W	250W	500W	600W	1200W
Interior Dimension(WxDxH)mm	350×300×400	400×320×550	500×380×750	600×450×900	1000×510×800
Exterio Dimension(WxDxH)mm	505×635×600	550×660×750	655×715×980	755×785×1130	1140×850×1080
Shelves	2(pcs)				
Timing Range	0~5999min				
Remark	Model BPH-9042 without observation window				

Options:

- Printer 
- USB data collect
- RS485 connector 
- UV Sterilizer 

Technical Advantage Performance and Features

- Temperature Range: Amb+5°C ~65°C .
- P.I.D temperature controller provides accurate and reliable temperature control.
- Natural convection heating allows the sample temperature to be uniform, suitable for sterilization, powder drying and high temperature storage.
- Extended Life Silicone Rubber Gasket provides excellent sealing and long service life, but is easily replaced when the time for replacement is needed.

Convenience

- Volume(10L~210L).
- Inner chamber is made from corrosion-resistant mirror stainless steel.
- Round curved inner angle is easy to clean.
- Anti-skid shelf design, easy to operate by single hand.

Safety

- Auto Start Feature after power loss/return.
- Temperature deviation alarm.
- Over current protection alarm.
- Independent Over-temperature protection meets DIN 12880 International standard requirements provides you double protection.(Option)



Specifications

Model	DHP-9011	DHP-9031	DHP-9051	DHP-9121	DHP-9211
Electrical Requirement	220V 50Hz				
Temperature Range	Amb+5~65°C				
Display Resolution	0.1°C				
Ambient Temperature	+5~35°C				
Power Consumption	85W	125 W	250 W	550W	900W
Inner glass door	None		Has		
Viewing window	Has		None		
Chamber Volume	10L	30L	55L	113L	210L
Interior Dimension (WxDxH ,mm)	250x200x200	320x300x320	400x410x360	520x450x485	650x500x650
Exterior Dimension (WxDxH, mm)	460x300x330	530x400x450	640x550x510	785x588x715	915x658x870
Shelves	2PCS			3PCS	

Options:

- Intelligent programmable temperature controller

- Independent temperature-limiting Alarm system



- RS485 connector



LED/LCD Microprocessor Controller (with timing function)

The cooling incubator is ideal for every application in microbiological field. The range of temperature allows the growth of microorganisms in every environmental situation.

Features

- 304 stainless steel, mirror polishing processing, easy to clean and maintain.
- PID controller with over temperature alarm and timing function ensures precise and reliable control, also guarantee an excellent control by microprocessor and the limited number of setting keys ensures an extremely simple and intuitive operability.
- The inner lamp for observation of the samples is standard supplied.
- 3 fan speed meets all requirements of different experiments.
- Famous brand compressor with refrigerant R134a.

Option

- Independent over-temperature alarm system ensures experiments running safely.
- RS 485 connector can connect computer to save the data via software.
- A side through-hole diameter of 25 mm in order to install one or more temperature sensors inside the chamber.



Specifications

Model	LRH-70 LRH-70F	LRH-150 LRH-150F	LRH-250 LRH-250F	LRH-500F	LRH-800F	LRH-1000F	LRH-1500F
Temperature Range	0~60°C						
Display Resolution	0.1°C						
Temperature Stability	HIGH±0.5°C			LOW±1.0°C			
Temperature Uniformity	±1.5°C			±2.5°C			
Electrical Requirement	220V 50Hz						380V 50Hz
Ambient Temperature	+5°C ~30°C						
Power consumption	450W	500W	600W	2100W	4100W	4100W	5000W
Chamber Volume	70L	150L	248L	492L	778L	1000L	1500L
Interior Dimension (WxDxH)mm	400x350x500	503x470x808	540x460x1000	670x720x1020	800x590x1650	1050x590x1650	1550x590x1650
External Dimension (WxDxH)mm	530x560x1080	600x630x1360	637x662x1590	850x1100x1930	1475x890x1780	1410x890x1950	2110x890x2050
Shelves	2(pcs)	3(pcs)					
Timing Range	0~5999min						
Remark	"F" model is with LCD display LRH-1000F, LRH-1500F is standard with two doors						

※ Specification test under non-load condition: ambient temperature is 20°C, and relative humidity is 50%.

LCD Programmable controller (with timing function)

Features:

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Latest PID LCD Programmable controller: 7 periods 63 steps, 0 to 5999mins for each periods, fan speed 0 to 100% adjustable.
- Independent temperature-limiting alarm system ensures experiments run safely.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- Using environmentally friendly R134a refrigerant, fast cooling speed, saving energy and protecting environment. Auto-controller of fan speed to prevent damage to the samples.
- Shaker can be put inside BEING incubator to function as shaking incubator.
- Printer connector and RS485 connector are options which can connect printer and computer to record the parameters and the variations of temperature. (Option)

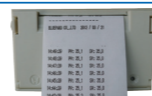


Specifications

Model	BPC-70F	BPC-150F	BPC-250F	BPC-500F
Controller	LCD Programmable controller			
Temperature Range	-5~70°C			
Display Resolution	0.1°C			
Temperature Stability	HIGH±0.3°C LOW±0.5°C			
Temperature Uniformity	±1.5°C (at 25°C)			
Electrical Requirement	220V 50Hz			
Ambient Temperature	+5~35°C			
Power consumption	650W	850W	1300W	2250W
Chamber Volume	70L	150L	250L	495L
Interior Dimension(WxDxH)mm	400x440x500	500x460x800	520x550x1050	670x725x1020
Shelves	2(pcs)	3(pcs)		
Timing Range	1~5999min			

Options:

- Printer
- USB data collect



- BOD socket
- UV Sterilizer



- RS485 connector



Microprocessor control

Summary:

Serve for preserve culture medium, serum, medicine as well as microorganism training and environmental testing etc.

Features:

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Latest PID controller
- R134a refrigerant, imported compressor
- Independent temperature-limiting alarm system ensures experiments run safely. (Option)
- Printer connector and RS485 connector are options which can connect printer and computer to record the parameters and the variations of temperature. (Option)
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.



Specifications

Model	LRH-50CL LRH-50CA LRH-50CB	LRH-100CL LRH-100CA LRH-100CB	LRH-150CL LRH-150CA LRH-150CB	LRH-250CL LRH-250CA LRH-250CB	LRH-500CL LRH-500CA LRH-500CB
Temperature Range	CL: -10°C ~65°C		CA: -20°C ~65°C	CB: -40°C ~65°C	
Display Resolution	0.1°C				
Temperature Stability	High:±0.5°C Low:±1°C				
Electrical Requirement	220V 50Hz	CL/CA: 220V 50Hz		CB: 380V 50Hz	
Ambient Temperature	+5°C ~35°C				
Power consumption	1100W 1100W 2800W	1100W 1200W 4100W	1300W 1300W 5100W	1500W 1600W 6100W	2250W 2550W 7100W
Interior Dimension(WxDxH)mm	400x300x420 400x300x420 400x380x450	500x400x600 500x400x600 500x400x600	550x405x670 550x405x670 550x430x670	600x500x830 600x500x830 600x600x700	670x720x1020 670x720x1020 800x700x900
Exterior Dimension(WxDxH)mm	660x720x930 660x720x930 650x1040x1650	650x770x1320 650x770x1320 700x1040x1750	690x800x1410 690x800x1410 750x1040x1810	740x900x1580 740x900x1580 800x1160x1850	850x1100x1930 850x1100x1930 1000x1204x1985
Shelves	2(pcs)	3(pcs)			
Timing Range	0~9999min				

Options:

- Printer



- Independent temperature-limiting Alarm system
- BOD socket



- RS485 connector



- UV Sterilizer



With Imported Infrared CO₂ Sensor

Features

- Touch screen controller, 72-hour machine operation record query function to help user tracking abnormal conditions and trace historical operation information.
- Faster CO₂ concentration Restoration Speed.
- Infrared sensor can keep CO₂ concentration stability and uniformity when door open frequently.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning(except water-jacketed type) , and the space between the shelves in the chamber is adjustable.
- Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm) and supplies pure CO₂ into the incubator.
- Door temperature controller prevents dewfall on glass door of incubator effectively.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.
- Alarm function for temperature difference, CO₂ over concentration and concentration difference, door open time, UV working status.
- Auto-controller of fan speed to prevent damage to the samples.
- 90°C high temperature and humidity streilization function.(RHP series)

Options

- RS485 Connector: easy to download and save all the data via RS-485 into computer, and identify problems in time.
- High effective filter provides filtration of bacteria and dust.
- CO₂ pressure releasing valve.
- Humidity display system.
- Printer(Nested).
- Temperature-limiting alarm system.



touch screen

Specifications

Model	BPN-40RHP	BPN-80RHP	BPN-150RHP	BPN-190RHP	BPN-240RHP	BPN-60RWP	BPN-170RWP	BPN-240RWP
Electrical Requirement	220V 50Hz							
Screen	7" Touch screen							
Power Consumption	350W	500W	700W	750W	1000W	500W	700W	1000W
Heating Method	Air-jacketed, PID Control				Water-jacketed, PID Control			
Temperature Range	RT+5~50°C							
Ambient Temperature	+5~30°C							
Temperature Stability	±0.1°C							
CO ₂ Range	0~ 20% V/V							
CO ₂ Control Resolution	±0.1%(IR sensor)							
CO ₂ Recovery	(Door open 30s,recovery to 5%) ≤ 3min							
Temperature Recovery	(Door open 30s,recovery to 37°C) ≤ 8min							
Humidity Method	Natural vaporization ≥ 90%							
Chamber Volume	40L	80L	150L	190L	240L	60L	170L	240L
Interior Dimension (W×D×H)mm	400×286×350	400×450×500	480×530×610	520×530×690	600×630×670	380×290×550	530×460×720	600×520×780
Exterior Dimension (W×D×H)mm	590×440×576	590×687×790	670×770×880	708×710×1030	790×840×940	534×530×790	684×700×960	754×760×1020
Shelves	2(pcs)		3(pcs)			2(pcs)		3(pcs)
Sterilization method	18hrs (90°C moist heat disinfection)					UV Sterilizer		

With Imported Infrared CO₂ Sensor

Features

- Faster CO₂ concentration Restoration Speed.
- Imported Infrared sensor can keep CO₂ concentration stability and uniformity when door open frequently.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Microorganism filter at inlet provides 99.99% filtration of bacteria and dust (Φ<0.3μm) and supplies pure CO₂ into the incubator.
- Door temperature controller prevents dewfall on glass door of incubator effectively.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.
- Alarm function for temperature difference, CO₂ over concentration and concentration difference,door open time, UV working status.
- Auto-controller of fan speed to prevent damage to the samples.
- UV light system for periodic sterilization of chamber.
- PID controller with LCD screen ensures precise and reliable control.
- Two-layer stacking available.

Options

- RS485 Connector: Easy to download and save all the data via RS485 into computer, and identify problems in time.
- High effective filter provides filtration of bacteria and dust.
- CO₂ pressure releasing valve.
- Humidity display system.



shelf

fan

Specifications

Model	BPN-40CRH	BPN-80CRH(UV)	BPN-150CRH(UV)	BPN-240CRH(UV)
Chamber Volume	40L	80L	150L	240L
Temperature Range	Ambient+5°C ~50°C			
Electrical Requirement	220V 50Hz			
Power Consumption	350W	500W	750W	950W
Ambient Temperature	+5~30°C			
Heating Method	Air-jacketed, PID Control			
Temperature Resolution	0.1			
Temperature Stability	±0.1°C			
Temperature uniformity(37°C)	±0.3°C			
CO ₂ Range	0~ 20% V/V			
CO ₂ Control Resolution	±0.1%(IR sensor)			
CO ₂ Recovery	(Door open 30s,recovery to 5%) ≤ 3min			
Temperature Recovery	(Door open 30s,recovery to 37°C) ≤ 8min			
Humidity Method	Natural vaporization ≥ 90%			
Shelves	2(pcs)		3(pcs)	
Interior Dimension (W×H×D)mm	400×286×350	400×450×500	480×530×610	600×630×670
Exterior Dimension(W×H×D)mm	590×440×576	590×687×790	670×767×880	788×837×940
Sterilization method	18hrs (90°C moist heat disinfection)			

With Infrared CO₂ Sensor

Features

- Faster CO₂ concentration Restoration Speed.
- Infrared sensor can keep CO₂ concentration stability and uniformity when door open frequently.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning(except water-jacketed type), and the space between the shelves in the chamber is adjustable.
- Microorganism filter at inlet provides 99.99% filtration of bacteria and dust ($\Phi < 0.3\mu\text{m}$) and supplies pure CO₂ into the incubator.
- Door temperature controller prevents dewfall on glass door of incubator effectively.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.(Option)
- Alarm function for temperature difference, CO₂ over concentration and concentration difference, door open time, UV working status.
- Auto-controller of fan speed to prevent damage to the samples.
- UV light system for periodic sterilization of chamber.
- PID controller with LCD screen ensures precise and reliable control.
- Two-layer stacking available.

Options

- RS-485 Connector: easy to download and save all the data via RS-485 into computer, and identify problems in time.
- High effective filter provides filtration of bacteria and dust.
- CO₂ pressure releasing valve
- Humidity display system
- Printer(Nested)
- Temperature-limiting alarm system
- Cooling system

Specifications

Model	BPN-50CH(UV) BPN-80CH(UV)	BPN-150CH(UV) BPN-190CH(UV)	BPN-240CH(UV)	BPN-30CW(UV) BPN-80CW(UV)	BPN-150CW(UV)
Electrical Requirement	220V 50Hz				
Power Consumption	450W/500W	750W	750W	250W/680W	950W
Heating Method	Air-jacketed, PID Control			Water-jacketed, PID Control	
Temperature Range	RT+5~50°C				
Ambient Temperature	+5~30°C				
Temperature Stability	±0.2°C			±0.1°C	
CO ₂ Range	0~ 20% V/V				
CO ₂ Control Resolution	±0.1%(IR sensor)				
CO ₂ Recovery	(Door open 30s,recovery to 5%) ≤ 3min				
Temperature Recovery	(Door open 30s,recovery to 37°C) ≤ 8min				
Humidity Method	Natural vaporization ≥ 90%				
Chamber Volume	50L/80L	150L/190L	240L	26L/80L	150L
Interior Dimension(WxDxH)mm	400×350×350 400×450×500	480×530×610 520×530×690	600×630×670	290×290×310 400×400×500	500×500×650
Exterior Dimension(WxDxH)mm	580×450×540 590×657×870	670×710×950 708×710×1030	788×837×940	440×410×544 550×520×764	650×615×914
Shelves	2(pcs)	2(pcs)	3(pcs)	2(pcs)	3(pcs)
Sterilization method	UV Sterilizer				



Microprocessor controller (with timing function)

Summary:

Widely applicable for researches on bacteria cultivation, fermentation, hybridization, chemical and biochemical reaction.

Features:

- Microprocessor PID controller, with timing function.
- Stainless-steel or alnico plate, non-eroding and easy clean.
- DC Brushless motor with long using life, wide speed control with long using life, wide speed control.
- The alarm will get off when the real shaking speed is 10% different with setting value, and motor will stop automatically.
- Speed controller ensures smooth start /stop which can prevent the liquid spill to damage the equipment.
- HZQ-50H and HZQ-120H are with heating plate function.
- HZQ-50H and HZQ-120H are with LCD screen, programmable controller. (18periods with temperature, speed and timing)
- HZQ-50H and HZQ-120H are with over-temperature alarm.



Specifications

Model	WSZ-10A(HZQ-10A) WSZ-20A(HZQ-20A)	WSZ-50A(HZQ-50A) WSZ-100B WSZ-100A(HZQ-100A) WSZ-200A(HZQ-200A)	HZQ-50H HZQ-120H
Electrical Requirement	220V 50Hz		
Shaking Speed Range	50~250r/min	40~300r/min	40~250r/min
Amplitude	10mm/20mm	10mm/20mm/20mm	20mm
Temperature Range	-	-	RT+5~100°C
Display Resolution	-	-	0.1°C
Power Consumption	60W	60W	350W 400W
Platform Size(mm)	280×270	350×260 350×350 400×340 450×450	350×260 380×340
Platform optional	Universal platform or Spring wire racks(Default)		Spring wire racks
Timing Range	0~5999min		

Microprocessor controller (with timing function)

Summary:

Widely applicable for researches on bacteria cultivation, fermentation, hybridization, chemical and biochemical reaction, enzymes and tissues research, which have a high requirement on precision of shaking speed and temperature.

Features:

- Large LCD screen to display more data at same time.
- Stainless-steel chamber and platform, easy to clean.
- Big observation windows.
- Microprocessor controller for temperature and shaking speed with timing function.
- Self-check function easy to identify problems.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Safety door switch, auto pause operation when door is opened.
- R134a refrigerant, imported compressor and fan motor.
- High effective filter provides filtration of bacteria and dust.
- Temperature-limiting alarm system, auto switch off when over-temperature.
- RS485 connector can connect computer record and inspect the parameters and the variations of temperature. (option)
- Maintenance-free DC Brushless motor, easy to clean.



Specifications

Model	THZ-103B	THZ-100 (THZ-98B)	THZ-300	THZ-300C
Electrical Requirement	220V 50Hz			
Shaking Speed Range	40~250r/min	40~300r/min		
Amplitude	20mm			
Temperature Range	RT+5~65℃			4~65℃ (Ambient temp-20℃)
Display Resolution	0.1℃			
Power Consumption	450W	650W	1000W	1300W
Platform Size	280x280	350x350	450x450	
Default Platform	Spring wire racks			
Timing Range	0~5999min			

Platform used for flask clamp and tube holder. Maximum of flask clamp (Monolayer)

Model	WSZ-10A WSZ-20A	WSZ-50A WSZ-50H	WSZ-100A	WSZ-200A	HZQ-X100A	THZ-103B	THZ-100 THZ-100B	THZ-300 THZ-300C	
Flask(pc)	50ml	-	-	29	42	37	9	24	42
	100ml	12	12	18	28	22	9	15	28
	250ml	6	6	11	12	14	5	8	12
	500ml	-	-	7	11	10	-	7	11
	1000ml	-	-	4	8	-	-	4	8
	2000ml	-	-	3	4	-	-	2	4

Options:

- Programmable Temperature Controller
- Controller board and printer(Nested)
- Independent temperature-limiting alarm
- RS485 connector and software

LCD Microprocessor Controller (with timing function)

Features

- Large LCD screen to display more data at same time.
- R134a refrigerant, imported compressor and fan motor.
- Big observation windows.
- 304 Stainless steel chamber and platform, easy to clean.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- The parameters can be automatically stored in case of power failure, and it will continue run as presetting program after turn on.
- Microprocessor PID controller for temperature and shaking speed with timing function.

Safety

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.

Option

- Temperature-limiting alarm system, auto switch off when over-temperature.
- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.



Specifications

Model	THZ-98A(Monolayer) THZ-98AB (Double-deck)	HZQ-X300 (Double-deck)	HZQ-F160A (Monolayer)	THZ-98C (Double- deck)	HZQ-X300C (Double-deck)
Electrical Requirement	220V 50Hz				
Shaking Speed Range	40~300r/min				
Amplitude	20mm				
Temperature Range	RT+5~65℃		4~65℃		
Display Resolution	0.1℃				
Power Consumption	750W	1100W	950W	950W	1300W
Platform Size(mm)	400x340	500x350	400x300	400x340	500x350
Exterior Dimension (WxDxH)mm	635x714x1055	725x720x1150	635x714x1055	635x714x1055	725x720x1150
Timing Range	0~5999min				

Platform used for flask clamp and tube holder. Maximum of flask clamp (Monolayer)

Model	THZ-98A	THZ-98AB THZ-98C	HZQ-X300 HZX-X300C	HZQ-F160A
Flask(pc)	50ml	29	29	29
	100ml	18	18	18
	250ml	11	11	11
	500ml	7	7	7
	1000ml	4	4	4
	2000ml	-	-	3

LCD Microprocessor Controller (with timing function)

Features

- Large LCD screen to display more data at same time.
- R134a refrigerant, imported compressor and fan motor.
- Big observation windows.
- 304 Stainless steel chamber and platform, easy to clean.
- The parameters can be automatically stored in case of power failure, and it will continue run as presetting program after turn on.
- Microprocessor PID controller for temperature and shaking speed with timing function.

Safety

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.

Option

- Temperature-limiting alarm system, auto switch off when over-temperature.
- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.
- Printer(Nested).



Colorful intelligent touch screen

Specifications

Model	HZQ-211	HZQ-311	HZQ-211C	HZQ-311C
Electrical Requirement	220V 50Hz			
ShakingSpeed Range	40~300r/min			
Amplitude	26mm			
Temperature Range	RT+5~65°C		4~65°C	
Display Resolution	0.1°C			
Power Consumption	1050W		1300W	
Platform Size(mm)	750x460	920x500	750x460	920x500
External Dimension (WxHxD)mm	1080x620x915	1250x660x915	1080x620x915	1250x660x915
Timing Range	0~5999min			

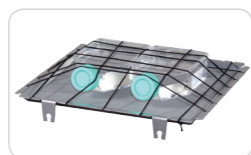
Options



Spring wire rack



Universal attachment



Cell culture spring rack



Individual clamps



Rubber mat

LCD Microprocessor Controller (with timing function)

It is widely used in cell culture, fermentation, hybridization, biochemistry, and cell organization studies that require for temperature and shaking frequencies. It can be used for the movement and static cultivation of microbial cells and all kinds of bacteria, and applications in the field of laboratory, analytical and process equipment.

Features

- Large LCD screen to display more data at same time.
- R134a refrigerant, imported compressor and fan motor.
- Big observation windows.
- 304 Stainless steel chamber and platform, easy to clean.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- The parameters can be automatically stored in case of power failure, and it will continue run as presetting program after turn on.
- Microprocessor PID controller for temperature and shaking speed with timing function.

Safety

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.

Option

- Temperature-limiting alarm system, auto switch off when over-temperature.
- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.
- Printer(Nested).



Specifications

Model	HZQ-X500 Double-deck	HZQ-X700 Double-deck	HZQ-X500C Double-deck	HZQ-X700C Double-deck
Electrical Requirement	220V 50H			
Shaking Speed Range	40~300r/min			
Amplitude	26mm			
Temperature Range	RT+5~65°C		4~65°C	
Display Resolution	0.1°C			
Timing Range	0~5999min			
Power Consumption	1900W	1900W	2250W	2250W
Platform Size(mm)	750x460x2pcs	920x500x2pcs	750x460x2pcs	920x500x2pcs

Platform used for flask clamp and tube holder. Maximum of flask clamp (Monolayer)

Model	HZQ-X500 HZQ-X500C	HZQ-X700 HZQ-X700C	HZQ-211 HZQ-211C	HZQ-311 HZQ-311C
Flask(pc)	50ml	116	82	116
	100ml	66	50	66
	250ml	45	28	45
	500ml	28	23	28
	1000ml	18	15	18
	2000ml	-	10	8

Microprocessor controller (with timing function)

Summary:

It is equipped with a precise system of temperature and humidity control, which provide various necessary environmental simulative conditions for industrial researches and biotechnology tests. Widely applied in sterile tests and stability check-up of pharmaceuticals, textile and food processing as well as tests in material, performance, packing and lifetime of industrial products.

Features:

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Microprocessor controller for temperature and humidity ensures of precise and reliable control.
- Imported compressor.
- Independent temperature-limiting alarm system ensures experiments run safely.
- Printer connector and RS485 connector are options which can connect printer and computer to record the parameters and the variations of temperature.(option)
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.





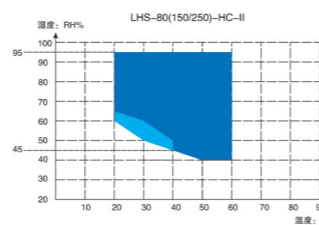
Specifications

Model	LHS-80HC-I LHS-80HC-II	LHS-150HC-I LHS-150HC-II	LHS-250HC-I LHS-250HC-II	LHS-500HC-I LHS-500HC-II	LHS-800HC-I LHS-800HC-II
Temperature Range	I:-5~80°C II:-10~70°C				
Display Resolution	0.1°C				
Temperature Stability	High ±0.5°C Low ±1°C				
Temperature Uniformity	±2°C				
Humidity Range	I:40~85% II:40~95%				
Humidity Accuracy	±3%RH				
Power Consumption	2000W	2100W	2300W	3850W	8050W
Ambient Temperature	+5~35°C				
Electrical Requirement	220V 50Hz				
Interior Dimension(WxDxH,mm)	400x400x500	550x405x670	600x500x830	670x720x1020	800x590x1650
Exterior Dimension(WxDxH,mm)	550x790x1080	690x800x1430	740x900x1580	850x1100x1930	1360x890x2000
Shelves	2PCS	3PCS		4PCS	

* With model "I" optional printer with model "II" standard printer

Options:

- Printer 
- Independent temperature-limiting Alarm system 



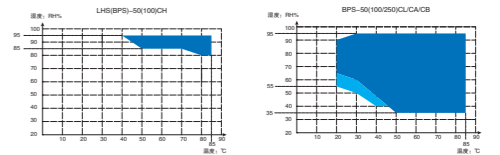
Touch Screen Humidity Chamber

Features

- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the height between the shelves in the chamber are adjustable.
- Homogeneity air circulating system.
- With temperature and humidity sensor.
- With programmable controller, large LCD screen.
- R134A refrigerant, With compressor and fan motor.
- A 25mm validation port on side of the chamber for easy testing operation and temperature validation.
- Over temperature and temperature deviation alarms.
- Compressor over-heat and over-load protections, fan motor over-heat and water-lack protections.
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely.

Options

- Micro printer
- Independent temperature limiting alarm system.
- RS485 connector can connect computer to record and print the parameters and the variations of temperature.



Specifications

Model	BPS-50CH BPS-100CH BPS-250CH	BPS-50CL BPS-50CA BPS-50CB	BPS-100CL BPS-100CA BPS-100CB	BPS-250CL BPS-250CA BPS-250CB	BPS-500CL BPS-500CA BPS-500CB	BPS-800CL BPS-800CA	BPS-1000CL BPS-1000CA
Temperature control range	RT+10~85°C	L:-10~100°C A:-20~100°C B:-40~100°C					
Temperature resolution	0.1°C						
Temperature Stability	±1.0°C	High temp:±0.5°C Low temp:±1°C					
Humidity control range	80~95%RH	35~95%RH					
Humidity Accuracy	±3%RH						
Power Consumption	1450W 1650W 2050W	1700W 2250W 2650W	1900W 2300W 7050W	2300W 2700W 7100W	3850W 4150W 7850W	8050W 8050W	8050W 8050W
Ambient Temperature	+5~30°C						
Electrical Requirement	220V 50HZ		220V 50HZ 220V 50HZ 380V 50HZ			380V 50Hz	380V 50Hz
Interior Dimension (WxDxH,mm)	350x300x500 500x400x550 600x500x820	350x300x500	500x400x600	600x500x820	670x720x1020	800x590x1650	1050x590x1650
Exterior Dimension (WxDxH,mm)	720x620x725 650x800x1310 750x900x1580	720x620x725	700x1040x1750	750x900x1580	850x1100x1930	1475x890x1780	1700x890x1950
Shelves	2PCS	2PCS	2PCS	3PCS	3PCS	3PCS	3PCS

Microprocessor controller (with timing function)

Features

- Microprocessor control, stainless steel chamber, semicircular arcs at corners for easy cleaning
- Even air circulating system
- R134a refrigerant, 2 imported compressors and fan motor
- Over temperature and temperature difference alarms
- Imported humidity sensor which can be used in high humidity environment
- Balance temperature and humidity adjusting system
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- UV light system for periodic sterilization of chamber.(Option)
- Independent audible and visible temperature-limiting alarm system ensures experiments run safely. (Option)
- RS485 connector can connect computer record and inspect the parameters and the variations of temperature.(Option)

Programmable Touch Screen

- Large LCD screen to display more data at same time
- English operation menu, display current data curves
- 100 groups with 1000 periods 999 circulations, max timing for each period is 99 hours 59 minutes.
- Auto lock after setting data.
- Available to programe on computer via RS-484 or RS-232

Safety device:

- Compressor over-heat protection
- Fan over-heat protection
- Over-temperature alarm system
- Over-compressing protection
- Over-load protection
- Water lack protection
- With temperature & Humidity
Model: LHH-150SDP/LHH-250SDP/LHH-500SDP
- With temperature , Humidity & Light
Model: LHH-150GSP/LHH-250GSP, LHH-SSG
- With temperature & Light
Model: LHH-150GP/LHH-250GP

Storage conditions for long-term retention sample stability test

Temperature: +25°C ±2°C
Humidity: 60±5%RH
Time: 12 months

Storage conditions for accelerated stability test

Temperature: +40°C ±2°C
Humidity: 70±5%RH
Time: 6 months
Illumination under strong light conditions: 4500±500LX
Above related parameter is for reference only.



SD/GSD Series



SDP series



GP series



GSP series

Top illuminator

Specifications

Model	LHH-80SD LHH-150SD LHH-250SD	LHH-80SDP LHH-150SDP LHH-250SDP	LHH-150GSD LHH-250GSD	LHH-150GSP LHH-250GSP	LHH-150GP LHH-250GP LHH-400GP
Temperature control range	0~65°C		0~65°C without illumination 10~50°C with illumination		
Temperature Stability	±0.5°C				
Temperature Uniformity	±2°C				
Humidity Rang	35~95%RH				/
Humidity Stability	±3%RH				/
Illumination	/	/	0~6000LX adjustable		
Illumination difference	/	/	≤±500LX		
Timing Rang	1~99 hours each period				
Humidity and temp adjusting	Balance temperature and humidity adjusting			Balance temperature adjusting	
Cooling system/cooling mode	Two sets of imported compressor work rotationally (LHH-80SDP only one set)				
Controller	Programmable (LCD screen)	Programmable (touch screen)	Programmable (LCD screen)	Programmable (touch screen)	Programmable (LCD screen)
Sensor	Temp: Pt100, Humidity: capacitance sensor				Temp: Pt100
Ambient Temperature	RT+5~30°C				
Electrical Requirement	AC220V 50Hz				
Power Consumption	2000W/2100W/2300W	2000W/2100W/2300W	2250W/2500W	2250W/2500W	1450W/1700W/3200W
Chamber Volume	80L/150L/250L	80L/150L/250L	150L/250L	150L/250L	150L/250L/400L
Interior Dimension (W×D×H)mm	400×400×500 550×405×670 600×500×830	400×400×500 550×405×670 600×500×830	550×405×670 600×500×830	550×405×670 600×500×830	550×405×670 600×500×830 700×550×1140
External Dimension (W×D×H)mm	550×790×1080 690×805×1530 740×890×1680	550×790×1080 690×805×1530 740×890×1680	690×805×1530 740×890×1680	690×805×1530 740×890×1680	690×805×1530 740×890×1680 950×850×1850
Shelves	2/3/3(pcs)	2/3/3(pcs)	3/3(pcs)	3/3(pcs)	3/3/4(pcs)
Safety Device	Compressor overheating and overpressure protection, Fan overheating protection Over temperature protection, Overload protection, Water protections				
Remark	1. Bulid in mini printer. 2. Paperless recorder (Option). 3. GP/GSD/GSP series products have installed intensity of illumination detector. 4. GP/GSD/GSP series products have installed intensity of illumination detector.				



LHH-500 series
LHH-800 series



LHH-1000 series
LHH-1500 series

Specifications

Model	LHH-500SD LHH-500SDP	LHH-800SD LHH-800SDP	LHH-1000SD LHH-1000SDP	LHH-1500SD LHH-1500SDP	LHH-500GSD LHH-500GSP	LHH-800GSD LHH-800GSP	LHH-1000GSD LHH-1000GSP LHH-1500GSP
Temperature control range	0~65℃				0~65℃ without illumination 10~50℃ with illumination		
Temperature Stability	±0.5℃						
Temperature uniformity	±2℃						
Humidity Rang	35~95%RH						
Humidity Stability	±3%RH						
Illumination	/				0~6000LX adjustable		
Illumination difference	/				≤±500LX		
Cooling system cooling mode	Two sets of imported compressor work rotationally						
Controller	Programmable (touch screen)						
Sensor	Temp: Pt100, Humidity: capacitance sensor						
Ambient Temperature	RT+5~30℃						
Electrical Requirement	AC220V 50Hz	AC380V 50Hz			AC220V 50Hz	AC380V 50Hz	
Power Consumption	3750W	7150W	7150W	10600W	3910W	7350W	7350W 10800W
Chamber Volume	500L	800L	1000L	1500L	500L	800L	1000L/1500L
Interior Dimension (WxDxH)mm	670×725×1020	800×590×1650	1050×590×1650	1550×590×1650	670×725×1020	800×590×1650	1050×590×1650 1550×590×1650
External Dimension (WxDxH)mm	850×1100×1930	1360×890×2000	1610×890×2000	2110×890×2000	850×1100×1930	1360×890×2000	1610×890×2000 2110×890×2000
Shelves	4(pcs)						
Safety Device	Compressor overheating and overpressure protection, Fan overheating protection Over temperature protection, Overload protection, Water protections						
Remark	1. Bulid in mini printer 2. Paperless recorder (Option). 3. GP/GSD/GSP series products have installed intensity of illumination detector. 4. GSD/GSP series products have 2 layers of light control (Option). 5. 1000L and 1500L are double doors						

Microprocessor controller (with timing function)

Summary

- Widely applied in cultivation of biological histolytic, seed gemmating, breeding test, plant cultivation and feeding of insects and beasts. The incubators can simulate different climatic conditions accurately.

Features:

- Microprocessor controller for temperature and humidity ensures of precise and reliable control.
- Simulate changing temperature and light in day/night
- Independent temperature-limiting alarm system ensures experiments run safely.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- Even air circulation
- Imported compressor
- RS485 connector is option which can connect computer to record the parameters and the variations of temperature.(option)



Specifications

Parameter	Model	Without humidity control				With humidity control		
		MGC-300A	MGC-300B MGC-350BP	MGC-400B MGC-450BP	MGC-800B MGC-800BP	MGC-300H MGC-350HP	MGC-400H MGC-450HP	MGC-800H MGC-850HP
Chamber Volume		300L	300L	450L	800L	300L	450L	800L
Electrical Requirement		220V 50HZ			380V 50HZ	220V 50HZ		380V 50HZ
Power Consumption		1200W	1450W	2000W	3650W	1500W	2050W	4100W 3700W
Temperature Range		With Lighting: 10~50℃				Without lighting: 4~50℃		
Display Resolution		0.1℃						
Temperature Stability		±1℃						
Temperature Uniformity		±2℃						
Ambient Temperature		+5~30℃						
Humidity Range		-				50~90%RH		
Humidity Accuracy		-				±5~7%RH		
Continuous Working Time		No less than 180h				No less than 180h		
Lighting Intensity		0~15000LX Six-grade adjustable	0~20000LX Six-grade adjustable	0~25000LX Six-grade adjustable	0~30000LX Six-grade adjustable	0~20000LX Six-grade adjustable	0~25000LX Six-grade adjustable	0~30000LX Six-grade adjustable
Lighting Type		Two surface illumination	Three surface illumination		Shelves illumination (two Shelves)	Three surface illumination		Shelves illumination (two Shelves)
Interior Dimension (WxDxH)mm		520×550×1140		700×550×1140	965×580×1430	520×550×1140	700×550×1140	965×580×1430
Exterio Dimension (WxDxH)mm		830×850×1850		950×850×1850	1475×890×1780	830×850×1850	950×850×1850	1475×890×1780
Shelves		3(PCS)						

P:programming

Options:

- RS485 connector



- CO₂ inlet
- CO₂ controller (imported IR CO₂ sensor)

Microprocessor controller (with timing function)

Features:

- Microprocessor controller for temperature and humidity and light intensity, 30 programs
- Large LCD screen
- Simulate changing temperature and light in day/night
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- R134a refrigerant, two imported compressors, continuous running time
- Independent temperature-limiting alarm system ensures experiments run safely.(option)
- RS485 connector is option which can connect computer to record the parameters and the variations of temperature.(option)



MGC-250BP-2

Specifications

Parameter	Model	MGC-250BP-2	MGC-350BP-2 MGC-450BP-2	MGC-350HP-2 MGC-450HP-2	MGC-800BP-2 MGC-1000BP-2	MGC-800HP-2 MGC-1000HP-2
Chamber Volume		250L	300L/450L		800L/1000L	
Temperature Range		Without Lighting: 0~50°C , With lighting: 10~50°C				
Display Resolution		0.1°C				
Temperature Stability		±1°C				
Temperature Uniformity		±1.5°C		±2°C		
Humidity Range		-	50~90%RH		-	50~90%RH
Humidity Accuracy		-	±5~7%RH		-	±5~7%RH
Lighting Intensity		0~12000LX Six -grade adjustable	0~20000LX 0~25000LX Six -grade adjustable		0~30000LX 0~35000LX Six -grade adjustable	
Lighting Type		One surface illumination (front door)	Three surface illumination		Shelves illumination(two Shelves)	
Programmer Function		Temperature, humidity, light intensity, can be set separately, and 30 programmers Time range is 1-99 hours 59mins for each programmer				
Power Consumption		1700W	1700W/2000W	1700W/2050W	3700W/4800W	3800W/5000W
Electrical Requirement		220V 50HZ			380V 50HZ	
Ambient Temperature		RT+5~30°C				
Interior Dimension(WxDxH) mm		580×510×835	520×550×1140/700×550×1140		800×590×1650/1050×590×1650	
ExteriorDimension(WxDxH)mm		725×740×1550	830×850×1850/950×850×1850		1475×890×1780/1410×890×1950	
Shelves		3(PCS)				

Options:

- RS485 connector



- CO₂ inlet
- CO₂ controller (imported IR CO₂ sensor)

LCD Microprocessor Controller (with timing function)

Provided for precise and constant temperature and auxiliary heating in colleges industrial and mining enterprises and scientific research departments.

Features

- Microprocessor temperature controller.
- Audible and visible alarm for temperature and water level.
- R134a refrigerant, imported compressor.
- With interface to external water bath.
- RS485 connector is option which can connect computer to record the parameters and the variations of temperature.(option)



Specifications

Model	Temperature Range	Precision	Interior Dimension	Chamber volume	Electrical Requirements	Pump (flux)	Power Consumption		
MP-5H	RT+5~100°C	±0.1	150×160×150	6.7L	220V 50Hz	8L/min	1050W		
MP-13H			240×170×150	10.9L			1050W		
MP-19H			330×300×150	22.5L			1050W		
MPG-100H	RT+5~100°C	±0.2	240×170×200	14.5L			1050W		
MP-501A	RT+5~100°C						1050W		
MP-10C	-10~100°C						150×160×150	4.5L	2300W
MP-20C	-20~100°C								2300W
MP-30C	-30~100°C								2800W
MP-40C	-40~100°C		3150W						
MP-50C	-50~100°C		3100W						
MPG-10C	-10~100°C		240×170×200	13L	2300W				
MPG-20C	-20~100°C				2300W				
MPG-40C	-40~100°C				3100W				
MPG-50C	-50~100°C	3100W							
MP-5 (controller)	-100~200°C	0.1			130×150×330	≤50L	1050W		

- ※ When setting temperature is above 80°C , liquid medium should be mineral oil.
- ※ When setting temperature is below 5°C , liquid medium should be antifreeze (Absolute alcohol or absolute glycol)
- ※ Ambient temperature: +5~35°C
- ※ Option: Max. temperature 150°C

Specification test condition

- Ambient temperature: 20°C
- Electrical requirements: 220V/50Hz
- Liquid medium: pure water



MP-13H
MP-19H

MPG-100H

Features

- High precision temperature controller.



Specifications

Model	Temperature Range	Precision	Peristome Dimension (WxDxH)	Chamber volume	Pump(flux)	Power
MPE-20C	-20~100°C	±0.02	240×170×200	13L	15L/min	2850W
MPE-30C	-30~100°C					
MPE-40C	-40~100°C					

Heating Oil Bath

Corrosion resistant stainless steel with microprocessor controller heating oil bath, provides you best security and stability, and easy to operate.

Features

- PID controller with timing function ensures precise and reliable control.
- Stainless steel working chamber and shell, anti-corrosion and easy to clean.
- Audible and visible alarm for temperature ensures experiments run safely.
- Magnetic stirring oil bath with microcomputer servo control of stirring speed, to ensure the constant speed in the case of constantly changing stirring viscosity.
- Magnetic stirring output torque is large, making the temperature in the oil bath more accurate and uniform.

Option

Intelligent programmable LCD temperature controller
RS485 connector



Specifications

Model	Electrical Requirement	Power	Temperature Range	Temperature Stability	Deviation Alarm	Volume	Interior Dimension (W×H×D,mm)	Timer Range
DU-20	AC220V 50HZ	1000W	RT+20~200°C	±0.5°C	±2°C	12L	250×250×200	0~9999
DU-30		1600W				20L	400×250×200	
DU-30G		1000W						

LED Microprocessor Controller (with timing function)

Widely applicable for laboratory researches on bacteria cultivation, fermentation, hybridization, chemical and biochemical reaction, enzymes and tissues research, which have a high requirement on precision of shaking speed and temperature.



Specifications

Model	DKZ-1	DKZ-2B	DKZ-3 DKZ-3B	DKZ-1C
Temperature Range	RT+5~100°C			10~100°C
Display Resolution	0.1°C			
Temperature Uniformity	±1°C			
Shaking Speed Range	30~150rpm			
Amplitude	30mm (Standard) or 40mm (Option)			
Power Consumption	1250W	1650W	1650W	1500W
Interior Dimension(W×D×H)mm	438×310×250	618×310×250	618×310×250	440×300×250
Exterior Dimension(W×D×H)mm	643×350×353	823×350×355	823×350×355	710×410×710

※ Remark: Shell and chamber are all stainless steel with an "B"

Options : Intelligent programmable temperature controller

Microprocessor controller (with timing function)

Features

- A stamping molding stainless steel tank, easy to clean.
- LCD screen, multiple data display with timing function, easy to operate.
- Stainless steel shelves cover heater and sensor to avoid damage during using.
- Once-forming stainless steel lid.
- Cut off heater automatically in case of lack of water, meanwhile visible and audible alarm ensures to remind users in time.
- Independent temperature-limiting alarm system.
- temperature error alarm.
- Test tube holder can be placed. (Option)



Specifications

Model	BWS-5	BWS-10	BWS-20	BWS-0505	BWS-0510	BWS-12 BWS-12G	BWS-27 BWS-27G
Electrical Requirement	AC220 50Hz						
Power Consumption	500W	1000W	2050W	500W+500W	500W+1000W	800W	1000W
Temperature Range	RT+5~100°C					RT+5~100°C RT+5~80°C	
Temperature Stability	±0.3°C					±0.2°C	
Temp Alarm	±2°C					0.1°C	
Interior Dimension(W×D×H)mm	130×280×150	220×280×150	290×490×150	130×280×150	130×280×150 290×490×150	300×240×200	500×300×200
Exterior Dimension(W×D×H)mm	396×250×260	396×330×260	600×390×260	450×395×260	526×395×260	480×300×480	680×360×390
Timing Range	1~5999min						
Chamber Volume	2holes Φ112mm	4holes Φ92mm	6holes Φ92mm	2holes+2holes	2holes+4holes	11L	20L

※ Remark: With electromagnetic-pump is marked with an "G"



Control panel

Temperature control, incubation, material testing, corrosion testing, cell culture, tissue research, rotary evaporator/orbital agitation at variable speeds to affect the growth of cell cultures.

Features

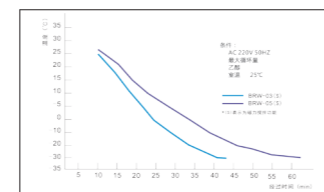
- P.I.D temperature controller provides accurate and reliable temperature control.
- Large LCD display screen and interface provides for user-friendly operation.
- Preset On/Off function.
- Independent circulating pump switch for easy starting/stopping the cycle.
- Easy to set Adjustable Timer. (1 minute to 5,999 minutes)
- Maintenance-free operation with easy to clean surface.
- Both heater and bath chamber are made of corrosion-resistant stainless steel.
- No angle in bath chamber, easy to clean.
- Uniquely designed heating method can up to 80 °C .(BWR-H series)

Safety

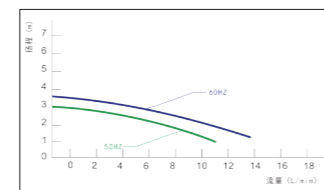
- Temperature deviation alarm.
- Over current protection.
- Independent Over-temperature protection meets DIN 12880 International standard requirements.
- Liquid level display window, through which you can intuitively observe the liquid level in the tank.

Option

- Available RS-485 or USB ports for data collection.



Cooling curve



Head / Flow curve

Specifications

Product Name	cooling recirculating chiller			
Model	BWR-03A BWR-03B BWR-03C	BWR-05A BWR-05B BWR-05C	BWR-10A BWR-10B BWR-10C	BWR-20A BWR-20B BWR-20C
Storage tank maximum capacity (L)	3	5	10	20
Temperature range	A: -20~20°C; B: -30~20°C; C: -40~20°C			
Ambient temperature range	+5~30°C			
Temperature accuracy	±0.5°C		±2°C	
Cooling capacity at 20°C (kw)	1.5	1.95	2.2	3.52
Cooling capacity at 0°C (kw)	1.05	1.2	1.76	2.96
Cooling capacity at -20°C (kw)	0.45	0.65	1	1.3
Refrigerant	R404A			
Security features	Delay, leakage, overcurrent, overvoltage			
Total power (W)	1000 1000 1300	1350 1350 1500	2400 2400 2600	3300 3300 3500
Power requirements	AC220V±10%/50HZ			
Pump flow max. (L / min)	8		17	
Maximum head (m)	1.5		2.5	
Inlet/Outlet pipe diameter (mm)	φ 16		φ 20	
Noise level	≤45		≤55	
Liquid tank opening / depth (mm)	φ 180×120	φ 220×180	φ 250×250	φ 300×300
Dimensions W×D×H(mm) (include caster)	250×480×585	315×540×625	400×590×790	430×600×840

Product Name	cooling/heating recirculating chiller			
Model	BWR-03HA BWR-03HB BWR-03HC	BWR-05HA BWR-05HB BWR-05HC	BWR-10HA BWR-10HB BWR-10HC	BWR-20HA BWR-20HB BWR-20HC
Storage tank maximum capacity (L)	3	5	10	20
Temperature range	A: -20~40°C; B: -30~40°C; C: -40~40°C			
Ambient temperature range	+5~30°C			
Temperature accuracy	±0.3°C			
Cooling capacity at 20°C (kw)	1.5	1.95	2.2	3.52
Cooling capacity at 0°C (kw)	1.05	1.2	1.76	2.96
Cooling capacity at -20°C (kw)	0.45	0.65	1	1.3
Refrigerant	R404A			
Security features	Delay, leakage, overcurrent, overvoltage			
Total power (W)	1500 1500 1800	1600 1600 1750	2900 2900 3100	3800 3800 4000
Heating power (W)	550	750	1400	2000
Power requirements	AC220V±10%/50HZ			
Pump flow max. (L / min)	8		17	
Maximum head (m)	1.5		2.5	
Inlet/Outlet pipe diameter (mm)	φ 16		φ 20	
Noise level	≤45		≤55	
Liquid tank opening / depth (mm)	φ 180×120	φ 220×180	φ 250×250	φ 300×300
Dimensions W×D×H(mm) (include caster)	250×480×585	315×540×625	400×590×790	430×600×840

Microprocessor controller (with timing function)

Summary

- Provided for precise and constant temperature and auxiliary heating in colleges industrial and mining enterprises and scientific research departments.

Features

- Microprocessor control with timing function.
- Digital display.
- Audible and visible alarm for over temperature.



DK



DKB-CU



DK-8D

Specifications

Model	Water Bath	Water Bath (all stainless steel)	Circulating Bath (with electromagnetic-pump)	Water Bath (three holes)
	CU-420 CU-600(DK-600A)	DK-8AXX DK-8AX DK-8AD	DK-8AB DKB-600B	DK-8D
Electrical Requirement	220V 50HZ			
Power Consumption	500W 1000W	400W 600W 1000W	1000W	750W
Temperature Range	RT+5~100°C		RT+5~70°C	RT+5~99°C
Temperature Stability	±0.5°C		±0.3°C	
Display Resolution	0.1°C			
Chamber volume	11L 34L	12L 22L 30L	22L 30L	2.1L×3
Interior Dimension (W×D×H, mm)	420×180×150 600×300×190	300×240×160 450×300×190 600×300×190	500×300×150 600×300×190	150×125×110
Exterior Dimension (W×D×H, mm)	570×220×260 750×350×300	460×280×190 610×340×260 760×340×280	660×340×200 770×370×280	490×245×310
Timing Range	1~999min			

Options:

- Intelligent programmable temperature controller



LCD Microprocessor Controller (with timing function)

The BEING Magnetic Heated Stirrers offer a large variety of sizes and temperature ranges to accommodate your laboratory needs. Our stirrers provide a user friendly PID controller offering a large LCD color screen for easy viewing. They are constructed for durability, high performance and safety.

Features

- Large LCD screen to display more data at same time.
- External temperature sensor for liquid, temperature range from ambient temperature to 200°C .
- Free-step speed adjustment.
- Die-cast Aluminum alloy external chamber.
- Aluminum alloy working plate.
- Over-temp alarm system, auto switch off when 470°C .
- Caution indication light when plate temperature reach 50°C .

Differences between A/B series

- Magnetic Stirrer Series BMS-07A and BMS-09A include external temperature sensor which can measure liquid's temperature directly. Temperature range is from Ambient +5 °C to 200 °C .
- Magnetic Stirrer Series BMS-09B and BMS-07B are able to reach highest temperature as 450 °C .



08 series

07 series

Specifications

Model	IT-07A3	IT-09A5	IT-09A12	IT-07B3	IT-09B5	IT-09B15	IT-09C10	IT-09C15
Stirring capacity (H ₂ O)	3L	5L	12L	3L	5L	15	10	20
Liquid temp range	RT+5°C ~200°C			/		/		
Working plate temp range	/			ambient+5°C ~320°C				
Speed rang(rpm)	200~2000							
Temperature accuracy	±1%					±15°C		/
Plate dimension(mm)	130×130	180×180	180×180	130×130	180×180	180×180	180×180	180×180
Exterior dimension (W×H×D)mm	150×110×249	210×130×330	210×129×330	150×110×249	210×129×330	210×330×130	210×330×130	210×330×130
POWER(AC Hz)	220V/50							
Heating power Input power (Max. W)	400/500	550/600	650/750	400/500	550/600	650/750	-/50	-/50
Weight(KG)	4	5	5	3.5	4.5	4.5	4.0	4.0

Specifications

Model	IT-08A3	IT-08B3	IT-08C5
Stirring capacity (H ₂ O)	3L		5L
Speed rang(rpm)	200~2000		
Power	600W		50W
Liquid temp range	RT+5 ~ 200°C	—	—
Working plate temp range	—	RT+5 ~ 320°C	—
Temperature accuracy	±5°C	±15°C	—
Plate dimension(mm)	Φ 145		
Exterior dimension (W×H×D)mm	150×250×130		
Weight(KG)	4.0	3.5	

Touch Screen Microprocessor Controller (with timing function)

Using xenon arc lamp to simulate full solar spectrum and reproduce the aging light environment in different condition, it provides the corresponding environment simulation and the accelerate test for scientific research, product development and quality control.

More real xenon lamp

- The xenon arc lamp reoccurs the full solar spectrum vividly which include ultraviolet, visible light and red light. With high quality lamp and the use life up to 1200~1500 hours.

Fast test results

- It can accelerate the aging experiment to achieve the effect of rapid aging.

Enhanced mirror illuminate

- Polished stainless-steel chamber makes the exposed area large enough and uniformity, and enhanced the light irradiance and shorten the exposure time of sample.

Water spraying system(B-SUN-II)

- Through the pure water spraying system simulates the wet erosion phenomenon, the spraying could operation dark or light cycle.

Automatic Irradiance Control System

- It could real time monitor and control the light intensity to ensure the repeatability of the test results, The control point of irradiance could choose 340nm, 420nm or 300~400nm.

Automatic Blackboard Temperature Monitor and Control

- B-SUN uses the blackboard temperature sensor monitor the exposure temperature of sample accurately. (Cooling way: air cooling).

Easily calibrate light sensors

- Irradiance sensors need to be regularly calibrated by the user. The illuminometer must be compatible with the B-SUN.

Control system easy to operate and stable

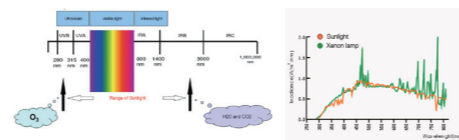
- 9.7 inch touch screen, easy to understand and operate. Irradiation, blackboard temperature, rain cycle and so on could be easily set and display.
- Touch screen can display all parameters and diagnose the fault information automatically, With over-temperature protection and over-load protection.
- It provides referring and setting related industry standards. (could set 10 periods)

Specifications

Model	B-SUN-I	B-SUN-II
Working chamber Dimension (WxDxH,mm)	320x320x320	
Exterior Dimension (WxDxH,mm)	890x580x590	
Control system	Siemens PLC	
Program function	4 groups standard program built-in and 2 groups program can be set	
Sample area	930cm ²	
Sample surface temperature monitoring	blackboard temperature automatic control by sensor	
Irradiance control	340nm,420nm or 300nm-400nm Wavelength automatic control (standard with@340nm High-precision sensors)	
Spraying system	NO	YES
Lamp cooling method	air cooling	
Sample shelf type	Flat plate type	
Lamp	Standard lamp tube, or Atlas lamp tube(optional)	
Electrical requirement	3500W	
Power consumption	220V, 50Hz	



Blackboard thermometer



The spectrum of sun and Xenon lamp

Touch Screen Microprocessor Controller (with timing function)

Product Features Display

- 4.3 inch touch screen, menu type interface could set parameters fast, which is easy to understand and operation.
- BPT sensor, cabinet temperature and rain cycle etc, which can be visually setting and displaying.

light source

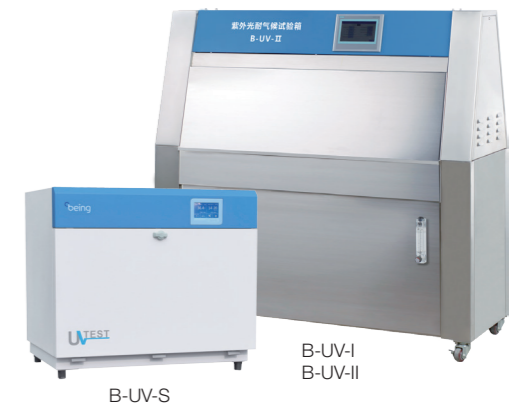
- With 4 pieces of 20W ultraviolet lamp, more stable and the life of the lamp is up to 5000 hours.

Controller

- B-UV-S series provide 3 spray headers which can meet the uniformity of rainfall for flat sample rack.
- Radiation intensity adjustment with optional RM-20 irradiance meter which by manual adjustment.
- Blackboard temperature self-control by test set value, to meet user for lighting, condensation, spray, temperature and other aging test chamber.

Sample shelf

- Build-in 4 pieces of 70x150 flat sample racks, the users can test for three-dimensional or flat samples.



Specifications

Model	B-UV-S(desktop)	B-UV-I	B-UV-II
Temperature Range	Light cycle	45°C -80°C	
	Condensation cycle	40°C -60°C	
Light source	Type	UVA	UVA or UVB fluorescent ultraviolet lamp
	Power	20W/pc, total 4 pcs	40W/pc, total 8pcs
	Wavelength range	Standard with UVA@340nm	Standard with UVA@340nm Optional@351nm or UVB@313nm
	Irradiance	Handle	Irradiance automatic control
Calibration function	No	Have	
Spraying function	3-hole spraying	No	12-hole sample spraying device
Sample shelf size	8 pcs standard sample test shelf	18 pcs standard sample test shelf (75x150mm)	
Center distance between sample and lamp	150mm~280mm	50mm±3mm	
Exterior dimension (WxDxH,mm)	770x565x690	1200x450x1500	
Cycle mode	Dark, light, spray, condensate set multi-cycle automatic control		
Light control	Handle	Irradiance automatic monitoring and control	
Electrical requirement	220V 50Hz		
Power consumption	2000W		

Meeting Standards

Standard Type	Standard NO.		
ASTM	G154	G553	D5208
	D4329	D499	D4587
BS	2782	-	-
ECCA	T10	-	-
ISO	11503	4892-3	11507
JIS	D0205	-	-
PrEN	1062-4	-	-
SAE	J2020	-	-

The B-500 is a simple, easy to handle and has the ability to achieve quality results quickly. He has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.

Features

- The B-500 homogenizer is the ideal solution for dispersing, homogenizing, mixing and grinding biological tissue samples (cells, animal and plant tissues), pharmaceutical products, cosmetics and food products. The WT500 is characterized by a high versatility that makes it unique on the market. A "Quick Lock" single quarter turn assembly shaft can be combined with a wide selection of stator and rotor configurations according to the specific application for which it is to be used. Flexible, easy-to-use, rapid and user-friendly stator and rotor interchangeability: a single instrument for a wide range of uses that ensures excellent performance and safety.



Specifications

model	B-500-A	B-500-B
Voltage/ Frequency	110-120V/60Hz,220-240V/50-60Hz	
Power input/output(W)	500Watt	
speed range(rpm)	10000-30000rpm	
Rotor speed(m/sec)	22.7-36m/sec	
Speed Setting	6 speeds	
Range(ml,H2O)	100ml-5,000ml (Dispersing Shaft set B-500/SS20CSR20)	100ml-5,000ml (Dispersing Shaft set B-500/SS20FER20)
Max viscosity(mPas)	10,000mPas	
Material	stainless steel PTEE	
Weight(kg)	1.3kg	
Dimensions(mm)	70mmx70mmx255	
noise emission(drive only)	79dB(A)	
Operating Environment	0-40°C , 85%rel.humidity	
Protection class	IP20	

Options

Dispersing Shaft set	Model	Medium Function	Treatable Volume (H2O)/(ml)	Max linear velocity (m/sec)	Rotor diameter (mm)	Stator diameter (mm)	Min/max emersion depth (mm)
	SS20CSR20	SOLID / LIQUID	10-5000	23.5	15	20	40/175
	SS20FER20	SUSPENSION/ EMULSIONS	10-5000	23.5	15	20	40/175
	SS30CCR30	STRINGY/ FIBROUS	100-8000	36.1	23	30	40/175
	SS30FER30	SUSPENSION/ EMULSIONS	100-8000	36.1	23	30	40/175
	SS40CCR40	SOLID / LIQUID	100-20000	50.3	32	40	40/175
	SS05CSR04	LIQUID / LIQUID	1-50	6	5	5	10/70

The B-170 is a simple, easy to handle and has the ability to achieve quality results quickly. He has the speed and power to emulsify, suspend, cut and chop always to deliver accurate results. It has complete flexibility to hold it by hand, mounted to a pole or wall, with mounting plate or type H.

Features

- The B- 170 is a rotor/stator type hand held tissue homogenizer which can rapidly dispersing, homogenizing, extractions, cell disruption, mixing, emulsifying, suspending samples in 0.1 - 50 ml of liquid or 1-250ml depending on the dispersing shaft. During operation, the suspended material is drawn into the core of the homogenizer by a rotor turning at up to 30,000 rpm.The material is repeatedly cycled through narrow slits in the stator where it is rapidly sheared and disintegrated by high shear mechanical action. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is usually achieved in a few seconds. Little, if any, heat is produced during the process.



Specifications

model	B-170-A	B-170-B
Voltage/ Frequency	110-120V/60Hz,220-240V/50-60Hz	
Power input/output(W)	160Watt	
speed range(rpm)	8000-30000rpm	
Rotor speed(m/sec)	6.3-14m/sec	
Speed Setting	6 speeds	
Range(ml,H2O)	0.1-50ml (Dispersing Shaft set B-170/5)	1-250ml(Dispersing Shaft set B-170/10)
Max viscosity(mPas)	5,000mPas	
Material	stainless steel PTEE	
Weight(kg)	0.6kg	
Dimensions(mm)	46mmx55mmx230mm	
noise emission(drive only)	72dB(A)	
Operating Environment	0-40°C , 85%rel.humidity	
Protection class	IP20	

Options

Dispersing Shaft set	Model	Medium Function	Treatable Volume (H2O)/(ml)	Max linear velocity (m/sec)	Rotor diameter (mm)	Stator diameter (mm)	Min/max emersion depth (mm)
	B-170/5	LITTLE SAMPLE SOLID / LIQUID	0.1-50	6.3	3	5	7/50
	B-170/10	LITTLE SAMPLE SOLID / LIQUID	1-250	14	6	10	10/120
	B-170/14	LITTLE SAMPLE SOLID / LIQUID	100 - 1000	20	13	14	15/130