



## COMPANY INTRODUCTION

Huanghua  
Faithful Instrument Co.,Ltd

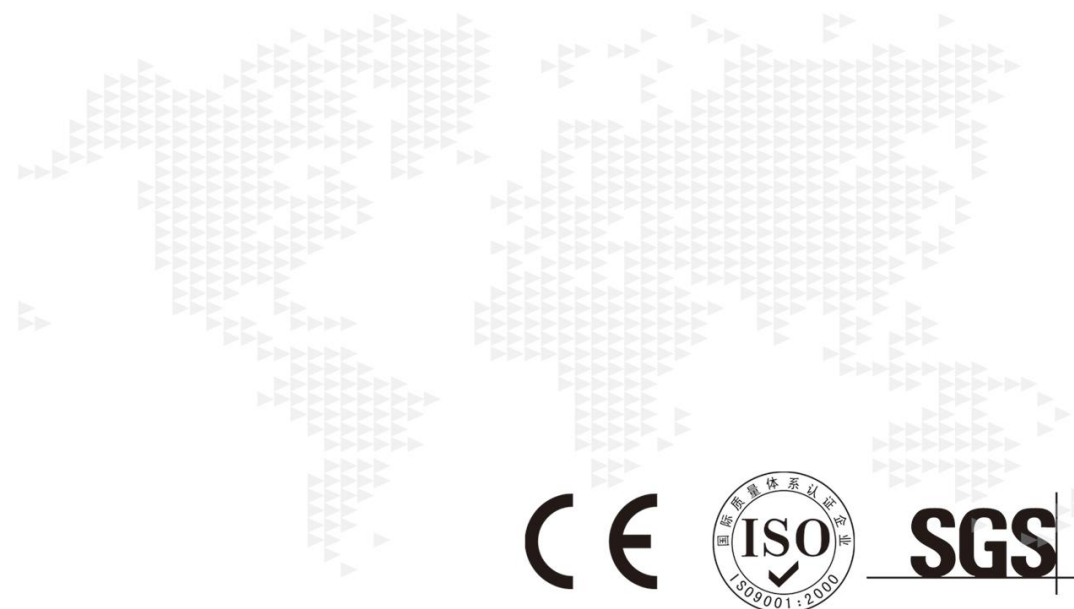
Huanghua Faithful Instrument Co., LTD, founded in 90s and located in coastal city--HuangHua, our factory covered 40,000 square meters, with more than 200 employees. Huanghua Faithful Instrument Co., LTD is a specialized supplier of scientific and laboratory instruments and has our own brand **TYFS**<sup>®</sup>, **FAITHFUL**<sup>®</sup>.

Faithful has established enviable reputation for its ability in designing and manufacturing high quality products, now we are dedicated to developing and manufacturing instruments as well as distributing world-renowned products and offering unmatched scientific performance and proven value.

We have obtained CE certificate and passed the ISO9001. Our main products include: Drying Oven, Incubator, Magnetic Stirrer, Heating Mantle, Stainless Steel Distiller, Growth Chamber with Humidity Control, Ceramic Muffle Furnace, Water Bath, Laminar Flow Cabinet, Disintegrator, Vortex Mixer and etc.

Not only the good quality products are sold in the Inner Market, also exported to Germany, France, Spain, Russia, Turkey, Brazil, USA, Canada, Argentina, Mexico, Chile, Indonesia, Iraq and etc. And we have received widely good reputation from worldwide customers.

We sincerely thank our customers for the supports, and are willing to build long-term cooperation with new and old friends.



## ADVANCED PRODUCTION EQUIPMENT



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Change the catalogue data without notice, the company has the right of final interpretation



## Horizontal Drying Oven

High precision and large density sample drying treatment.

### Characteristics:

- Horizontal forced air type, high space utilization and good temperature uniformity.
- 101: Forced fan cooling intake structure, the maximum working temperature <math>< 50^{\circ}\text{C}</math>, the fan long-term longevity operation.
- 202: Classical natural convection drying method.
- New anti-hot handle.



### Main technical parameters:

Model	101-0A/101-0AB	101-1A/101-1AB	101-2A/101-2AB	101-3A/101-3AB	
	202-0A/202-0AB	202-1A/202-1AB	202-2A/202-2AB	202-3A/202-3AB	
Cycle Mode	101 means Forced convection;202 means Natural convection				
Function	Temp. Range	RT+10-250℃			
	Temp. Resolution Ratio	0.1℃			
	Temp. Motion	± 1℃			
	Temp. Uniformity	± 2.5%			
Structure	Inner Chamber	B model:High quality stainless steel; without B model:High strength galvanized sheet			
	Outer Shell	Cold rolling steel electrostatic spraying exterior			
	Insulation layer	Compound silicate heat preservation board			
	Heater	101 model with Stainless steel electric heating tube; 202 model with Nickel chromium alloy heating wire			
	Power rating	1.2kW	1.6kW	2.3kW	3.0kW
Controller	Exhaust hole	φ 28mm top(with function of test hole)			
	Temp. control mode	Two temperature section PID intelligent			
	Temp. setting mode	Touch button setting			
	Temp. display mode	LED Digital display			
	Timer	0-9999min(with timing wait function)			
	Operation function	Fixed temperature operation, timing function,auto stop.			
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory			
Sensor	pt100				
Safety device	Over temperature sound-light alarm				
Specification	Inner Chamber size(W*L*H)(mm)	350*350*350	450*350*450	550*450*550	600*500*750
	Exterior size (W*L*H)(mm)	652*472*587	752*472*687	852*572*786	902*622*986
	Packing size (W*L*H)(mm)	755*615*735	855*615*835	955*715*935	1005*765*1135
	Volume	43L	71L	136L	225L
	Shelf number	9	13	17	21
	Load per rack	15kg			
	Shelf space	25mm			
	(50/60HZ)Current rating	AC220V/5.5A	AC220V/7.3A	AC220V/9.1A	AC220V/13.6A
NW/GW (kg )	33/37	45/50	62/68	77/96	
Accessory	Shelf	2			
	Shelf frame	4			
optional accessories	Shelf				

## Forced Air Drying Oven

○ Used for drying, baking, wax, heat treatment.

### Characteristics:

- Horizontal air circularly by double air ducts, high efficiency and high uniformity.
- PID controller, with over-temperature protection function.
- With fan switch, LED digital display, high temperature blast motor.
- New anti-hot handle

**WGLL-BE series have the following characteristics other than the above functions.**

- LCD temperature controller. SSR to make sure the safety
- 4 grades speed fan, adjustable for different requirements.
- Over-temperature protection system.
- Independent temperature limiter.



### Main Technical Parameters:

Model	WGL-30B	WGL-45B	WGL-65B	WGL-85B	WGL-125B	WGL-230B	WGL-625B	
	WGLL-30BE	WGLL-45BE	WGLL-65BE	WGLL-85BE	WGLL-125BE	WGLL-230BE	WGLL-625BE	
Cycle Mode	Forced convection							
Function	Temp. Range RT+10-300°C							
	Temp. Resolution Ratio 0.1°C							
	Temp. Motion ±1°C							
	Temp. Uniformity ±2.5%							
Structure	Inner Chamber Mirror Stainless Steel							
	Outer Shell Cold rolling steel electrostatic spraying exterior							
	Insulation layer Compound silicate heat preservation board							
	Heater Stainless steel heater							
	Power rating	0.8kW	1.2kW	1.6kW	2.0kW	2.3kW	3.0kW	5.0kW
Exhaust hole	φ 28mmtop(with function of test hole)					Rear exhaust	Top double exhaust	
Controller	Temp. control mode Two temperature section PID intelligent							
	Temp. setting mode Touch button setting							
	Temp. display mode B model: Measuring temperature: display on the four digital tubes upper row, setting temperature: display on the lower row BE model: Measuring temperature display on upper LCD screen, setting temperature display on the lower row							
	Timer 0-9999min(with timing wait function)							
	Operation function Fixed temperature operation, timing function, auto stop.							
	Additional function B model: Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory BE model: Mechanical independent temperature limiter, 4 grades 3 speed adjustable-speed fan (230BE without fan speed adjustor), sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory							
Specification	Sensor pt100							
	Inner Chamber size(W*L*H)(mm)	310*310*310	350*350*350	400*360*450	450*420*450	500*450*550	600*500*750	660*760*1250
	Exterior size (W*L*H)(mm)	450*500*690	490*540*730	540*550*830	590*610*830	640*640*930	730*680*1250	890*925*1830
	Packing size (W*L*H)(mm)	550*585*845	590*625*885	640*635*985	690*695*985	740*725*1085	860*790*1400	1000*1080*2000
	Volume	30L	45L	65L	85L	125L	230L	625L
	Shelf number	6	7	9	9	13	17	7
	Load per rack	15kg						150mm
	Shelf space	35mm						150mm
	Power rating (50/60HZ)	AC220V/3.6A	AC220V/5.5A	AC220V/7.2A	AC220V/9.0A	AC220V/10.5A	AC220V/13.6A	AC380V/7.6A
	NW/GW (kg)	33/37	37/43	44/49	50/56	60/66	94/120	120/160
Accessory	Shelf 2							
	Shelf frame 4							
optional accessories	B model: Shelf; BE model: Shelf,RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage							

## Constant-temperature Drying Oven

○ Used for drying, baking, heat treatment .

### Characteristics:

- In the workroom, the hot air is convective naturally and cyclically.
- PID micro-computer intelligent temperature controller with functions of over-temperature protection.
- Standard highlight LED instrument running light.
- New anti-hot handle.

**WHLL-BE series have the following characteristics other than the above functions.**

- LCD temperature controller. SSR to make sure the safety.
- Over-temperature protection system.
- Independent temperature limiter.



### Main Technical Parameters:

Model	WHL-30B	WHL-45B	WHL-65B	WHL-85B	WHL-125B	
	WHLL-30BE	WHLL-45BE	WHLL-65BE	WHLL-85BE	WHLL-125BE	
Cycle Mode	Natural convection					
Function	Temp. Range RT+10-300°C					
	Temp. Resolution Ratio 0.1°C					
	Temp. Motion ±1°C					
	Temp. Uniformity ±3.5%					
Structure	Inner Chamber Mirror Stainless Steel					
	Outer Shell Cold rolling steel electrostatic spraying exterior					
	Insulation layer Compound silicate heat preservation board					
	Heater Stainless steel heater					
	Power rating	0.8kW	1.2kW	1.6kW	2.0kW	2.5kW
Exhaust hole	φ 28mmtop(with function of test hole)					
Controller	Temp. control mode Two temperature section PID intelligent					
	Temp. setting mode Touch button setting					
	Temp. display mode B model: display on LED BE model: display on upper LCD					
	Timer 0-9999min(with timing wait function)					
	Operation function Fixed temperature operation, timing function, auto stop.					
	Additional function B model: Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory BE model: Mechanical independent temperature limiter, sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory					
Specification	Sensor pt100					
	Inner Chamber size(W*L*H)(mm)	310*310*310	350*350*350	400*360*450	450*420*450	500*450*550
	Exterior size (W*L*H)(mm)	460*510*695	500*550*735	550*550*840	590*610*830	636*680*915
	Packing size (W*L*H)(mm)	550*585*845	590*625*885	640*635*985	690*695*985	740*725*1085
	Volume	30L	45L	65L	85L	125L
	Shelf number	6	7	9	9	13
	Load per rack	15kg				
	Shelf space	35mm				
	(50/60HZ)Current rating	AC220V/3.6A	AC220V/5.5A	AC220V/7.2A	AC220V/10.5A	AC220V/10.5A
	NW/GW (kg)	33/37	37/43	44/49	60/66	60/66
Accessory	Shelf 2					
	Shelf frame 4					
optional accessories	B model: Shelf; BE model: Shelf,RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage					

## Hot Air Sterilizing Drying Oven

○ Easy to operate efficient dry heat sterilizer.

### Characteristics:

- Horizontal air circularly by double Air ducts, high efficiency and high uniformity.
- PID controller, with over-temperature protection function.
- With fan switch, LED digital display, high temperature blast motor.
- New anti-hot handle.

### GXBE series have the following characteristics other than the above functions.

- LCD temperature controller. SSR to make sure the safety
- 4 grades speed fan, adjustable for different requirements.
- Over-temperature protection system.
- Independent temperature limiter.



### Main Technical Parameters:

Model	GX-30B	GX-45B	GX-65B	GX-85B	GX-125B	GX-230B
	GX-30BE	GX-45BE	GX-65BE	GX-85BE	GX-125BE	GX-230BE
<b>Function</b>	Forced convection					
Temp. range	RT+10~300°C					
Temp. Resolution Ratio	0.1°C					
Temp. Motion	± 1°C					
Temp. Uniformity	± 2.5%					
<b>Structure</b>	Mirror Stainless Steel					
Inner Chamber	Cold rolling steel electrostatic spraying exterior					
Outer Shell	Compound silicate heat preservation board					
Insulation layer	stainless steel heater					
Heater	0.8KW					
Power rating	1.2KW	1.6KW	2.0KW	2.3KW	3.0KW	
Exhaust hole	φ 28mm top(with function of test hole)					
<b>Controller</b>	Two temperature section PID intelligent					
Temp. control mode	Touch button setting					
Temp. setting mode	B model: LED Digital Display					
Temp. display mode	BE model: LCD Digital display					
Timer	0-9999min(with timing wait function)					
Operation function	Fixed temperature operation, timing function, auto stop.					
Additional Function	B model: Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory					
Sensor	Pt100					
Inner Chamber size(W*L*H)(mm)	310*310*310	350*350*350	400*360*450	450*420*450	500*450*550	600*500*750
Exterior size (W*L*H)(mm)	460*510*695	500*550*735	550*550*840	590*610*830	636*680*915	730*680*1250
Packing size (W*L*H)(mm)	550*585*845	590*625*885	640*635*985	690*695*985	740*725*1085	860*790*1400
Volume	30L	45L	65L	85L	125L	230L
Shelf number	6	7	9	9	13	17
Load per rack	15kg					
Shelf space	35mm					
Current rating (50/60HZ)	AC220V/3.6A	AC220V/5.5A	AC220V/7.2A	AC220V/9.0A	AC220V/10.5A	AC220V/13.6A
NW/GW (kg)	33/37	37/43	44/49	50/56	60/66	94/120
<b>Accessory</b>	2					
Shelf	4					
Shelf frame						
optional accessories	B model: Shelf; BE model: Shelf, RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage					

## Drying oven/Incubator (Double function)

○ Drying, baking, wax, heat treatment and bacterial culture in one chamber.

### Characteristics:

- Horizontal air circularly by double air ducts, high efficiency and high uniformity.
- PID controller, with over-temperature protection function.
- With oven/incubator change switch, fan switch; and high temperature blast motor, LED digital display.
- New anti-hot handle.

### GP-BE series have the following characteristics other than the above functions.

- LCD temperature controller. SSR to make sure the safety
- 4 grades speed fan, adjustable for different requirements.
- Over-temperature protection system.
- Independent temperature limiter.



### Main Technical Parameters:

Model	GP-30B	GP-45B	GP-65B	GP-85B	GP-125B	GP-230B
	GP-30BE	GP-45BE	GP-65BE	GP-85BE	GP-125BE	GP-230BE
<b>Function</b>	Forced convection					
Temp. range	Incubator: RT+5~80°C Drying oven: 80~300°C					
Temp. Resolution Ratio	0.1°C					
Temp. Motion	± 1°C					
Temp. Uniformity	Incubator: ± 1.0°C Drying oven: ± 2.5%					
<b>Structure</b>	Mirror Stainless Steel					
Inner Chamber	Cold rolling steel electrostatic spraying exterior					
Outer Shell	Compound silicate heat preservation board					
Insulation layer	stainless steel heater					
Heater	0.8KW					
Power rating	1.2KW	1.6KW	2.0KW	2.3KW	3.0KW	
Exhaust hole	φ 28mm top(with function of test hole)					
<b>Controller</b>	PID Two temperature section intelligent PID					
Temp. control mode	Touch button setting					
Temp. setting mode	B type: LED Digital Display					
Temp. display mode	BE model: LCD Digital display					
Timer	0-9999min(with timing wait function)					
Operation function	Fixed temperature operation, timing function, auto stop.					
Additional function	B model: Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory					
Sensor	Pt100					
Inner Chamber size(W*L*H)(mm)	310*310*310	350*350*350	400*360*450	450*420*450	500*450*550	600*500*750
Exterior size (W*L*H)(mm)	460*510*695	500*550*735	550*550*840	590*610*830	636*680*915	730*680*1250
Packing size (W*L*H)(mm)	550*585*845	590*625*885	640*635*985	690*695*985	740*725*1085	860*790*1400
Volume	30L	45L	65L	85L	125L	230L
Shelf number	6	7	9	9	13	17
Load per rack	15kg					
Shelf space	35mm					
Current rating	AC220V/3.6A	AC220V/5.5A	AC220V/7.2A	AC220V/9.0A	AC220V/10.5A	AC220V/13.6A
NW/GW (kg)	33/37	37/43	44/49	50/56	60/66	94/120
<b>Accessory</b>	2					
Shelf	4					
Shelf frame						
Optional accessories	B model: Shelf; BE model: Shelf, RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage					

## Vacuum Drying Oven

For the design of drying heat sensitive and easy decomposition, easy oxidation material, inert gas into.



### Characteristics:

- 4-sides heating method, temperature conduction by shelves, more efficiency.
- With inflatable port, once-forming thermostability silica gel sealant strip, with good tightness
- Double observation glass window, inner is explosion-proof glass, outside is resin protection plate, more safety.
- Fastening handle, convenient for opening and closing.

### Main Technical Parameters:

Model	DZ-1A II	DZ-2A II	DZ-3A II	
Heating mode	Four walls heat conduction and decompression			
Function	Temp. Range	RT+10~250℃		
	Useful vacuum degree Range	<133Pa		
	Temp. Resolution Ratio	0.1℃		
	Temp. motion	±1℃		
	Heating-up time	80min	100min	120min
Structure	Inner Chamber	BC model: High quality hairline stainless steel sheet; A model: Anticorrosion treatment of high strength galvanized sheet		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Aluminum silicate fiber		
	Heater	Stainless steel electric heating tube		
	Observation window	Bullet proof glass, acrylic exterior protection		
	Vacuum meter	Pointer type, accuracy class 2.5		
	Nozzle diameter	10mm		
Controller	Power rating	0.8kW	1.4kW	2.0kW
	Temp. control mode	Two temperature section PID intelligent		
	Temp. setting mode	Touch button setting		
	Temp. display mode	Measuring temperature: display on the four digital tubes upper row ; setting temperature: display on the lower row		
	Timer	0-9999min(with timing wait function)		
	Operation function	Fixed temperature operation, timing function, auto stop		
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory		
Specification	Sensor	Pt100		
	Safety device	Over temperature sound-light alarm		
	Inner Chamber size(W*L*H)(mm)	300*300*270	415*370*340	450*450*450
	Exterior size (W*L*H)(mm)	480*480*606	560*540*680	640*590*780
	Packing size (W*L*H)(mm)	590*550*750	704*620*814	739*700*889
	Volume	24L	52L	91L
	Number of shelf	2		
	Load per rack	15kg		
	Shelf space	100mm	140mm	185mm
	50/60HZ)Current rating	AC220V/3.6A	AC220V/6.3A	AC220V/9.1A
Accessory	NW/GW (kg )	42/52	67/92	82/105
	Shelf	2		
	Shelf frame	4		
Optional accessories	Silica gel connecting pipe, vacuum pump			

## Automatic Precision Vacuum Drying Oven

For the design of drying heat sensitive and easy decomposition, easy oxidation material, inert gas into.



### Characteristics:

- Independent shelf heating, fax valued or programmable operating mode, real-time temperature curve records.
- Standard vacuum pumps and inflatable port, air duct is equipped with air filter.manual and electric double air release, adopt integral forming and high temperature resistant silicone sealing strip, with good tightness.
- Independent temperature limiter: imported mechanical temperature limiter, set the workroom to limit the temperature.

### Main Technical Parameters:

Model	DZ-1BLT	DZ-2BLT	DZ-3BLT	
Heating mode	Shelf direct heating			
Function	Temp. Range	RT+10~250℃		
	Useful vacuum degree Range	<133Pa		
	Temp. Resolution Ratio	0.1℃		
	Temp. motion	±1℃		
	Heating-up time	≤40 min		
Structure	Inner Chamber	High quality mirror stainless steel sheet		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Aluminum silicate fiber		
	Heater	Mica electrothermal film		
	Observation window	Bullet proof glass, acrylic exterior protection		
	Vacuum meter	Pointer type +true color touch screen display		
	Vacuum pump system	pump rating 2L/S with dry filter	pump rating 2L/S with dry filter	pump rating 4L/S with dry filter
Controller	Nozzle diameter	10mm		
	Power rating	0.8kW	1.2kW	1.6kW
	Temp. control mode	true color 5.0 inch touch screen multi-stage PID program temperature control, single shelf independent temperature control, program control vacuum degree		
	Temp. setting mode	Touch screen monitor		
	Timer	Fixed temperature operate 10000 hours, program run 99 hours / step		
	Operation function	Fixed temperature operation, timing function, auto stop		
	Program mode	30 sections, 40 steps		
Specification	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory		
	Sensor	Pt100		
Specification	Safety device	Over temperature alarm, mechanical independent temperature limiter, sensor fault alarm, over vacuum degree alarm		
	Inner Chamber size(W*L*H)(mm)	300*300*270	415*370*340	450*450*450
	Exterior size (W*L*H)(mm)	520*475*1160	635*540*1235	670*645*1340
	Packing size (W*L*H)(mm)	689*635*1316	804*705*1391	840*785*1496
	Volume	24L	52L	91L
	Number of shelf	2		
	Load per rack	15kg		
	Shelf space	100mm	140mm	185mm
	Power supply (50/60HZ) Current rating	AC220V/3.6A	AC220V/6.3A	AC220V/9.1A
	NW/GW (kg )	42/52	67/92	82/105
Accessory	Shelf	2		
	Shelf frame	4		
	Optional accessories	RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage		

## Automatic Vacuum Drying Oven

○ For the design of drying heat sensitive and easy decomposition, easy oxidation material, inert gas into.

### Characteristics:

- Large LCD screen display shows vacuum degree and temperature and multiple sets of data, Intelligent PID temperature and gas control system, control temperature accurately, automatic vacuum degree control system.
- Intelligent temperature and vacuum programmable design to meet different experiment requirements.
- Standard inflatable port, gas pipeline equipped with air filter to extend the life of the vacuum pump, manual and electric double sets of deflation device, adopt integral forming and high temperature resistant silicone sealing strip, with good tightness.
- Independent temperature limiter: imported mechanical temperature limiter, set the workroom to limit the temperature.



### Main Technical Parameters:

Model	DZ-1BL	DZ-2BL	DZ-3BL	
Heating mode	Four walls heat conduction and decompression			
Function	Temp. Range	RT+10-250℃		
	Vacuum degree Range	<133Pa		
	Temp. Resolution Ratio	0.1℃		
	Temp. motion	± 1℃		
Structure	Heating-up time	80min	100min	120min
	Inner Chamber	High quality hairline stainless steel sheet		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Aluminium silicate fibre		
	Heater	Stainless steel electric heating tube		
	Observation window	Bullet proof glass, acrylic exterior protection		
	Vacuum meter	LCD Display		
Controller	Nozzle diameter	10mm		
	Power rating	0.8kW	1.4kW	2.0kW
	Temp. control mode	Intelligent PID multi-stage temperature control, program control vacuum		
	Temp. setting mode	Touch button setting		
	Temp. display mode	LCD Display		
	Timer	0-9999 min (with timing wait function)		
	Operation function	Fixed temperature operation, timing function, auto stop		
Safety device	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory			
	PI100			
Specification	Inner Chamber size(W*L*H)(mm)	300*300*270	415*370*340	450*450*450
	Exterior size (W*L*H)(mm)	480*480*1106	560*540*1180	640*590*1280
	Packing size (W*L*H)(mm)	590*550*1250	704*620*1314	739*700*1389
	Volume	24L	52L	91L
	Number of shelf	2		
	Load per rack	15kg		
	Shelf space	100mm	140mm	185mm
	Current rating (50/60HZ)	AC220V/3.6A	AC220V/6.3A	AC220V/9.1A
	NW/GW (kg)	42/52	67/92	82/105
	Accessory	Shelf	2	
Shelf frame		4		
Optional Accessories	RS485 interface, printer, recorder, remote control, wireless SMS alarm, USB data storage			

## Big Forced Air Drying Oven

○ Large capacity industrial high precision drying oven to meet the requirements of military industry.

### Characteristics:

- PID or program temperature control controller, with over-temperature alarm system.
- Double doors ensure that use is convenient.
- Forced air system, with Low-noise fan, centrifugal cycle method, high temperature uniformity.



### Main Technical Parameters:

Model	DGF-4A	DGF-5A	DGF-6A	DGF-7A	DGF-8A	
	DGF-4AB	DGF-5AB	DGF-6AB	DGF-7AB	DGF-8AB	
Cycle Mode	Fan - forced circulation					
Function	Temp. Range	RT+10-250℃				
	Temp. Resolution Ratio	0.1℃				
	Temp. Motion	± 1℃				
	Temp. Uniformity	± 3%				
Structure	Inner Chamber	A: Iron inner chamber AB: Stainless steel inner chamber				
	Outer Shell	Galvanized sheet electrostatic spraying exterior				
	Insulation layer	Aluminum silicate rock wool insulation materials				
	Heater	Stainless steel heating tube				
	Power Rating	5.4kW	6.6kW	9kW	12kW	18kW
Controller	Exhaust hole	On top or side				
	Temp. Control mode	PID intelligent control or Multi - segment programmable control ( optional )				
	Temp. Setting mode	Touch button setting				
	Temp. Display mode	LCD Digital Display				
	Timer	0-9999min (with timing wait function )				
	Operation Function	Fixed temperature operation, timing function, auto stop.				
	Additional Function	Temperature deviation correction, menu locked, power-off memory				
Specification	Sensor	PT100				
	Safety Device	One key to start overheat power off				
	Inner Chamber size (W*L*H)(mm)	800*800*1000	1000*1000*1000	1000*1000*1300	1200*1200*1300	1600*1200*1600
	Exterior size (W*L*H)(mm)	940*1000*1400	1040*1200*1400	1230*1200*1670	1330*1400*1670	1750*1400*2070
	Packing size (W*L*H)(mm)	1060*1090*1520	1260*1290*1520	1350*1300*1890	1550*1500*1890	1950*1500*2290
	Volume	640L	1000L	1300L	1870L	3070L
	Shelf Number	11	11	15	15	20
	Shelf Space	70MM				
	Power Supply (50/60HZ)	380V				
	NW/GW ( kg )	200	260	350	480	800
Accessory	Shelf	2				
	Shelf frame	No				
Optional Accessories	Shelf, RS485 interface, printer, remote control					

## Desktop Constant-temperature Drying Oven Desktop Constant-temperature Incubator

○ Light natural convection drying oven / incubator.

### Characteristics:

- In the workroom, the hot air is convective naturally and cyclically.
- Digital display microcomputer intelligent PID temperature controller.
- New anti-hot handle.



### Main Technical Parameters:

Model		WHL-25A/WHL-25AB	WP-25A/WP-25AB	
Cycle Mode		Natural convection		
Function	Temp. Range	RT+10-300℃	RT+5-65℃	
	Temp. Resolution Ratio	0.1℃		
	Temp. Motion	± 1℃	± 0.5℃	
	Temp. Uniformity	± 3.5%	± 2.0℃	
Structure	Inner Chamber	B model: mirror stainless steel; without B model: High strength galvanized sheet		
	Outer Shell	cold rolling steel electrostatic spraying exterior		
	Insulation layer	compound silicate heat preservation board		
	Heater	Nickel chromium alloy heating wire		
	Power rating	0.6kW	0.18kW	
	Exhaust hole	φ 28mm top (with function of test hole)		
Controller	Temp. control mode	Two temperature section intelligent PID		
	Temp. set mode	Touch button setting		
	Temp. display mode	Measuring temperature: display on the four digital tubes upper row ; setting temperature: display on the lower row		
	Timer	0-9999min(with timing wait function)		
	Operation function	fixed temperature operation, timing function, auto stop		
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory		
Sensor	K model	CU50		
Safety device		over temperature sound-light alarm		
Specification	Inner Chamber size(W*L*H)(mm)	260*260*260		
	Exterior size (W*L*H)(mm)	380*455*568		
	Packing size (W*L*H)(mm)	500*530*657		
	Volume	18L		
	Shelf number	6		
	Load per rack	15kg		
	Shelf space	29mm		
	(50/60HZ)Current rating	AC220V/2.7A	AC220V/0.8A	
	NW/GW (kg )	27/35		
Accessory	Shelf			
Optional accessories		Shelf		

## Constant-Temperature Incubator

○ Classical bacterial microorganism incubator.



### Characteristics:

- New panel 5 degree angle, new glass inner door knob switch.
- The double door structure adopts high quality glass, easy to observe samples, the door with magnetic strip is easy to be opened and closed, good sealing and open door power-off function.

### Main Technical Parameters:

Model		DH3600 II	DH4000 II	DH5000 II	DH6000 II
		DH3600B II	DH4000B II	DH5000B II	DH6000B II
Cycle Mode		Natural convection			
Function	Temp. Range	RT+5-65℃			
	Temp. Resolution Ratio	0.1℃			
	Temp. Motion	± 0.5℃			
	Temp. Uniformity	± 1.5℃			
Structure	Inner Chamber	B :mirror stainless steel; without B :High strength galvanized sheet			
	Outer Shell	Cold rolling steel electrostatic spraying exterior			
	Insulation layer	Polyurethane			
	Heater	Mica electrothermal film			
	Power Rating	0.25kW	0.25kW	0.5kW	0.6kW
	Exhaust hole	φ 28mm top with function of test hole			
Controller	Temp. control mode	PID Intelligent			
	Temp. setting mode	Touch button setting			
	Temp. display mode	Measuring temperature: LED upper row; setting temperature: the lower row			
	Timer	0-9999min (with timing wait function)			
	Operation function	Fixed temperature operation, timing function, auto stop.			
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory			
Sensor	CU50				
Safety device		Over temperature sound-light alarm			
Specification	Inner Chamber size(W*L*H)(mm)	350*350*350	400*350*450	500*450*550	600*580*600
	Exterior size (W*L*H)(mm)	525*480*620	575*480*720	675*580*820	775*710*870
	Packing size (W*L*H)(mm)	605*572*775	655*572*875	755*672*975	855*802*1025
	Shelf number	7	9	13	14
	Load per rack	15kg			
	Shelf space	35mm			
	Current rating	AC220V/1.1A	AC220V/1.1A	AC220V/2.3A	AC220V/2.7A
	NW/GW (kg )	27/30	32/35	45/49	58/63
	Accessory	Shelf			
Optional accessories		Shelf			

## High Precision Constant Temperature Incubator

○ High precision bacterial microbial incubator.

### Characteristics:

- The double door structure adopts high quality glass, easy to observe samples, the outdoor with magnetic strip is easy to be opened and closed, good sealing, open door power-off function.
- Standard lights, UV lamps, with breeze circulation fan, 485 communication interface.
- Independent temperature limiter: imported mechanical temperature limiter, set the workroom limited temperature.



### Main Technical Parameters:

Model		DH45L	DH65L	DH125L	DH210L
Cycle Mode		Breeze circulation			
Function	Tem. Range	RT+5-65℃			
	Tem. Resolution Ratio	0.1℃			
	Tem. Motion	± 0.5℃			
	Tem. Uniformity	± 0.8℃			
Structure	Inner Chamber	Mirror stainless steel			
	Outer Shell	Cold rolling steel electrostatic spraying exterior			
	Insulation layer	Polyurethane			
	Heater	Mica electrothermal film			
	Power Rating	0.25kW	0.25kW	0.5kW	0.6kW
Exhaust hole		φ 28mm top(with function of test hole)			
Controller	Tem. control mode	PID Intelligent			
	Tem. setting mode	Touch button setting			
	Tem. display mode	Measuring temperature: LCD upper row; Setting temperature: the lower row			
	Timer	0-9999 min (with timing wait function)			
	Operation function	Fixed temperature operation, timing function, auto stop.			
	Additional function	LED Floodlight, Sensor deviation correction, temperature overshoot self-tuning, power-off parameter memory			
Sensor		PT100			
Safety device		Mechanical independent temperature limiter, over temperature sound-light alarm			
Specification	Inner Chamber size(W*L*H)(mm)	350*350*350	400*350*450	500*450*550	600*580*600
	Exterior size (W*L*H)(mm)	525*480*620	575*480*720	675*580*820	775*710*870
	Packing size (W*L*H)(mm)	605*572*775	655*572*875	755*672*975	855*802*1025
	Volume	45L	65L	125L	210L
	Shelf number	7	9	13	14
	Load per rack	15kg			
	Shelf space	35mm			
	Supply(50/60HZ)Current rating	AC220V/1.1A	AC220V/1.1A	AC220V/2.3A	AC220V/2.7A
Accessory	NW/GW (kg)	27/30	32/35	45/49	58/63
	Shelf	2			
Optional accessories		Shelf, USB interface, printer, recorder, External Communication, remote control, wireless SMS alarm			

## Constant-temperature Incubator

○ High precision experimental bacterial incubator.

### Characteristics:

- Unique vertical double duct supply horizontal air circularly.
- 4 grades 3 speed adjustable speed fan, LED running indicator light.
- Over-temperature protection system: LED red light on meanwhile cut off heating circuit to improve product safety when workroom temperature exceed the alarm value.
- Setting the workroom limit temperature on imported mechanical temperature limiter.



### Main Technical Parameters:

Model		WPL-30BE	WPL-45BE	WPL-65BE	WPL-85BE	WPL-125BE	WPL-230BE
Cycle Mode		Forced convection					
Function	Temp. range	RT+5-120℃					
	Temp. Resolution Ratio	0.1℃					
	Temp. Motion	± 1℃					
	Temp. Uniformity	± 1.0℃					
Structure	Inner Chamber	Mirror Stainless Steel					
	Outer Shell	Cold rolling steel electrostatic spraying exterior					
	Insulation layer	Compound silicate heat preservation board					
	Heater	Stainless steel heater					
	Power rating	0.4kW	0.5kW	0.7kW	0.9kW	1.1kW	1.5kW
Exhaust hole		φ 28mm top( with function of test hole)					
Controller	Temp control mode	Two temperature section intelligent PID					
	Temp. setting mode	Touch button setting					
	Temp. display mode	Measuring temperature: LCD upper screen; setting temperature: the lower row					
	Timer	0-9999min(with timing wait function)					
	Operation function	Fixed temperature operation, timing function, auto stop.					
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory					
Sensor		pt100					
Specification	Inner Chamber size(W*L*H)(mm)	310*310*310	350*350*350	400*360*450	450*420*450	500*450*550	600*500*750
	Exterior size (W*L*H)(mm)	460*510*695	500*550*735	550*550*840	590*610*830	636*680*915	730*680*1250
	Packing size (W*L*H)(mm)	550*585*845	590*625*885	640*635*985	690*695*985	740*725*1085	860*790*1400
	Volume	30L	45L	65L	85L	125L	230L
	Shelf number	6	7	9	9	13	17
	Load per rack	15kg					
	Shelf space	35mm					
	Current rating	220V/3.6A	220V/5.5A	220V/7.2A	220V/9.0A	220V/10.5A	220V/13.6A
	NW/GW (kg)	33/37	37/43	44/49	50/56	60/66	94/120
	Accessory	Shelf					
Optional accessories		Shelf,RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage					



## Portable Incubator

○ Can carry the training equipment everywhere.



### Main Technical Parameters:

Model		DH2500AB
Cycle Mode		Natural convection
Function	Tem. Range	RT+5-50°C
	Tem. Resolution Ratio	0.1°C
	Tem. Motion	± 0.5°C
	Tem. Uniformity	± 1.5°C
	Inner Chamber	Mirror stainless steel
Structure	Outer Shell	Cold rolling steel electrostatic spraying exterior
	Insulation layer	Polyurethane
	Heater	Heating Wire
	Power Rating	0.3kW
Controller	Tem. control mode	PID Intelligent
	Tem. setting mode	Touch button setting
	Tem. display mode	Measuring temperature: LED upper row ; Setting temperature: the lower row
	Timer	0-9999min (with timing wait function)
	Operation function	Fixed temperature operation, timing function, auto stop.
	Additional function	Sensor deviation correction, temperature overshoot self-tuning, internal parameter locking, power-off parameter memory
	Sensor	CU50
	Safety device	
Specification	Inner Chamber size(W*L*H)(mm)	200*160*230
	Exterior size (W*L*H)(mm)	300*330*330
	Packing size (W*L*H)(mm)	340*370*390
	Volume	7.4L
	Supply(50/60HZ)Current rating	AC220V/1.3A
	NW/GW (kg )	9/11
Optional accessories		Vehicular supply/DC12Vsupply

## Cooling Incubator/Refrigerated Incubator BOD Incubator

○ Various constant temperature experiments and environmental tests at 0-65 C, water analysis, microbe culture of BOD / bacteria, plant breeding, and sample preservation.

### Characteristics:

- Unique inner wind circulation structure make sure uniform temperature of inner chamber.
- Front: high-illumination LCD color display;  
Right Side:temperature limiter, dual protection for more safety, power outlet and φ45mm test hole, easy for testing and connecting with the external power supply.
- With universal wheel, easy to move. The bottom cabinet can be opened, easy to clean condenser.
- Automatic Dissolve frost, with double evaporators for slight temperature fluctuation.
- BL series:  
● 5 inch LDP display program controller, touch panel easy for operation.  
● USB data transfer interfaces and PC Software.



### Main Technical Parameters:

Model		SPX-70BIV	SPX-150BIV	SPX-250BIV
		SPX-70BL	SPX-150BL	SPX-250BL
Cycle Mode		Forced convection		
Function	Temp. range	0 - 65°C		
	Temp. Resolution Ratio	0.1°C		
	Temp. Motion	High Temp.: ± 0.5°C Low Temp.: ± 1°C		
	Temp. Uniformity	± 1°C		
	Inner Chamber	Mirror Stainless Steel		
Structure	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Polyurethane		
	Heater	Stainless steel heater		
	Power rating	0.8kW	1.0kW	1.2kW
	Compressor	Air cooled hermetic compressor		
	Cryogen	R134a		
	Defrost structure	Automatic control intelligent defrosting		
	Test hole	Stainless steel inner diameter 45mm(one)		
	Controlled external power supply	Universal socket (one)		
	Temp. setting mode	Touch button setting		
	Temp. display mode	Measuring temperature: LCD upper screen; setting temperature: the lower row		
	Timer	0 - 99.9h x 30 Segment		
	Operation function	Fixed value operation, timing function, auto stop.		
	Sensor	Program operation PT100		
	Additional function	BIV model: LED light, Deviation correction, Menu key lock, Power failure parameter memory BL model additional character: UV light, loop self diagnosis		
Safety device		Over temperature alarm, mechanical temperature limiter		
Specification	Inner Chamber size(W*L*H)(mm)	420*350*500	500*500*600	600*500*840
	Exterior size (W*L*H)(mm)	580*610*1190	660*760*1290	760*760*1530
	Packing size (W*L*H)(mm)	708*716*1368	788*866*1468	888*866*1708
	Volume	70L	150L	250L
	Load per rack	15kg		
	Shelf number	9	12	18
	Shelf space	35mm		
	Power Supply Current rating	AC220V/2.3A	AC220V/3.6A	AC220V/5.5A
Accessory	NW/GW (kg )	69/92	86/114	100/139
	Shelf	2		
Optional accessories		Shelf, Touch screen controller, RS485 interface, Printer, Recorder, Remote control, Wireless SMS alarm, USB data storage		

## Mould Cultivation Cabinet

○ Constant temperature experiments and environmental tests for the need for humidity.

### Characteristics:

- Unique internal wind circulation, fan breeze circulation.
- Large screen LCD intelligence PID, multi group data display on screen.
- The double door structure, with high quality glass easy to observe the samples, the outer door with magnetic strip, good sealing.
- The upgraded humidifying system has the advantages of small particles, good humidity uniformity and low water consumption.

### BI model additional characteristics:

- LCD display 30 stage programs control, ladder operation; Imported humidity sensor module, humidity automatic control, high precision.
- Loop self diagnosis, sensor fault alarm.



### Main Technical Parameters:

Model		MJX-70BIII MJX-70BL	MJX-150BIII MJX-150BL	MJX-250BIII MJX-250BL
Cycle Mode		Forced convection		
Function	Temp. range	No humidification: 0 ~ 65°C; humidification: 10 ~ 65°C		
	Temp. Resolution Ratio	0.1°C		
	Temp. Motion	High Temp.: ± 0.5°C Low Temp.: ± 1°C		
	Temp. Uniformity	± 1°C		
	Humidity Range	50% ~ 90%RH		
	Humidity Stability	± 5%RH		
Structure	Inner Chamber	Mirror Stainless Steel		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Polyurethane		
	Heater	Stainless steel heater		
	Power rating	0.8kW	1.0kW	1.2kW
	Compressor	Air cooled hermetic compressor		
	Cryogen	R134a		
	Defrost structure	Automatic control intelligent defrosting		
	Humidifying method	External		
	Test hole	Stainless steel inner diameter 50mm(one)		
	Controlled external power supply	Universal socket (one)		
	Temp. setting mode	Touch button setting		
	Temp. display mode	Measuring temperature: LCD upper row; Setting temperature: the lower row		
	Humidity control mode	BIII model: Manual; BL model: Auto		
Timer	BIII model: 0 ~ 99.9h BL model: 0 ~ 99.9h x 30 Segment ( with timing wait function )			
Operation function	BIII model: Fixed value operation, timing function, auto stop.			
Sensor	BL model: Program operation			
Humidity sensor	PT100			
Additional function	BIII model: LED light, Deviation correction, Menu key lock, Power failure parameter memory BL model additional character: UV light, loop self diagnosis			
Safety device		Over temperature alarm, mechanical temperature limiter		
Specification	Inner Chamber size(W*L*H)(mm)	420*350*500	500*500*600	600*500*840
	Exterior size (W*L*H)(mm)	580*610*1190	660*760*1290	760*760*1530
	Packing size (W*L*H)(mm)	708*716*1368	788*866*1468	888*866*1708
	Volume	70L	150L	250L
	Load per rack	15kg		
	Shelf number	9	12	18
	Shelf space	35mm		
	Supply ( 50/60Hz ) Current rating	AC220V/2.3A	AC220V/3.6A	AC220V/5.5A
NW/GW (kg )	69/92	86/114	100/139	
Accessory	Shelf			
Optional accessories		Shelf, Touch screen controller, RS485 interface, Printer, Recorder, Remote control, Wireless SMS alarm, USB data storage		

## Constant Temperature and Humidity Incubators

○ Constant temperature experiment and environmental test of humidity range.

### Characteristics:

- Unique internal wind circulation, fan breeze circulation.
- Intelligent PID temperature control system, high temperature control accuracy. imported humidity sensor module.
- The double door structure, with high quality glass easy to observe the samples, the outer door with magnetic strip, good sealing.
- The upgraded humidifying system has the advantages of small particles, good humidity uniformity and low water consumption.



### Main Technical Parameters:

Model		HWS-70B	HWS-150B	HWS-250B
Cycle Mode		Forced convection		
Function	Temp. range	No humidification: 0 ~ 65°C; humidification: 10 ~ 65°C		
	Temp. Resolution Ratio	0.1°C		
	Temp. Motion	High Temp.: ± 0.5°C Low Temp.: ± 1°C		
	Temp. Uniformity	± 1°C		
	Humidity Range	45% ~ 95%RH		
	Humidity Stability	± 5%RH		
Structure	Inner Chamber	Mirror Stainless Steel		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Polyurethane		
	Heater	Stainless steel heater		
	Power rating	0.8kW	1.0kW	1.2kW
	Compressor	Air cooled hermetic compressor		
	Cryogen	R134A		
	Defrost structure	Automatic control intelligent defrosting		
	Humidifying method	External		
	Test hole	Stainless steel inner diameter 50mm(one)		
	Controlled external power supply	Universal socket (one)		
	Temp. control mode	30 section LCD program		
	Temp. setting mode	Touch button setting		
	Temp. display mode	Measuring temperature: LCD upper row; Setting temperature: the lower row		
Humidity control mode	Automatic			
Timer	0 ~ 99.9h x 30 section ( with timing wait function )			
Operation function	Program operation, timing function, auto stop.			
Sensor	PT100			
Additional function	UV lamp, LED light, Deviation correction, Menu key lock, Self diagnosis of power failure parameter memory loop			
Safety device		Over temperature alarm, mechanical temperature limiter		
Specification	Inner Chamber size(W*L*H)(mm)	420*350*500	500*500*600	600*500*840
	Exterior size (W*L*H)(mm)	580*610*1190	660*760*1290	760*760*1530
	Packing size (W*L*H)(mm)	708*716*1368	788*866*1468	888*866*1708
	Volume	70L	150L	250L
	Load per rack	15kg		
	Shelf number	9	12	18
	Shelf space	35mm		
	Power Supply ( 50/60Hz ) Current rating	AC220V/2.3A	AC220V/3.6A	AC220V/5.5A
NW/GW (kg )	69/92	86/114	100/139	
Accessory	Shelf			
Optional accessories		Shelf, Touch screen controller, RS485 interface, Printer, Recorder, Remote control, Wireless SMS alarm, USB data storage		

## Climate Chamber With Illumination

Light culture of microorganism, cell tissue, seedling, insect and small animal.



### Main Technical Parameters:

Model	3-side Illumination	GZX250E	GZX300E	GZX400E
	4-side Illumination	GZX250EF	GZX300EF	GZX400EF
Cycle Mode		Forced convection		
Function	Tem. Range	Without illumination: 0-65°C; with illumination: 10-65°C		
	Tem. Resolution Ratio	0.1°C		
	Tem. Motion	± 1°C		
	Tem. Uniformity	± 1.5°C		± 2.0°C
	Illuminance (LX)	0-15000LX 6 degrees for adjusting		
Structure	Inner Chamber	sus304 mirror stainless steel		
	Outer Shell	cold rolling steel electrostatic spraying exterior		
	Insulation layer	Polyurethane		
	Heater	Stainless steel heater		
	Power Rating	1.0kW	1.1kW	1.2kW
	Compressor	Air-cooled hermetic compressor		
	Coolant	R134A		
Controller	Defrosting Structure	Automatic		
	Leading wire hole	No		
	Tem. control mode	30 sections LCD program		
	Tem. setting mode	Touch button setting		
	Tem. display mode	Measuring temperature: LCD upper row; Setting temperature: the lower row		
	Timer	0 - 99.9h x 30 ( with timing wait function )		
	Operation Function	Fixed temperature operation, timing function, auto stop/ appointment start, program run		
	Program Pattern	Standard configuration		
	Sensor	Pt100		
	Additional Function	Deviation correction, menu locked, power failure back-up, power failure memory, intelligent defrosting		
Safety Device		Over temperature alarm, circuit diagnosis		
Specification	Inner Chamber size(W*L*H)(mm)	500*530*950	550*580*950	590*620*1100
	Exterior size (W*L*H)(mm)	690*705*1650	740*755*1650	780*795*1800
	Packing size (W*L*H)(mm)	890*905*1870	940*955*1870	980*990*2020
	Volume	250L	300L	400L
	Load Per Rack	15KG		
	Shelf Number	6		7
	Shelf Space	120mm		
Accessories	Current Rating ( 50/60Hz )	AC220V/4.5A	AC220V/5.0A	AC220V/5.5A
	NW/GW (kg )	76/117	78/119	81/122
	Shelf	2		
Optional accessories		interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage		

## Climate Chamber with Humidity Control Plant Growth Chamber

Light culture of microorganism, cell tissue, seedling, insect and small animal under the control of precise humidity.

### Characteristics:

- Independent humidification, humidity is uniform.
- Centrifugal turbo forced air supply, the temperature is more uniform.
- Intelligent frost.



### Main Technical Parameters:

Model	3-side Illumination	RGX250E	RGX300E	RGX400E
	4-side Illumination	RGX250EF	RGX300EF	RGX400EF
Cycle Mode		Forced convection		
Function	Tem. Range	Without illumination: 0 - 65°C; with illumination: 10 - 65°C		
	Tem. Resolution Ratio	0.1°C		
	Tem. Motion	± 1°C		
	Tem. Uniformity	± 1.5°C		± 2.0°C
	Illumination (LX)	0-15000LX 6 degrees for adjusting		
Structure	Humidity Range	40% - 90%RH		
	Humidity Motion	± 7% RH		
	Inner chamber	sus304 mirror stainless steel		
	Outer Shell	Cold rolling steel electrostatic spraying exterior		
	Insulation layer	Polyurethane		
	Heater	Stainless steel heating tube		
	Power Rating	1.0kW	1.1kW	1.2kW
	Compressor	Air cooled hermetic compressor		
	Coolant	R134A		
	Defrosting Structure	Automatic		
Controller	Humidity control mode	Automatic		
	Leading wire hole	No		
	Tem. control mode	30 sections LCD program		
	Tem. setting mode	Touch button setting		
	Tem. display mode	Measuring temperature: LCD upper row; setting temperature: the lower row		
	Timer	0 - 99.9h x 30 ( with timing wait function )		
	Operation function	Fixed temperature operation, timing function, auto stop.		
	Program pattern	Standard configuration		
	Sensor	Pt100		
	Additional function	Deviation correction, menu locked, power failure back-up, power failure memory, intelligent defrosting		
Safety device		Over temperature sound-light alarm, Circuit diagnosis		
Specification	Inner Chamber size(W*L*H)(mm)	500*530*950	550*580*950	590*620*1100
	Exterior size (W*L*H)(mm)	690*705*1650	740*755*1650	780*795*1800
	Packing size (W*L*H)(mm)	890*905*1870	940*955*1870	980*990*2020
	Volume	250L	300L	400L
	Load per rack	15kg		
	Shelf number	6	6	7
	Shelf space	120mm		
Accessories	Supply ( 50/60Hz ) Current rating	AC220V/4.5A	AC220V/5.0A	AC220V/5.5A
	NW/GW (kg )	76/117	78/119	81/122
	Shelf	2		
Optional accessories		Shelf, RS485 interface, printer, program temperature control device, remote control, wireless SMS alarm, USB data storage		

## Cooling Shaking Incubator

○ Vertical constant temperature oscillating equipment with multiple amplitudes.

### Characteristics:

- Large-screen LCD, shows temperature, speed, working time. menu operation interface, easy to operate.
- Multi-segment speed, temperature, time control system, a variety of different speed, temperature, time experiment mode can be set at one time, automatic conversion during operation.
- Standard UV sterilization, unique air duct breeze circulation, independent over temperature limiter, automatic cut off heating after over limit temperature.
- Speed control : intelligent brushless DC motor, high speed accuracy, slow start design, auto lock if speed out of control. adjustable starting speed to prevent the splash of shake flask liquid.



### Main Technical Parameters:

Model	Vertical single door		Vertical double door		
	FSI-200	FSI-200B	FSI-550	FSI-550B	
<b>Oscillation Mode</b>					
Horizontal Cyclotron Oscillation					
Function	Temp. Range	RT+5 - 65°C	4 - 65°C	RT+5 - 65°C	4 - 65°C
	Temp. Resolution	0.1°C			
	Temp. Motion	± 0.5°C			
	Temp. Uniformity	± 1°C			
	Amplitude	φ 26mm(can customizer φ 20 - 50mm)			
	Rotary Speed	30 - 300rpm			
Structure	Rotary Speed Precision	± 1rpm			
	Chamber Material	Mirror Stainless Steel			
	Outer Shell	Cold rolling steel electrostatic spraying exterior			
	Thermal Insulation Material	Polyurethane			
	Heater	Stainless steel heating tube			
	Drive Mode	Multi-dimensional drive			
	Shelf	Mirror Stainless Steel			
	Wind cycle mode	Breeze circulation			
	Cooling System	No	Yes	No	Yes
	Power Rating	1.2kW		1.6kW	
Controller	Temp. Control Mode	LCD PID intelligent control			
	Cyclotron Control Mode	LCD PID intelligent control			
	Setting Mode	Touch button setting			
	Temp. Display Mode	LCD display			
	Speed Display Mode	LCD display			
	Timer	0 - 9999min ( with timing wait function )			
	Operation Function	Fixed value operation, timing function, bidirectional automatic switchover, auto stop, quick stop start			
	Temperature Sensor	Pt100			
Speed Sensor	Hoare				
Gating System	Yes				
Additional Function	Deviation correction, menu keys locked, power-off memory				
<b>Safety Device</b>					
over temperature alarm, menu locked, gating system, power-off protection, plugging turn protection					
Specification	Inner Chamber Size (W*L*H)(mm)	600*480*700	870*690*900		
	Exterior Size (W*L*H)(mm)	720*730*1530	1200*800*1600		
	Packing Size (W*L*H)(mm)	910*920*1770	1385*1010*1840		
	Shelf Size ( mm )	505*380	775*555		
	Max capacity of Shelf for single specification(ml/pc)	50*44/100*44/250*26/500*20/750*18		50*120/100*120/250*66/500*56/750*40/1000*30	
	Number of flask clamp as standar ( ml/pc )	250*24		500*40	
	Inside Volume	200L		540L	
	Shelf Load Bearing	50kg/layer			
	Shelf Layer	2			
	Shelf Layer	340mm		430mm	
Power Supply ( 50/60Hz ) Current Rating	AC220V/5.1A		AC220V/7.0A		
NW/GW (kg )	220/260		335/385		
Optional Accessories	RS485 interface, printer, recorder, remote control, wireless SMS alarm, USB data storage				

## Multifunctional Water Baths Shaker

○ Low noise and steady reciprocating oscillating water bath cultivation equipment.

### Characteristics:

- Large-screen background LCD, shows the measured value, set value and the setting time and the remaining time.
- High-precision temperature control. resume operation automatically if power off unexpectedly.
- High-precision speed control: PID feedback control, motor speed stable and accurate. slow start design, automatically locked after speed out of control, adjustable start speed prevent splashing of shaking bottle liquid.
- Tube rack and water bath flask seat for standard configuration, with function of water bath.



### Main Technical Parameters:

Model	FWS-30	
<b>Mode</b>		
Reciprocating oscillation + thermostatic water bath		
Function	Operating Temp Range	RT ~ 100°C
	Tem. Resolution Ratio	0.1°C
	Tem. Motion	± 0.1°C
	Tem. Uniformity	± 0.2°C
	Reciprocal Oscillation Amplitude	16 or 24mm (Ex-factory is 24mm)
	Reciprocating Frequency Range	20 - 200 ( r/min )
Structure	Reciprocating Frequency Accuracy	± 1rpm
	Water Tank	Mirror stainless steel
	Outer Shell	Cold rolling steel electrostatic spraying exterior
	Upper Cover	Mirror stainless steel
	Insulating Layer	Polyurethane
	Heater	Stainless Steel Heater
	Driving Mode	Crankshaft+ double link + four wheels
	Shelf	Mirror stainless steel
	Power rating	1.5kW
	Controller	Tem. Control Mode
Reciprocating Control Mode		LCD PID Intelligent control
Setting Mode		Touch button setting
Tem. Display Mode		LCD Display
Speed Display Mode		LCD Display
Timer		0 - 9999 min
Operation Function		Fixed value operation, timing function, auto stop, quickly stop start
Temperature Sensor		Pt100
Speed Sensor	Hoare	
Additional Function	Deviation correction, menu keys locked, power-off memory	
<b>Safety device</b>		
over temperature alarm, menu locked, water full or shortage protection, Motor shaft lock protection;		
Specification	Water Tank Size (W*L*H)(mm)	500*310*200
	Exterior Size (W*L*H)(mm)	828*360*425
	Packing Size (W*L*H)(mm)	908*440*505
	Spring Shock Basket Size ( mm )	395*250
	Shock Basket Largest Single Size (ml /piece)	100ml*12/250*8/500*6
	Inside Volume	31L
	Shock Basket Bearing	5kg/layer
	Current Rating ( 50Hz )	AC220V/6.8A
NW/GW (kg )	20/30	
Accessories	Water bath flask seat, tube rack	

## Constant Temperature Shaking Incubator

○ Small desktop constant temperature shaking culture equipment.

### Characteristics:

- Large-screen LCD, shows temperature, speed, working time, menu operation interface, easy to operate.
- Microcomputer control temperature and oscillation frequency with timing functions, built-in power-off protection can automatically resume operation after power on.
- Unique air duct breeze circulation, large observation window.
- Speed control : intelligent brushless DC motor, high speed accuracy, slow start design, auto lock if speed out of control, adjustable starting speed to prevent the splash of shake flask liquid.



### Main Technical Parameters:

Model		FS-50B	FS-70B
Shaking Mode		Cyclotron Oscillation	
Function	Amplitude	Φ20mm	
	Temp. Resolution	0.1℃	
	Temp. Motion	± 0.1℃	
	Temp. Uniformity	± 1℃	
	Temp. Range	RT+5 ~ 65℃	4 ~ 65℃
	Rotary Speed	30 ~ 300rpm	30 ~ 300rpm
Rotary Speed Precision		± 1rpm	
Structure	Chamber Material	Mirror Stainless Steel	
	Outer Shell	ABS	
	Observation Window Material	Imported resin	
	Thermal Insulation Material	Polyurethane	
	Cooling System	No	Yes
	Coolant	No	R134a
	Heater	Stainless steel heating tube	
	Drive Mode	Three-axis level	
	Oscillating Plate	Spring Wire Rack	
	Air Circulation Mode	Horizontal convection	
Power Rating		0.6kW	0.8kW
Controller	Temp. Control Mode	LCD PID intelligent control	
	Cyclotron Control Mode	Automatic changes of rotation direction	
	Setting Mode	Touch button setting	
	Temp. Display Mode	LCD display	
	Speed Display Mode	LCD display	
	Timer	0 ~ 9999min	
	Operation Function	Fixed value operation, timing function, bidirectional automatic switchover, auto stop, quick stop start	
	Temperature Sensor	Pt100	
	Speed Sensor	Hoare	
	Gating System	Yes	
Additional Function		Deviation correction, menu keys locked, power-off memory	
Safety Device		over temperature alarm, menu locked, gating system, power-off protection, plugging turn protection	
Specification	Inner Chamber Size (W*L*H)(mm)	455*380*290	560*390*320
	Exterior Size (W*L*H)(mm)	500*640*480	600*770*500
	Packing Size (W*L*H)(mm)	550*690*530	940*780*655
	Shelf Size (mm)	380*320	480*315
	Max capacity of Shelf for single specification(ml/pc)	100ml*16/250*10/500*6	100ml*28/250*15/500*8/1000*6
	Number of flask clamp as standard (ml/pc)	250*8	250*12
	Inside Volume	50L	70L
	Shelf Load Bearing	≤10kg/layer	≤15kg/layer
	Shelf Layer	1	
	Power Supply (50/60Hz) Current Rating	AC220V/2.5A	AC220V/3.5A
NW/GW (kg)	25/35	65/85	

## Decoloration Shaker

○ Experiment of sample shake in solution, fixation of electrophoretic gel separate band, oscillate shaking of coomassie blue dyeing and decolorization, Immobilization, staining and development of silver nitrate.

### Characteristics:

- Temperature setting, measuring, and running state show on one large LCD screen, with rotary encoder switch.
- The operating parameters can be remembered and protected, automatically resume operation if the power supply cut off.
- Speed control : intelligent brushless DC motor, high speed accuracy, slow start design, auto lock if speed out of control, adjustable starting speed to prevent the splash of shake flask liquid.



### Main Technical Parameters:

Model		FBS-O20
Shaking Mode		Cyclotron oscillation
Function	Amplitude	φ 20mm
	Rotary Speed range	30 ~ 200 ( r/min )
	Rotary Speed Precision	± 1rpm
Structure	Out Shell	ABS
	Motor type	Brushless motor
	Tray	Anodizing Alluminum
	Driving mode	Four horizontal points
Power rating		0.03kW
Controller	Cyclotron Control Mode	LCD, PID intelligent control
	Cyclotron Setting Mode	Rotary coding switch
	Speed display Mode	LCD display
	Timer	0 ~ 9999 min ( with timing function )
	Operation function	Fixed value operation, timing function, bidirectional automatic switchover, auto stop, quick stop start
	Speed Sensor	Hoare
Additional function		Deviation calibration, power-off memory
Safety device		Intelligent low speed start, blocking protection
Specification	Exterior size (W*L*H)(mm)	365*450*222
	Packing size (W*L*H)(mm)	415*500*275
	Tray size ( mm )	320*320
	Load per tray	≤5kg
	Tray Number	1
	Supply ( 50/60Hz ) Current rating	AC220V/0.14A
NW/GW (kg)		10/15

## Ceramic Fiber Muffle Furnace

○ Sintering, melting, elemental analysis and physical measurement within 1200°C of precise control.

### Characteristics:

- Mirror stainless steel mouth, long-term use will not change color.
- Imported double insulated ceramic liner, stable performance
- Vacuum forming polycrystalline mullite fiber furnace, high efficiency insulation.
- In the double shell, the air sleeve is insulated, and the double guiding air passage.

### SX4 model also has the following characteristics:

- Adding exhaust devices is beneficial to ashing.
- Split design, circuit detachable, easy to maintenance and repair.
- P model is program temperature control type. program temperature controller can programme multistage program.



### Main Technical Parameters:

Model	SX3-2.5-12	SX3-5-12	SX3-8-12	SX3-10-12	
	SX3-2.5-12B	SX3-5-12B	SX3-8-12B	SX3-10-12	
SX4-2-12	SX4-7-12	SX4-12-12	SX-16-12		
SX4-2-12B	SX4-7-12	SX4-12-12	SX-16-12		
SX4-2-12P	SX4-7-12P	SX4-12-12P	SX4-16-12P		
SX4-2-12PB	SX4-7-12PB	SX4-12-12PB	SX4-16-12PB		
Heating mode	Alloy wire heating in three sides left; right; top side.				
Function	Temp.Range	100-1200°C			
	Temp.Resolution Ratio	1°C			
	Temp.motion	±1°C			
	Temp.Rising time to max temp	±30min			
Structure	Chamber material	Ceramic fiber			
	Outer Shell	Cold rolling steel electrostatic spraying exterior;Bmodel:stainless steel			
	Insulation layer	Ceramic fiber			
	Heater	Alloy heating wire			
	Power rating	1.5kW	3.0kW	4.5kW	6.0kW
Exhaust hole	Φ30mm top(chimney size 80*60mm)				
Controller	Temp.control mode	SX3 model:domestic brand single controller;SX4 model:Imptrted single controller form Japan; P model:imported 40 sections program temperature control device form Japan			
	Temp.setting mode	Touch button setting			
	Temp.display mode	Measuring temperature:LED upper screen;setting temperature:the lower row			
	Timer	0-9999min(with timing wait function) SX3 Series no timing function			
	Operation function	Fixed temperature operation,timing function,auto stop.			
	Additional function	Sensor deviation correction,temperature overshoot self-tuning,internal parameter locking,power-off parameter memory			
Sensor	SX3:Platinum-rhodium sensor;SX4:High precision K type sensor				
Safety device	Manual door security lock,over temperature overshoot sound-light alarm,door opening electrical outage,over-temperature protection,thermocouple failure				
Specification	Inner Chamber size(W*L*H)(mm)	120*200*80	200*300*120	200*300*200	250*400*160
	Exterior size(W*L*H)(mm)	450*685*600	530*785*640	530*785*720	600*895*700
	Packing size(W*L*H)(mm)	580*775*730	660*875*770	660*875*850	730*985*830
	Volume	2L	7L	12L	16L
	Current rating(50/60HZ)	AC220V/6.6A	AC220V/13.6A	AC220V/20.4A	AC380V/9.9A
	NW/GW (kg)	33/37	45/50	62/68	77/96
Optional accessories	LCD program temperature control device with USD data storage				

## Laminar Flow Cabinet (Vertical Type)

○ Vertical flow, airflow direction in the work space down from top to bottom.

### Characteristics:

- Vertical laminar flow, with SUS 304 stainless steel bench board, effectively prevents external air into the cleaning work environment.
- High quality low noise centrifugal fan ensures the stable speed. touch type air flow control system, the five sections wind speed control.
- High quality filter ensures dust can be filtered more than 0.3um.



### Main Technical Parameters:

Model	CJ-1D	CJ-1S	CJ-2D	CJ-2S
Applicable Station	one person one side	one operator two sides	two persons one side	two operators two sides
Airflow Direction	Vertical			
Function	Cleanliness	Class 100		
	Collection Efficiency	≥99.9% of 0.5um particle		
	Colony Count	≤0.5/vessel (petri dish is φ90mm)		
	Wind Speed	initial:0.6 ( m/s ) ,final: 0.2 ( m/s )		
	Wind Speed Range	0.2-0.6 ( m/s )		
	Noise Level	≤62db		
	Vibration Semi-Peak Value	≤3um		
	Illumination Intensity ( Lx )	≥300LX ( Activity Center )		
	Work Surface Bearing	50kg		
	Composition	Inner Chamber	Stainless steel plate	
Outer Shell		Cold rolling steel electrostatic spraying exterior		
Operation door		Tempered Glass		
HEPA Filter ( mm )		820*600*50 one piece	610*610*50 two pieces	
Pre-Filter ( mm )		520*490*5 one piece	520*490*5 two pieces	
Fluorescent Lamp		20W*1	30W*1	
UV Lamp		20W*1	30W*1	
Top Fan		300W one piece	300W two pieces	
Display		LED		
Wind Speed Control		Intelligent multi-level adjustable		
Additional Function	The bottom horizontal adjustment, one key to open and close lighting sterilization			
Specification	Inner Size (W*L*H)(mm)	780*670*550	780*780*550	1310*710*550
	Exterior Size (W*L*H)(mm)	935*725*1690	935*780*1690	1487*733*1690
	Packing Size (W*L*H)(mm)	1100*900*1385	1100*960*1385	1655*905*1840
	Max Power	0.4kW		0.8kW
	Current Rating ( 50/60Hz )	AC220V/1.8A		AC220V/3.6A
	NW/GW kg	160/225	165/230	200/305
				205/310

## Laminar Flow Cabinet (Horizontal Type)

○ The horizontal flow, airflow direction from the back to the forward.

### Characteristics:

- Horizontal laminar flow, with SUS 304 stainless steel bench board, effectively prevents external air into the cleaning work environment.
- High quality low noise centrifugal fan ensures the stable speed. touch type air flow control system, the five sections wind speed control.
- High quality filter ensures dust can be filtered more than 0.3um.



### Main Technical Parameters:

Model	HS840	HS1300
Applicable Station	one person one side	two persons one side
Airflow Direction	Horizontal	
Cleanliness	Class 100	
Collection Efficiency	≥99.9% of 0.5um particle	
Colony Count	≤0.5/vessel (petri dish is φ90mm)	
Wind Speed	initial:0.6 ( m/s ) , final: 0.2 ( m/s )	
Wind Speed Range	0.2-0.6 ( m/s )	
Noise Level	≤62db	
Vibration Semi-Peak Value	≤3um	
Illumination Intensity ( Lx )	≥300LX ( Activity Center )	
Work Surface Bearing	50kg	
Inner Chamber	Stainless steel plate	
Outer Shell	Cold rolling steel electrostatic spraying exterior	
Operation door	No	
HEPA Filter ( mm )	760*610*50 one piece	610*610*50 two pieces
Pre-Filter ( mm )	760*610*5 one piece	610*610*5 two pieces
Fluorescent Lamp	20W*1	30W*1
UV Lamp	20W*1	30W*1
Bottom Fan	300W one piece	300W two pieces
Display	LED	
Wind Speed Control	Intelligent multi-level adjustable	
Additional Function	The bottom horizontal adjustment, one key to open and close lighting sterilization	
Inner Size (W*L*H)(mm)	660*650*570	1210*660*570
Exterior Size (W*L*H)(mm)	840*825*1340	1300*810*1440
Packing Size (W*L*H)(mm)	1040*1020*1620	1460*990*1570
Max Power	0.4kW	0.8kW
Current Rating ( 50/60Hz )	AC220V/1.8A	AC220V/3.6A
NW/GW kg	120/170	170/235

## Mini Laminar Flow Cabinet

○ Table type clean equipment.

### Characteristics:

- HEPA filter with efficiency: 99.9999% at 0.3um.
- Microprocessor control system, LED Display.
- Manual front window is 5mm toughened glass, anti-ultraviolet radiation.
- Air speed adjustable.
- Desktop type, with a handle, saving space and easy to move.
- Pre-filter is polyester fiber, washable and anti-ultraviolet radiation.



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### Main Technical Parameters:

Model	CJ-600P	CJ-600N
Application Scope	Protect experiment samples	Protect operator and environment
Airflow Direction	Vertical	
Cleanliness	Class 100	
HEPA Filter	≥99.9% of 0.5um particle	
Colony Count	0.5/vessel (petri dish is φ90mm)	
Wind Speed	initial:0.6 ( m/s ) ; final: 0.2 ( m/s )	>0.5 ( m/s )
Wind Speed Range	0.2-0.6 ( m/s )	
Noise Level	≤62db	
Vibration Semi-Peak Value	≤3um	
Work surface bearing	10kg	
Inner Chamber	SUS304 Stainless steel plate	
Outer Shell	Cold rolling steel electrostatic spraying exterior	
Operation door	Tempered glass	
Operation door biggest opening	310mm	
Pre-Filter	Polyurethane	
LED Lamp	8W*1	
UV Lamp	8W*1	
Top Fan	90W one piece	
Display	LED	
Wind Speed Control	Intelligent multi-level adjustable	
Additional Function	One key to open and close lighting sterilization	
Inner Size (W*L*H)(mm)	480*340*370	
Exterior Size (W*L*H)(mm)	550*460*700	
Packing Size (W*L*H)(mm)	680*590*850	
Max Power	0.11kW	
Current Rating ( 50/60Hz )	AC220V/0.5A	
NW/GW kg	36/41	
Optional Accessories	No	

## Magnetic Stirrer

○Magnetic mixing equipment with heating.

### Characteristics:

- Heating power and stirring speed is stepless adjustable.
- With adjustable thermometer rack, stainless steel rods and the stir bar.



### Main Technical Parameters:

Model		SH-2A	SH-2B	SH-2	SH-3A	SH-3B	SH-3
Function	Max. Volume (ml)	-	2000	2000	-	5000	5000
	Speed (r.p.m)	-	100-2000		-	100-2000	
	Working time	Continuous					
	Minimum revolution (r.p.m)	-	100	100	-	100	100
	Max.Temp. ( °C )	380	-	380	380	-	380
Structure	Exterior	Cast aluminium, Surface spraying					
	Plate size(mm)	120 × 120			170 × 170		
	Driving mode	-	Motor		-	Motor	
	Motor power (W)	-	10		-	20	
	Heating Power(kW)	0.18	-	0.18	0.5	-	0.5
	Stir bar	-	PTFE		-	PTFE	
Controller	Continuous operation	Yes					
	Setting mode	Scale					
	Speed display mode	-	Scale		-	Scale	
	Timer	No					
	Operation function	No					
	Temp. Sensor	No					
Specification	Exterior size (W*L*H)(mm)	200 × 120 × 90			265 × 185 × 190		
	Packing size (W*L*H)(mm)	250 × 180 × 120			280 × 210 × 150		
	Plate size ( mm )	120 × 120			170 × 170		
	Plate load	3KG			10KG		
	Power supply ( 50/60Hz )	110V or 220V					
	Current rating						
NW/GW (kg )	1.9/3	1.9/3	1.9/3	2.2/3.4	2.2/3.4	2.2/3.4	

## Ceramic Magnetic Stirrer

○Magnetic stirring ceramic equipment with heating.

### Characteristics:

- Stretched shell and cover prevent leaking.
  - Heating and stirring can proceed simultaneously.
  - Enclosed hot plate with flame protection, fast warm-up and durability.
  - Heating power and stirring speed is stepless adjusted.
  - With the adjustable PT100 sensor rack and stainless steel rods.
- New digital model SH-II-4C Ceramic Magnetic Stirrer with the following function:
- Setting temperature precisely.
  - Precisely control temperature and speed adjustable, with speed switch to start or stop the stirring at any time
  - Timing function (0-9999min), audible and visual alarm.
  - Dual inside and outside sensors, the outside PT100 sensor for heated liquid. The inside K sensor for hot plate.
  - One key to shift inside and outside sensor.
  - Large screen LCD display can indicate temperature, rotational speed and timing at the same time.



### Main Technical Parameters:

Model		SH-4A	SH-4B	SH-4	SH-4C	SH-II-4C
Mode		Heating	Stirring	Heating + Stirring	Digital+ Heating + Stirring	
Function	Max. Volume(ML)	5000	5000	5000	5000	5000
	Speed(r.p.m)	-	200 ~ 2000			
	Working time	Continuous				
	Minimum revolution ( R.P.M.)	-	200	200	200	200
	Max. temp ( °C )	380	-	380	350	350
	Exterior	Iron plate welding, surface spraying				
Structure	Heating plate	Ceramic				
	Driving mode	-	Motor			
	Motor power (W)	-	20	20	20	20
	Heating power(kW)	0.6	-	0.6	0.6	0.6
	Stir bar	no	PTFE			
	Continuous operation	yes				
Controller	Setting mode	Scale			Digital	
	Speed display mode	Scale			Digital	Digital
	Timer	no				yes
	Operation function	no				yes
	Sensor	no			PT100	PT100
	Specification	Exterior size (W*L*H)(mm)	320 × 190 × 125			
Packing size (W*L*H)(mm)		390 × 240 × 230				
Plate size ( mm )		190 × 190				
Plate load		10KG				
Power supply ( 50/60Hz ) Current rating		110V or 220V				
NW/GW (kg )		5/6	5/6	5/6	5/6	5/6



## Mini Magnetic Stirrer

○ Beautiful mini mixing equipment.

### Characteristics:

- Shell is all plastic material ( ABS ), lightweight and durable.
- Mixing smoothly and fast, stirring speed stepless adjustable
- SH-II-2: with LED light      ● SH-II-3: without LED light



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### Main Technical Parameters:

Model		SH-II-2	SH-II-3
Mode		With light	Without light
Function	Max. Volume (ml)	1000	
	Speed (r.p.m)	100 ~ 500 or 100 ~ 2000	
	Working time	Continuous	
	Minimum revolution ( R.P.M.)	100	
Structure	Exterior	Plastic	
	Plate size	120mm	
	Driving mode	Motor	
	Motor power	0.01kW	
Controller	Continuous operation	Yes	
	Setting mode	Scale	
	Speed display mode	Scale	
	Timer	No	
	Operation function	No	
	Speed &Temp. Sensor	No	
Specification	Exterior size (W*L*H)(mm)	φ 138*60	
	Packing size (W*L*H)(mm)	210*170*88	
	Plate size ( mm )	φ 128	
	Power supply ( 50/60Hz ) Current rating	100V~240V	
	NW/GW (kg )	0.6/0.7	

## Overhead Stirrer

○ Large capacity mechanical mixing equipment.

### Characteristics:

- Brushless DC motor drive, low noise and maintenance free.
- Stainless steel head restraints, more durable. Stirrer with digital type has three kinds of
- rotation mode as positive rotation, inversion, reciprocal and mutual conversion.



### Main Technical Parameters:

Model		SH-II-6	SH-II-6C	SH-II-7C
Function	Max. Volume(L)	20	20	40
	digital	-	LCD	LCD
	Speed(r.p.m)	100 ~ 2500	100 ~ 2500	100 ~ 2500
	Working time	Continuous		
	Minimum revolution (r.p.m)	100	100	100
Structure	Exterior	Plastic shell		
	Driving mode	Motor		
	Motor power (kW)	0.06	0.06	0.08
	Continuous operation	Yes		
Controller	Setting mode	Scale	Digital	Scale
	Speed display mode	Scale	Digital	Digital
	Timer	No	Yes	Yes
	Operation function	No	Yes	Yes
	Specification	Exterior size (W*L*H)(mm)	115 × 95 × 240	
Packing size (W*L*H)(mm)		400 × 250 × 210		
Plate size ( mm )		200 × 300		
Plate load		50KG		
Power supply ( 50/60Hz ) Current rating		100 ~ 240V		
NW/GW (kg )		5/6	6/7	7/8

## Four Rows Magnetic stirrer

○ Magnetic mixing equipment.

### Characteristics:

- 4 unit stainless hotplate can work together or separately.
- Stirring speed is stepless adjusted.



### Main Technical Parameters:

Model		SH-6	SH-7
Function	Max. volume(ml)	1000ml*4	3000ml*4
	Speed(r.p.m)	100 ~ 2000	
	Working time	Continuous	
	Minimum revolution	100	
Structure	Exterior	Cold plate spraying, stainless steel plate	
	Driving mode	Motor	
	Motor power	0.01kW	0.02kW
Controller	Continuous operation	Yes	
	Setting mode	Scale	
	Speed display mode	Scale	
	Timer	No	
	Operation function	No	
Specification	Exterior size (W*L*H)(mm)	300*270*80	400*320*120
	Packing size (W*L*H)(mm)	340*310*110	440*360*150
	Plate size ( mm )	300*250	400*300
	Plate load	5KG	20KG
	Power supply ( 50/60Hz ) Current rating	110 or 220V	
	NW/GW (kg )	3/3.6	6/7

## Electronic Control Heating Mantle

○ Up to 450 °C general heating.

### Characteristics:

- Electronic temperature regulation mode with characteristics of stepless speed adjustable.



### Main Technical Parameters:

Model		98-I-B									
Function	Capacity(ml)	50	100	250	500	1000	2000	3000	5000	10000	20000
	Heating Mode	Surface heat-conduction									
	Surface Max. Temp.( °C)	450°C									
Structure	Heating element	Nichrome wire									
	Shell	Cold rolling sheet stretching and spraying exterior									
	Heat power (kW)	0.08	0.1	0.15	0.25	0.35	0.45	0.6	0.8	1.2	2.5
Controller	Working Mode	Continuous									
	Exterior Size (mm)	φ 220 × 165		φ 280 × 220		φ 330 × 230	φ 340 × 245	φ 350 × 250	φ 425 × 320	φ 470 × 340	
Specification	Packing Size (mm)	230 × 230 × 195		290 × 290 × 300	340 × 340 × 350	360 × 360 × 300	390 × 390 × 310	380 × 380 × 330	510 × 510 × 380		
	Voltage(V)	100 ~ 120V or 200 ~ 240V					200 ~ 240V				
	N.W.(Kg)	2.5		5.5	6.5	7.5	8	9.8	16		
	G.W. (Kg)	2.8		6	7	8	9.2	12	20		

## Magnetic Stirring Heating Mantles

○ Up to 450 °C general heating equipment.

### Characteristics:

- Heating and stirring can be used simultaneously, stepless speed adjustable.



### Main Technical Parameters:

Model		98-II-B									
Function	Capacity(ml)	50	100	250	500	1000	2000	3000	5000	10000	20000
	Heating Mode	Surface heat-conduction									
	Surface Max. Temp.(°C)	450°C									
Structure	Speed range	0 ~ 1600rpm									
	Heating element	Nichrome wire									
	Stir bar	PTFE									
	Shell	Cold rolling sheet stretching and spraying exterior									
Controller	Motor power	0.01kW									
	Heating power (kW)	0.08	0.1	0.15	0.25	0.35	0.45	0.6	0.8	1.2	2.5
	Working Mode	Continuous									
Specification	Exterior Size (mm)	φ 220 × 165		φ 280 × 220		φ 330 × 230	φ 340 × 245	φ 350 × 250	φ 425 × 320	φ 470 × 340	
	Packing Size (mm)	230 × 230 × 195		290 × 290 × 300	340 × 340 × 350	360 × 360 × 300	390 × 390 × 310	380 × 380 × 330	510 × 510 × 380		
	Voltage(V)	100 ~ 120V or 200 ~ 240V					200 ~ 240V				
	N.W.(Kg)	2.5		5.5	6.5	7.5	8	9.8	16		
G.W. (Kg)	2.8		6	7	8	9.2	12	20			

## Digital Display Heating Mantle

◎ Up to 450 °C general heating equipment.

### Characteristics:

- PID single screen temperature controller. fast heating, temperature uniformity and high precise temperature control.
- Several rows type, produce as customer inquiry, beautiful shape, easy to operate and effective.
- PT100 Temperature sensor, with adjustable sensor rack and stainless rods.



### Main Technical Parameters:

Model		98-II-C													
Capacity(ml)		50	100	250	500	1000	2000	3000	5000	10000	20000				
Function	Heating Mode	Surface heat-conduction													
	Surface Max. Temp.(°C)	450°C													
	Temperature control range	RT+20 ~ 250°C													
Structure	Heating element	Nichrome wire													
	Shell	Cold rolling sheet stretching and spraying exterior													
Controller	Working Mode	Continuous													
	Heating power (kW)	0.08	0.1	0.15	0.25	0.35	0.45	0.6	0.8	1.2	2.5				
Specification	Exterior size (mm)	φ 220 × 165		φ 280 × 220		φ 330 × 230		φ 340 × 245		φ 350 × 250		φ 425 × 320		φ 470 × 340	
	Packing size (mm)	230 × 230 × 195		290 × 290 × 300		340 × 340 × 350		360 × 360 × 300		390 × 390 × 310		380 × 380 × 330		510 × 510 × 380	
	Voltage(V)	100 ~ 120V or 200 ~ 240V													
	N.W. (Kg)	2.5		5.5		6.5		7.5		8		9.8		16	
	G.W. (Kg)	2.8		6		7		8		9.2		12		20	

## Digital & Magnetic Stirring Heating Mantles

◎ Up to 450 °C general heating equipment.

### Characteristics:

- PID single screen temperature controller.
- Heating and stirring can be used simultaneously, stepless speed adjustable.
- PT100 temperature sensor, with adjustable sensor rack and stainless rods.



### Main Technical Parameters:

Model		98-III-B													
Capacity(ml)		50	100	250	500	1000	2000	3000	5000	10000	20000				
Function	Heating Mode	Surface heat-conduction													
	Surface Max. Temp.(°C)	450°C													
	Temperature control range	RT+20 ~ 250°C													
Structure	Speed range	0 ~ 1600rpm													
	Heating element	Nichrome wire													
Controller	Stir bar	PTFE													
	Shell	Cold rolling sheet stretching and spraying exterior													
Specification	Motor power	0.01kW													
	Heating power (kW)	0.08	0.1	0.15	0.25	0.35	0.45	0.6	0.8	1.2	2.5				
Specification	Working mode	Continuous													
	Exterior size (mm)	φ 220 × 165		φ 280 × 220		φ 330 × 230		φ 340 × 245		φ 350 × 250		φ 425 × 320		φ 470 × 340	
	Packing size (mm)	230 × 230 × 195		290 × 290 × 300		340 × 340 × 350		360 × 360 × 300		390 × 390 × 310		380 × 380 × 330		510 × 510 × 380	
	Voltage(V)	100 ~ 120V or 200 ~ 240V													
	N.W. (Kg)	2.5		5.5		6.5		7.5		8		9.8		16	
G.W. (Kg)	2.8		6		7		8		9.2		12		20		

## Several Rows Magnetic Stirring Heating Mantles

◎ Up to 450 °C general heating stirring equipment.

### Characteristics:

- 98-IV-B: Electronic temperature regulation heating mode.
- 98-V-B: Electronic temperature regulation heating mode. heating and stirring can proceed simultaneously; stepless speed adjustment.



### Main Technical Parameters:

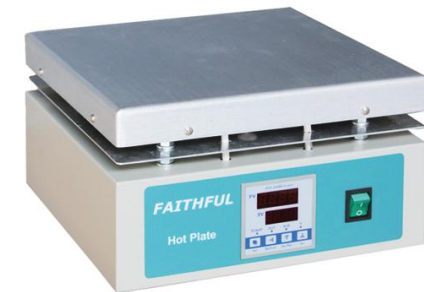
Model		98-IV-B/98-V-B											
Specification(ml)		2 × 100	2 × 250	2 × 500	2 × 1000	4 × 100	4 × 250	4 × 500	4 × 1000	6 × 100	6 × 250	6 × 500	6 × 1000
Function	Heating mode	Surface heat conduction											
	Surface Max. temperature	450°C											
	Temp. range	RT+20 ~ 250°C											
Structure	Speed range	98-IV-B :no/98-V-B: 0 ~ 1600rpm											
	Heating element	Nickel chromium alloy wire											
Controller	Stir bar	98-IV-B :no /98-V-B: PTFE											
	Outer shell	Cold rolled steel plate, surface spraying											
Specification	Motor power	98-IV-B :no/98-V-B: 0.01kW											
	Heating Power ( kW )	2 × 0.1	2 × 0.15	2 × 0.25	2 × 0.35	4 × 0.1	4 × 0.15	4 × 0.25	4 × 0.35	6 × 0.1	6 × 0.15	6 × 0.25	6 × 0.35
Specification	Work model	Continuous											
	Exterior Size (mm)	280*140*106	320*160*170	360*180*180	420*210*200	530*140*160	610*160*170	690*180*180	810*210*200	820*140*160	940*160*170	1060*180*180	1240*210*200
	Packing size(mm)	320*180*190	360*190*200	400*220*210	570*180*190	570*180*190	650*190*200	730*220*210	850*250*230	860*180*190	980*190*200	1100*220*210	1280*250*230
	Voltage	100 ~ 120V or 200 ~ 240V											
	N.W.(Kg)	4	4	4	7	8	8	8	14	12	12	12	21
G.W.(Kg)	5	5	5	8	10	10	10	16	15	15	15	24	

## Hot Plate

◎ Uniform temperature hot plate.

### Characteristics:

- Aluminum hot plate, uniform surface temperature
- Heating up fast and uniform, heating power is stepless adjustable
- Digital hot plate has the more functions as follows:  
Digital display can read the temperature more clearly.



### Main Technical Parameters:

Model		SH-5A/5C	SH-6A/6C	SH-7A/7C	SH-8A/8C	SH-9A/9C
Structure	Working time	Continuous				
	Max Temp. ( °C )	350°C				
	Outer Shell	Iron plate welding, surface spraying				
Controller	Hot plate	Aluminum tensile				
	Driving mode	No				
Specification	Heating power(W)	1200	1800	2000	2600	3000
	Continuous operation	Yes				
	Setting method	Scale/Digital				
	Timer	No/Digital				
	Operation function	No				
	Temperature sensor	K model				
	Exterior size (W*L*H)(cm)	34*37*22	42*50*22	45*47*22	42*65*22	47*65*22
	Please size ( mm )	300*300	350*450	400*400	350*600	400*600
	Plate load	20KG	30KG	30KG	38KG	40KG
	Power supply ( 50/60Hz )	220V				
NW/GW (kg)	6.2/7	8.4/9.6	8.5/9.8	11/13	12/14.2	

## Thermostatic Water Baths

○ Used for precision constant temperature and auxiliary.



### Characteristics:

- Inner tank: 1 hole, 2 holes, 2 rows & 4 four holes, 2 rows & 6 holes are stainless steel stretching inner chamber.
- 1 row & 4 holes, 1 row & 6 holes, 2 rows & 8 holes are stainless steel inner chamber.

### Main Technical Parameters:

Name	1 hole	1 row & 2 holes	1 row & 4 holes	1 row & 6 holes	2 rows & 4 holes	2 rows & 6 holes	2 rows & 8 holes	
Model	WB-3-1	WB-7-2	WB-13-4	WB-19-6	WB-12-4	WB-18-6	WB-20-8	
Heating mode	Bottom heating, water temperature natural convection							
Function	Temp. range	RT+5~100℃						
	Temp. Resolution Ratio	0.1℃						
	Temp. Motion	± 0.5℃						
	Temp. Uniformity	± 1℃						
Structure	Water sink	Stainless steel, surface electrolysis treatment						
	Outer shell	Cold rolled steel plate, surface electrostatic powder spray						
	Heater	Stainless steel U type heating tube						
Power rating	300W	600W	1000W	1500W	800W	1200W	1500W	
Controller	Temp. control mode	PID						
	Temp. setting mode	Touch button setting						
	Temp. display mode	Measuring temperature: display on the three digital tubes upper row, setting temperature: display on the lower row						
	Timer	0~999 min ( with timing function )						
	Timing function	Fixed temperature operation, timing function, auto stop.						
	Program schema	Optional: multi-section program control						
	Additional function	Deviation correction, menu key lock, power failure back-up, power-off parameter memory, PID adjustable						
Sensor	Thermal resistor							
Specification	Safety device	Over-temperature alarm, short-circuit protection						
	Inner Chamber size(W*L*H)(mm)	160*160*130	305*160*130	600*165*130	900*165*130	305*305*130	470*305*130	600*290*130
	Exterior size (W*L*H)(mm)	200*210*210	340*210*210	635*165*210	930*210*210	340*350*210	510*350*210	635*340*210
	Packing size (W*L*H)(mm)	270*270*275	405*275*275	715*260*275	1000*260*275	415*415*275	575*410*275	700*415*275
	Internal volume	3.3L	6.3L	12.8L	19.3L	12L	18.6L	20.6L
	Cover aperture	∅ 120mm						
	Cover material	PP Plastic						
	Cover number per hole	5						
	Power Supply ( 50/60Hz ) Current rating	AC220V 1.4A	AC220V 2.7A	AC220V 4.5A	AC220V 6.8A	AC220V 3.6A	AC220V 5.4A	AC220V 6.8A
	NW/GW (kg )	3KG/3.5KG	4KG/5KG	7KG/8KG	8KG/10KG	6KG/7KG	8KG/9KG	9KG/11KG

## Thermostatic Water Baths (Stretching Inner Chamber)

○ Used for precision constant temperature and auxiliary.



### Characteristics:

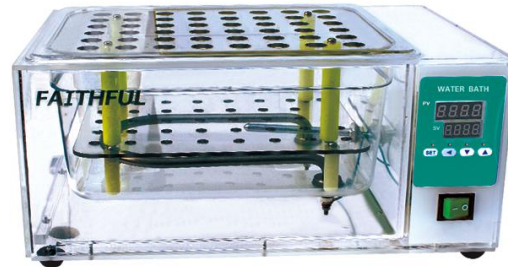
- Stainless steel stretching inner container and roof cover.
- Intelligent temperature controller with PID program, digital tube display and function of timing and over-temperature protection.

### Main Technical Parameters:

Classification Specifications		1 hole	1 row & 2 holes	2 rows & 4 holes	2 rows & 6 holes
Model	DK-2000-IIIIL	√	√	√	√
Heating Mode		Nature water convection heat transfer			
Function	Temp. Range	RT+5 ~ 100℃			
	Temp. Resolution Ratio	0.1℃			
	Temp. Motion	± 0.5℃			
	Temp. Uniformity	± 1.0℃			
Structure	Inner Chamber	Stainless steel			
	Outer Shell	Cold - rolled steel plate, resistance to chemical reagents coating on the surface			
	Heater	Stainless steel heating tube			
Power Rating	0.4kW	0.5kW	1.0kW	1.5kW	
Controller	Temp. Control Mode	PID (without DK-98-II)			
	Temp. Setting Mode	Touch button setting			
	Temp. Display Mode	Measuring temperature displays on the three digital tubes upper row, set temperature displays on the lower row			
	Timer	0 ~ 999min ( with timing wait function )			
	Operation Function	Fixed temperature operation, timing function, auto stop.			
	Program Mode	Optional			
	Additional Function	Deviation Correction, menu key locked, power failure back-up, power-off memory			
Sensor	CU50				
Safety Device		Over temperature alarm			
Specification	Inner Chamber size(W*L*H)(mm )	150*135*150	300*135*150	325*300*150	500*300*150
	Exterior size (W*L*H)(mm)	170*154*210	318*2168*210	350*318*210	524*322*210
	Packing size (W*L*H)(mm)	240*230*280	390*240*280	420*390*280	600*390*280
	Volume	3.4L	6.6L	12.7L	18.7L
	Load per rack	5kg			
	Shelf Number	1			
	Power Supply ( 50/60Hz ) Current rating	AC220V/1.8A	AC220V/2.3A	AC220V/4.5A	AC220V/6.8A
NW/GW (kg )	3.3/4	4.5/5	6/7	7.5/9	

## Transparent Water Bath

○ Used for precision constant temperature and auxiliary.



### Characteristics:

- Using innovative design structure, effectively prevent steam leakage.
- Intelligent temperature control instrument with high brightness digital display, light-touch type key has the advantages of simple operation and high precision temperature control.
- Shell, interior and cover of the product are all made of transparent engineering plastics, can clearly see the object to be heated.

### Main Technical Parameters:

Model	DK-98-IV
Voltage (V)	200-240V/100-120V
Power (kW)	0.8
Temp. Motion (°C)	± 0.5
Temp. Range (°C)	Rt+5~100
Temp. Sensitivity (°C)	≤ ± 1
Shelves Height (mm)	Distance from bottom 100mm
Shelves Holes Diameter	φ 5 X104mm
Inner Chamber Size (L*W*H)	280 x 220 x150
Exterior Size (L*W*H)	400 x260x 190
Packing Size (L*W*H)	450 x350 x270
N.W. (KG)	3.5
G.W. (KG)	5

## Thermostatic Water Baths

○ Used for precision constant temperature and auxiliary.














### Characteristics:

- SHHW21.420AII model cover for the two holes water bath, can be used as a digital two holes water bath.
- SHHW21.600AII model cover for the six holes water bath, can be used as a digital six holes water bath.

### Main Technical Parameters:

	Model	HHW21.420AII	SHHW21.420AII	HHW21.600AII	SHHW21.600AII
Function	Tem. Range	RT+5 ~ 65°C	RT+5 ~ 100°C	RT+5 ~ 65°C	RT+5 ~ 100°C
	Tem. Resolution Ratio	0.1°C			
	Tem. Motion	± 0.5°C			
	Tem. Uniformity	± 1.0°C			
Structure	Inner Chamber	High quality hairline stainless steel plate			
	Outer Shell	Cold rolling steel electrostatic spraying exterior			
	Cover	High quality hairline stainless steel plate			
	Cover circle	Without	With	Without	With
	Test tube rack	Without	With	Without	With
Controller	Heater	Stainless steel heating tube			
	Power Rating	0.5kW	1kW	0.75kW	2kW
	Tem. control mode	PID			
	Tem. setting mode	Touch button setting			
	Tem. display mode	Measuring temperature: display on the three digital tubes upper row ; setting temperature: display on the lower row			
	Timer	0 ~ 9999min ( with timing wait function )			
	Operation function	Fixed temperature operation, timing function, auto stop.			
	Program function	No			
	Additional function	Deviation correction、 Menu key lock、 Power-off compensation、 Power failure memory			
	Sensor	CU50			
Safety device		Over temperature alarm			
Specification	Sink size(W*L*H)(mm)	420*180*140		600*300*200	
	Exterior size (W*L*H)(mm)	570*230*270		750*350*360	
	Packing size (W*L*H)(mm)	670*320*335		860*460*380	
	Volume	11L		36L	
	Supply ( 50/60Hz ) Current rating	AC220V/2.3A	AC220V/4.5A	AC220V/6.8A	AC220V/9.1A
	NW/GW (kg )	8/9.5	8.5/10	17/19	18/20
Optional accessories		No			

## Optional configuration introduction

Optional configuration	Optional configuration introduction	Picture	Price
Color touch paperless recorder	<ol style="list-style-type: none"> <li>3 – inch LED display, with a standard USB2.0 interface.</li> <li>Support USB data transfer function.</li> <li>Easy for user to save the data that the GMP certification needed.</li> </ol>		5500RMB
Wireless text messages, alarm system	<ol style="list-style-type: none"> <li>If the device goes wrong and user are not in the scene, the system will gather failure promptly to send the text message to the receiving people on the mobile phone, ensure to troubleshoot, recover experiment, avoid damage.</li> <li>Can immediately check the working status of equipment and control.</li> <li>Excluding mobile phone.</li> </ol>		2000RMB
Wireless Messaging, interactive system	<ol style="list-style-type: none"> <li>If the device goes wrong and user are not in the scene, the system will gather failure promptly to send the text message to the receiving people on the mobile phone, ensure to troubleshoot, recover experiment, avoid damage.</li> <li>Excluding mobile phone.</li> </ol>		2800RMB
Embedded, thermal printer	Print the required data		1500RMB
Embedded, needle type printer	<ol style="list-style-type: none"> <li>Print the required data</li> <li>Printer + controller + power</li> </ol>		1800RMB
16 channel temperature inspecting meter introduction	<ol style="list-style-type: none"> <li>Used for temperature uniformity test in the box-type chamber.</li> <li>High-precision, 3 meter long, PT100 sensor. Measuring range: 0-300℃</li> <li>Backlight type 3.5 inch 128*64 high resolution LCD display screen, 16 channel data display on one screen, can search historical data, change time scale on curve.</li> <li>With multiple protection and isolation design, the anti-interference ability is strong and the reliability is high</li> <li>Measurement accuracy: 0.2%FS ± 1d, refresh cycle 2S/16 channel.</li> </ol>		4500RMB
Multi – segment programmable LCD temperature controller	<ol style="list-style-type: none"> <li>Micro – computer controller, time and heating rate.</li> <li>Can preset 30 – step programmable in paragraph 15, each setting time 1-99 hours, 99 minutes.</li> <li>Multi – segment programmable control, you can simplify the complex process of experiment, the actual realization of automatic control and operation.</li> </ol>		1500RMB
Liquid rose – independent temperature limit controller	Exceeding the limit temperature interrupt automatically, ensures experiments to run safely.		180RMB
RS485/232 Communication Interface	Display, monitor the data of the experiment via connecting computers.		600RMB
U-Disk data storage, with USB module	USB data transfer interfaces, available with data transfer, with USB module.		1000RMB
BOD socket	BOD instrument – specific socket		150RMB

