

Catalogue

Laboratory Instruments

Made in Bangladesh

Applied Science and Technologies

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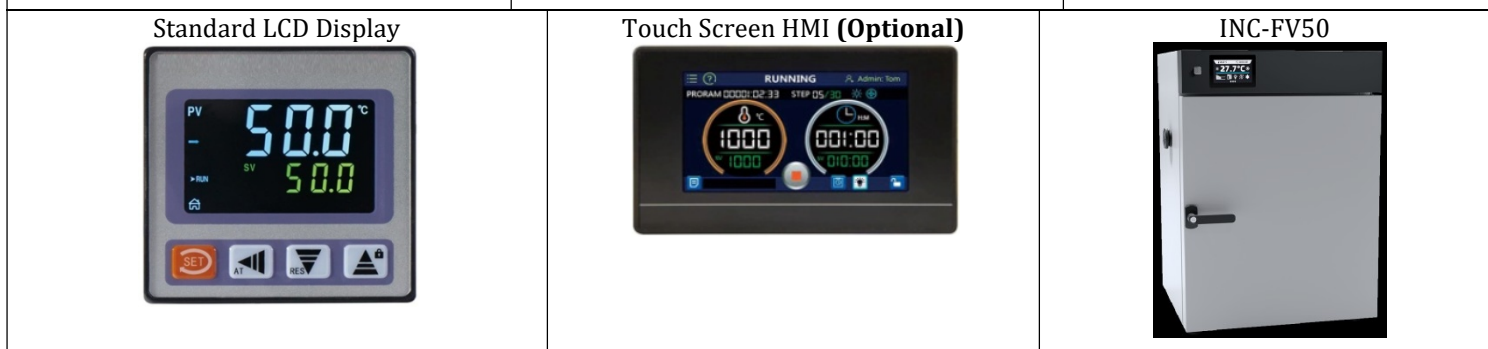
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Heating Incubator (INC-F Series Forced Convection)

Laboratory Heating Incubator is designed to accommodate an ample range of laboratory applications and lends a contamination-free environment for cell and tissue cultures. These incubators serve the purpose for most biological analysis, research, general laboratory applications, biochemical studies, bacteriology, and hematological studies.



Model	INC-F30	INC-F50	INC-F65	INC-F80	INC-F100	INC-F125	INC-F150
	INC-FV30	INC-FV50	INC-FV65	INC-FV80	INC-FV100	INC-FV125	INC-FV150
	INC-FH30	INC-FH50	INC-FH65	INC-FH80	INC-FH100	INC-FH125	INC-FH150
	INC-FV30HMI	INC-FV50HMI	INC-FV65HMI	INC-FV80HMI	INC-FV100HMI	INC-FV125HMI	INC-FV150HMI
Capacity in Liters	30	50	65	80	100	125	150
Temp. range	Ambient +5°C to 70°C						
Temp. accuracy	±1.0°C						
Temp. resolution	0.1°C						
Temp. stability	±0.5°C						
Temp. Uniformity	±1.0°C						
Control display	LCD (Standard supply) Optional 1: Touch Screen HMI: 3 Level Password protected user Management, USB, Ethernet, RS485, Wifi, Mini Printer port etc, Data storage memory, Graph view, Log functions (Audit trail), Multipoint temperature correction function, Data storage to memory, Export to PC, USB, Printer etc.						
Ambient temp.	+5 ~ 40°C						
Timer Range	1-9999 min/hour, Continuous						
Voltage (V)	Single Phase, 220V/50HZ or 3Phase						
Heating power	150 W	250 W	350W	400W	500W	600W	800W
Material	Inside: SS304, Outside: Antibacterial powder coating or SS201(Non magnetic)						
Inner size WDH mm	310×310×310	350×360×400	360×400×450	420×450×430	450×450×500	450×480×580	500×550×550
Exterior dimensions	410×410×560	450×450×650	460×500×700	520×550×680	550×550×750	550×550×800	600×600×750

Customized size available for INC-FV series (200 Liter to 1000 Liter)

Laboratory Cold Incubator (Force convection)/Biochemical Incubator

Laboratory cooling incubator or Biochemical incubator is designed to accommodate an ample range of laboratory applications and lends a contamination-free environment for cell and tissue cultures. These incubators serve the purpose for most biological analysis, research, general laboratory applications, biochemical studies, bacteriology, and hematological studies.



Model INC-C100



Model INC-C200



Standard LCD Display with soft touch button



Optional Touch Screen HMI display



Optional Printer



Optional Dual Compressor with auto switching

Model	INC-C50	INC-C80	INC-C100	INC-C150	INC-C260	INC-C300	INC-C500
Capacity in Liters	50	80	100	150	260	300	500
Temperature range	+5°C to +70°C						
Temp. accuracy	±0.1°C						
Temp. resolution	0.1°C						
Temp. Stability	±1.0°C						
Temp. Uniformity	±1.0°C						
Control display	LCD (Standard supply) Optional 1: Touch Screen HMI: 3 Level Password protected user Management, USB, Ethernet, RS485, Wifi, Mini Printer port etc, Data storage memory, Graph view, Log functions (Audit trail), Multipoint temperature correction function, Data storage to memory, Export to PC, USB, Printer etc.						
Room temperature	+5~30°C						
Timer Range	1-9999 min/hour/Up to Shut down manually						
Cooling System	Hermetically sealed Compressor with CFC free refrigerant						
Air Circulation	Fan Forced air circulation confirms uniformity						
Door	Quantity Two (One Solid door + One Glass Door)						
Validation port	One 1 inch diameter						
Safety	Over heat Protection, Sensor break Signaling, Short Circuit Protection etc.						
Rack / Tray quantity	2	2	3	3	3	4	4
Voltage (V)	220V/50HZ						
Power (Watt)	500	600	600	700	750	850	900
Internal dimensions (WDH) cm	350x350x500	350x350x660	400x450x550	400x450x830	600x500x850	550x650x840	600x700x1200
External dimension (WDH) cm	500x500x800	500x500x960	550x600x850	550x600x1230	750x750x1400	700x800x1290	750x850x1600

Customized size available

BOD Incubator

A BOD (Biochemical Oxygen Demand) incubator is specialized laboratory equipment used in measuring the amount of oxygen consumed by microorganisms in water or wastewater samples. The BOD test is a widely used method to determine the level of water pollution and the effectiveness of treatment processes.

LCD Display as standard supply



5"/7" Touch Screen Data Storage, Data Export to USB Flash Drive and printer port



- ❖ Multipoint temperature correction function;
 - ❖ Three-level permission management function for FDA requirements
 - ❖ Have the function of appointment running, timing and power-off memory
- The controller has screen locking function to avoid migration

U disk prin



- ❖ Simultaneously control and connect micro-printer, U disk, remote communication
- ❖ Automatically identify printer, U disk, communication failure alarm
- ❖ Real-time data record
- ❖ Can be matched with any communication product of our company



Dual Compressor with auto switching (optional)



Model	BOD-70	BOD-100	BOD-150	BOD-250
Capacity in Liters	70	100	150	250
Temperature range	10℃ to 40℃			
Temperature accuracy	±0.1℃			
Temperature resolution	0.1℃			
Temperature Stability	±1.5℃			
Temperature Uniformity	2.0℃			
Temp. Display Mode	Measuring temperature: LCD upper screen; setting temperature: the lower row			
Temp. Setting Mode	Touch button setting			
Ambient temperature	+5~30℃			
Sensor	PT100			
Cooling System	Air cooled hermetic compressor with R134 Cooling Gas			
Insulation Layer	Polyurethane			
Defrost Structure	Automatic control intelligent defrosting			
Timer Range	1-9999 min/hour			
Safety Device	Over temperature alarm			
Test Hole	Inner diameter 25mm(one)			
External Power Supply	Outer universal socket (one), inner waterproof socket(one)			
Voltage	220V/50HZ			
Power Rating	0.8kW	1.0kW	1.0kW	1.2kW
Chamber size (WDH)	415×350×500 mm	450×450×500 mm	490×400×750 mm	500×500×950 mm
Exterior dimensions	571×591×1051 mm	600×600×1100 mm	646×641×1301 mm	656×741×1501 mm

Shaking Incubator

The vertical Constant Temperature Shaker incubators are Multi-stage speed, temperature, time control system. It has an ultra-low speed running function and a unique dynamic balance design to ensure smooth running.



Model: SI-90 (Vertical Model)



Adjustable Bar Tray (Standard)



Individual Clamp **Optional**



Model: SI-50CH (Horizontal Model)

Spring Tray (Optional)



LCD Display Standard



Touch Screen HMI
Optional

Technical Specifications

Technical Specifications				
Model	SI-90	SI-90C	SI-360	SI-360C
Door type	Single		Double	
Shaking Rack	Single		Double	
Chamber Volume in Liter	120		360	
Shaker Flask Capacity	5 x 500 ml or 12 x 250 ml or 16 x 100ml,		10 x 500 ml or 24 x 250 ml or 32 x 100ml,	
Temperature Range	Ambient +5 to +65°C	+5 to 65°C	Ambient +5 to +65°C	+5 to 65°C
Temperature Resolution	+/- 0.1°C			
Temperature Stability	+/- 1.0°C			
Homogeneity/Uniformity	+/-2.0°C			
Controller	Microprocessor Fuzzy PID controller			
Temperature sensor	Pt100			
Display	LCD (Standard supply)			
	Optional 1: Touch Screen HMI: 3 Level Password protected user Management, USB, Ethernet, RS485, Wifi, Mini Printer port etc, Data storage memory, Graph view, Log functions (Audit trail), Multipoint temperature correction function, Data storage to memory, Export to PC, USB, Printer etc.			
Cooling System	No		Compressor cooling	
Safety alarm	Short Circuit protection, Over heat Protection, Sensor break Signaling, Motor overload protection			
Shaking motor type	Servo motor			
Shaker Speed Range	1~300rpm (Orbit 10mm / 16mm)			
Shaker Speed Display	LCD/Touch Screen			
Shaker Time Range	1~9999 Min/Hr/Continuous			
Ambient Temp.	5~35°C			
Material	Interior: SS304, Outer: Power Coated Steel or Stainless steel			
Power Watt	700		1100	
Power Supply	220V AC±10%, 50 Hz			

Customized size available on request

Small Capacity Thermostatic Shaking Incubator (AJPX-ST)

Introduction: The Small Capacity Thermostatic Shaking Incubator is a versatile and compact laboratory device designed for the incubation and agitation of samples in a controlled-temperature environment. Ideal for microbiology, cell culture, and molecular biology applications, this incubator ensures precise temperature control and uniform mixing for reliable experimental results.



Features: Visible transparent window, three transparent acrylic cover, can be observed from multiple angles.

- ❖ Large screen is easy to operate, can be simple and intuitive parameter setting.
- ❖ Microcomputer is used to control temperature and oscillation frequency, with timing function; With power failure protection function, it can automatically resume operation after the normal power supply.
- ❖ It has the functions of historical data, curve, alarm record query, data storage and export (U disk), password lock screen protection.
- ❖ Smooth operation, rubber shock absorber foot, ensure that the machine can run smoothly at high speed.
- ❖ Micro switch to open the door to stop, over-temperature alarm, protect the safety of experimental materials.
- ❖ The refrigeration system conforms to the trend of environmental protection, and the new fluorine-free design.
- ❖ Standard of USB for AJPX-ST10/11/20.

Technical Parameters:

Technical Parameters						
Model	AJPX-ST10-L		AJPX-ST11-L	AJPX-ST10	AJPX-ST11	AJPX-ST20
Capacity	22L			104L		109L
Temperature Range	RT+5~60℃					+5~60℃
Temp Resolution	0.1℃					
Temp Uniformity	≤±1.0℃(at 37℃)					
Temp Fluctuation	≤±0.5℃					
Ambient Temperature	15~35℃					
Timing Range	0~9999min(h)			0~999h59min		
Control Mode	PID microcomputer control					
Display	LCD display			5.0-inch touch screen		
Circulation Mode	Forced convection					
Oscillation Mode	Rotary shaking					
Curve Program Setting	Fixed value control temperature velocity			Fixed value and multi-stage control temperature velocity		
Speed Range	30~300rpm					
Speed Accuracy	±1rpm					
Shaking Amplitude	Φ10mm	Φ16mm	Φ16mm	Φ25mm	Φ10/16mm	
Shaking Plate	245*245mm		566*363mm	566*343mm	566*363mm	
Refrigerant	N/A					R290/75g
Max Capacity	Flask holder: 50ml*16, 100ml*9, 150ml*8, 200ml*6, 250ml*6, 500ml*3, 1000ml*2, 96-well plate*4	Flask holder: 50ml*14, 100ml*7, 150ml*7, 200ml*5, 250ml*5, 500ml*3, 1000ml*1, 96-well plate*5	Flask holder: 50ml*54, 100ml*33, 150ml*28, 200ml*23, 250ml*23, 500ml*18(BJPX-ST10/20), 500ml*15(BJPX-ST11), 1000ml*11, 2000ml*7(BJPX-ST10/20), 2000ml*6(BJPX-ST11), 3000ml*6(BJPX-ST10/20), 3000ml*4(BJPX-ST11), Tube rack*2, 96-well plate*10, clamping rod shaking plate*1			
Defrost Function	N/A					Automatic defrosting
Alarm	Over-temperature alarm, Power failure protection, Automatic stop upon opening door					
Material	External material: Cold rolled steel plate spray; Internal material: 304 stainless steel					
Power Supply	Standard: AC220V, 50Hz					
Consumption	500W			800W		1000W
Standard Accessories	Flask holder: 50ml*6 or 100ml*6 or 150ml*5 or 200ml*5 or 250ml*4(Default) or 500ml*2 or 1000ml*1			Flask holder: 50ml*20 or 100ml*20 or 150ml*16 or 200ml*16 or 250ml*12(Default) or 500ml*10 or 1000ml*6 or 2000ml*4 or 3000ml*4		
Optional Accessories	96-well plate, Universal spring clamp			Tube rack, 96-well plate, Clamping rod shaking plate, spring clamp		
Internal Size(W*D*H)	310*315*230 mm			663*413*380 mm		663*446*372 mm
External Size(W*D*H)	365*510*440 mm			719*700*590 mm		719*780*590 mm
Package Size(W*D*H)	485*630*600 mm	485*630*600 mm	840*830*730 mm	840*830*730mm	840*910*730mm	
Net /Gross Weight(kg)	31.5/39	38/43.5	64/78	90/104	89/107	

CO2 Incubator with UV Sterilization

The vertical Constant Temperature Shaker incubators are Multi-stage speed, temperature, time control system. It has an ultra-low speed running function and a unique dynamic balance design to ensure smooth running.



Technical Specifications

Model	CO2-50M	CO2-80M	CO2-160M
Capacity	50L	80L	160L
Heating	Air jacket	Air jacket	Air jacket
Temp. Range	RT +5 ~ 60 °C		
Control Type	Microcomputer controller		
Temp. Fluctuation	≤ ±0.2°C(at 37°C)		
Temp. Uniformity	≤ ±0.3 °C(at 37°C)		
Time Setting	999h or continuous		
Alarm	Audible and visual alarm; Over-temperature alarm; CO2 Concentration alarm.		
Shelves	2 pcs / adjustable		3 pcs / adjustable
Material	External Powder coated steel; internal stainless steel		
Door	With inner door and external door		
CO2 Range	Infrared sensor range 0~20%		
CO2 Control Resolution	0.1%		
Humidification Type	Water tank for natural evaporation		
Sterilization Type	UV lamp for air jacket		
Ambient Temp. & Humidity	18~30°C,suggest 25±2°C; relative humidity ≤80%		
Caster	Footmaster caster		
Consumption	350W	600W	875W
Power Supply	AC110/220V±10%, 50/60Hz		
Internal Size (W*D*H) mm	368*387*408	398*446*498	498*546*678
External Size (W*D*H) mm	500*527*821	600*596*921	795*835*1255
Packing Size (W*D*H) mm	655*685*970	735*735*1070	790*835*1255
Gross Weight(kg)	110	138	168



5/7 inch Touch Screen Controller

Features

- ❖ High-resolution touch screen, beautiful interface, multiple sets of data can be displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, fast heating speed, high control accuracy, and can be expanded to multi-stage programming control;
- ❖ With three-level authority management function for FDA requirement;
- ❖ With scheduled operation function, timing function and power-off memory function;
- ❖ The controller has a screen lock function to avoid human touch operation errors;
- ❖ It has the functions of real-time curve viewing and historical data storage and export, and can expand remote communication and U disk, printer and other functions.

Customized size available on request

CO₂ Incubator with wet moist heat sterilization

The vertical Constant Temperature Shaker incubators are Multi-stage speed, temperature, time control system. It has an ultra-low speed running function and a unique dynamic balance design to ensure smooth running.



Technical Specifications

Model	CO2-50W	CO2-80W	CO2-160W
Capacity	50L	80L	160L
Heating	Air jacket	Air jacket	Air jacket
Temp. Range	RT +5 ~ 60 °C		
Control Type	Microcomputer controller		
Temp. Fluctuation	≤ ±0.2°C(at 37°C)		
Temp. Uniformity	≤ ±0.3 °C(at 37°C)		
Time Setting	999h or continuous		
Alarm	Audible and visual alarm; Over-temperature alarm; CO2 Concentration alarm.		
Shelves	2 pcs / adjustable		3 pcs / adjustable
Material	External Powder coated steel; internal stainless steel		
Door	With inner door and external door		
CO2 Range	Infrared sensor range 0~20%		
CO2 Control Resolution	0.1%		
Humidification Type	Water tank for natural evaporation		
Sterilization Type	Wet Moisture heat sterilization 90 °C		
Ambient Temp. & Humidity	18~30°C,suggest 25±2°C; relative humidity ≤80%		
Caster	Footmaster caster		
Consumption	350W	600W	875W
Power Supply	AC110/220V±10%, 50/60Hz		
Internal Size (W*D*H) mm	368*387*408	398*446*498	498*546*678
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- ❖ It has the functions of real-time curve viewing and historical data storage and export, and can expand remote communication and U disk, printer and other functions.

Customized size available on request

CO2 Incubator with Dry Heat Sterilization

The vertical Constant Temperature Shaker incubators are Multi-stage speed, temperature, time control system. It has an ultra-low speed running function and a unique dynamic balance design to ensure smooth running.



Technical Specifications

Model	CO2-50D	CO2-80D	CO2-160D
Capacity	50L	80L	160L
Heating	Air jacket	Air jacket	Air jacket
Temp. Range	RT +5 ~ 60 °C		
Control Type	Microcomputer controller		
Temp. Fluctuation	≤ ±0.2°C(at 37°C)		
Temp. Uniformity	≤ ±0.3 °C(at 37°C)		
Time Setting	999h or continuous		
Alarm	Audible and visual alarm; Over-temperature alarm; CO2 Concentration alarm.		
Shelves	2 pcs / adjustable		3 pcs / adjustable
Material	External Powder coated steel; internal stainless steel		
Door	With inner door and external door		
CO2 Range	Infrared sensor range 0~20%		
CO2 Control Resolution	0.1%		
Humidification Type	Water tank for natural evaporation		
Sterilization Type	Dry Hot air sterilization		
Ambient Temp. & Humidity	18~30°C,suggest 25±2°C; relative humidity ≤80%		
Caster	Footmaster caster		
Consumption	350W	600W	875W
Power Supply	AC110/220V±10%, 50/60Hz		
Internal Size (W*D*H) mm	368*387*408	398*446*498	498*546*678
External Size (W*D*H) mm	500*527*821	600*596*921	795*835*1255
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- ❖ With scheduled operation function, timing function and power-off memory function;
- ❖ The controller has a screen lock function to avoid human touch operation errors;
- ❖ It has the functions of real-time curve viewing and historical data storage and export, and can expand remote communication and U disk, printer and other functions.

Customized size available on request

CO2 Incubator with High Temperature Dry Heat Sterilization

Description

The carbon dioxide incubator is an advanced instrument for culturing cells, bacteria, and microorganisms. It is an essential product for immunology, genetics and bioengineering research. Widely used in medicine, agricultural science, pharmaceutical research and production.



Technical Specifications

Model	C02-50H90	C02-160H90	C02-240H90
	C02-50G14	C02-160G14	C02-240G14
	C02-50G18	C02-160G18	C02-240G18
Mode	Six-sided heating + breeze circulation + air jacket 50/150 incubator box can be stacked		
Temperature control range	RT+5°C-60°C		
Temperature resolution	0.1°C		
Constant temperature fluctuation	±0.1°C		
Temperature uniformity	≤0.3°C(at 37°C)		
CO2 control range	0-20%		
CO2 distribution accuracy	±0.5%		
Humidity in the box	≥90%(at 37°C)		
Interior	Stainless steel 304		
Exterior	Cold-rolled steel plate, surface chemical-resistant coating		
Thermal insulation material	Aluminum silicate fiber		
Heater	heating wire		
CO2 inlet	Φ6mm		
CO2 filter	DUF imported		
Partition	mirror stainless steel		
Rated power	0.55 kw	1.0kw	1.3kw
Temperature control method	Smart PID		
CO2 concentration control method	Smart PID		
Temperature sensor	PT100		
CO2 concentration sensor	Imported infrared sensor		
Operation mode	Customized operation mode (timer can be divided into: off timing, running timing, constant temperature timing, a total of 1000 hours), program operation mode		
Operating mode	7-inch touch screen		
Reservation function	After the system reaches the reservation time, it will automatically enter the running state		
Timing function	Off timing, running timing, constant temperature timing, 999:59 (hour, minute)		
Sterilization function	90°C wet heat sterilization (H90 series); 140°C high temperature dry heat sterilization (G14 series), 180°C high temperature dry heat sterilization (G18 series)		
Historical data	253,000 pieces of data can be stored (the storage interval is adjustable from 1 to 999 minutes), and historical data can be exported by U disk (standard)		
Curve	Divided into real-time curve and historical curve		
Safety devices	Temperature alarm, concentration alarm, door control alarm, lock screen, power-off protection		
Internal dimensions (mm)	350*380*380	500*500*600	607*583*680
Dimensions (mm)	627*567*680	777*687*900	884*770*957
Outer package size	751*672*811	937*827*1007	1044*910*1077
Internal volume	50L	160L	240L
Diaphragm bearing	15kg		
Number of layers	7	12	14
Diaphragm spacing	40mm		
Rated current	AC220V/2.8A	AC220V/5A	AC220V/5.9A
Net / gross weight	60/70	95/120	115/145
Partition	2 pieces	3 pieces	3 pieces
Optional	Partition, multi-gas culture, RS485 communication, printer, mobile phone alarm		

Blood Platelet Incubator with Agitator

Applications: Used in diagnostic laboratories, hospital blood banks, blood transfusion centers, clinical pathology laboratories.

After thawing, platelets need to be kept swinging in a constant temperature environment of 20°C-24°C while waiting for infusion to patients. The BPI10 platelet incubator is a device made according to this requirement. When the thawed platelets are placed on the inner chamber storage shelf, the machine can continuously output the continuous left-right reciprocation with the amplitude of 50mm and the frequency of 60rpm, and the horizontal oscillation is achieved, which solves the problem of safe storage of platelets.

Features

Microprocessor control system, LCD display
UV lamp for disinfection, the interlock for UV lamp and door
Power on/off switch, more convenient for operation
High efficiency refrigeration system, fast cooling speed and temp. uniformity
Double-layer glass observation window to ensure the cooling performance
Alarm for high / low temperature, door open, etc.



Blood Platelet Agitator



Standard LCD Display



Technical Parameters

Model	BPIA-300-3	BPIA-450-4	BPIA-500-6	BPIA-300-3HMI	BPIA-450-4HMI	BPIA-500-6HMI
Tray Layer	3	4	6	3	4	6
Bag Quantity	12 x 300 ml	16 x 300 ml	24 x 300 ml	12 x 300 ml	16 x 300 ml	24 x 300 ml
Temp. Range	22.0°C±2.0°C					
Oscillation Frequency	60rpm±2rpm					
Temp. Uniformity	±2.0°C					
Fluctuation	±1.0°C					
Resolution	0.1°C					
Shaking Amplitude	30.0mm±5.0mm					
Refrigerant	R134a, CFC free					
Oscillation Type	Continuous reciprocating (left and right) horizontal oscillation / Orbital					
Power Supply	AC220V,50Hz					
Power	1300W					
Power Failure Backup	60 Minutes					
Power failure memory	Yes available					
External Size	645*730*1225mm					
Net Weight	138kg					
Packing Size	757*853*1315mm					
Gross Weight	158kg					

Blood Bag Storage (Optional)

Blood Bag Volume	Blood Bag Size(mm)	Max Storage-Stacked(pcs)	Suggested Storage(pcs)	Blood Bag Volume	Blood Bag Size(mm)	Max Storage-Stacked(pcs)	Suggested Storage(pcs)
25ml	70*60	162	81	300ml	160*110	36	18
50ml	80*70	120	60	400ml	190*120	30	15
100ml	110*90	66	33	500ml	200*120	24	12
200ml	140*110	42	21	300ml	160*110	36	18

Peltier Cooled Incubator



Advantages of Peltier Technology

- ❖ More compact since no additional installation space needed for refrigeration machine.
- ❖ Much less energy consumption compares to compressor devices.
- ❖ Low sound pollution and noise level.
- ❖ With global warming consideration, lack of refrigerant is much more climate friendly.
- ❖ Easier Service and maintenance

Performance and Features

- ❖ 7-inch touchscreen controller provides fast, accurate, and uniform heat displacement.
- ❖ P.I.D temperature controller provides accurate and reliable temperature control.
- ❖ Three-level authorization: administrator, operator and visitor.
- ❖ Performance curve, history of alarm and operation can be easily checked on screen.
- ❖ USB data collection port.

Convenience

- ❖ Variety of volumes to choose.
- ❖ Inner chamber is made from corrosion-resistant mirror stainless steel.
- ❖ Round curved inner angle is easy to clean.

Safety

- ❖ Auto Start Feature after power loss/return.
- ❖ Temperature deviation alarm.
- ❖ Over temperature set point and shutdown with alarm.
- ❖ Independent over temperature limit controller for added safety.
- ❖ Over-current alarm and shutdown.

Technical parameters

Model	BEC-50	BEC-100	BEC-250
Capacity	50L	100L	250L
Temperature Range	0~65°C		
Temperature Accuracy	±0.2°C		
Uniformity	±0.5°C(@37°C & 25°C)		
Display	7 inch touch screen		
Temperature Recover Time	Door open 30s) ≤ 5min		
Shelves	2 pcs	2 pcs	3 pcs
Power Consumption	Heating: 240W Cooling: 240W	Heating: 400W Cooling: 430W	Heating: 630W Cooling: 860W
Interior Dimension (W×D×H)mm	340×430×350	480×400×560	600×510×820
External Dimension (W×D×H)mm	540×630×690	668×675×752	790×745×1085
Inner Glass Door	Yes		
Electrical Requirement	AC220V/50Hz		

- ❖ Specification test under non-load condition: ambient temperature is 25°C, and relative humidity is 50% RH.

Hot air oven / Drying oven (Natural Convection, LCD Screen)

Standard type:

1. The shell is made of high-quality cold-rolled steel plate, and the surface is treated by electrostatic spraying process.
2. The working room is made of high-quality mirror-finished stainless steel, and the four corners are in arc transitions. The surface is treated by anti-corrosion process. The spacing of the partitions is adjustable. The quick detachable structure of the bottom heating cover is convenient for cleaning.
3. The PID microcomputer intelligent temperature controller has functions such as precise timing of temperature control, over-temperature alarm, precise temperature control, and convenient reading.
4. The box door with new structure has good heat insulation effect. There is a double-layer tempered glass observation window with a large viewing angle in the middle, equipped with a lock-type elastic adjustment door lock, and a high-temperature resistant silicone sealing strip to ensure good tightness and prevent heat loss.
5. The heating power has two gears, which can meet the needs of users at high and low temperature.

Functional type: In addition to the standard functions, it also has the following functions:

1. Large-screen LCD displays.
2. The independent temperature limit system has the function of over-temperature interruption. When the main controller fails, it will alarm and cut off the output in time, which double protects the safety of the experiment.



Model DON-30

Model	DON-30	DON-45	DON-65	DON-100	DON-125
Temperature range	RT+10~250°C				
Temperature Uniformity	±1.0°C				
Temperature resolution	0.1°C				
Ambient temperature	+5~40°C				
Timing range	1-9999min				
Load per rack (kg)	15/kg 2 for standard configuration				
Consumption	500W	600W	800W	1200W	1500W
Volume (L)	30	45	65	125	125
Power Supply	AC110/220V±10%, 50/60Hz				
Internal Size(W*D*H) mm	310*310*310	350*350*350	400*360*450	400*450*560	500*450*550
External Size(W*D*H) mm	460*510*695	500*550*735	550*550*840	500*550*760	636*680*915
Package Size(W*D*H) mm	550*570*765	620*585*800	640*640*905	600*650*900	730*720*1000
Net/Gross Weight	38/51kg	41/54kg	42/59kg	55/60kg	52/65kg

Customize size available (25/50/60/80/150/200/250/300/400/500/600/800/1000/..... Liter)

Drying Oven Forced Convection, LCD Screen

DO series drying oven has the characteristics of new model, advanced technology, accurate temperature control, stable performance, easy maintenance, convenient operation and so on. It is suitable for drying, baking, wax melting and heat treatment in laboratories of industrial and mining enterprises, scientific research institutes, medicine and health institutions.



Standard LCD Display



Touch Screen HMI (Optional)



Model	DOF-25	DOF-30	DOF-50	DOF-65	DOF-100	DOF-125	DOF-220
	DOF-V25	DOF-V30	DOF-V50	DOF-V65	DOF-V100	DOF-V125	DOF-V220
	DOF-H25	DOF-H30	DOF-H50	DOF-H65	DOF-H100	DOF-H125	DOF-H220
	DOF-V25HMI	DOF-V30HMI	DOF-V50HMI	DOF-V65HMI	DOF-V100HMI	DOF-V125HMI	DOF-V220HMI
Capacity in Liter	25	30	50	65	100	125	220
Temp. Range	RT+10~250°C						
Temp. accuracy	±0.3°C						
Temp. Resolution	±0.1°C						
Temp. Fluctuation	±1.0°C						
Ambient Temp.	+5~40°C						
Timing range	1~9999Min/Hr/Continuous						
Temp. controller	Microprocessor Fuzzy PID Temperature controller						
Display	LCD with soft touch button (Standard supply) Optional: Touch Screen HMI with USB, Ethernet, RS485, Wifi, Real Time Data Storage Memory, 3 Level Password Protected User Management, Log Functions (Audit Trail, Alarms), Graph View, PC Connection, RS485 Protocol, Fixed point or Programmable multipoint calibration facility, Offset correction, Non editable PDF or csv data export etc.						
Convection	Fan forced convection for good uniformity						
Safety	Over and Under Temperature safety with alarm visual and acoustics, Short Circuit protection, Power off memory functions						
Shelves	1	1	2	2	2	3	3
Heater Consumption	400W	400W	500W	600W	1000W	1200W	1500W
Power Supply	AC220V, 50Hz						
Inner Size WDH mm	300*300*300	310*310*310	360*360*390	400*360*450	400*450*560	450*500*550	500*600*740
Outer Size WDH mm	460*510*695	460*510*695	500*550*735	550*550*840	550*600*960	636*680*915	660*760*980
Net Weight	34kg	38kg	42kg	50kg	80kg	120Kg	170kg

Customize size available (80/150/200/250/300/400/500/600/800/1000/..... Liter)

Drying Oven-Forced Convection Large sizes

Technical Parameters:

- ❖ Controller: Microprocessor Fuzzy PID
- ❖ Display: Touch Screen (4.3/5/7 inches)
- ❖ Temp. Accuracy: $\pm 0.1^{\circ}\text{C}$
- ❖ Temp. Uniformity: $\pm 1^{\circ}\text{C}$
- ❖ Temp. Resolution: $\pm 0.1^{\circ}\text{C}$
- ❖ Temp. Fluctuation: $\pm 0.5^{\circ}\text{C}$
- ❖ Timer: 1 to 9999 Min/Hr
- ❖ Power Supply: AC 220V, 50Hz
- ❖ Multi-segment programmable control
- ❖ 3 Level password protected user management
- ❖ USB, LAN, Printer port, LIMS connectivity
- ❖ RS485 interface
- ❖ Data recording and export to PC, Printer
- ❖ Screen locking functions
- ❖ Power off memory functions
- ❖ UV Sterilizer (Optional)
- ❖ Nitrogen port (Optional)

Model: DOF-USB-75



Standard display



DOF-V750



(Optional) U disk printing controller



- ❖ Simultaneously control and connect micro-printer
- ❖ U disk, remote communication
- ❖ Automatically identify printer, U disk, communication failure alarm
- ❖ Real-time data record
- ❖ Can be matched with any communication product of our company

(Optional) 4.3/5/7 inch Touch Screen HMI



- ❖ USB, Printer, RS485, Ethernet port
- ❖ Multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level password protected user management function for FDA requirements
- ❖ Data storage memory
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration

Safety: Over heat protection, Short Circuit Protection, Sensor Error signaling,

Model	Working volume	Temp. Range	Working size (W×H×D) mm	Exterior Size (W×H×D) mm	Door	Shelf	Power Rating (W)	Gross Weight (kg)
DOF-USB-15	15	Ambient +10 to 250°C	320x240x200	520x560x470	Single	1	300	40
DOF-USB-32	32		400x320x250	600x640x520		2	500	45
DOF-USB-53	53		400x400x350	600x710x620		2	1000	65
DOF-USB-75	75		400x530x350	600x850x620		2	1000	90
DOF-USB-115	115		460x540x440	660x850x710		3	1200	130
DOF-USB-180	180		460x720x550	660x1040x820		3	1500	180
DOF-USB-200	200		550x600x600	820x1140x780		4	1500	200
DOF-USB-240	237		600x800x500	820x1140x780		4	1500	200
DOF-USB-400	416		800x1040x500	1020x1440x770	Double	5	1800	340
DOF-USB-750	749		1040x1200x600	1260x1600x880		5	5500	400
DOF-USB-1000	998		1040x1610x600	1260x2000x880		6	6000	500

More and customized capacity available on request

Glassware Drying Oven

Glassware Drying Oven can be used in laboratory or industrial settings for a variety of tasks including drying glassware. A basic double wall utility drying oven is not much different from the oven you use in your home kitchen. Gravity convection or forced air convection drying ovens provide a greater degree of evenness, control of temperature, rapid drying capabilities, and many newer models are programmable. Drying ovens with a maximum temperature of 200°C are available. In addition, drying ovens are also available in a wide range of sizes, from a small bench top drying oven to a room-sized, walk-in drying oven.



Model GWD-360

Technical Specifications

Model	GWD-50	GWD-80	GWD-100	GWD-150	GWD-200	GWD-250	GWD-300	GWD-360
Volume Liter	50	80	100	150	200	240	300	360
Temperature Range	Ambient +5 to 150°C							
Temperature Accuracy	±0.1°C							
Temperature Uniformity	±2°C							
Controller	PID Microcontroller with auto tuning and Temperature calibration facilities inbuilt							
Display	LCD							
Safety	Voltage-Under Voltage protection, Over heat Protection Sensor break Signaling, Short Circuit Protection							
Tray Pcs.	2	2	2	3	3	3	4	4
Insulation	Ceramic Fiber							
Material	Interior: SS304, Outer: Power Coated Steel							
Heating Power Watt	800	1000	1200	1500	1500	1500	2000	2500
Door	1	1	1	1	1	1	1	1
Internal Dimension cm	36x36x39	42x42x46	46x46x48	50x50x60	56x60x60	55x60x76	55x60x100	62x62x120
External dimensions	46x46x85	52x52x90	56x56x90	60x60x110	66x70x70	65x70x120	65x70x150	72x72x160
Power Supply	220V AC, 50 Hz							
Weight Kg	50	70	80	120	150	160	180	200

Customize size available on request

Hybridization Oven / Incubator

Hybridization Oven is especially designed to create ideal environment for nucleic acid hybridization including northern, southern and western blot application. It also works as an incubator shaker. With advanced features including variable and adjustable temperatures and speeds, researchers have the flexibility to efficiently process all available microarray chambers with one robust tool. It offers space-saving design and excellent uniformity which is ideal for molecular biology labs.

Areas of Applications

Molecular Biology Assays.

Southern (DNA) Hybridizations.

Northern (RNA) Hybridizations.

Western Blot.



Standard LCD



Optional Touch Screen HMI for (FDA)



Optional Printer

Model	HO-I	HO-III	HO-IIIA
Temperature range	Ambient Temp +5°C-100°C	Ambient Temp +5°C-100°C	Ambient Temp +5°C-100°C
Temperature Accuracy	±0.5°C	±0.5°C	±0.5°C
Temperature error	±0.03°C	±0.03°C	±0.03°C
Display resolution	0.1°C	0.1°C	0.1°C
Temperature equilibrium time	<20min	<20min	<20min
Rotation speed	6.5±0.5r/min	5-20r/min,adjustable	6-25r/min,adjustable
Continuous working time	24 hour	24 hour	24 hour
Hybrid tube specification	φ35*240mm	φ35*240mm	φ35*240mm
Optional tube	φ35*150mm, φ35*300mm	φ35*150mm, φ35*300mm	φ35*150mm, φ35*300mm
Voltage	220VAC,50HZ	220VAC,50HZ	220VAC,50HZ
Power	<600VA	<600VA	<600VA
Net weight	21Kg	22Kg	22Kg
Display method	Digital display	Digital display	LCD display
Customized size available			

Vacuum Drying Oven

Vacuum drying is one of the foremost industrial drying techniques for heat-sensitive, hygroscopic, and/or toxic powders and granules. Avoiding excessive heat while drying powder may be necessary for a variety of reasons, ranging from product quality to safety:

- ❖ Pharmaceutical powders - active ingredients may lose their medicinal effect when warmed.
- ❖ Food drying - certain nutrients may break down if exposed to high temperatures. Taste, consistency, and appearance can also degrade under too much heat.
- ❖ Plastics and chemical processing – synthetic materials can leach toxins with prolonged exposure to heat. This can even make convection drying methods hazardous, as the hot air stream must eventually be emitted.



Vacuum Oven Model VOM-54



LCD Touch Button and Sensor for vacuum control



Vacuum Pump



Corrosion Resistant Diaphragm Vacuum Pump



Touch Screen HMI Display for Vacuum and Temperature control with 3 level password protected user management for FDA requirement, Data storage, PC and Printer Connection facility

Technical Specifications

Model	VOM-25	VOM-53	VOM-91	VOM-215	VOM-90V	VOM-215V
Capacity	25L	53L	91L	215L	90L	215L
Temp. Range	RT+10~220°C / 05°C-220°C (with Cooling)					
Temp. Fluctuation	±1°C					
Vacuum Degree	5 mbar to 1013mbar (depending on vacuum pump)					
Vacuum Control	Manual control / Automatically, Digital Touch button LCD Display/ Automatically, Microprocessor Touch Screen HMI control					
Shelves No.	1pc	2pcs	2pcs	3pcs	2pcs	3pcs
Material	Chamber: SS304, Outside: Powder coated mild steel					
Consumption	500W	1400W	1600W	2200W	1600W	2200W
Power Supply	AC220V±10%, 50Hz					
Internal Size (W*D*H) mm	296*300*270	416*370*346	450*450*450	556*600*640	450*450*450	556*600*640
External Size (W*D*H) mm	590*492*468	710*562*544	611*641*1398	721*794*1638	611*641*1398	721*794*1638
Package Size (W*D*H) mm	740*620*630	820*700*690	790*750*1570	900*850*1930	790*750*1570	900*850*1930
Gross Weight(kg)	50	106	155	195	155	195

Customized size available

Vacuum Pumps (Diaphragm and Ordinary)



Model GM0.20



Model GM 0.33/GM0.5A/GM0.5B/ GM-1.0A/GM2.0A

Model	GM 0.20	GM0 0.33	GM-0.5A	GM-1.0A	GM-2.0A
Pumping Speed	15L/Min	20L/Min	30L/Min;(1CFM)	30L/Min;(1CFM)	60L/Min;(2CFM)
Max Vacuum	250mbar (0.075MPa)	200mbar (0.08MPa)		50mbar (0.095MPa)	200mbar (0.08MPa)
Positive Pressure	≥30Psi	—	≥30Psi	—	≥30Psi
Motor Power	75W;(1/10HP)	160W;(1/5HP)			
Inlet & Outlet	φ6 (mm)				
Temp. of the Body	≤55℃				
Ambient Temp.	7-40℃				
Noise Level(dB)	< 60				
Diaphragm	Nitrile Rubber (NBR)				
Dimensions (L*W*H)	320*200*240mm	350*210*340 mm	320*220*350mm	410*230*350mm	410*250*350mm
Weight	4.5KG	7.5KG	8KG	10KG	10KG
Power Supply	220V;50Hz				
Pump Head	1			2	
Function	Vacuum & Pressure	Vacuum	Vacuum & Pressure	Vacuum	Vacuum & Pressure

Vacuum Pumps (Diaphragm and Anti Corrosive)



Model GMA 0.20/GMA 0.33/GMA 0.5A/GMA 0.5B/ GMA 1.0A/GMA 2.0A

Model	GMA0.20	GMA0.33	GMA-0.5A	GMA-1.0A	GMA-2.0A
Pumping Speed	30L/Min;(1CFM)	20L/Min	30L/Min;(1CFM)	30L/Min;(1CFM)	60L/Min;(2CFM)
Max Vacuum	50mbar (0.095MPa)	200mbar (0.08MPa)		50mbar (0.095MPa)	200mbar (0.08MPa)
Positive Pressure	—	—	≥30Psi	—	≥30Psi
Motor Power	160W;(1/5HP)	160W;(1/5HP)			
Inlet & Outlet	φ6 (mm)				
Temp. of the Body	≤55℃				
Ambient Temp.	7-40℃				
Noise Level(dB)	<60				
Diaphragm	PTFE Coated				
Dimensions (L*W*H)	410*230*350mm	350*210*340 mm	320*220*350mm	410*230*350mm	410*250*350mm
Weight	7.5KG		8KG	10KG	10KG
Power Supply	220V;50Hz				
Pump Head	1		2		
Function	Vacuum	Vacuum & Pressure	Vacuum	Vacuum & Pressure	Vacuum & Pressure

Medical Fluid Warmer

The countertop **Fluidwarm series** warmers are conveniently used at the point-of-care. The patient-friendly design allows you to put these aesthetically pleasing warming units right where they are needed, allowing nurses and aides to maximize their time. The lighting inside the warmers softens the patient's room and equipment, placing more emphasis on comfort and care.

Safety is a priority with Fluidwarm Series fluid warmers. Ensure each bag is safely warmed to recommended temperatures through the WarmSafe™ zone heating system. WarmRight technology provides the right temperature for the right product to meet healthcare guidelines for IV and irrigation fluids.

Features:

- Microprocessor control panel – for accurate fluid temperature control
- LED temperature display – allows you to view the product temperature
- Double glazed doors – allows you to see the fluid bags and bottle while still keeping the heat in
- Fan forced air – for even temperature throughout the fluid warmer
- Magnetic door closure – for easy and secure door closure
- Stainless steel construction – Easy to keep clean and sanitary
- Chrome-plated shelves – resistant to heat
- Shelves designed to aid air circulation



Fluidwarm-50



Fluidwarm-65



Standard LCD Display

Touch Screen HMI (Optional)



- ❖ Data storage to memory, Export to PC, USB, Printer
- ❖ Three-level Password protected user management and Log functions for FDA requirements

Mini Printer (Optional)



Model	Fluidwarm-50	Fluidwarm-90	Fluidwarm-115
Capacity in Liters	50	90	115
Sample quantity	1 Liter saline x 12	1 Liter saline x 24	1 Liter saline x 30
Temp. range	Ambient +5°C to 50°C		
Temp. accuracy	±0.5°C		
Temp. resolution	0.1°C		
Temp. Uniformity	±1.0°C		
Control display	LCD		
Ambient temp.	+5~30°C		
Timer Range	1-9999 min/hour		
Voltage	220V/50HZ		
Heating power	250 W	350W	800W
Chamber size (WDH)	310×510×310	310×510×560	460×430×560
Exterior dimensions	460×760×380	460×760×630	610×680×630

Customized size on request

LAF Cabinet /Clean Bench/Tissue Culture Cabinet

Vertical Laminar Flow Hood / Cabinet (also called clean bench) provides sample protection as purified air travels across the working zone of the cabinet in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet. Maintain ISO Class 5 zone.

Applications

Microbiology (non-pathogenic)
Forensics
Sterile product compounding

Humanized Features

- Ergonomic Control Panel Location, centered and angled down for an easy reach & viewing
- Brushed stainless steel work surface is for easy cleaning
- The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination
- Intuitive and easy-to-use microprocessor controller with LCD display, graphical and digital display of the operating status of each function, such as filter life, UV life etc.



Standard Display



Convenience Features

- Memory function in case of power-failure
- HEPA filter and UV life indicators facilitate a timely replacement plan
- Two side glass windows installed for easy experiment observation
- Easy-to-change pre-filter installed could extend the HEPA filter's lifetime
- Equipped with temperature sensor to show the real temperature during operation

Safety Features

- Front sliding sash interlock with fan and UV lamp
- UV sterilization with UV lamp timing function
- Front sash and side windows are made of UV-resistant polycarbonate glass
- The host and sockets have independent capacitors to prevent current overload
- Waterproof socket provide convenience for small instruments to be used in the operating area

Technical Specifications (Vertical)

Model	LAF-36	LAF-42	LAF-48	LAF-54	LAF-60	LAF-66
External Dimensions (Wx LxH)	36x30x74 inch	42x30x74 inch	48x30x74 inch	54x 30x74 inch	60x30x74 inch	66x30x74 inch
Internal Dimensions (WxLxH)	30x26x26 inch	36x26x26 inch	42x26x26 inch	48x26x26 inch	54x26x26 inch	60x26x26 inch
Control System	❖ LCD display, simple and generous interface, complete functions and convenient operation ❖ One button control of fan, lighting, sterilization and other functions, simplifying operation. ❖ It has the function of door control and ambient temperature, displaying various front window states and current ambient temperature measurement values, and can set the number of door controls, signals, etc. ❖ Adjustable wind speed control. ❖ It has the function of setting the remaining time, sterilizing timing, and cumulative running time of the fan. ❖ Display the service life of filter and sterilization lamp synchronously and prompt for replacement in time.					
Work Surface Height	30 inches					
Maximum Sash Opening	20 inches (manual)					
Airflow Velocity	Adjustable, 0.3~0.5 m/s					
HEPA Filter Efficiency	> 99.999% at particle size of 0.3μm					
Pre-Filter	1 pc., made of washable polyester fiber					
Sound Emission	≤58dB(A)					
Fluorescent Lamp	LED Type, Intensity ≥1000Lx					
UV Lamp	With timing function, Emission of 253.7 nanometers for best sterilization effect.					
Power Consumption	155W	180W	180W	250W	400W	600W
	Doesn't include external device connected via power socket					
Cabinet Construction	Main Body: Electro-galvanized steel with antimicrobial Powder Coating					
	Work Zone: Stainless steel, grade 304					
Electricity	AC220V ±10%, 50Hz					
Standard Accessories	Base stand; LED lamp; UV lamp; Waterproof socket*1, Gas tap, Water tap					
Shipping Weight (kg)	180	230	260	290	330	360

LAF Cabinet /Clean Bench/Tissue Culture Cabinet (Double Sides Working)

Description

Vertical Laminar Flow Hood / Cabinet (also called clean bench) provides sample protection as purified air travels across the working zone of the cabinet in a vertical, unidirectional stream and leaves the main work chamber across the entire open front of the cabinet.

Most vertical Laminar Flow Hood also have perforations at the back wall of the work zone which are designed to eliminate air turbulence and the possibility of dead air corners in the work zone.

Applications

- Microbiology (non-pathogenic)
- Sterile product compounding
- Forensics

Humanized Features

- Ergonomic Control Panel Location, centered and angled down for an easy reach & viewing
- Brushed stainless steel work surface is for easy cleaning
- The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination
- Intuitive and easy-to-use microprocessor controller with LCD display, graphical and digital display of the operating status of each function, such as filter life, UV life etc.



Convenience Features

- Memory function in case of power-failure
- HEPA filter and UV life indicators facilitate a timely replacement plan
- Two side glass windows installed for easy experiment observation
- Easy-to-change pre-filter installed could extend the HEPA filter's lifetime
- Equipped with temperature sensor to show the real temperature during operation

Safety Features

- Front sliding sash interlock with fan and UV lamp
- UV sterilization with UV lamp timing function
- Front sash and side windows are made of UV-resistant tempered glass
- The host and sockets have independent capacitors to prevent current overload
- Waterproof socket provide convenience for small instruments to be used in the operating area

Technical Specifications (Vertical)

Model	LAF-36D	LAF-42D	LAF-48D	LAF-54D	LAF-60D
External Dimensions (W*L*H) inch	36x30x72	42x30x72	48x30x72	54x30x72	60x30x72
Internal Dimensions (W*D*H) inch	30x28x26	36x28x26	42x28x26	48x28x26	54x28x26
Control System	Microprocessor controller with LCD display, digital display of the operating status of each function including velocity sensor				
Work Surface Height	30 inches				
Maximum Sash Opening	24 inches				
Airflow Velocity	Adjustable, 0.3~0.8 m/s				
HEPA Filter Efficiency	> 99.995% at particle size of 0.3 μ m				
Pre-Filter	1 pc., made of washable polyester fiber				
Sound Emission	≤ 62 dB(A)				
Fluorescent Lamp	LED Type, Intensity ≥ 500 Lx				
UV Lamp	With timing function, Interlock with front sliding sash. Emission of 253.7 nanometers for best sterilization effect.				
Power Consumption	155W	285W	285W	350W	500W
	Doesn't include external device connected via power socket				
Cabinet Construction	Main Body: Electro-galvanized steel with antimicrobial Powder Coating Work Zone: Stainless steel, grade 304 Manual Sliding Sash: 5 mm UV Resistant Tempered Glass with counter-balance system and ergonomic handle Side Windows: 5 mm UV Resistant glass				
Electricity	AC220V $\pm 10\%$, 50/60Hz, 1P				
Standard Accessories	Base stand; LED lamp; UV lamp; Electric socket*2				
Optional Accessories	Wind speed sensor, Gas tap, Water tap, Casters with brakes				
Shipping Weight (kg)	180	210	260	290	320

Biosafety Cabinet

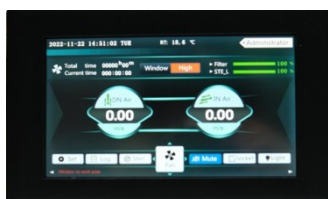
A Biological Safety Cabinet is a ventilated enclosure offering protection to the user, the product and the environment from aerosols arising from the handling of potentially hazardous micro-organisms. The continuous airflow is discharged to the atmosphere via a HEPA filter.

Class II type A2 Biological Safety Cabinet

- ❖ Maintained HEPA filtered Inflow 0.5m/s and down flow 0.3m/s
- ❖ 70 % of air is re-circulated within the cabinet.
- ❖ 30 % of the HEPA filtered air is exhausted either back into the laboratory or to the outside atmosphere with a thimble duct connection.

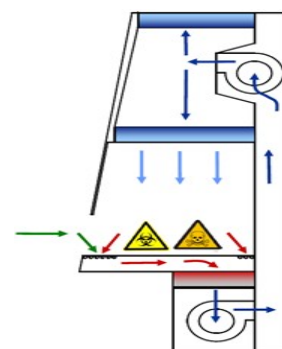
Biologically contaminated plenum is under negative pressure or surrounded by negative pressure.

7" Color Touch Screen



Features

- ❖ High resolution touch screen, beautiful and generous interface, multiple groups of data displayed on one screen, convenient operation
- ❖ Intelligent fuzzy control, accurate wind speed control
- ❖ Real time monitoring of operation status and accumulated operation time of fans, filters, etc. with alarm function
- ❖ More humanized lighting and UV functions;
- ❖ It has the function of operation log, password protected user management to enhance the traceability of experiments (FDA Requirement)
- ❖ It has the scheduled operation function and timing function;
- ❖ It has the screen locking function to avoid human touch operation errors
- ❖ It can expand remote communication and other functions to improve the convenience and security of the experiment.



Technical Specifications

Model	BSC-30	BSC-36	BSC-42	BSC-48	BSC-54	BSC-60	BSC-72
Uses persons	1	1	1	-----	-----	2	3
Size External inch	30 x 30 x 76	36 x 30 x 76	42 x 30 x 76	48 x 30 x 76	54 x 30 x 76	60 x 30 x 76	72 x 30 x 76
Size internal inch	24 x 24 x 26	30 x 24 x 26	36 x 24 x 26	42 x 24 x 26	48 x 24 x 26	54 x 24 x 26	64 x 24 x 26
Work Surface Height	28 inch						
Material Interior	SS304						
Material Worktable	SS304						
Material Exterior	Powder coated Steel						
Front window	8 mm UV resistant transparent polycarbonate and manual up down (Motorized Front window optional)						
Hepa Filter	Long-life ULPA filters for supply and exhaust with 99.999% efficiency for particle size between 0.1 to 0.3 microns						
Type	Class II type A2						
Air flow control	7 inch Touch Screen LCD controller with dual sensor Inflow 0.5±0.025m/s, Down flow 0.30±0.025m/s						
Noise	<58 dBA						
Standard Accessories	Power socket x 1; UV Light x1, LED Light x 1, Gas inlet port x 1						
Power	220V AC, 50 Hz						
Weight Kg (appr.)	85	100	130	180	210	220	230

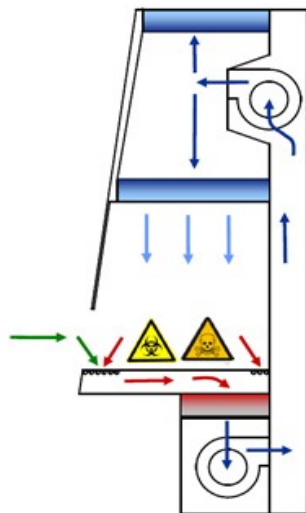
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Cytotoxic Safety Cabinet

Cytotoxic Safety Cabinet are Cytotoxic Drug (also cytotoxic chemotherapy) and Microbiological Safety Cabinets designed and built to performance requirements of the EN 12469:2000 and DIN 12980:2005-06 European Standards. They are **triple HEPA filter technology cabinet**, with 100% of the air filtered via the main H14 HEPA/ULPA filter directly below the work surface and then 70% of the air re-circulated via the recirculating H14 HEPA/ULPA filter within the cabinet, whilst the remaining 30% is discharged through an exhaust H14 HEPA/ULPA filter.

Product Feature

- ❖ LCD Display
- ❖ Gas Taps
- ❖ UV Lamp
- ❖ LED Lamp
- ❖ Front Window
- ❖ Bag In and Bag Out Filter
- ❖ Base stand
- ❖ Waterproof sockets



Model	CytoSafe-42	CytoSafe-48	CytoSafe-60	CytoSafe-72	CytoSafe-43
Uses persons	1	1	2	3	1
External size (WxDxH)	42x30x76 inch	48x30x76 inch	60x30x76 inch	72x30x76 inch	1087×760×2100 mm
Internal size (WxDxH)	36x24x26 inch	42x24x26 inch	54x24x26 inch	54x24x26 inch	910×600×630 mm
Tested Opening	Safety Height 200 mm(8")				
Max Sash Opening	18"				
Air flow motor quantity	2				
Hepa Filter Quantity	3				
Inflow Velocity	0.5±0.025 m/s				
Down Flow Velocity	0.33±0.025 m/s				
Filter Efficiency	Hepa filter, efficiency>99.999% for particle size at 0.3μm				
7 Inches HMI Touch Screen Display	❖ High resolution touch screen, beautiful and generous interface, multiple groups of data displayed on one screen, convenient operation, ❖ Intelligent fuzzy control, accurate wind speed control; ❖ Real time monitoring of operation status and accumulated operation time of fans, filters, etc., with alarm function; ❖ More humanized lighting and UV functions; ❖ It has the scheduled operation function and timing function; ❖ It has the screen locking function to avoid human touch operation errors;				
					
Controller	Microprocessor PID Controller				
Alarm	Abnormal airflow velocity; Filter replacement; UV Life indicator				
Noise	EN12469≤58dB/NSF49≤ 61 dB				
Water & Gas Tap	Water Tap*1, Gas tap*1				
UV lamp	18 W*1; Emission of 253.7nanometers for most efficient decontamination				
LED Lamp and Illumination	16 W*2 and Illumination≥1000 lux				
Waterproof Socket	Two ; Total load of each sockets :≤1000W				
Material	Work Area: SS304 Main Body :Cold-rolled steel with anti-bacteria powder coating				
Front Window	Manual, anti UV polycarbonate≥5mm.				
Power Consumption	500 W	600W	800W	900W	500 W
Power supply	AC220V ± 10%,50HZ				
Gross weight Approximate	240kg	270kg	320 Kg	360 kg	260 kg

Water Bath

Features

- Microprocessor control with timing and temperature correction function
- The shell is made of high quality steel plate surface coated.
- The chamber, frame and top cover are made of stainless steel.
- **Between the inner and outer space are filled with high-quality insulation material in all WBI series.**
- LCD display or Touch Screen Display

Model		WB-6	WB-11	WB-15	WB-22	WB-30	WB-30D	WB-72D
		WBI-6	WBI-11	WBI-15	WBI-22	WBI-30	WBI-30D	WBI-72D
Volume Liter		6	11	15	22	30	30	72
Dimension (cm)	Effective	30x15x11	30x25x11	36x30x11	50x30x11	60x34x11	50x30x15	60x40x30
W x L x D	Internal	30x15x15	30x25x15	36x30x15	50x30x15	60x34x15	50x30x20	50x30x30
Temperature Range,		Ambient + 5 to 100°C						
Accuracy		±0.1°C						
Temperature Resolution		±0.1						
Temp. Uniformity & Probe		±1,0°C, PT100						
Display		LCD Display, size 72x72 mm						
Controller		Digital Fuzzy PID Microcontroller						
Timer		1-9999 Min / Hr						
Safety Circuit		Digital Over-Temperature, Over voltage, Under voltage, Over current, Short circuit protection, Sensor Error Detection, Heater can't burnout without water						
Lid		Stainless Steel Gabbled Lid						
Drain Valve		3/4" included						
Material		Tank and cover Stainless Steel#304						
Heating Power Watt		800	1000	1500	1800	2500	2500	
Power Supply		220V AC, 50 Hz						



Model WB-22



Model WBI-22

Bath Accessories (Optional)

Petri dish rack 	Nalgene Unwire Test Full Rack 12x 2= 24 Test Tube 	Gassing Hood 	Micro-centrifuge Tube Rack 
High Wall Tray 	Test Tube Tray 	Flask Tray 	Gable Hood 



4.3" Touch Screen

- ❖ Password protected 3 level user management,
- ❖ USB, Printer, Ethernet, RS485, RS232, Wifi port
- ❖ Multipoint temperature correction function;
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ Internal Data storage memory and graph view

Customized size available

Water Bath Transparent



Petri dish rack



Nalgene Unwire Test Full Rack 12x 2= 24 Test Tube



Micro-centrifuge Tube Rack



High Wall Tray



Test Tube Tray



Flask Tray



Gassing Hood



Gable Hood



Model		WBT-6	WBT-11	WBT-15	WBT-22	WBT-30	WBT-30D
Volume Liter		6	11	15	22	30	30
Dimension (cm)	Effective Internal	30x15x11	30x25x11	36x30x11	50x30x11	60x34x11	50x30x15
W x L x D		30x15x15	30x25x15	36x30x15	50x30x15	60x34x15	50x30x20
Temperature Range,		Ambient + 5 to 60°C					
Accuracy		±0.1°C					
Temperature Resolution		±0.1					
Temp. Uniformity & Probe		±1,0°C, PT100					
Display		LCD Display, size 72x72 mm					
Controller		Digital Fuzzy PID Microcontroller					
Timer		1-9999 Min / Hr					
Safety Circuit		Digital Over-Temperature, Over voltage, Under voltage, Over current, Short circuit protection, Sensor Error Detection, Heater can't burnout without water					
Lid		Acrylic Gabbled Lid					
Drain Valve		3/4" included					
Material		Acrylic					
Heating Power Watt		500	800	800	1000	1500	1500
Power Supply		220V AC, 50 Hz					

Water Bath Sample Picture

Bath Accessories

Customized size available



4.3" Touch Screen

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration;
- ❖ **Mini Printer**

Multi Chamber Water Bath



Specifications

Model	WBM-63	WBM-103	WBM-153	WBM-223	WBM-62	WBM-102	WBM-152	WBM-222
Volume Liter	6 Liter x 3	10 Liter x 3	15 Liter x 3	22 Liter x 3	6 Liter x 2	10 Liter x 2	15 Liter x 2	22 Liter x 2
Bath Size WLD cm	20x20x10	30x23x10	34x30x11	50x30x10	20x20x10	30x23x10	34x30x11	50x30x10
Working Size	20x20x15	30x23x15	34x30x15	50x30x15	20x20x15	30x23x15	34x30x15	50x30x15
Temperature Range	Ambient + 5 to 100,							
Accuracy	±0.1°C							
Temperature Resolution	±0.1							
Temp. Uniformity	±1,0°C							
Sensor	PT100							
Display	Digital LED Display							
Controller	Digital PID Microcontroller with auto tuning							
Safety Circuit	Over-Temp. / -Current protection, Sensor Error Detection							
Lid	included Stainless Steel Flat Lid included							
Drain Valve	0.5" included							
Material	Stainless Steel (#304)-Internal, Powder Coated Steel-External							
Power Supply	220V AC, 50 Hz							
Heating Power Watt	500x3	800x3	1000x3	1200x3	500x2	800x2	1000x2	1200x2

Bath Accessories (Optional)

 Petri dish rack	 Nalgene Unwire Test Full Rack 12x2= 24 Test Tube	 Gassing Hood	 Micro-centrifuge Tube Rack
 High Wall Tray	 Test Tube Tray	 Flask Tray	 Gable Hood

Customized size available



**4.3" Touch Screen
Optional**

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration;
- ❖ **Mini Printer**

Water Bath Circulator

AST Thermostatic Circulation water baths can virtually cover the needs of routine work in a wide range of laboratories. They are known for their excellent price/performance ratio.

Features

- ❖ Internal and external circulation functions
- ❖ Cooling and heating functions
- ❖ Robust and reliable, designed for years of trouble-free service
- ❖ High and low temperature protection
- ❖ Precise and stable temperature control
- ❖ Low liquid level protection
- ❖ Wide temperature control range
- ❖ Stainless steel bath and cover
- ❖ Compact design with large bath volume
- ❖ Drain port easily accessible
- ❖ Low noise level
- ❖ High performance
- ❖ Ease of use
- ❖ Intuitive operation
- ❖ Safe and quiet operation
- ❖ Quick heat-up and cool-down times



Model WBC-6



Model: WBC-6CP



Model: WBC-6CH



4.3"/5"/7"
Touch Screen Display

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ Mini Printer port, USB port, Wifi, Data storage

Specifications

Model	WBC-6	WBC-10	WBC-6CH	WBC-10CH	WBC-6CP	WBC-10CP
Bath capacity Liter	6	10	6	12	6	10
Temperature range	Ambient + 5 to 100°C		+ 5°C to 60°C		Ambient + 5 to 100°C (Programmable)	
Heating	Direct Immersion Sheath Heater					
	With internal/external circulation pump					
Accuracy	± 0.1°C at 37.0°C					
Uniformity	± 1.0°C at 37.0°C					
Control	Microprocessor PID Control Auto START / STOP					
Sensor	Pt-100					
Circulation	Stainless Steel Immersion Pump					
Safety	Over-Temperature Cut-Off					
	Over Current Cut-Off					
	Low Water Level Cut-Off					
Material	Body - Epoxy Powder Coated Steel					
	Bath -Stainless Steel 304					
	Lid - Polished Stainless Steel304					
Electric supply	220±10% VAC 50Hz 1-Phase					
Outer dimensions	L 510xW490xH360mm					
Customized Size available on request						

Steam Bath / Extraction Water Bath

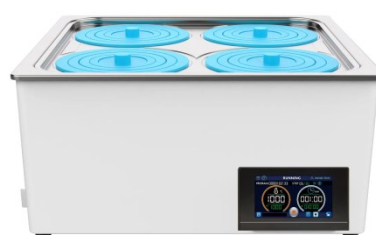
Model: OB-6



Model: OB-1



Model: OB-T4



Features of OB-T Series

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function (**Multi point calibration facility**);
- ❖ With adjustable wind speed function;
- ❖ Three-level permission management function (**3 Level of password**)
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration
- ❖ It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk, printer (optional) and other functions.

Technical Specifications

Model	OB-1/OB-T1	OB-2/OB-T2	OB-4/OB-T4	OB-6/OB-T6	WB-8/OB-T8
Volume Liter	4	6	12	15	22
Extraction hole	1	2	4	6	8
Temperature Range,	Ambient + 5 to 100°C				
Accuracy	±0.1°C				
Temperature Resolution	±0.1°C				
Temp. Uniformity & Probe	±1,0°C, PT100				
Display	Digital LCD Display/Touch Screen display in OB-T series				
Controller	Digital PID Microcontroller with auto tuning				
Safety Circuit	Over-Temp. / -Current protection, Sensor Error Detection				
Lid	included Stainless Steel Flat Lid included				
Drain Valve	0.5" included				
Material	Stainless Steel (#304)-Internal, Powder Coated Steel-External				
Heating Power Watt	600	800	1000	1200	1500
Power Supply	220V AC, 50 Hz				

Lab Digital Thermostatic Oil Bath (Advanced High-Temperature Circulators)



Intelligent Fuzzy PID Temperature Controller



As Standard

Technical Specifications

Model	Temperature Range (°C)	Temperature Fluctuation (°C)	Working Tank Size (mm)	Working Slot Size (mm)	Slot Depth (mm)	Pump Flow (L/min)	Drain Value
SC-5N	RT~100	±0.05	240*150*150	180*140	150	6	With
SC-10N	RT~100	±0.05	300*200*170	200*200	170	6	With
SC-15N	RT~100	±0.05	280*250*200	235*160	200	6	With
SC-20N	RT~100	±0.05	500*300*150	310*280	150	6	With
SC-25N	RT~100	±0.05	280*250*300	235*160	300	6	With
SC-30N	RT~100	±0.05	400*330*230	310*280	230	6	With
ZC-10N	RT~100	±0.1	280*190*200	180*160	200	6	With
ZC-18QN	RT~100	±0.05	320*275*200	250*230	200	6	With
ZC-22QN	RT~100	±0.1	495*295*150	395*285	150	6	With
SC-5BN	RT~200	±0.1~0.2	240*150*150	180*140	150	6	With
SC-10AN	RT~200	±0.1~0.2	300*200*170	200*200	170	6	With
SC-15AN	RT~200	±0.1~0.2	280*250*200	235*160	200	Internal recycle	With
SC-15BN	RT~200	±0.1~0.2	280*250*200	235*160	200	6	With
SC-20AN	RT~200	±0.1~0.2	500*300*150	310*280	150	Internal recycle	With
SC-20BN	RT~200	±0.1~0.2	500*300*150	310*280	150	6	With
SC-25AN	RT~200	±0.1~0.2	280*250*300	235*160	300	Internal recycle	With
SC-30AN	RT~200	±0.1~0.2	400*330*230	310*280	230	Internal recycle	With
OB-300	RT+10 to 300	±2.0	240*150*150	180*140	150	Internal Fan Vibration in water	With

Timer as standard 1-9999 Min/Hr

Optional



4.3" Touch Screen HMI

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration;
- ❖ Mini Printer port

Oil plus Water Bath with Magnetic Stirrer



Technical Specifications

Model	OB-2	OB-4	OB-6	WB-8
Volume Liter	6	12	15	22
Extraction hole	2	4	6	8
Bath Dimension W x L x D cm	Effective 300x150x110 Internal 300x150x150	320x250x110 320x250x150	360x300x110 360x300x150	500x300x110 500x300x150
Temperature Range,	Ambient + 5 to 200°C			
Accuracy	±0.1°C			
Temperature Resolution	±0.1°C			
Temp. Uniformity & Probe	±1,0°C, PT100			
Display	Digital LED Display			
Controller	Digital PID Microcontroller with auto tuning			
Safety Circuit	Over-Temp. / -Current protection, Sensor Error Detection			
Lid	included Stainless Steel Flat Lid included			
Drain Valve	0.5" included			
Material	Stainless Steel (#304)-Internal, Powder Coated Steel-External			
Heating Power Watt	600	800	1000	1200
Power Supply	220V AC, 50 Hz			



4.3" Touch Screen

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration;
- ❖ Mini Printer

Water Bath Shaker

Water Bath Shaker (also called shaking water bath) is to shake and mix the sample steadily while maintaining a constant temperature. They are used in applications such as culturing cells, hybridization, and molecular biology assays.

- ❖ 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.

Model	SWB-26	SWB-35	SWB-45	SWB-55
Type	Reciprocating oscillation + thermostatic water bath			
Operating Temp Range	RT+5 to ~100°C			
Tem. Resolution Ratio	0.1°C			
Tem. Uniformity	±2.0°C			
Reciprocal Oscillation Amplitude	16 or 24mm (Ex-factory is 16mm)			
Reciprocating frequency Range	20~200 (r/min)			
Reciprocating frequency Accuracy	±1rpm			
Water Tank	Stainless steel #304			
Outer Shell	Cold rolling steel electrostatic spraying exterior			
Upper Cover	Stainless steel #304			
Heater	Stainless Steel Heater			
Shelf	stainless steel #304			
Power rating	1.5kW	1.8kW	2.0kW	2.5kW
Tem. Control Mode	LCD PID Intelligent control			
Reciprocating Control Mode				
Setting Mode	Touch button setting			
Temperature Display Mode	LCD Display			
Speed Display Mode				
Timer	0~9999 min/hr			
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			
Safety device	over temperature alarm, menu locked, water full or shortage protection, Motor shaft lock protection;			
Water Tank Size (W*L*H)(mm)	500*310*170	500*400*170	600x380x200	550*550*180
Exterior Size (W*L*H)(mm)	800*360*425	800*450*425	800*450*290	850*600*425
Spring Shock Basket Size (mm)	450x250	450x350	450x450	500x500
max. quantity of Erlenmeyer flasks Size (ml /piece)	250*8/500*4	250*12/500*6	250x18 or 500x15 or 1000x8	250*24/500*10
Inside Volume	26L	35L	45L	55L
Current Rating (50Hz)	AC220V/6.8A			
NW/GW (kg)	20/30			
Accessories	Water bath flask seat, tube rack			



Standard LCD display

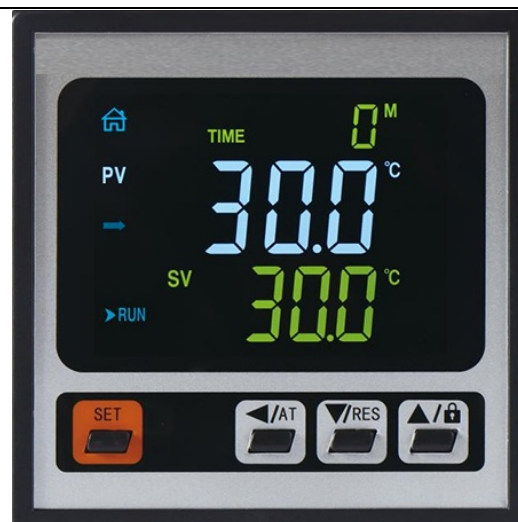


Touch Screen LCD Display (Optional)

- ❖ 3 Level Password protected user management
- ❖ USB, RS485, RS232, Wifi, Ethernet, Data storage memory, Real time Graph and Data export etc.
- ❖ It has the function of appointment running, timing and power-off memory.
- ❖ The controller has screen locking function to avoid misoperation;

Calibration Oil Bath

Portable is designed for precision temperature sensor calibration, particularly for **RTDs, thermocouples, and similar probes** in laboratory or industrial settings. It is ideal for calibration laboratories, pharmaceutical industries, HVAC systems, food processing units and research facilities requiring low-temperature validation and testing.



Standard display



4.3"/5"/7"
Touch Screen Display

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, shorter time to achieve set value, better temperature control accuracy, can be extended to multi-segments programmable control
- ❖ Multipoint temperature correction function;
- ❖ Three-level permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ Mini Printer port, USB port, Wifi, Data storage

Product Name	Calibration Bath
Model	CB-20
Temperature Range	-20-200°C
Stability	±0.2°C@-20°C ±0.4°C@200°C
Homogeneity	±0.3°C@-20°C ±0.5°C@200°C
Fluid	Silicone Oil, Soft Water, Antifreeze solution
Resolution	0.01°C
Opening Size (mm)	150*180
Liquid Level (mm)	457
Size (mm)	800*400*1100
Capacity	15L
Power Consumption	7A
Computer Interface	USB, RS232
Power Supply	220VAC, 50Hz
Refrigerant	R404a
Weight	50kg

Customize specification available on request

Belly Dancer / Belly Bath

Belly Bath Shaker (also called Belly bath) is to shake and mix the sample steadily while maintaining a constant temperature. They are used in applications such as culturing cells, hybridization, and molecular biology assays.

- ❖ 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.



Specifications:

Base Footprint: 15" X 15"
 Standard platform: 12" x 12"
 Overall Height w/lid: 17"
 Overall height w/o lid: 13"
 Water bath chamber dimensions: 10.375" x 10.375" x 3.25" (depth)
 Unit weight: 25Kg
 Shipping weight: 20Kg
 Max load on Belly Dancer platform: 10 Kg
 Orbit size: 1"
 Platform pitch control: 0 – 8 degrees
 Water bath temp range: Ambient + 5 to 80°C
 Water bath heat-up rate: Approx. 3°C per/minute
 Temp stability of water at set point: +/- 0.5° C.
 Electrical: 220 V, 50 Hz
 Current draw: 5.8 amps

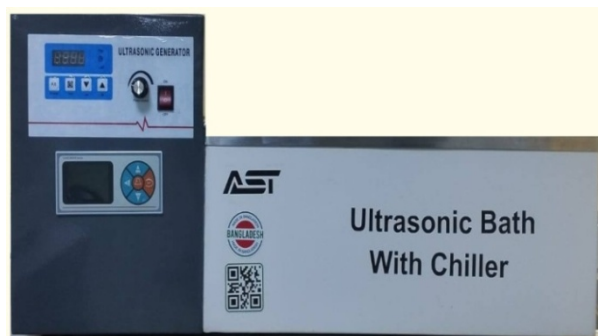
Ultrasonic Cleaner/Ultrasonic Bath

Features:

- ❖ Convenient preset function of heating and timer
- ❖ HF frequency 40 kHz
- ❖ Temperature range from 10°C to 80°C
- ❖ Bottom-mounted drain valve
- ❖ Maximum 99 minutes cleaning time
- ❖ Microprocessor control: timer, temperature and output control
- ❖ LCD display



Model UC-22 (Without Chiller)



Model UC-100C (with built in chiller) Capacity 100 liter



Industrial Model UC-120C (with built in chiller) Capacity 120 liter



Model UC-22C (with built in chiller)



Industrial Model UC-110 (with built in timer, capacity 110 liter)						
Model	UC-11	UC-15	UC-20	UC-22	UC-30	UC-C22
Volume Liter	11	15	20	22	30	22
Tank Dimension	300*240*150	330*300*150	330*300*200	500*300*150	500*300*200	500*300*150
Temp. Range	Ambient + 10°C to 80°C					+10 to 80°C
Ultrasonic Frequency	40 KHz					
Temp. Controller	Digital, PID Microcontroller					
Timer Max.	1Min to 99 Min 59 Sec					
Ultrasonic Power	240	360	360	480	600	480
Heating Power	300	400	400	500	500	500
Degassing Function	Yes					
Drain valve	Yes					
Power Adjustment	Yes					
Material	Bath, Cover and Outer: SS 304					
Net Weight Kg	8.5	11.5	12.5	14.5	16	40
Power supply	220VAC,50Hz					
Customized size available						

Industrial Ultrasonic Cleaner

Features:

- ❖ Convenient preset function of heating and timer
- ❖ HF frequency 25/28/40 kHz
- ❖ Temperature range from ambient to 80°C
- ❖ Bottom-mounted drain valve
- ❖ Maximum 99 minutes cleaning time
- ❖ Microprocessor control: timer, temperature and output control
- ❖ LCD display



High Power Industrial Ultrasonic Cleaner Specification

Model	Capacity (Liter)	Ultrasonic Frequency(kHz)	Ultrasonic Power(W)	Heating Power (W)	Transducers Qty (PCS)	Inner tank dimension (MM)	Machine overall size (MM)
AST-1012SG	45	25/28/40	600	1500	12	200*300*300	700*540*680
AST-1018SG	70	25/28/40	900	3000	18	500*400*350	700*640*730
AST-1024SG	96	25/28/40	1200	4500	24	600*400*400	800*640*780
AST-1036SG	150	25/28/40	1800	6000	36	600*500*500	800*740*880
AST-1048SG	175	25/28/40	2400	6000	48	700*500*500	900*740*880
AST-1060SG	240	25/28/40	3000	9000	60	800*600*500	1000*840*880
AST-1072SG	360	25/28/40	3600	9000	72	1000*600*600	1200*840*980
AST-1108SG	480	25/28/40	5400	12000	108	1000*800*600	1200*1040*980

Optional with Chiller

Waterproof Submersible Ultrasonic Cleaner

Features:

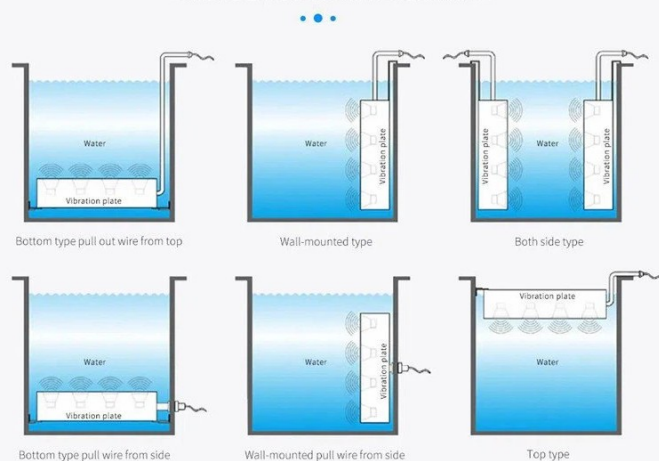
- ❖ Convenient preset function of heating and timer
- ❖ HF frequency 25/28/40 kHz
- ❖ Temperature range from ambient to 80°C
- ❖ Bottom-mounted drain valve
- ❖ Maximum 99 minutes cleaning time
- ❖ Microprocessor control: timer, temperature and output control
- ❖ LCD display



Submersible Ultrasonic Transducer and Generator

Installation and use diagram

Six installation modes are available



Model No.	AST-1012P	AST-1018P	AST-1024P	AST-1030P	AST-1036P	AST-1040P	AST-1048P
Ultrasonic power(w)	600	900	1200	1500	1800	2000	2400
Transducer quantity(pcs)	12	18	24	30	36	40	48
Ultrasonic frequency	17/20/25/28/40/53/68/80/100/132/170/200Khz						
Material	SUS304 or SUS316L 2.0-3.0mm thickness chrome coated						
Power supply	AC220V±10% 50/60Hz or AC220V±10% 50/60Hz						
Transducer box size mm	350*300*100	450*300*100	550*400*100	580*450*100	600*500*100	650*550*100	700*600*100

Waterproof Immersible Ultrasonic Transducer can be installed in the tank by three ways as below, the fix way is customized.

Ultrasonic Homogenizer (Assembled)

The small-scale laboratory ultrasonic homogenizer is an advanced instrument designed specifically for scientific research laboratories, mainly used for sample crushing, emulsification, and homogenization treatment. This device has become a powerful assistant for experimental research in fields such as biology, chemistry, and biomedical engineering due to its high efficiency, stability, and ease of operation.

The equipment adopts advanced ultrasonic technology, which can quickly crush samples in a short time, while achieving homogenization and emulsification effects. By precisely controlling the power and time of ultrasound, users can flexibly adjust the processing effect according to experimental needs, meeting the needs of different experiments.

The design of small-scale laboratory ultrasonic homogenization equipment is compact and easy to operate, which can greatly improve experimental efficiency. The device is also equipped with a user-friendly control panel, allowing users to easily set up and monitor the experimental process. In addition, the device also has the environmental characteristics of low noise and low energy consumption, which meets the green environmental protection requirements of modern laboratories.

In short, small laboratory ultrasonic homogenization equipment is an ideal choice for scientific research laboratories. Whether used for daily experiments or complex research projects, it can provide stable, reliable, and efficient services, helping to achieve successful experiments.



Submersible Ultrasonic Transducer and Generator



Model	Ultrasonic frequency	Ultrasonic power	Working voltage	Rod diameter (mm)	Disperse capacity (ml)
AST300/AST300SPB	28khz±1khz	≤300	220V±10%	Φ12 Φ15 Φ20	100-1000ml
AST400/AST400SPB	20khz±0.5khz	≤400	220V±10%	Φ 15 Φ20 Φ25	200-2000ml
AST700/AST700SPB	20khz±0.5khz	≤700	220V±10%	Φ30 Φ35 Φ40	800-5000ml

Blood Thawing Bath

Applications: TB-8 and TB-8C are suitable for blood centers, clinical transfusion departments, hospitals, blood products production units, using microcomputer control, temperature digital display, arbitrary setting, automatic constant temperature, and swing function. It is widely used for the rapid melting of frozen blood components and biological products.

Features:

- ❖ Special shape design of main control panel, easy to observe, control, ergonomic.
- ❖ Microcomputer PID precision temperature control technology, high temperature control precision.
- ❖ Digital display temperature, swing frequency, time.
- ❖ The liner is made of high quality rust-proof wire drawing stainless steel.
- ❖ Configuration of leakage current, overvoltage protector.
- ❖ With over temperature alarm, the temperature in the box exceeds the set temperature 1°C will start the alarm.
- ❖ Independent over temperature control system design, with double protection function, to ensure the safety of use.



Model: TB-8

Technical Parameters

Model	TB-8	TB-8C
Display	Touch Button / Touch screen	
Temperature Range	37.0±2.0°C	15.0°C to 39°C (±2.0°C) Adjustable
Temperature Resolution	±0.1°C	
Thawing Quantity	3 layers(1~12pcs)	
Swing Frequency	60±5 times/min or Automatic frequency modulation	
Swing Mode	Continuous left and right reciprocating, horizontal swing	
Ambient Temp.	18°C ~30°C	
Power Supply	AC220±22V,50/ 2100VA	
Internal Size	298*238*233mm	
External Size	832*558*498mm	
Net Weight	50kg	70 Kg

Optional Items

4.3"/5"/7" Touch Screen Data Storage, Data Export to USB



- ❖ Multipoint temperature correction function;
- ❖ Three-level Password protected permission management function for FDA requirements
- ❖ Have the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration;

Mini Printer



Customized size available

Orbital Shaker/Mechanical Shaker/Platform Shaker

Typical Applications:

- ❖ Ideal for biological and microbiological growth tests and for production of stock solutions, and general mixing
- ❖ Ideal for round flasks, Erlenmeyer flasks, culture flasks and bottles

Features:

- ❖ A wide choice of platforms for various applications
- ❖ Over-load and over-speed detection and protection
- ❖ LED display for easy-reading of speed and time simultaneously
- ❖ Stylish, High Strength tempered glass front panel
- ❖ Timer with Automatic Alarm function allows for unsupervised operation
- ❖ Brushless DC motor is maintenance-free and provides long service life
- ❖ Continuous operation and timed operation in range of 0- 99h59min are available
- ❖ Supports both orbital shaking and linear shaking and easy to switch the shaking mode
- ❖ Digital speed control system ensures stable movement and prevents splashing



LCD Display as standard supply



Standard Accessories

Horizontal and vertical adjustment longitudinal rod tray



Optional: Clamp for round flask



Optional: Spring Tray



Optional: Touch Screen HMI



Features:

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate,
- ❖ Intelligent fuzzy PID control, high control accuracy, extensible multi-stage programming control;
- ❖ Motor can be controlled, with greater torque, less noise and more accurate speed control;
- ❖ It has the function of appointment running, timing and power-off memory.
- ❖ The controller has screen locking function to avoid misoperation;
- ❖ It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk port, printer port and other functions.

Technical Specification

Model	OS-350	OS-450	OS-550	OS-650
Shaking motion	Orbital / Linear			
Capacity Flask	12x250 ml	16x250 ml	20x250 ml	24x250 ml
Motor type	Servo motor			
Max. load capacity(with platform) [kg]	10	15	20	30
Orbital diameter [mm]	10			
Speed display	LCD			
Speed range [rpm]	10-300			
Time display	LCD			
Time range	1-9999 Min / Hr			
Operation type	Continuous / Timing operation			
Permissible ambient temperature [°C]	5-40			
Permissible relative humidity	80%			
Protection class acc. to DIN EN60529	IP21			
Voltage [VAC]	220VAC±10%, 50Hz			
Power [W]	40	60	250	400
Universal Spring Rack mm	W350 x D350	W450 x D450	W550 x D550	W650 x D650
Platform Dimensions [W x D mm]	370 x 370	450 x 450	550 x 550	650 x 650
Weight [kg]	13	15	18	22

Customized size available

Horizontal Shaker (Reciprocating Shaker)

Typical Applications:

- ❖ Ideal for biological and microbiological growth tests and for production of stock solutions, and general mixing
- ❖ Ideal for round flasks, Erlenmeyer flasks, culture flasks and bottles

Features:

- ❖ A wide choice of platforms for various applications
- ❖ Over-load and over-speed detection and protection
- ❖ LED display for easy-reading of speed and time simultaneously
- ❖ Stylish, High Strength tempered glass front panel
- ❖ Timer with Automatic Alarm function allows for unsupervised operation
- ❖ Brushless DC motor is maintenance-free and provides long service life
- ❖ Continuous operation and timed operation in range of 0- 99h59min are available
- ❖ Supports both orbital shaking and linear shaking and easy to switch the shaking mode
- ❖ Digital speed control system ensures stable movement and prevents splashing



LCD Display as standard



Standard Rod Tray



Optional: Spring Tray

Optional: Touch Screen HMI



Features:

- ❖ High resolution touch screen, aesthetic and elegant interface, multiple sets of data displayed on one screen, easy to operate
- ❖ Intelligent fuzzy PID control, high control accuracy, extensible multi-stage programming control
- ❖ Brushless DC motor and servo motor system can be controlled, and positive and negative rotation of the motor can be controlled, with greater torque, less noise and more accurate speed control
- ❖ It has the function of appointment running, timing and power-off memory.
- ❖ The controller has screen locking function to avoid misoperation
- ❖ It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk port, printer port and other functions.

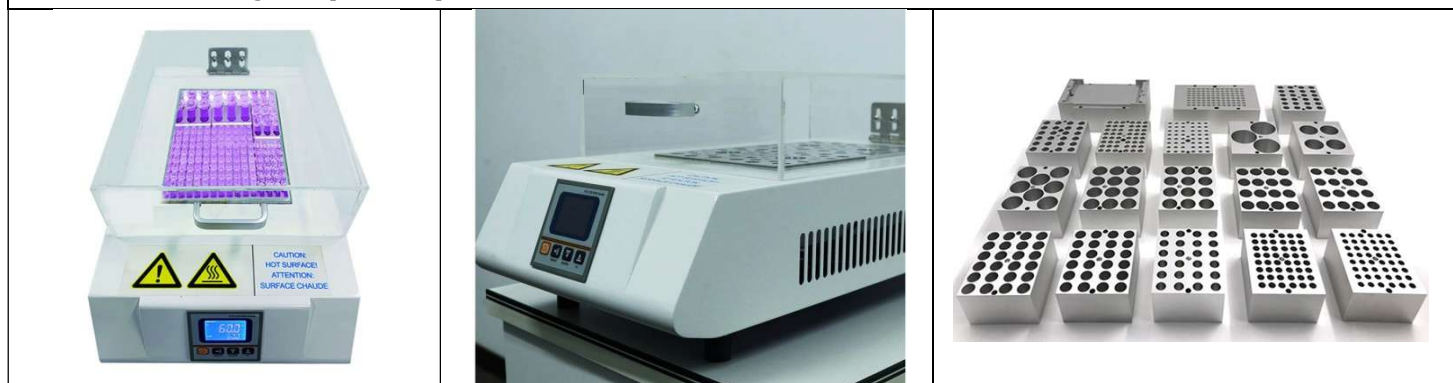
Technical Specification

Model	OS-350	OS-450	OS-550
Shaking motion	Horizontal		
Capacity Flask	9x250 ml	16x250 ml	25x250 ml
Motor type	Servo motor		
Max. load capacity(with platform) [kg]	10	15	20
Orbital diameter [mm]	10		
Speed display	LCD		
Speed range [rpm]	10-300		
Time display	LCD		
Time range	1-9999 Min / Hr		
Operation type	Continuous / Timing operation		
Permissible ambient temperature [°C]	5-40		
Permissible relative humidity	80%		
Protection class acc. to DIN EN60529	IP21		
Voltage [VAC]	220VAC±10%, 50Hz		
Power [W]	40	300	350
Universal Spring Rack mm	W350 x D350	W450 x D450	W650 x D650
Platform Dimensions [W x D mm]	370 x 370	450 x 450	650 x 650
Weight [kg]	13	15	30

Dry Block Heater

It is controlled by microcomputer, widely used in preservation and reaction of the samples, DNA amplification and pre-denaturation of electrophoresis, serum coagulation, etc.

- ❖ LCD display with timer.
- ❖ Automatic fault detection with buzzer alarm.
- ❖ Temperature calibration function.
- ❖ Various blocks for optional choice, easy cleaning and disinfection
- ❖ Built-in over high temperature protection



Model	DBH-160-1	DBH-160-2	DBH-160-3	DBH-200
Temperature Control Range	RT+5°C~160°C			
Heating Up Rate	≤ 10min (20°C ~100°C)			
	≤ 25min (20°C~150°C)			
Temperature Stability @40°C	±0.3°C			
Temperature Stability @100°C	±0.5°C			
Temperature Stability @120°C	±1°C			
Display Accuracy	0.1°C			
Timer	1~9999 M/H			
Max. Temperature	150°C			
Power	200W	400W	600W	1200W
Power Supply voltage	220V/50Hz			
Dimension (W*D*H)	220*260*100mm	220*260*100mm	220*360*100mm	250*360*150mm
N.W./G.W.	3.4kg/6kg	4.8kg/6.8kg	7.8kg/10kg	12kg/15kg
Shipping Dimension(L*W*H)	480*420*250mm	480*420*250mm	480*420*250mm	500*420*250mm

Optional Blocks:

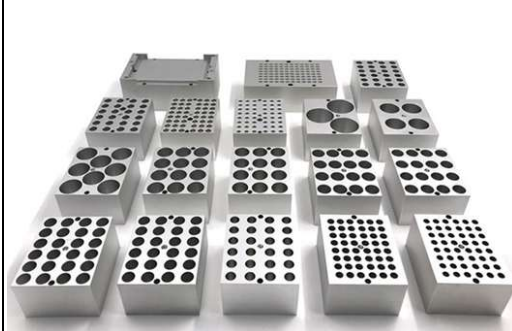
Type	Diameter of test tube	Number of test tube	Hole size
MD01	6mm	48	Hole depth 47mm
MD02	7mm	48	Hole depth 47mm
MD03	10mm	24	Hole depth 47mm
MD04	12mm	24	Hole depth 47mm
MD05	13mm	24	Hole depth 47mm
MD06	15mm	16	Hole depth 47mm
MD07	16mm	16	Hole depth 47mm
MD08	19mm	12	Hole depth 47mm
MD09	20mm	12	Hole depth 47mm
MD10	26mm	8	Hole depth 47mm
MD11	28mm	4	Hole depth 47mm
MD12	40mm	3	Hole depth 47mm
MD13	0.2ml centrifuge tube	48	Standard centrifuge tube
MD14	0.5ml centrifuge tube	48	Standard centrifuge tube
MD15	1.5ml centrifuge tube	24	Standard centrifuge tube
MD16	2.0ml centrifuge tube	24	Standard centrifuge tube
MD17	0.2ml PCR plate	96	Not applicable to DBH Series
MD18	0.2ml Elisa plate	96	Not applicable to DBH Series
MD19	mixed sizes 1	6*Ø13mm+8*10mm; 10*Ø6mm+1*Ø25mm	
MD20	mixed sizes 2	14*Ø11mm; 14*Ø12mm	
MD21	mixed sizes 3	Customized	



Dry Block Thermoshaker

It is controlled by microcomputer, widely used in preservation and reaction of the samples, DNA amplification and pre-denaturation of electrophoresis, serum coagulation, etc.

- ❖ LCD display with timer.
- ❖ Automatic fault detection with buzzer alarm.
- ❖ Temperature calibration function.
- ❖ Various blocks for optional choice, easy cleaning and disinfection
- ❖ Built-in over high temperature protection



Model	DBTS-150	DBTS-200	DBTS-300	DBTS-400	DBTS-500
Platform size (Heating plate)	150 x 150 mm	200 x 200 mm	300 x 300 mm	400 x 400 mm	500 x 500 mm
Temperature Control Range	RT+5°C~160°C				
Heating Up Rate	≤ 15min (20°C ~100°C)				
	≤ 25min (20°C~150°C)				
Temperature Stability @40°C	±0.3°C				
Temperature Stability @100°C	±0.5°C				
Temperature Stability @120°C	±1°C				
Display Accuracy	0.1°C				
RPM	10-200 RPM/MIN				
Timer	1~9999 M/H				
Max. Temperature	160°C				
Power	300W	600W	1000W	1200W	1500W
Power Supply voltage	220V/50Hz				
Dimension(W*D*H)	250*250*250mm	300x300x250mm	450x450x250mm	550x550x250mm	650x650x250mm
N.W./G.W.	4kg/6kg	5kg/7kg	7kg/10kg	9kg/13kg	12kg/16kg

Optional Block

Block No	Tube Diameter	Max Number of Tubes
DB001	0.2ml centrifugal tube	96
DB002	6mm	50
DB003	0.5ml centrifugal tube	40
DB004	10mm	28
DB005	1.5ml centrifugal tube	28
DB006	2.0ml centrifugal tube	28
DB008	16mm	15
DB009	18mm	12
DB010	20mm	8
DB011	26mm	6
DB-12	250 ml Volumetric Flask	16
DB-13	250 ml Conical Flask	16
DB-14	500 ml Volumetric Flask	6
DB-15	500 ml Conical Flask	6



Chiller



Model WRC-10 with pump pressure digital display



Model WRC-10 with Pump pressure Gauge Display



WRC-70 for (For Linear Accelerator)
Call for Specifications

Cooling recirculating chiller Specifications

Model	BR-05	BR-08	BR-15	BR-30	BR-60
Storage tank capacity (L)	5	8	15	30	60
Temperature range	-20- 20℃				
Temperature accuracy	±1 ℃				
Cooling capacity at 10 ℃ (W)	530	600	1500	2500	4000
Refrigerant	R404A		R410A		
Security features	Delay, leakage, overcurrent, overvoltage				
Total power(Watt)	550	600	1300	1600	2400
Power requirements	AC220V/ 50HZ				
Pump power	30		60		550
Pump flow max. (L/ min)	6		17		30
Maximum head (m)	9		15		25
In/Out flow line (mm)	φ10		φ12		
Weight	32	41	60	76	126
Liquid storage	3.5	5.2	13	25	52
Noise level	≤45		≤55	≤65	≤75
Dimensions W×D×H(mm) (include caster)	210×410×511	310×445×570	400×500×739	450×600×821	560×845×850

Cooling / Heating recirculating chiller

Model	BR-03H	BR-05H	BR-10H	BR-20H	BR-50H
Storage tank capacity (L)	5	8	15.5	30	62
Temperature range	-20-80℃				
Temperature accuracy	±0.5℃				
Cooling capacity at 10℃ (W)	530	800	1500	2500	4000
Refrigerant	R404A		R410A		
Security features	Delay, leakage, overcurrent, overvoltage				
Total power (Watt)	1100	1350	2500	3000	4300
Power requirements	AC220V/ 50HZ				
Pump power	30		60		550
Pump flow max. (L/ min)	6		17		30
Maximum head (m)	9		15		25
In/out line (mm)	φ10		φ12		
Weight	32	41	60	76	126
Liquid storage	3.5	5.2	13	25	52
Noise level	≤45		≤55	≤65	≤75
Dimensions W×D×H(mm) (include caster)	210×410×511	310×445×570	400×500×739	450×600×821	560×845×850

Histology Slide Warmer / Tissue Slide Dryer / Microscope Slide Oven with Heating

Feature

- ❖ This instrument having easy control panel and big surface capacity that has improved its reliability and precision, and it will be reliable for your lab.
- ❖ New design, heated evenly, Price is cheap and Quality is reliable.
- ❖ 4 layers and QTY for slide: 40pcs.
- ❖ Control panel is easy operation.

Specification

- ❖ Temperature range: Ambient - 100°C
- ❖ Temperature tolerance: + 1°C
- ❖ QTY for slide: 40pcs
- ❖ QTY for layers: 4 layers
- ❖ Working voltage: AC220V 50HZ and power 800Watt
- ❖ Overall dimension: W34 x L34 x H14 CM
- ❖ Weight: 10 Kg



Model: SD-40

Dehumidifier



Technical Specifications

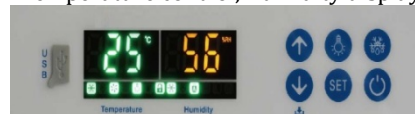
Model	DA-120L	DA-150L
Dehumidify capacity	120L/Day	150L/Day
Voltage	220V/50HZ	220V /50HZ
Input current	7.8A	8.1A
Power supply	1.45KW	1.7KW
Circulating air	1000m ³ /h	1200m ³ /h
Applied area	120-130 m2 (Height 2.6m)	150-180m2 (Height 2.6m)
Control way	Auto, Digital	
Drainage	Drain directly with hose	
Noise	≤ 60dB(A)	
Net weight	60 KG	720KG
Machine size	500x450x960mm	640x550x1100mm
Material (Body and Tank)	High quality Stainless Steel	
Compressor Origin	Thailand	
Fan Origin	China	
Copper origin	South Korea	

Advanced Medical Pharmacy Refrigerator (+1°C to +15°C) with USB or HMI for Data Transfer to PC

The laboratory refrigerator by AST is an innovation that is able to store your sensitive goods safely. It is characterized by its high-quality processing and constant temperature distribution.



Optional: Temperature control, Humidity display with USB



Optional: Dual Compressor System with auto switching



Multi channel GPS Data Logger (Optional)



Standard display



Touch Screen HMI Display Optional

3 Level Password protected user management,
Data log functions (Audit trail),
RS485 for LIMS connectivity, PC port Printer port, USB
port, Graphical data representation



Technical Specifications

Technical Specifications							
Model	LR-300	LR-360	LR-400	LR-500	LR-600	LR-700	LR-900
	LR-300USB	LR-360USB	LR-400USB	LR-500USB	LR-600USB	LR-700USB	LR-900USB
	LR-300HMI	LR-360HMI	LR-400HMI	LR-500HMI	LR-600HMI	LR-700HMI	LR-900HMI
Volume Liter	300	360	400	500	600	700	900
Chamber size mm	550x650x840	550x560x1165	550x600x1200	600x700x1200	650x750x1240	700x800x1250	1050x600x1400
Outer size mm	700x730x1540	675x675x1900	700x800x1800	750x850x1900	800x900x1940	850x950x1900	1200x900x1900
Temp. Range	+1°C to 15°C (+2°C to 8°C Control, selectable)						
Temp. Accuracy	0.1°C						
Temp. uniformity	2.0°C						
Controller	Microprocessor ON/OFF Temperature controller (Fuzzy PID Controller Optional)						
Display	LED with soft touch button key standard supply Optional 1: LED with soft touch button and USB for Data storage and Export Optional 2: Touch Screen HMI with USB, Ethernet, RS485, Wifi, Real Time Data Storage Memory, 3 Level Password Protected User Management, Log Functions (Audit Trail, Alarms), Graph View, PC Connection, RS485 Protocol, Fixed point or Programmable multipoint calibration facility, Offset correction, Non editable PDF or csv data export, Dual compressor control etc.						
Temp. Sensor	NTC (Pt100 optional for touch Screen Only)						
Defrost	Automatic						
Alarm	High and low temperature alarm system						
Delay timer	Delay ON/OFF timer for compressor safety						
Refrigerant	R600a						
Cooling System	Compressor and Ventilation (Dual Compressor with auto switching Optional)						
Door	Single					Double	
Door type	Two-layer glass door with inner side temperature control						
Interior lighting	LED lamp						
Interior Material	Stainless Steel						
Wheel castor	Available with front locking						
Exterior Material	Powder Coated Steel						
Power	300W	350W	400W	400W	450W	600W	900W
Power Supply	220V AC, 50 Hz						

Customized size available on request

Advanced Lab. / Medical Freezer (-15°C to -25°C) with LCD / USB / HMI for Data Transfer to PC



Standard display

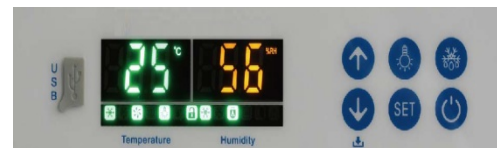


Touch Screen HMI Display Optional

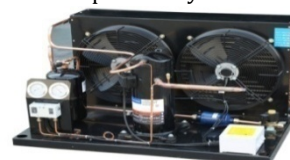
3 Level Password protected user management,
Data log functions (Audit trail),
RS485 for LIMS connectivity, PC port
Printer port, USB port, Graphical data representation



Optional display: Temperature control, Humidity display



Optional: Dual Compressor System with auto switching



Multi channel GPS Data Logger (Optional)



Technical Specifications

Model	LF-100	LF-150	LF-200	LF-252	LF-300	LF-400	LF-500
	LF-100 USB	LF-150USB	LF-200 USB	LF-252 USB	LF-300 USB	LF-400 USB	LF-500 USB
	LF-100HMI	LF-150 HMI	LF-200 HMI	LF-252 HMI	LF-300 HMI	LF-400 HMI	LF-500 HMI
Volume Liter	100	150	200	252	300	400	500
Chamber size cm	40x46x55	50x55x55	50x60x67	50x60x84	50x60x100	55x63x116	
Type	Non frost Forced air circulation						
Temperature Range	-15 to -25°C						
Temperature Accuracy	0.1°C						
Temperature uniformity	2.0°C						
Controller	Microprocessor Temperature Controller						
Temperature Sensor	NTC/Pt100/Pt1000						
Display	LED/LCD/Touch Screen HMI						
Calibration	User performable calibration facility inbuilt in display board						
IQOQ Documents	IQOQ documents						
Alarm	High and low temperature alarm system						
Refrigerant	R134a/R404a						
Cooling System	Ventilated						
Door Frame	Powder Coated Steel						
Handle	Recessed / Grip						
Lock Key	Yes						
Light box	Yes						
Interior Material	SS304						
Exterior Material	Powder Coated Steel / SS304						
Foaming Agent	PUF 100mm						
Tray	3	3	3	4	4	4	5
Cooling Power Watt	180	180	220	220	220	250	300
Power Supply	220V AC, 50 Hz						

Customized size and design available

Combined Freezer and Refrigerator (Vertical Type Pharma and Medical Grade)

The multi chamber freezer and refrigerator can control the temperature inside from +15 °C to -25°C independently. It has USP port for data transfer to PC as standard.



Model CFR-500



Model CFR-500W

Model	CFR-400	CFR-500
Capacity	Freezer 200 Liter Refrigerator 200 Liter	Freezer 250 Liter Refrigerator 250 Liter
Dimension (W*D*H) Internal	F: W550xD700xH650 mm R: W550xD700xH650 mm	F: W550xD700xH650 mm R: W550xD700xH650 mm
Dimension (W*D*H) External	600*600*1500 mm	600*600*1750 mm
Temperature Range (°C)	Freezer -10 to -25°C Refrigerator 2 to 8 °C	Freezer -10 to -25°C Refrigerator 2 to 8 °C
Sensor	NTC	
Controller	Microprocessor controller (Temperature control and Humidity Display)	
Refrigerant(CFC Free)	R404a	
Defrost	Auto	
Compressor (Qty)	2	
Display	Dual Independent Digital Display	
Alarm	High/Low temperature	
High ambient temperature	Standard	
Sensor error	Standard	
Door	Two solid door with window for refrigerator	Two solid door with no window for refrigerator
Power failure backup system	Optional	
Material Internal	SS 304	
Material External	Powder coated MS	
USB port	Standard for data export to PC	
Castors	Standard	
Test hole (Qty) / Diameter	2/25 mm (Optional)	
Shelves (Qty)	2 for each chamber	
Voltage/Frequency	AC 220V ± 10% , 50Hz	
Consumption (W)	600	
N.W./G.W. (kg)	130/160	130/160

Customized size available on request

(Picture of the machine reference only, Manufacturer can modify the machine with color any time for up gradation)

Advanced Blood Bank Refrigerator

AST is a pioneer Bangladeshi manufacturer of blood bank refrigerator. 4°C Blood Bank Refrigerators are reliable blood storage refrigerator for safeguarding security of whole blood, blood plasmas, blood compartments and blood samples. The intelligent constant temperature control ensures the temperature uniformity. The blood refrigerator is equipped with auto defrosting glass-door ensures safe medical or material storage. What makes the blood refrigerator outstanding is that it meets or exceeds the AABB and CDC regulations for blood storage. The typical set point for Blood Bank Refrigerators is 4°C. Per AABB Standards, the acceptable temperature for storage of whole blood and most red cell components is 1°C to 6°C. Setting the temperature to 4°C, close to the middle of the range, is standard practice for blood bank refrigeration.



Standard supply Digital display with USB Data storage



Multi 8 Channel GPS Data Logger (Optional)



Touch Screen Display (Optional)

3 Level Password protection, 2 channel data recorder, USB, Ethernet, Wifi and PC connection



Dual Compressor System with auto switching (Optional)



Specification

Model	BBR-100	BBR-150	BBR-200	BBR-250	BBR-300	BBR-400	BBR-500	BBR-650	BBR-1000
Capacity in Liters	100	150	200	250	300	400	500	650	1000
Blood Bag Capacity	50	70	120	150	180	220	280	360	520
Chamber Size cm	45x45x50	45x50x67	45x50x90	50x60x84	50x60x100	60x60x112	80x60x105	65x68x145	110x69x132
Outer size cm	65x65x75	65x70x97	65x70x125	70x80x105	70x80x120	80x80x130	100x80x125	76x94x198	130x99x162
Temp. Range	4°C (Setting 2°C to 6°C)								
Temp. Accuracy	±0.1°C								
Temp. Uniformity	±2.0°C								
Controller	Microprocessor PID Temperature Controller								
Display	LED								
Alarm	High and low temperature alarm system								
Cooling System	Forced air, Compressor and Ventilated								
Door type	Glass Door								
Door Frame	Powder Coated Steel with Glass / Stainless Steel with Glass								
Handle	Recessed / Grip								
Interior Material	Stainless Steel 304								
Exterior Material	Powder Coated Mild Steel								
Power Watt	150	200	200	275	275	300	440	550	650
Power Supply	220V AC, 50 Hz								
Customize size available									

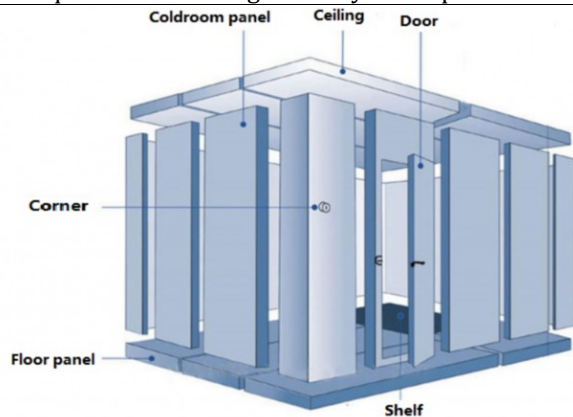
Walk in Medicine Cold Room (+2°C to +8°C) (3000 to 40000 Liter Capacity)

Features:

1. Combined panels with camlocks and double yin-yan mounted for the best airtightness
2. High quality panels with density reach up at 40KG.
3. We can do hidden floor and ceiling if needed
4. Floor with rounded corner radius 10mm in accordance with hygienic-sanitary regulations.
5. All doors fabricated heaters inside to avoid door frozen and can't open it.
6. All doors around with rubbles to ensure sealing property.

Cold Room Structure - Cold rooms are combined piece by piece according to installation drawing. All panels fabricated camlocks, with tongue-and-groove joint, it's very easy to install according to drawing supplied.

Standard width is 1160mm, height can be from 2000mm to 8000mm, moreover, all sizes panels can be customized as your special request. With the high density metal panel and camlock, can use under 150 kg tension.



Panel thickness - Panel thickness and working temperature, based on ambient temperature 35°C. Different thickness panel, the temperature using range is different.

Panel Thickness	MM	50	75	100	125	150	200
Heat Conductivity	W(M.K)	0.27	0.24	0.18	0.17	0.16	0.14
Working Temperature	°C	≥5°C	≥-5°C	≥-25°C	≥-30°C	≥-35°C	≥-45°C
Limiting Temperature	°C	≥-5°C	≥-10°C	≥-30°C	≥-35°C	≥-40°C	≥-50°C

- ❖ **Corner type** - Right angle corner is common and widely used. If needed, we have curved corner design. This type is environmental protection, beautiful and easy to clean, especially for 5-star hotel like Marriott, Hyatt, Hilton etc.
- ❖ **Floor type** - Coldroom floor have two types according to site request. The Walk-in type floor is installed on the ground directly, the panel interior steel request thicker than wall and ceiling, like 1.2mm thickness stainless steel checker. The recessed type, generally will recess 200mm (or 150mm...) under the ground, then backfill concrete and tile on the bare PU panels, to enhance the hardness of the floor and allow forklift drive inside.
- ❖ **Doors** - Gennerally, we will offer swing (hinged) or sliding door for each cold room. Our standard size are 860x1900mm of swing door and 1000x1900mm of sliding door. If you have special request, we can customize accordingly.
- ❖ **Application** - We can supply high temperature (chiller) coldroom, low temperature (Freezer) coldroom and blast freezer as your request. Such as Beverage Chiller, Meat Chiller, Seafood Chiller, Vegetable Chiller, Fruit Chiller, Wast Chiller, Meat Freezer, Seafood Freezer, General Freezer, Kitchen Freezer, Kit Freezer.

Storage product	Temperature range
Processing room	10°C
Fruit, vegetable, dry food, beverage	2~-8°C
Medicine, pastry, chemical material	2~-8°C
Ice storage	-5~-10°C
Meat, seafood frozen,	-18~-25°C
Deep freezer.	-25~-35°C

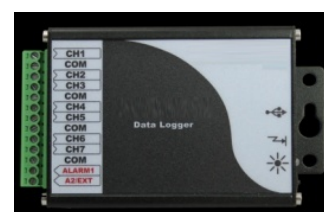
Refrigeration system - We can also supply refrigeration system to match different temperature cold room. We have Tecumseh, Copeland, Highly brand air-cooled / water-cooled system for your reference. Also, have our own brand Coldmach full set intelligent condensing unit, Monoblock unit etc.



Standard supply
(Digital display with USB Data export and Humidity display)



Multi 8 Channel GPS Data Logger (Optional)



Touch Screen Display (Optional)

3 Level Password protection, 2 channel data recorder, USB, Ethernet, Wifi and PC connection



Dual Compressor System with auto switching (Optional)



Technical Specifications

Model capacity	5000 -40000 Liter							
Temperature Range	+2°C to 8°C							
Temperature Accuracy	0.5°C							
Temperature uniformity	2.0°C							
Controller	Microprocessor PID Temperature Controller							
Temperature Sensor	NTC							
Calibration	User performable calibration facility inbuilt in display board							
Alarm	High and low temperature alarm system							
Delay timer	Delay ON/OFF timer for compressor safety							
Refrigerant	R600a							
Cooling System	Ventilated							
Door	Single							
Interior Material	Stainless Steel							
Exterior Material	Powder Coated Steel							
Power	300W	300W	350W	400W	450W	500W	600W	650W
Power Supply	220V AC, 50 Hz							

Customized size available on request

Medicine Stability Chamber

A Stability Testing Chamber allows for the conduct and monitoring of chemical, biological, and microbiological tests. Within the chamber, products can be tested to see if factors such as humidity, light and temperature influence products whilst they are being stored. Our pharmaceutical stability chambers can control ICH conditions such as **25°C/60%RH; 30°C/65%RH; 40°C/75%RH;** and custom control



LCD Display (Standard supply)



Optional: Touch Screen HMI Display
3 Level Password protection,
2 channel data recorder,
USB, Ethernet, Wifi and PC connection



Multi channel GPS Data
Logger (Optional)



GPRS
SMS
Ethernet
Wi-fi
Mobile
Network
Lan / Server

Dual compressor System with auto switching
(Optional)



Mini Printer (Optional)



Model	SC-150	SC-200	SC-250	SC-300	SC-360	SC-500	SC-800	SC-1000
Volume Liter	150	200	250	300	360	500	800	1000
Chamber size (WDH) cm	50x50x60	40x50x100	50x50x100	50x50x120	50x60x120	60x70x120	80x80x120	80x80x157
Outer size WDH cm	70x70x110	60x60x150	70x70x150	70x70x170	70x80x170	80x90x170	100x100x170	100x100x200
Temperature Range	20°C to 60°C							
Temperature accuracy	± 0.1°C							
Temperature Resolution	± 0.1°C							
Temperature Uniformity	± 2.0°C							
Temperature Stability	±1.0°C (Acceptable range as ICH Guidelines)							
Humidity Range	40%-90% RH							
Humidity Resolution	± 1.0°C							
Humidity Stability	±3% RH (Acceptable range as ICH Guidelines)							
Controller	PID Microcontroller							
Temperature Sensor	Pt 100							
Display	LCD							
Heater	SS Finned Heater							
Compressor	Imported Good Quality Secop compressor							
Safety	Over Voltage-Under Voltage protection, Over heat Protection, Sensor break Signaling, Short Circuit Protection							
Tray Pcs.	3	3	3	4	4	5	6	6
Door	Single							
Material	Chamber and Tray: SS304 and Outside: Powder Coated Mild Steel/Stainless Steel 202							
Power Supply	220V AC, 50 Hz							

Customized size available

Stability Chamber (Multi Working Chamber)

A Stability Testing Chamber allows for the conduct and monitoring of chemical, biological, and microbiological tests. Within the chamber, products can be tested to see if factors such as humidity, light and temperature influence products whilst they are being stored. Our pharmaceutical stability chambers can control ICH conditions such as 25°C/60%RH; 30°C/65%RH; 40°C/75%RH; and custom control



LCD Display (Standard supply)

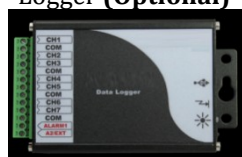


Touch Screen Display (Optional)

3 Level Password protection, 2 channel data recorder, USB, Ethernet, Wifi and PC connection



Multi channel GPS Data Logger (Optional)



GPRS
SMS
Ethernet
Wi-fi
Mobile Network
Lan / Server

Dual compressor System with auto switching (Optional)



Mini Printer (Optional)



Model	SC -300	SC -400	SC -600	SC-800	SC -1000B	SC -1000C
Type	Dual Working Chamber					Triple Working Chamber
Volume Liter	150+150	200+200	300+300	400+400	600+400	400+300+300
Chamber size (WDH) cm	50x60x50 (x 2)	50x60x67 (x 2)	60x70x72 (x 2)	70x80x72 (x 2)	70x80x108 & 70x80x72	70x80x72, 70x80x54 & 70x80x54
Outer size WDH cm	70x80x100	70x80x117	70x70x170	70x80x170	80x90x170	100x100x170
Temperature Range	20°C to 60°C					
Temperature accuracy	± 0.1°C					
Temperature Resolution	± 0.1°C					
Temperature Uniformity	± 2.0°C					
Temperature Stability	±1.0°C (Acceptable range as ICH Guidelines)					
Humidity Range	40%-90% RH					
Humidity Resolution	± 1.0°C					
Humidity Stability	±3% RH (Acceptable range as ICH Guidelines)					
Controller	PID Microcontroller					
Temperature Sensor	Pt 100					
Display	LCD					
Heater	SS Finned Heater					
Compressor	Imported Good Quality Secop compressor					
Safety	Over Voltage-Under Voltage protection, Over heat Protection, Sensor break Signaling, Short Circuit Protection					
Tray Pcs.	3+3	3+3	3+3	4+4	4+4	4+3+3
Door	Single					
Material	Chamber and Tray: SS304 and Outside: Powder Coated Mild Steel/Stainless Steel 202					
Power Supply	220V AC, 50 Hz					

Customized size available

Walk-in Stability Chamber

A Stability Chamber allows for the conduct and monitoring of chemical, biological, and microbiological tests. Within the chamber, products can be tested to see if factors such as humidity, light and temperature influence products whilst they are being stored.

Designed as per **ICH** guidelines to meet **WHO** and **USFDA** requirement and **fulfills storage conditions of**
 25° C - 60% RH 40° C - 75% RH 30° C - 65% RH 30° C - 75% RH



LCD Display

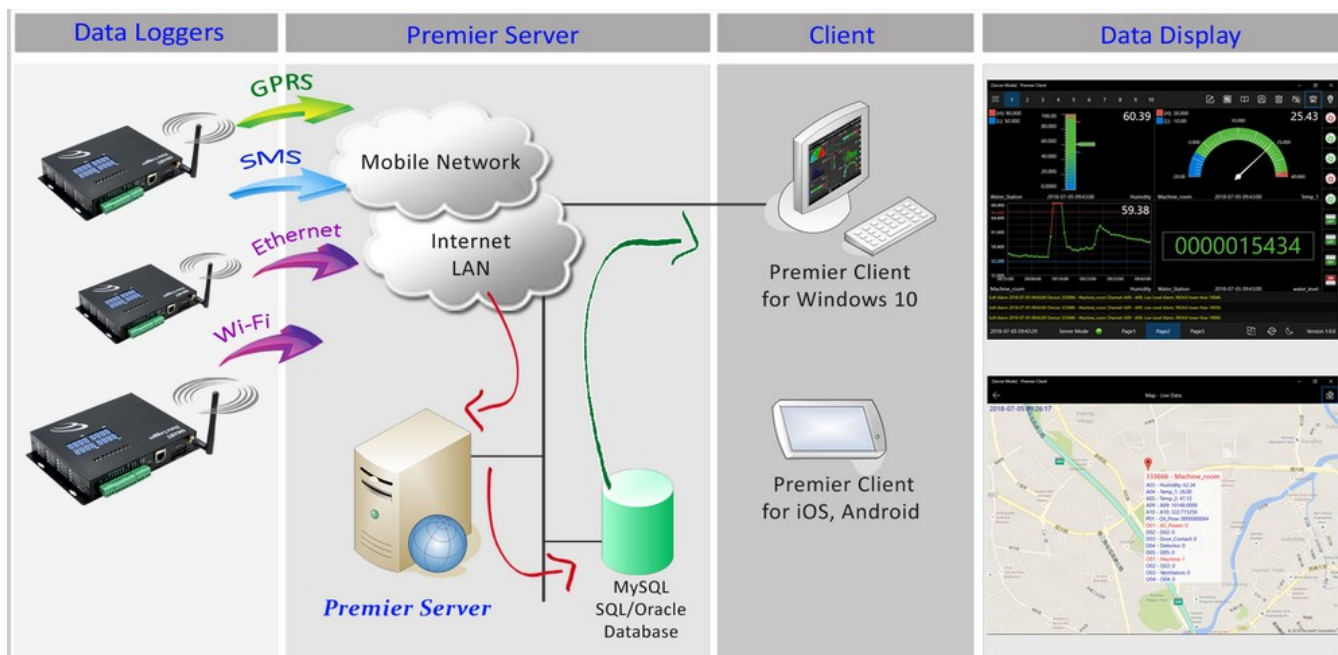
Dual compressor System with auto switching



4.3/5/7 inch Touch screen



- Three-level password protected user management and operation log function (For FDA)
- It has the function of appointment running, timing and power-off memory;
- The controller has screen locking function to avoid migration;
- It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk, printer and other functions.



Specifications

Volume in Liters	5000- 40000/customized		
Temperature Range	+20°C to 60°C	Temperature Sensor	Pt 100
Temperature accuracy	±0.1°C	Heater	SS Finned Heater
Temperature Resolution	±0.1°C	Cooling System	Dual Compressor Cooling System with auto switching
Temperature Uniformity	±2.0°C	Safety	Over Voltage-Under Voltage, Over heat Protection, Sensor break Signaling, Short Circuit Protection
Humidity Range	50%-90%	Door	Single
Humidity Resolution	+/- 1.0°C	Material	Chamber and Outside: Stainless Steel
Humidity Stability	+/- 5% RH	Power Supply	1Ph, 220V AC, 50 Hz / 3Ph, 220V AC, 50 Hz
Display	Touch screen HMI/LCD		
Controller	Fuggy PID Microprocessor		

Environmental Chamber (Humidity Chamber)

AST Environmental chambers testing standards for new design products, small batch production, mass production sampling inspection is very important reference value. Using environmental chambers testing standards and verifying the reliability of products in the stage of trial production and random inspection in mass production will help enterprises to save research and development costs and improves the product's quality.



Touch Screen HMI display
(Optional)



Standard display

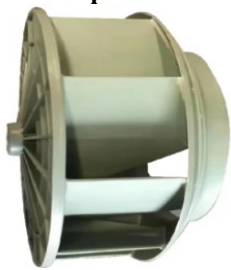
Touch Screen HMI Display and Recorder

- ❖ Multiple modes of defrosting and illumination control
- ❖ Three-level permission management and operation log function to improve the safety and traceability of the experiment
- ❖ It has the function of appointment running, timing and power-off memory
- ❖ The controller has screen locking function to avoid migration
- ❖ It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk, printer and other functions.

Model	HC-200	HC-250	HC-300	HC-350	HC-500	HC-700	HC-800	HC-1000
Volume Liter	200	250	300	360	500	700	800	1000
Inner Volume (WDH) cm	50x60x67	60x70x60	60x70x72	60x70x84	60x70x120	70x80x125	80x80x125	80x80x157
Outside dimension cm	70x80x117	80x90x110	80x90x122	80x90x134	80x90x130	90x100x175	100x100x175	100x100x207
Temperature Range	+20°C to 80°C							
Temperature accuracy	±0.5°C							
Temperature Resolution	±0.1°C							
Temperature Uniformity	±3.0°C							
Humidity Range	20%-99%							
Humidity Resolution	± 1.0°C							
Humidity Stability	±6% RH							
Controller	PID Microcontroller							
Temperature Sensor	Pt 100							
Display	LCD (Touch Screen optional)							
Heater	SS Finned Heater							
Safety	Inbuilt voltage stabilizer protect Over and under Voltage, Over heat protection, Short circuit protection Sensor break Signaling,							
Door	Single							
Material	Inside Chamber SS304 Outside: Powder coated mild steel							
Power Supply	220V AC, 50 Hz							
Compressor	Dual Compressor with auto switching (Optional)							
Customized size available on request								

Fume Hood (Acid resistant)

AST's Fume Hoods are made of high-quality non-corrosive polypropylene and stainless steel. Harmful and unpleasant chemical fumes are removed from the controlled environment to facilitate a safe and pleasant work environment. The fume hood channels chemical vapors out of the building using an external fan installed on the roof or on an external wall.

	Standard LCD Display 	Acid resistant PP Blower 	High capacity Acid resistant PP Blower 
	Water Flow Valve 	220V/13Amp x 2 pcs 	Acid resistant PP Impeller 
	Water Bib cock 	Optional LCD Display with Face Velocity Sensor 	

Fume hood features:

1. LCD display, simple and generous interface, complete functions and convenient operation;
2. One button control of fan, lighting, sterilization and other functions, simplifying operation;
3. Adjustable wind speed control. The gear can be divided into 10 levels at most (the highest level can be set);
4. It has the function of setting the remaining time, sterilizing timing, and cumulative running time of the fan;
5. Display the service life of filter and sterilization lamp synchronously, and prompt for replacement in time

Applications: Suitable for applications where the extraction of corrosive fumes and gases Sulphuric acid, Nitric acid, Nitrous acid, Hydrofluoric acid, Boric acid, Hydrocyanic acid, Hydrochloric acid, Ammonia, Soda, Ethanol, Potassium hydroxide, Methanol, Propane, Formol Benzene, Formaldehyd

Technical Specifications

Model	FH-42	FH-48	FH-54	FH-60	FH-72
Size External Inch (mm)	42x32x94 inches (1066x812x2387)	48x32x94 inches (1219x812x2387)	54x32x94 inches (1372x812x2387)	60x32x94 inches (1524x812x2387)	72x32x94 inches (1828x812x2387)
Size internal Inch (mm)	36x26x36 inches (915x660x915)	42x26x36 inches (1066x660x915)	48x26x36 inches (1219x660x915)	54x26x36 inches (1372x660x915)	66x26x48 inches (1676x660x915)
Max Shah opening	24 inches				
Work Surface Height	32 inches				
Material Interior	Polypropylene, acid resistant				
Material Worktable	Polypropylene, acid resistant				
Material Exterior	Powder coated Mild Steel				
Front window	5 mm Glass				
Exhaust Duct	PVC Length 10 feet max.				
Air velocity	0.3-0.8m/s (adjustable)				
Controller	Microprocessor controller (Control air flow, Monitoring Work time, Filter life, Sterilization time etc.)				
Air flow control	Microprocessor controller				
Blower	Centrifugal, Acid Resistant PP x Qty 01				
Noise	<60 dBA				
Standard Accessories	Power socket: 1500Wx1, basin 1x(5"x10"), Gas inlet, Water inlet valve				
Power Supply	220V AC, 50 Hz				
Power Watt Capacity	500		800		1200

Customized size available on request

Fume Hood (Ductless)

FHDL series fume hood is a kind of negative pressure ventilation system for protecting operator and laboratory, utilizes carbon filtration to protect laboratory personnel from toxic chemical fumes, odors, and particles. Known for its plug-and-play feature and mobility, fume hood guarantees a hassle-free installation and no lab work interruption.

Features:

- ❖ Resistant to weak acid and alkali.
- ❖ Adjustable air speed: 0.4m/s to 0.6m/s.
- ❖ Alarm when filter working time 3000 hours.
- ❖ With memory function in case of power-failure.
- ❖ Back side air compensation, to avoid turbulence in work area.
- ❖ Microprocessor control system, LCD display shows filter and uv lamp working time.
- ❖ Transparent side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment
- ❖ UV lamp for sterilization optional



PP Blower



PP Impeller

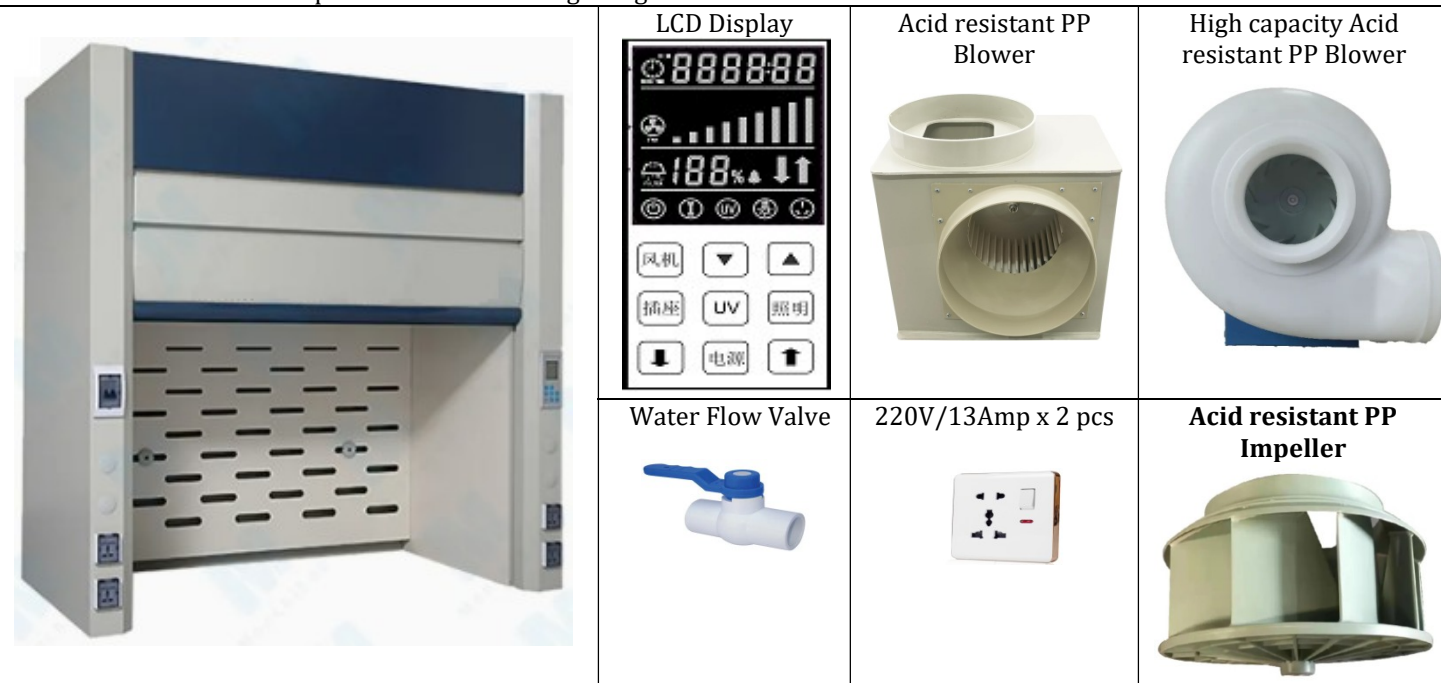


Technical Specifications

Model	FHDL-1000	FHDL-1220	FHDL-1500	FHDL-1830
External Dimensions (W*D*H)(mm)	1000*850*2150	1220*850*2150	1500*885*2377	1830*850*2150
Internal Dimensions (W*D*H)(mm)	880*730*745	1100*730*745	1268*596*765	1710*730*745
Pre-filter	Disposable, non-washable polyester fiber, 85% arrestance, EU3 rated			
Main Filter	Activated Carbon with Granular Media bed (8 different filter types Available (Need confirmation when ordering)			
Back-up Filter:	Activated Carbon with Granular Media bed (8 different filter types available)			
Total Weight of Carbon Filter	2 x 13.9 Kg or equivalent			
Control System	Sentinel Silver Microprocessor Controller with LCD display, graphical and digital display of the operating status of each function.			
Inflow Air Velocity	0.40 to 0.6 m/s			
Sound Emission	Sound Emission: 60 dBA			
Work Top	1.5 mm (0.06''') 16 gauge stainless steel, type 304, with 4B finish			
Power Supply	220 VAC, 50Hz			
Weight Approximately	180Kg	220Kg	260Kg	300Kg
Maximum Opening	24 Inch			
Work Surface Height	30Inch			
Sound Emission	≤64dB(A)			
Fluorescent Lamp	LED type, 20W*1, Intensity ≥800L			
Power Consumption	400W	500W	500W	600W
Cabinet Construction	The power consumption does not include external device connected via power socket			
	Main Body: Electro-galvanized steel with antimicrobial powder coating			
	Work Table and inside chamber: Acid resistant Polypropylene resistant to strong acid and alkali			
	Manual Sliding Sash: 5 mm glass with counter-balance system and ergonomic handle			
Standard Accessories	Side Windows: 5 mm glass			
	Base stand*1; Waterproof socket*1; Water tap*1; Gas tap*1; Water sink(L220*W95*D150mm)*1			

Fume Hood (Acid resistant-Benchtop)

AST's Fume Hoods are made of high-quality non-corrosive polypropylene and stainless steel. Harmful and unpleasant chemical fumes are removed from the controlled environment to facilitate a safe and pleasant work environment. The fume hood channels chemical vapors out of the building using an external fan installed on the roof or on an external wall.



Fume hood features:

- ❖ LCD display, simple and generous interface, complete functions and convenient operation;
- ❖ One button control of fan, lighting, sterilization and other functions, simplifying operation;
- ❖ Temperature measurement values, signals, etc;
- ❖ Adjustable wind speed control. The gear can be divided into 10 levels at most (the highest level can be set);
- ❖ It has the function of setting the remaining time, sterilizing timing, and cumulative running time of the fan;
- ❖ Display the service life of filter and sterilization lamp synchronously, and prompt for replacement in time

Applications: Suitable for applications where the extraction of corrosive fumes and gases Sulphuric acid, Nitric acid, Nitrous acid, Hydrofluoric acid, Boric acid, Hydrocyanic acid, Hydrochloric acid, Ammonia, Soda, Ethanol, Potassium hydroxide, Methanol, Propane, Formol Benzene, Formaldehyd

Technical Specifications

Model	FH-36B	FH-42B	FH-48B	FH-60B	FH-72B
Size External	36x31x40 inches	42x31x40 inches	48x31x40 inches	60x31x40 inches	72x31x40 inches
Size internal	30x26x40 inches	36x26x40 inches	42x26x40 inches	54x26x40 inches	64x26x40 inches
Max Shah opening	24 inches				
Material Interior	Polypropylene				
Material Worktable	Polypropylene				
Material Exterior	Powder coated MS				
Front window	5 mm Glass				
Exhaust Duct	PVC Length 10 feet max.				
Air velocity	0.3-0.8m/s (adjustable)				
Controller	Microprocessor controller (Control air flow, Monitoring Work time, Filter life, Sterilization time etc.)				
Air flow control	Microprocessor controller				
Blower	Centrifugal, Acid Resistant PP				
Noise	<68 dBA				
Standard Accessories	Power socket: 1500Wx1, basin 1x(5"x10"), Gas inlet, Water inlet valve				
Power Supply	220V AC, 50 Hz				
Power Watt Capacity	500				800

Customized size available on request

Anti-corrosive / Acid Resistant Polypropylene Centrifugal Blower

General Description

- ❖ Plastic polypropylene Anticorrosive radial fan is particularly designed for conveying corrosive vapours and smokes, also with high humidity level and with maximum temperature of 60°C.
- ❖ Suitable for applications where the extraction of corrosive fumes and gases: Sulphuric acid, Sulphurous acid, Nitric acid, Nitrous acid, Hydrofluoric Acid, Boric Acid, Hydrocyanic Acid.
- ❖ Hydrochloric acid. Ammonia, Soda, Ethanol, Potassium hydroxide, Methanol, Propane, Formal, Benzene, Formaldehyde.



Applications

The ARB series of Plastic polypropylene Anticorrosive radial fan with backward curved impeller provide good characteristics of low noise and high efficiency, which often are applied in laboratory, fume hood, fume cupboard, chemical storehouse, electroplating factory, medicine factory, mould factory, Electronic workshop and metallurgy for exhaust ventilation.

Spiral Cases

The spiral case is made of polyethylene (PE) plastic. Reversible and rotatable to any the 8 standard discharge positions by 45° increments. All fan is with mounting bolts and nuts in 304 stainless steel. Inlet/outlet are round with standard size: 160, 200, 250, 300, which are good for plastic duct connection.

Impellers

The impellers with backward curved blades are high efficiency made of polypropylene (PP) plastic are balanced dynamically on balancing standard G2.5 according to DIN ISO 1940.

Motors

Direct driving, asynchronous, single or three phase, IP55, class F, B5 shape in 2-pole and 4-pole execution.

Single speed: three phase 380 V-50/60Hz, single phase 220V-50/60Hz.

Motor is outside the airstream. All motors speed adjustable by variable frequency inverter drive.

Motor Support: metal stand constructed of epoxy coated in blue.

Model	Power Supply	Speed	Power	Max. Air Flow	Max. Total Pressure	Noise	Net weight	Dia. Inlet	Dia. Outlet
	V/Ph/Hz	RPM	KW	m³/h	Pa	dBA	Kg	mm	mm
ARB-160-B2S	220/1/50	2800	0.18	1100	450	65	10	160	160
ARB-160-B2T	380/3/50	2800	0.18	1100	450	65	10	200	200
ARB-200-B4S	220/1/50	1400	0.12	1080	160	54	11.5	200	200
ARB-200-B4T	380/3/50	1400	0.12	1080	160	54	11.5	200	200
ARB-200-B2S	220/1/50	2800	0.37	2100	750	71	14	200	200
ARB-200-B2T	380/3/50	2800	0.37	2100	750	71	14	200	200
ARB-250-B4S	220/1/50	1400	0.25	2150	290	57	18	250	250
ARB-250-B4T	380/1/50	1400	0.25	2150	290	57	18	250	250
ARB-250--B2S	220/1/50	2800	1.10	4260	1200	75	23.5	250	250
ARB-250--B2T	380/1/50	2800	1.10	4260	1200	75	23.5	250	250
ARB-300-B4S	220/1/50	1400	0.37	2650	390	60	23	300	300
ARB-300-B4T	380/1/50	1400	0.37	2650	390	60	23	300	300
ARB-300--B2S	220/1/50	2800	2.20	5270	1580	79	31	300	300
ARB-300--B2T	380/1/50	2800	2.20	5270	1580	79	31	300	300

Chemical Storage Cabinet (Polypropylene)

PP (Polypropylene) Cabinet, Acid & Corrosive Cabinet is intended to store acid and corrosive substance (for example, sulfuric acid, hydrochloric acid, nitric acid, sodium hydroxide, potassium hydroxide etc.). PP cabinet body adopts high quality anti-shock white PP board, welded as a whole with same property and color welding bar. It will neither rust nor corrode.



Key Specifications/Special Features:

PPSC series strong acid and alkali storage cabinet is designed for storage and anti-leakage of strong corrosive chemical products. It is used to store strong corrosive chemical products (for example: sulfuric acid, muriatic acid KOH and NaOH etc chemical material) PPSC series strong acid and alkali storage cabinet can regularly manage and store chemical products with different property and hazardous level, reduce accidents.

Product feature:

With strong acid and alkali resistance and anti-corrosive characteristics.
The top of cabinet is designed specially which can be used as working table .
Two padlocks design which provides a higher lever security.
Reduce environment pollution and protect safety of operator.

Technical Specifications

Model	CSC-24-48	CSC-36-48	CSC-48-48	CSC-48-60
Volume Liter	432	650	864	1080
Outer Dimensions mm	W600xD600xH1200	W900xD600xH1200	W1200xD600xH1200	W1200xD600xH1500
No. of Doors and style	Single, Manual		Double, Manual	
Adjustable Shelves	3		4	
Vent holes	Single		Double	
Color coding and alert sign	Color: Yellow with alert sign			
Material	Inside Polypropylene , Outside Powder Coated Mild Steel			

Optional: PP Blower for acid fume exhaust

Blood Plasma Thawing Bath

Features

- ❖ Fully guarantee the safety of plasma thawing
- ❖ Multiple thawing modes
- ❖ Thick film hydroelectric separation heating system
- ❖ Adjustable thawing compartment
- ❖ UV-C disinfection and sterilization system
- ❖ Automatic cleaning function
- ❖ Complete information record and quality control data traceability
- ❖ Draining water function, special drain contamination
- ❖ Intelligent operation management system



Model	BTB-2P-WS
Plasma thawing quantity	200 ml 30 bags
Thawing way	Water-oscillation type
quality control data traceability	Real-time record water temperature and melting temperature and automatic storage; Export data through USB interface, facilitate quality management and data traceability.
Wifi transmission and cloud system	Support wireless transmission function, transmit data directly to cloud through PC host or mobile app to view relevant data anytime, anywhere. (Optional)
Digital operating system	Microcomputer touch screen operation can display the temperature/time change curve in real time, and the device faults can be directly displayed on the screen for easy repair and maintenance
Data recording and storage	Storage capacity: 4-64GB; Record and store more than 2000-32000 groups data; Cloud can store larger amounts of data.
Water pump capacity	60L/min
Power	4000W
Temperature control range/accuracy	RT-42°C, accuracy: $\leq \pm 1^\circ\text{C}$
Oscillation frequency /amplitude	60r/min, 50mm $\pm$ 5
Thawing time	≤ 30 min complete (under full load conditions)
Voltage/frequency	220V $\pm$ 10%/50Hz

Vertical pressure steam sterilizer (Digital display automatic versions)

Features:

Fully stainless steel structure
 Hand wheel type of quick-open door structure
 Door safety lock system
 Digital display of working status, touch of key
 Auto discharge the cool air, and steam discharging automatically after sterilization
 Over temperature & over pressure auto-protection
 Safe protection of water lacking
 Self-inflating type seal
 Automatically shut off with beep reminding after sterilization
 Used for sterilization of medical instruments, medical cotton products.
 Fully stainless steel SUS304/AISI 304 -3mm



Model	Auto-V35	Auto-V50	Auto-V75	Auto-V100	Auto-V150
Chamber volume	35L	50L	75L	100L	150L
Dimensions	φ318×450 mm	φ340×550 mm	φ400×600 mm	φ440×650 mm	φ440×900 mm
working pressure	0.22MPa				
Working temperature	134°C				
Max working pressure	0.23 Mpa				
Heat average	≤±1°C				
Timer	0 - 99min/hr				
Temperature range	105-134°C				
Power	2.5Kw	3Kw	4.5Kw	4.5Kw	6.0Kw
Supply voltage	3P, AC220V.50Hz				
Overall dimension mm	450×450×1010	510×470×1130	560×560×1120	540×560×125	600×660×125
Transport dimension mm	570×550×1150	590×590×1280	650×630×1280	680×630×1370	720×660×1420
G.W/N.W	72Kg/56Kg	88Kg/ 68Kg	100Kg/ 80Kg	110Kg/ 85Kg	130Kg/ 100Kg

Horizontal Cylindrical Pressure Steam Sterilizer

Digital display automatic versions

Features:

1. Sterilizing course automatic sterilization controlled, easy to operate.
2. With drying function
3. With over-temperature, over-pressure auto-protect device.
4. The door opening mechanism cannot be operated until the pressure in the chamber is reduced to 0.027MPa. It can't be start on if the door doesn't close well.
5. The safety valve will be open automatically when the inner pressure over 0.24MPa and the steam be exhausting to the water tank.
6. The power will be cut-off automatically, cut-off the water and alarm when the machine lacking water.
7. The chamber of the sterilizer is made of stainless steel.



Technical data:

Model	Auto-H100	Auto-H150	Auto-H 200	Auto-H 280	Auto-H 400
Chamber volume	100L	150L	200L	280L	400L
Dimensions	φ440×700 mm	φ440×1000mm	φ515×1000mm	φ600×1000mm	Φ700×1100mm
Working pressure	0.22MPa				
Working temperature	134°C				
Temperature range	105°C - 134°C				
Time of sterilization	0-60 min				
Time of drying	0-60 min				
Heat average	±1°C				
Heating type	Electric				
Power KW	8KW/380V,50Hz	9KW/380V, 50Hz	10KW/380V, 50Hz	12KW/380V, 50Hz	18KW/380V, 50Hz
Dimension (mm)	1100×600×1300	1400×600×1300	1400×670×1650	1400×770×1780	1430×880×1830
Packing (mm)	1250×750×1850	1550×750×1850	1560×820×1850	1680×920×2100	1800×1050×2100
G.W/N.W	270/200 KG	320/240 KG	350/260 KG	465/365 KG	530/520 KG

Autoclave, Class N, Benchtop Type, Auto-N Series



- ❖ Quality stainless steel inner tank, sealed cover
- ❖ The microcomputer controls the automatic cycle, 121°C and 134°C can be set
- ❖ Touch buttons
- ❖ Equipped with standard test interface
- ❖ European CLASS N standard.
- ❖ With automatic protection function: over temperature protection, over pressure protection, low water level protection, anti dry burning
- ❖ The unique three-time temperature rise and fall program achieves higher steam saturation and significantly improves the sterilization effect.
- ❖ Buzzer reminder after sterilization, automatic stop.
- ❖ Automatic discharge of cold air, automatic steam exhaust after sterilization.
- ❖ Built-in steam generator to provide saturated steam quickly

Model	Auto-N18	Auto-N23	Auto-N35
Volume	18L	23L	35L
Power	1.5kW	2.2kW	2.7kW
Voltage	AC220V,500Hz		
Design pressure	0.25MPa		
Design temperature	139°C		
Rated working pressure	0.22MPa		
Rated working temperature	134°C		
Chamber volume(mm)	Ø250*370	Ø250*452	φ300*500mm
Outer dimension(mm)	500*400*350	600*400*350	550*850*500mm
Package Dimension(W*D*H) (mm)	590*480*420	710*480*450	690*860*700mm
N.W. / G.W. (kg)	About 24/28	About 27/32	97kg/103kg

Horizontal Large Autoclave

Characteristics:

1. Sterilizing course automatic sterilization controlled by computer, easy to operate.
2. With drying function, suitable dressing drying.
3. With over-temperature, over-pressure auto-protect device.
4. The door opening mechanism cannot be operated until the pressure in the chamber is reduced to 0.027MPa. It can't be start on if the doesn't closed well.
5. The safety valve will be open automatically when the inner pressure over 0.24 Mpa, and the steam be exhausting to the water tank.
6. The power will be cut-off automatically, cut-off the water and alarm when the machine lacking water.
7. The chamber of the sterilizer is made of stainless steel.
8. With printer.



Technical data

Technical data	AUTO-H150B	AUTO-H200B	AUTO-H280B
Volume	150L	200L	280L
Sterilizing chamber size	φ440×1000mm	φ515×1000mm	φ600×1000mm
working pressure	0.22Mpa		
working temperature	134°C		
Adjustment of temperature	40°C - 134°C		
Time of sterilization	0-99 min		
Time of drying	0-99 min		
Heat average	≤± 2°C		
Power	9KW/380V 50Hz	9KW/380V 50Hz	12KW/380V 50Hz
Dimension	1400×650×1600	1400×750×1700	1520×910×1900
Transport dimension	1560×820×1820	1560×910×1880	1680×1080×2100
G.W/N.W	430/340 KG	436/350 KG	570/462 KG

Reactor / Bioreactor / Fermentor / Chemical Synthesizer

A stainless steel jacketed reactor is a type of vessel used in the chemical, and food processing industries for carrying out various chemical reactions, mixing, and blending processes. The reactor is made of high-grade stainless steel and features a jacketed design, which means it has an outer shell surrounding the inner vessel that is used to control the temperature of the contents inside. Stainless steel jacketed reactors are ideal for processes that require precise temperature control, as the jacket can be filled with a heating or cooling medium, such as water or oil, to maintain the desired temperature. This makes them useful in a wide range of applications, including chemical synthesis, fermentation, polymerization, and crystallization.



Standard display



7" Touch Screen Controller with traceability
Optional display

Heating Cooling Circulator

Jacketed Stainless Steel Reactor

Technical Specifications

Product model	Reactor-5	Reactor-10	Reactor-15	Reactor-20	Reactor-30	Reactor-50	Reactor-100	Reactor-200
internal volume	5L	10L	15L	20L	30L	50L	100L	200L
Interlayer volume	1.6L	3L	5L	6L	10L	16L	30L	65L
Discharge valve	304 stainless steel discharge valve, 60cm off the ground							
Stirring power	Servo motor, 250W							
Stirring speed	1~1000rpm							
Sealing device	Mechanical seal							
Maximum vacuum	Not available							
Temperature range	The measured temperature ranges from Ambient +5 to 126°C							
Sterilization pressure	0.165Mpa (0.22Mpa Optional)							
Sterilization	Sterilize in place(SIP), control by program							
Clean	Clean in place (CIP) by spray ball							
Gas control	Control by air flow gauge with valve							
Feeding	Manually							
Anti-foam control	Manually add antifoam by syringe							
Temperature control	Auto-control, electric heating range: water source add 5°C to 70°C							
PH control	PH 2.00-12.00±0.1, auto-control by adding acid/base by syringe							
DO control	0-150±3% displaying precision 0.1%, DO sensor, DO coupling with agitation, oxygen.							
Sampling	Sampling valve, can sterilization separately, manual							
Harvest	Zero dead zone bottom valve, can sterilization separately, manual/auto							
Lid lift system	manual							
Pressure	Auto control							
Exhaust	Have condenser before exhaust, control by diagram valve / Proportional control valve.							
Kettle body	Two-layer kettle body							
Heating mode	The sandwich circulates medium for heating and cooling							
Supply voltage	220V/50Hz							

Customized Size Available

Optional Items

pH/DO Meter with probe	Vacuum Pump	Heating Cooling Circulator	Cooling Circulator	Media Chiller
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Plant Growth Chamber / Seed Germinator

PGC series Plant Growth Chamber or Seed Germinator is designed with constant temperature and humidity for controlled growth of plants. It can simulate high light intensities which fulfils the light requirements of sample plants. With all these features it enables you to maintain required growth conditions for plant growth.



PGC-300



Walk in Plant Growth Chamber (Customized)



LCD Display with touch button (Standard supply)



Optional Touch Screen LCD



Full Spectrum Growth Lamp



Multi-function Light Control Device



Optional Dual Compressor with auto switching

Technical Specifications

Model	PGC-200	PGC-300	PGC-400	PGC-500	PGC-600	PGC-800	PGC-1200	PGC-1500
Capacity in liters	200	300	400	500	600	800	1200	1500
Inner size WxDxH cm	48x50x76	50x60x100	50x70x115	60x70x120	70x72x120	80x85x120	100x91x120	140x90x120
Temperature range	With Light 10 ~ 65 °C/no light at 0 ~ 60 °C							
Temp. Accuracy	±0.1°C							
Temp. Uniformity	±2.0°C							
Humidity range	With illumination: 50%~90%, without illumination: 50%~90%, Light Off up to 90% RH at ± 5% RH							
Humid. Fluctuation	±5%RH							
Humidity Uniformity	7%RH							
Lighting Illumination	0 ~ 12000 Lux (Single Left or right side lighting is standard, (Two or Three sides lighting and Illumination intensity sensor optional))							
Timer	0 ~ 9999 minutes/Hr/Up/Continuous							
Cooling method	Refrigeration and air cooling by Imported compressor							
Controller	Microprocessor Intelligent Fuzzy PID							
Display	LCD (Standard supply) Optional 1: Touch Screen HMI: 3 Level Password protected user Management, USB, Ethernet, RS485, Wifi, Mini Printer port etc, Data storage memory, Graph view, Log functions (Audit trail), Multipoint temperature correction function, Data storage to memory, Export to PC, USB, Printer etc.							
Material	SS304 inside / Powder coated GI sheet outside or Stainless Steel							
Power supply	1 Phase, 220V, 50 Hz, 3 Phase {depends on size}							
Safety	❖ Equipped with leakage protection device to ensure the safety of operators and other equipment in the laboratory ❖ With limited temperature control sound and light alarm system. ❖ Self-diagnosis function: display fault information, which is convenient for judging the fault point.. ❖ Waterproof stainless steel heating tube, corrosion resistance, long service life. ❖ Over and under Temperature alarm, Over and under Humidity alarm, Short Circuit protection							

Customized size available on request

Insect Growth Chamber / Insect Rearing Chamber

Insect rearing chambers are specialized, controlled-environment units designed to breed, incubate, and study insects (e.g., Drosophila, mosquitoes) for research, education, or mass production. They precisely regulate temperature 10°C to 40°C humidity 30 to 95%, and lighting to simulate natural habitats.



LCD Display with touch button
(Standard supply)



Touch Screen Controller
Optional



Dual Compressor with auto switching
Optional



Mini Printer
Optional

Technical Specifications

Model	IRC-200	IRCC-300	IRC-400	IRC-500	IRC-600	IRC-800	IRC-1200	IRC-1500
Capacity in liters	200	300	400	500	600	800	1200	1500
Inner size WxDxH cm	48x50x76	50x60x100	50x70x115	60x70x120	70x72x120	80x85x120	100x91x120	140x90x120
Controller	30-segment programmable microcomputer PID intelligent automatic control system							
Temperature range	With Light 10 ~ 65 °C/no light at 0 ~ 60 °C							
Temp. Accuracy	±0.1°C							
Temp. Uniformity	±2.0°C							
Humidity range	With illumination: 50%~80%, without illumination: 50%~90%, Light Off up to 90% RH at ± 5% RH							
Humid. Fluctuation	±5%							
Lighting Illumination	0 ~ 12000 Lux (Single Left or right side lighting is standard, (Two or Three sides lighting and Illumination sensor optional))							
Timer	0 ~ 9999 minutes/Hr/Up to stop running							
Cooling method	Refrigeration and air cooling by Imported (Dual Compressor with auto switching optional)							
Controller	Intelligent Fuzzy PID							
Display	LCD (Touch Screen HMI with data recording and PC software optional)							
Material	SS304 inside / Powder c\ated GI sheet outside							
Power supply	220V, 50 Hz							
Optional	USB Flash drive memory for data transfer, RS485 and 232and printer, HMI power back up system							
Safety	❖ Equipped with leakage protection device to ensure the safety of operators and other equipment in the laboratory ❖ With limited temperature control sound and light alarm system. ❖ Self-diagnosis function: display fault information, which is convenient for judging the fault point.. ❖ Waterproof stainless steel heating tube, corrosion resistance, long service life. ❖ Over Voltage-Under Voltage, Over Current, Short Circuit protection							

Customized size available on request

Seed Dryer

- ❖ Drying various seeds, drying medical plants and samples, drying foods and measuring water, constant temperature experiment.
- ❖ Air Exhaust System - It is designed and manufactured for external air to come in and for internal air to go out, and dry time is short.
- ❖ Low humidity control – It maintains best moisture during drying seeds (Humidity can be adjusted below 40%) Designed and manufactured to culture for a long period of time at low temperature, and suitable for plant culture and flower pot storage.
- ❖ Possible to change the temperature gradually from the room temperature(159,842 program), and possible to treat for dormancy by setting up seasonal temperatures

Safety: Short Circuit, Over load, Over voltage-Under voltage Protection, Sensor Error signaling, Compressor protector, Alarm Signaling



Technical Specifications

Technical specifications				
Model	SD-200	SD-300	SD-400	SD-500
Capacity Liters	200	300	400	500
Inner size WxDxH cm	42x40x120	50x50x120	60x56x120	60x70x120
Control	PID temperature-humidity balance control, digital LED display			
Temperature range	0 to 60°C			
Humidity range	<40%RH (±3.0%)			
Temperature Uniformity	±2.0 °C			
Temperature fluctuation	±1.0%			
Humid. Uniformity	±3% R·H			
Cooling Method	Air cooling by compressor			
Compressor	1/2 HP	3/4 HP	1 HP	1.25 HP
Material inside	SS304			
Material outside	Powder coated steel			
Power Supply	220V, 50Hz, 1Ph			
Construction	Inside SS 304, Outer Power Coated Mild Steel			
Customized size available				

Overhead Stirrer (Digital)



Key Features

- ❖ Sparkless, adapting durable and excellent brushless DC motor
- ❖ Feedback control system maintains the accurate speed and uniform torque
- ❖ No speed variation in the rating torque even though changing viscosity
- ❖ Smooth acceleration allows unit to reach set rpm without spillage
- ❖ Narrow width designed for the effective application
- ❖ Speed display(Digital)

Model	OS-250D
Stirring capacity (H ₂ O)	80L
Viscosity (Max.)	100,000mPas (medium)
Motor (output)	Servo motor 250W
Torque (Max.)	160Ncm
Speed range	30~2000rpm
Speed controller	Feedback control
Speed display	Digital
Rotations	❖ Clockwise ❖ Anti-clockwise ❖ Auto reverse (Reverse time setting)
Timer	99 hr 59 min
Chuck range	Ø1~10mm
Dimensions (W×D×H)	100×200×200mm
Weight	4.5Kg
Electrical supply	220V 50/60Hz

Overhead Stirrer

AST High Torque Overhead Stirrers

High Torque Digital Overhead Stirrer offers speed and torque capabilities for wide range of volumes and viscosities.

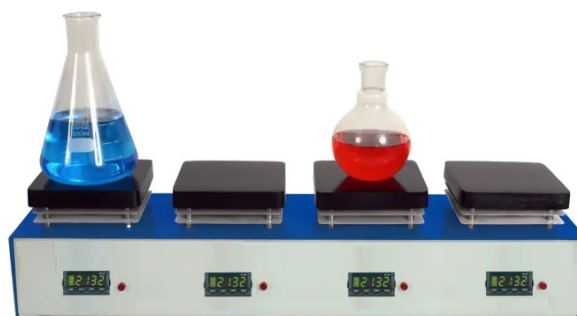
Description

- ❖ Stirrer handles high-volume/high-viscosity stirring as easily as homogenizing and dispersing - especially useful for continuous use
- ❖ User-friendly keypad permits precise speed adjustment and digital LCD indicates rpm or torque to within $\pm 1\%$
- ❖ Electronic controls permit speed adjustment to single-digit increments and maintain set speed within 1% as solution viscosity changes
- ❖ Rugged, sealed metal housing encloses the high-performance brushless DC motor with automatic overload protection; and two-speed transmission that electronically shifts between high-torque and high-speed range - actually transferring motors power to chuck with 95% efficiency
- ❖ Chuck is adjustable up to 3/8 in. (10 mm)
- ❖ Chuck guard protects chuck from splashes and prevents accidental movement of chuck
- ❖ All units feature electronic controls

Type	Ultra Torque Stirrer
Speed	1-1500 RPM
Capacity	100 L
Viscosity	100,000 mPas
Display	LCD
Dimensions (L x W)	33.65 x 10.2 cm (13.25 x 4 in.)
Height	9 in.
Length	13.25 in.
Width	4 in.
Electrical Requirements	220 V, 50Hz
Horsepower	0.2 hp
Includes	Overhead stirrer motor, 1 cm adjustable chuck, chuck guard, chuck key, support rod, power cord, manual
Weight	10Kg
Voltage	220 V
Dimensions (L x W x H)	13.25 x 4 x 9 in. (33.65 x 10.2 x 22.9 cm)
Height	22.9 cm
Length	33.65 cm
Width	10.2 cm
Frequency	50Hz
Motor Type	Brushless DC
Weight (Metric)	5 kg



Multi-position hot plate stirrer



Model	MHS-6	MHS-4	MHS-3
Mixing Capacity	10 liters	10 liters	10 liters
Temperature control	RT + 5°C to 160°C	RT + 5°C to 160°C	RT + 5°C to 160°C
Temperature control accuracy	±1°C	±1°C	±1°C
Heating plate temperature	≤250°C	≤250°C	≤250°C
Stirring points	6	4	3
Noise dB	≤30	≤30	≤30
Display Mode	LCD	LCD	LCD
Display function	Temperature, speed	Temperature, speed	Temperature, speed
Arrangement	Double Row 2×3	Single Row 1×4	Single Row 1×3
Speed Range	50 to 1500 rpm	50 to 1500 rpm	50 to 1500 rpm
Control Mode	Independent operation	Independent operation	Independent operation
Stirring bars	A type 9×25×4 mm	A type 9×25×4 mm	A type 9×25×4 mm
Ambient Temperature	5 to 40°C	5 to 40°C	5 to 40°C
Ambient Humidity	80 %	80 %	80 %
Working plate dimension	140×140 mm	140×140 mm	140×140 mm
Plate to Plate distance	50 mm	50 mm	50 mm
Instrument Dimension(L×B×H)	650×700×150 mm	650×700×150 mm	650×700×150 mm
Single position heating power	800 W	800 W	800 W
Power supply	AC 220V, 50Hz	AC 220V, 50Hz	AC 220V, 50Hz
Net Weight	24 kg	24 kg	24 kg

Customized size available

Remote Controlled Digital Hotplate



Model HP1010

Plate dimension 10x10 inches

Heating Power KW: 1.2

Input Voltage 220VAC/50Hz

Model HP 2012

Plate dimension 20x12 inches

Power KW: 1.5

Input Voltage 220VAC/50Hz

Model HP 2412

Plate dimension 24x12 inches

Power KW: 2.0

Input Voltage 220VAC/50Hz

- ❖ Temperature Range Ambient +10 to 300°C
- ❖ Temperature Accuracy ±1.0°C
- ❖ Temp. Resolution Display 0.1°C,
- ❖ Controller Digital PID Remote Controller
- ❖ Display Digital LED

- ❖ Temp. Uniformity Specially Designed Heating Module
- ❖ Temp. difference in plate Surface < 10°C
- ❖ Plate Material Coated aluminum or Stainless Steel
- ❖ Safety Over current, Over Heat, Short Circuit protection and Sensor error detection
- ❖ Permissible Temp. & RH % Ambient +5 ~ 50°C, 85% RH

Multi Hotplate Stirrer



Parameter	Specification
Description	Multi-use and wide range sample testing through digital feedback control by high-performance microprocessor.
Country of Origin	Bangladesh
Number of Plates/ Stirring Positions	10 Plates type with independent heating & stirring control
Material	Plate: Ceramic Coated Aluminum; Body: Powder Coated Steel
Plate Size (mm)	140 x140
Stirring Capacity	1 litre (total: 10l)
Speed & Control Resolution	80-1500 rpm, 5 rpm
Stirring Positions Distance	130mm
External Temp. Sensor Accuracy	No External sensor (don't need)
Temp. Range & Accuracy	Max. 300°C, $\pm 0.3^\circ\text{C}$ at Set Temp.
Temp. Resolution	0.1°C-Display, 0.5°C-Control
Temp. Uniformity	Specially Designed Heating Module: Temp. Difference 10% less
Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end
Display	Digital LCD Display with Back-Light Function
Controller	Digital Feedback Controller with soft touch button
Stirring Bar	3cm bar-included, Usable: up to 5cm bar
Permissible Temp. & RH %	Ambient +5 ~ 50°C, 85% RH
Power Supply	AC 220-230 V, 50 Hz
Storage Function for the Set Values	Temperature, RPM and Timer
Safety	Locking Mode for Experimental Safety Supported

Multi-position Magnetic Stirrer with Hotplate



Specifications	
Model	HPMS-10
Work plate dimension [W x D]	24"x16"
Work plate material	Stainless steel with silicone
Motor type	AC motor (individual control)
Stirring positions	10
Max. stirring quantity	1.0 Liter x 10
Max. magnetic bar[length]	25mm
Speed range	0-1100rpm
Speed display	No (Analog)
Temperature display	LCD
Heating temperature range	Room temperature +10 to 160°C
Overheating protection	170°C
Protection class	IP42
Motor rating input	12W x 10
Motor rating output	4W
Heating output	1000W
Voltage	200-240V 50Hz
Weight	15.0kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

Negative Temperature Calibrator



Technical Specifications

Model	NTC-20150A	NTC-20150B
Temperature range	-30℃~150℃	-30℃~150℃
Heating rate	3℃/ minutes	
Cooling rate	1℃/ minutes	
Display	5/7 inch Touch Screen LCD	
Display accuracy	≤±0.1℃	≤±0.1℃
Insertion depth	160 mm	160mm
Average heat block diameter	36 mm	32 mm
Temperature field stability	≤±0.03℃	≤±0.03℃
Horizontal temperature field	≤±0.05℃	≤±0.05℃
Vertical temperature field	The deviation is 1 degree within 50 mm calculated from the bottom of the hole of the heat block	
Temperature units	℃ or °F	
Temperature accuracy	0.1%	
Display resolution	0.01℃	
Maximum power	3000W	
Weight (net weight)	20 kg,	
Weight (including packaging)	25 kg,	
size	310*190*340mm	
Usage Environment	Ambient temperature 0-50℃, relative humidity less than 95% (non-condensing)	
Customized size available		

Dry Heat Sterilizer

Principle of the Dry Heat Sterilizer:

Under the action of the circulating fan, heating tube, and dehumidifying fan, the dry heat sterilizer rapidly heats up. At the same time, clean and dry air enters the sterilization chamber through a high-efficiency filter, absorbing moisture from the surface of the materials. The absorbed moisture evaporates and is discharged through the circulating channel. The dry air circulates in a directed manner under the action of the fan. As the water vapor gradually decreases, fresh filtered air is intermittently replenished. The chamber is maintained at a slightly negative pressure, and the temperature in the sterilization chamber reaches the set value. It is kept at the set temperature for insulation circulation, achieving sterilization of the sterilized items.

Dry Heat Sterilizer Applications:

Dry heat sterilizer finds wide-ranging applications across industries, including:

- ❖ **Pharmaceutical Manufacturing:** Ideal for the dry heat sterilization of pharmaceutical equipment, containers, and raw materials, ensuring compliance with rigorous industry standards.
- ❖ **Biotechnology:** Suitable for sterilizing laboratory instruments, glassware, and media, maintaining a sterile environment crucial for biotechnological processes.
- ❖ **Healthcare Institutions:** Used for the dry heat sterilization of medical instruments, surgical equipment, and other healthcare materials, contributing to infection control measures.
- ❖ **Research Laboratories:** Applicable in research settings for the sterilization of tools and equipment critical to experiments and studies.
- ❖ **Food and Beverage Industry:** Employed for sterilizing packaging materials, utensils, and equipment in the production and processing of food and beverages.
- ❖ **In summary,** dry heat sterilizer combines cutting-edge technology with versatile features, making it an indispensable tool in various sectors where reliable and effective sterilization is paramount.



Dry Heat Sterilizer Features:

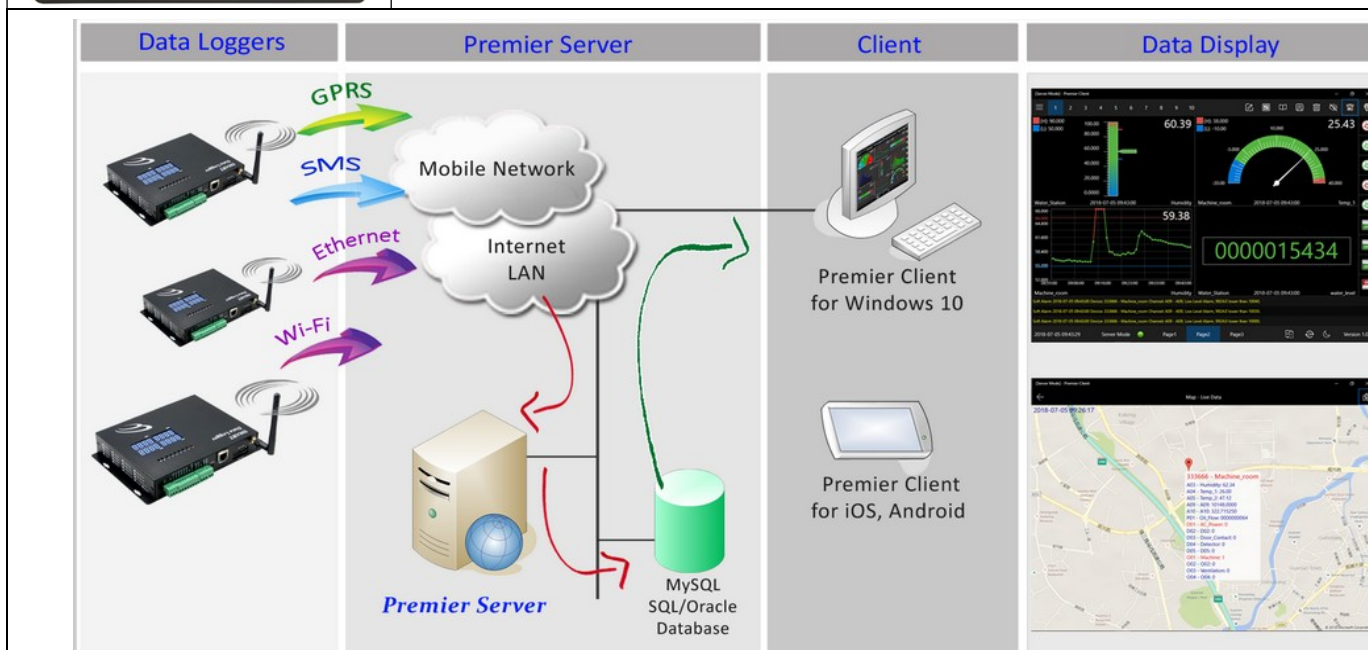
1. **Premium Chamber Material:** Crafted from high-quality 304 stainless steel, the chamber ensures durability, resistance to corrosion, and facilitates easy cleaning, meeting the stringent requirements of sterilization standards.
2. **Variable Capacities:** Dry heat sterilizer offers a range of capacities (200-2000L), providing flexibility to cater to diverse industry needs, from smaller laboratories to large-scale pharmaceutical production.
3. **Powerful Sterilization Capability:** With a power supply of 18kVA, the dry heat sterilizer delivers robust and efficient sterilization performance, ensuring the complete elimination of microorganisms and spores.
4. **Wide Temperature Range:** Operating in a temperature range from RT+10°C to 300°C, dry heat sterilizer accommodates various sterilization requirements, making it suitable for a broad spectrum of applications.
5. **Low Noise Level:** The dry heat sterilization process is conducted with minimal disruption, as the noise level is maintained at ≤85dB, ensuring a quiet and conducive working environment.
6. **High Cleanliness Grade:** Achieving a cleanliness grade of Class 100, the dry heat sterilizer provides a sterile environment, preventing the introduction of contaminants during the dry heat sterilization process.
7. **Versatile Cooling Options:** The dry heat sterilizer offers flexibility with cooling methods, allowing users to choose between Air Cooling and Water Cooling based on their specific requirements and available resources.

Dry Heat Sterilizer Specifications:							
Model	ST-DH360	ST-DH450	ST-DH650	ST-DH800	ST-DH1000	ST-DH1200	ST-DH2000
Chamber Material	304/316L						
Capacity(L)	360	450	650	800	1000	1200	2000
Power Supply	18kVA	20kVA	21kVA	24kVA	27kVA	27kVA	36kVA
Sterilizer Temperature	RT+10~300°C						
Noise	≤85dB						
Cleanliness Grade	Class 100						
Cooling Method	Air Cooling						

4.3/5/7 inch Touch screen



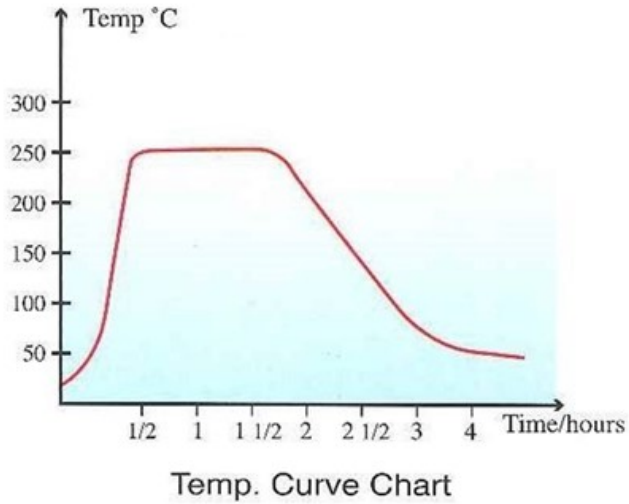
- Three-level password protected permission management and operation log function to improve the safety and traceability of the experiment (For FDA);
- It has the function of appointment running, timing and power-off memory;
- The controller has screen locking function to avoid migration;
- It has functions of real-time curve view, historical data storage and export, and can be extended to remote communication, USB flash disk port, printer port and other functions.



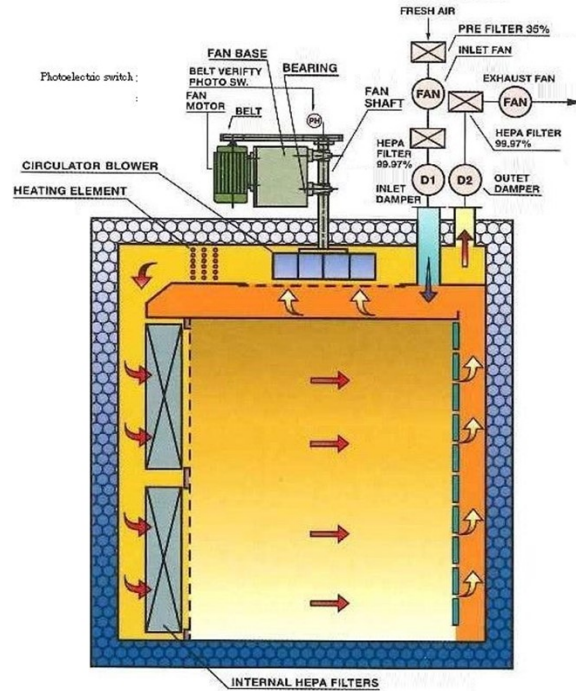
Control System

- ❖ Using human machine interface touch screen (LCD with color) and PID sequence controller for Hot Air Sterilizer System, easy to operate and maintain.
- ❖ Operation panel can set up multiple type of displayed information; you can operate, adjust and install the equipment in accordance with the screen.
- ❖ Using Silicone Control Rectifier (SCR) module for control system, it had a very smooth and stable temperature curve with auto tuning temperature controller (P.I.D) during sterilization.
- ❖ Recording continuous curve of the chamber sterilization process by temperature recorder, you can choose 6 points or 12 points.
- ❖ Automatic sterilizer cycle including five stages: heating → drying → sterilizing → cooling → finishing.
- ❖ Preventing hot temperature happened and bottles' broken when cooling cycle is not finished yet and the door can't be opened.
- ❖ Providing optional equipment purchasement to check chamber pressure is in regular condition or not during turning. The recorder will display pressure value.

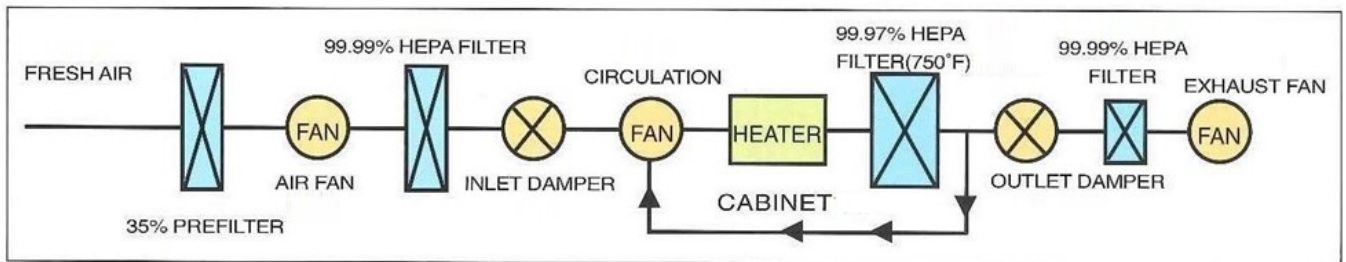
Temperature Curve Chart



Processing Map: Map 1



Processing Map: Map 2



- ❖ The equipment will be fully tested before delivering to customer's end, providing original calibration documents, IQ & OQ documents, and all calibration reports of various instruments including temperature sensor that also comply with cGMP regulations.

Double Door Pulsating Vacuum Horizontal Autoclave

HS-HSP series pulsating vacuum horizontal autoclave is the equipment that disinfects and sterilizes the objects with saturated steam, its structure is horizontal and heating way is electric heating. The horizontal autoclave is composed of sterilization chamber, shell, jacket, door, steam generator, vacuum system, cooling system, pipe system, control system, display system and power supply system. HS-HSP series pulsating vacuum horizontal autoclave is widely used in CSSD, lab, scientific research institution, pharmaceutical, food industry and is suitable for items which are high temperature-resisting and high pressure-resisting including unwrapped or wrapped instrument, dressing, rubber, liquid, plant-in instrument, porous item, hollow instrument to be sterilized.



Features:

Main structure

The horizontal autoclave adopts rectangular horizontal triple-layer design structure, with chamber and jacket, the thickness is 8 mm. The sterilization chamber is mirror polished and the corners rounded to facilitate cleaning, which is composed of compound gauge, non-return valve, steam trap, plug screen etc. Jacket is composed of pressure gauge, safety valve, vacuum circuit breaker etc. Horizontal sterilization chamber, rectangular cross-section, European-style ring-shaped stiffener jacket structure. The unique inner shell and ring-shaped jacket combination structure enhances the strength and rigidity of the main body.

Seal Door

Pneumatic sealing, the door gasket is made of high-quality silicone rubber sealing ring and adopts patented compressed air sealing technology, it is fully automatic operation when sealed, the lifespan is more than 2000 sterilization cycles. The door equipped with complete electromechanica safety interlocking device to ensure the safety of personnel and equipment.

Control System

- ❖ The horizontal autoclave is integrated by PLC + HMI + Printer. This system is easy to implement the program selection, parameter setting, equipment operation, report processing, system backup, system recovery, printing, sterilization records and operation records review, chart and graph review, fault and failure records, alarms and messages history, audit trail, data storing and others functions. The F0 value and the temperature time gives double guarantee for sterilization.
- ❖ The horizontal autoclave equipped with Ethernet interface and USB interface.
- ❖ The horizontal autoclave equipped with independent temperature monitoring system.
- ❖ The controller system equipped with four-level password access authority.
- ❖ When automatic controller in the failure of the circumstances, the security device makes the sterilization indoor pressure safety in the pressure of the atmosphere to the back of the state, and allow the loading door can be opened.
- ❖ If any malfunction or error or failure occurs, there are visual and audible alarms.
- ❖ In order to maintenance, test and emergency needs, manual operation can be through the use of access control tools to complete.

Pipeline System

- ❖ The horizontal autoclave pipes are made of AISI 304. All pipes are polished inside and outside, are seamless stainless steel medical-grade pipes, whose material composition can be traced.
- ❖ Drain lines are equipped with removable filter plugs to prevent clogging.
- ❖ The horizontal autoclave main control and action components are all internationally renowned brands to ensure stable operation of the equipment.
- ❖ The pipeline system is mainly composed of pneumatic angle seat valve, HEPA filter, vacuum pump, water feeding pump, safety valve, solenoid valve, non-return valve, steam trap, heat exchanger, etc...

Sterilization Cycle

- ❖ Preset sterilization cycle: As per request
- ❖ User-defined cycle: As per request
- ❖ Testing cycle (B & D test, Vacuum leakage test)

Steam Generator

The steam generator is insulated with resin embedded glass wool, and equipped with water level sensor, temperature and pressure sensors, safety valve, etc, automatic water filling.

Vacuum System

- ❖ The highly efficient liquid ring vacuum pump is provided to effectively remove air from within the chamber. Multiple negative pressure pulsation (1-99 times) + cross pressure pulsation (1 time) + positive pressure pulsation (1-3 times) mode is adopted to reduce the alternating load of the sterilizer and improve the fatigue life of the equipment.
- ❖ The steam condenser is fitter in the exhaust / vacuum line to condense the steam before entering inside the vacuum pump.

Safety System

- ❖ Low water cutoff sensor.
- ❖ Mechanical pressure relief safety valve for chamber and jacket.
- ❖ Over-pressure protective device.
- ❖ Over-temperature protective device.
- ❖ Protective measure device of door safety.
- ❖ Interlock function device.
- ❖ The program cannot be started when the doors are not closed and locked well. When the chamber pressure is not 0, the door cannot be opened. The door cannot be opened when the machine is running.
- ❖ Perfect fault alarm and fault self-diagnosis function.
- ❖ Emergency stop button.
- ❖ Double-door safety interlock device, two doors cannot be opened at the same time.

Alarm System

All alarms are audible and visual, and the message is displayed on the touch screen, stored and printed.

- ❖ Door is not closed in place alarm.
- ❖ Chamber over-pressure can not open the door alarm.
- ❖ Chamber low-pressure can not open the door alarm.
- ❖ Chamber over-temperature can not open the door alarm.
- ❖ Door interlock alarm.
- ❖ Door opening and closing alarm.
- ❖ Door not closed can not start program alarm.
- ❖ Program running can not open the door alarm.
- ❖ Door overload or blocked alarm.
- ❖ Door is not closed to open the chamber steam inlet valve alarm.
- ❖ Chamber low temperature and over temperature alarm.
- ❖ Chamber low pressure and over pressure alarm.
- ❖ Emergency stop alarm.
- ❖ Water lacking alarm.
- ❖ Anti-dry burning alarm for electric heat pipe of steam generator.
- ❖ Steam generator low temperature and over temperature alarm.
- ❖ Steam generator low pressure and over pressure alarm.
- ❖ Sterilization failure alarm.
- ❖ Vacuum pump overload or blocked alarm.
- ❖ Sensor detection abnormality alarm.
- ❖ Chamber vacuum leak alarm.

Items	Standard configuration	Optional configuration
Chamber	AISI 304	AISI 316L
Door	AISI 304	AISI 316L
Jacket	AISI 304	AISI 316L
Steam generator	AISI 304	AISI 316L
Pipeline	AISI 304	AISI 316L
Touch screen	7 inch	10 inch / 12 inch
Door number	Single door	Double doors
Door type	Automatic vertical sliding door	Hinged door (motorized door)
FDA 21 CFR Part 11 (electronic records, electronic signatures, audit trails, etc)	No	Yes
Remote monitoring system	No	Yes
Loading type ($\leq 450\text{L}$)	Loading trays	Loading cart and transfer trolley
Loading type ($\geq 600\text{L}$)	Loading cart and transfer trolley	Loading trays
Language	Chinese, English, French, Spanish	Can be customized according to user needs
Voltage	380V/50Hz	220V/400V/440V

Main Parameters

Model	HS-HSP
Design temperature	150°C
Design pressure	-0.1/0.5Mpa
Working temperature	105°C-139°C
Working pressure	0-0.25Mpa
Sterilization time	0-99min
Drying time	0-99min
Vacuum rate	-97Kpa
Temperature control accuracy	$\leq \pm 0.2^\circ\text{C}$
Temperature display accuracy	0.1°C
Temperature equilibrium	$\leq \pm 0.5^\circ\text{C}$
Safety valve open pressure	0.28Mpa
Water source	0.15-0.3MPa
Steam pressure	0.3-0.6Mpa
Compressed air	0.4MPa-0.7MPa

Product List

Model	Chamber size (W×H×D)	Outer size (W×H×D)	Steam Consumption (kg/cycle)	Water Consumption (kg/cycle)	Net Weight (kg)	Power (kw)
HS-HSP150	150L 450×450×750mm	1190×1700×1100mm	12	80	550	14
HS-HSP200	200L 550×550×750mm	1290×1850×1200mm	14	110	650	22
HS-HSP250	250L 550×550×850mm	1290×1850×1200mm	16	120	750	22
HS-HSP300	300L 550×550×1000mm	1290×1850×1350mm	18	140	820	22
HS-HSP360	360L 610×610×1000mm	1290×1850×1350mm	20	160	870	32
HS-HSP400	400L 652×690×850mm	1350×1950×1200mm	21	170	920	32
HS-HSP450	450L 652×690×1000mm	1350×1950×1350mm	22	180	950	32
HS-HSP600	600L 652×690×1350mm	1400×1950×1700mm	35	220	1150	39
HS-HSP800	800L 652×690×1800mm	1400×1950×2150mm	52	320	1500	52

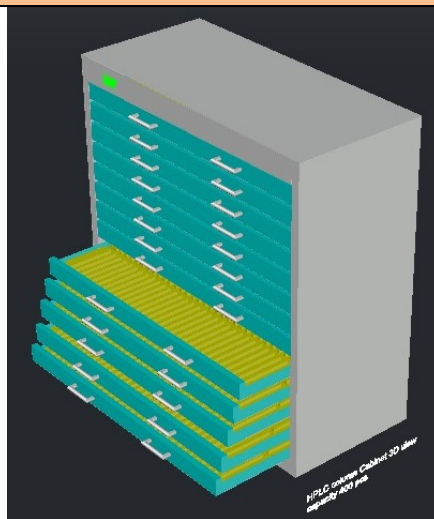
Vacuum Leak Tester

Blank

Technical Specifications

Technical Specifications			
Model	AST-VLT-300	AST-VLT-400	AST-VLT-500
Vacuum Degree	0 ~ -90kPa		
Accuracy	0.1%FS		
Test Mode	Normal mode		
Effective Size of Vacuum Chamber	φ270×210(H) (Standard)	φ360×585(H) (Optional)	φ460×330(H) (Optional)
Maintaining Capability of Vacuum Degree	Automatic Compensation, Constant Pressure Maintaining & Vacuum Degree Setting by Range		
Mode of Operation Control	Automatic Control & Touch Screen Operation		
Gas Supply Pressure	0.7~0.9MPa (Not in supply scope)		
Port of Gas Supply	Φ6 mm PU Tubing		
Power Supply	AC 220V 50Hz/120V 60Hz		
Instrument Dimension	Instrument: 300mm(L)×385mm(W)×150mm(H) Standard Vacuum Chamber AST-VLT-300: φ310×355(H)		
Customized size available			

HPLC Column Cabinet



Technical Specifications

Model	HCC-100	HCC-200	HCC-400
Capacity	100 column	200 Column	400 Column
Drawer quantity	10	10	13
Column quantity per drawer	10	20	31
Column size	Maximum 32 cm		
Material	Powder coated Mild Steel		
Cabinet size	W480xL420xH480 mm	W480xL420xH940 mm	W940xL420xH940 mm
Customized size available			

Lab Water Distiller



Technical Specification

Model	LWD-30
Capacity	30 liter / hour
Storage Tank	Integrated 50 Litter storage tank
Consumption	250 litter / hour (Cooling water chiller optional need to order separately)
Conductivity	Approximately 2,5 μ S/cm at 25 °C
Fully Automatic	Automatic thermostatic power cut-off to protect the heating element in case of low water Automatic power activation when the water level reaches the safety line in the evaporator tank to protect the heating element. Automatic refilling of the storage tank after distillate withdrawal electronically controlled.
Water supply	Built-in solenoid valve connection for the evaporator and cooler, with automatic switching on/off based on the water level in the evaporator tank.
Internal material	The tanks (Evaporating tank & Storage tank) are made of stainless steel The condenser (cooler) is made of stainless steel The heating element is made of stainless
External material	The heating element is made of stainless steel
Degassing system	The unit includes a top vent for effective degassing, ensuring pyrogen-free, low-gas, and bacteria-free water.
Accessing interior	The evaporator and storage tanks are easily accessible for cleaning and maintenance, facilitating efficient cleaning procedures.
Installation	All necessary parts and accessories for installation are included.
Main switch	The main power switch button located on the front of the unit
water level	The device features a tube indicating water level in the storage tank.
Mounting	Suitable for both benchtop and wall mounting.
Water	Low water level sensor with automatic power cut-off to protect the heating element.
Heating	Overheating cut-off
Degassing	Pyrogen-free, low-gas, and bacteria-free water.
Power connection	Power cable with 5 pins three-phase CEE plug.
Water inlet	The cooling water inlet of 3/4 inch ($\varnothing$ 19.05 mm).
Water pressure	From 2 bars to 10 bars
Water outlet	The cooling water outlet is located on the right-hand side of the unit, with a diameter of 2/5 inch (inner $\varnothing$ 10 mm).
Drainage tap	available
Distillate water	Distillate water can be withdrawn by continuously or push mode from front tap.
Power	The main connection cable on the left-hand side of the unit
Voltage	380 volts, 50/60Hz
Watt	21000 Watt
Weight	70 Kg

Customized size available

Mortuary Freezer (Refrigerated cabinets for dead bodies 2, 3, 4 & 6 or more)

Mortuary cabinets are low temperature refrigerated cabinets that are used to keep dead bodies for short or long time. These dead body refrigerated storage cabinets are widely used at hospitals, railways, airports, disaster & army camps and army hospitals etc. These cold cabinets are also called by other names such as morgue freezer, dead body storage refrigerator, mortuary fridge and mortuary chambers etc. Usually the temperature of mortuary storage cabinet remains between 0°C to 8°C but in some cases it may go freezing side such as 0°C, -10°C and even -20°C that can also be designed as an option.



Model MF-2



Model MF-3



Model MF-4



Model MF-6



Model MF-2F



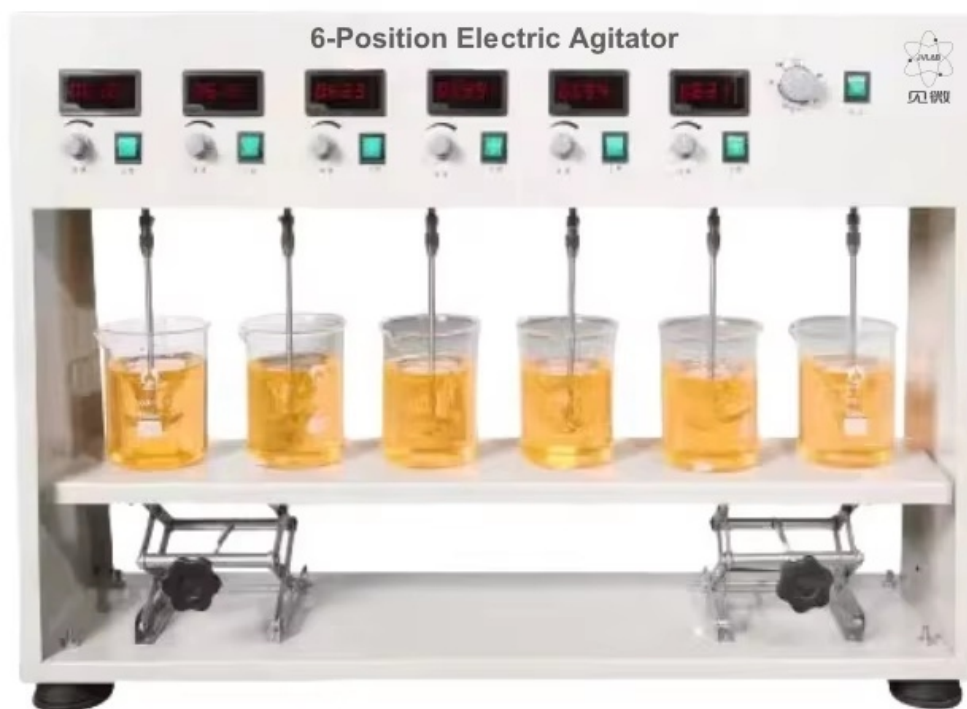
Model MF-3F



Model MF-3F

Model	MF-2	MF-3	MF-4	MF-6	MF-3F	MF-6F
Temperature range	+5°C to -10°C				+5°C to -10°C	
Temperature controller	Microprocessor controller, High resolution LED display, Elegant flat keypad, IP65 protection					
No. of Controller	Individual controller per chamber				Single controller for all chamber	
Display precision	±1.0°C					
Temperature sensor	NTC					
No. of Sensors	Individual temperature sensor per chamber					
Overall construction	Stainless steel 304					
Trolley	Made of stainless steel, Run on rollers fitted with ball bearings					
No. of trolley	Individual trolley per chamber					
Doors	❖ Solid insulated doors	❖ Fixed on SS hinges		❖ Spring door latch w/lock & key		
No. of doors	Individual door per chamber					
Refrigeration system	❖ Secop compressor ❖ Individual refrigeration system for each chamber ❖ Fluoride-free refrigeration system ❖ R404a refrigerant				❖ Secop compressor ❖ Single Refrigeration system with force air flow for all chamber ❖ R404a refrigerant	
Compressor safety	Compressor delay time safety feature					
Cooling method	Direct cooling					
Alarms	Temperature low and high variation alarm					
Sterilizer	Hot air sterilization after unloading (UV Sterilization on request as optional)					
Power supply	220 Volts 50Hz					
Room inner size	1950*650*450 mm					
Body Tray size	1940*580 mm					
External dimensions cm	228*86*128	228*86*178	228*164*128	228*164*178	252*158*130	252*158*185
Optional	❖ Battery Backup for temperature and alarm ❖ Freezing temperature -20°C				❖ Temperature data logger ❖ Voltage Stabilizer	
	Optional Temperature range 0°C to -20°C, Dual compressor system for each chamber					

6-position Electric Agitator Six-jar Laboratory Test Apparatus Mixing Stirrer Flocculator



Descriptions

Ideal for

- ❖ flocculation test in water treatment laboratories
- ❖ coagulation chemistry

Features

- ❖ 20 - 300 rpm
- ❖ 6 places
- ❖ Independent control
- ❖ digital LCD for rpm, power-bar, status and programming
- ❖ special designed timing belt

Safety mechanism

- ❖ timer 99h 59min with timer-end signal
- ❖ error status
- ❖ locking mode
- ❖ overload protection
- ❖ overheat protection
- ❖ operation LEDs

Controller

- ❖ Microprocessor controller

Version 6 stirring points

Width (Outer) 1000 mm

Length (outer) 310 mm

Height (outer) 535 mm

Illumination 1 x 20 W (light sources)

Blades straight blade B 75 x H 25 mm

Speed 20-300 rpm, control resolution 1 rpm

Weight 37 kg

Weight with packaging 69 kg

Capacity 6 x 1 l beaker

Stirrer diameter Ø8 x L400 mm

Packing size 1120 x 430 x 740 mm

Desiccator Dry Storage Cabinet



Descriptions

1800 series stainless steel desiccators are designed for storing sensitive samples and products in a dust and moisture-free environment using either a desiccant, nitrogen, or clean dry air. The cabinet is ideal for applications that utilize corrosive cleaning agents since stainless steel holds up to most common cleaning agents.

- ❖ Single chamber desiccator cabinet constructed of heavy-duty, 18-gauge, 304 stainless steel.
- ❖ 304 stainless steel door frame with a clear static-dissipative PVC window.
- ❖ Stainless steel door hinge for maximum door support.
- ❖ Metal lift-and-turn, compression latch to form a perfect door seal.
- ❖ Single-piece, non-adhesive door seal.
- ❖ Stainless steel wire rack for shelving placement at 3" increments.

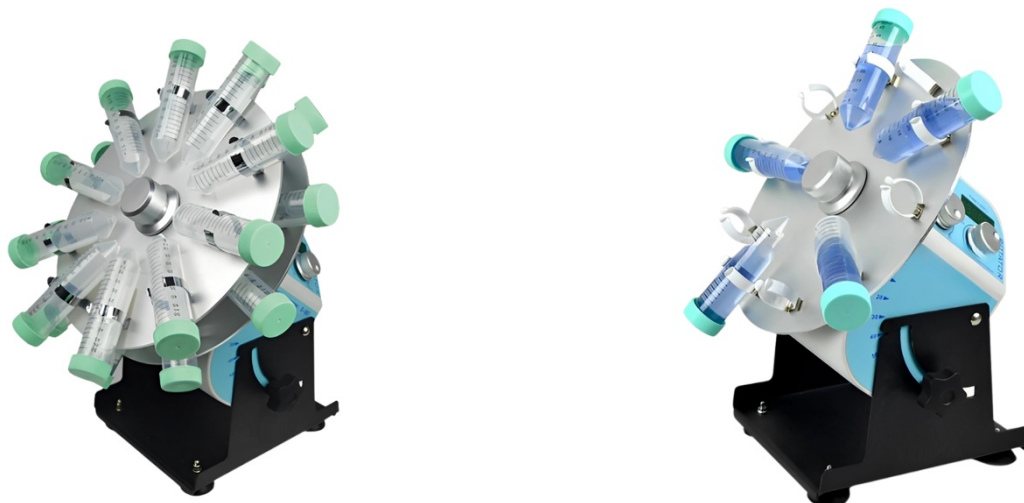
Specifications

Model	DESICCATOR-1
Outer dimensions	W74 x D75 x H189 cm
Inner dimensions	W70 x D70 x H160 cm
Volume	1050 Liter
No. Of Chambers	Single
No. Of doors	Single
Temperature and Humidity monitor	Yes, available
Inside illumination light	Yes, available
Material	Stainless Steel
Access door	One Side
Vacuum pump	Yes, available but optional
Non return valve for vacuum	Yes, available
Purge control	Automatic
Part No.	1800-1



Rotary Mixer ROTAMIX-A10

Rotary Mixer ROTAMIX-A10 offers a variable speed range of 10 to 100 rpm, ensuring gentle to vigorous mixing for a wide range of laboratory applications. It is equipped with a high-performance motor designed for long-term reliability and consistent operation. The tool-free turntable installation allows easy attachment or replacement without additional tools. Our Rotary Mixer is used for mixing in tissue culture, sample extraction, and clinical labs.



Applications:

Rotary Mixer ROTAMIX-A10 is designed for gentle and efficient mixing of biological and chemical samples. It is widely used in tissue culture, sample extraction, clinical diagnostics, and research laboratories.

Features:

- ❖ Programmable mixing timer
- ❖ Wide angle adjustment
- ❖ LED display interface
- ❖ Durable chemical-resistant housing
- ❖ Global voltage support

Specifications:

Model	RotaMix-A10
Speed Range	10 to 80 rpm
Gradient Angle Range	0° to 90°
Time Range	1min to 9999min
Fuse	250V, 1A, $\Phi 5 \times 20$
Power Consumption	250W
Power Supply	AC 220VAC $\pm 10\%$, 50Hz
Dimensions (W×D×H)	206 × 260 × 300 mm
Weight	6 kg

Fruits or Vegetable Tray Dryer

Features:

- ❖ Frequency conversion saves energy and electricity, reduces processing costs.
- ❖ Multi-stage temperature control, control the taste of ingredients.
- ❖ Upgraded dual fans 360° three-dimensional circulation drying.
- ❖ Upgraded 20-layer large capacity, satisfying one-time drying of hundreds of flavors.
- ❖ Built-in explosion-proof baking lamp, real-time monitoring of ingredient changes.
- ❖ All stainless steel body, sturdy and durable, no deformation



Standard LCD Display

Model	FTD-400
Capacity	400 Liter
Temperature Range	Ambient plus 5~100°C
Timing Range	1-9999 Min/Hour/Continuous
Material	Stainless steel
Control Method	LCD
Power	1500W
Power Supply	Standard: 220V, 50/60Hz; Optional: 110V, 50/60Hz
Tray size and quantity	600 x 400 mm, Quantity: 18
Product Size (W*D*H)	750*550*1000mm
Gross Weight	80

Customize size available

Platform Shaker

Model	BS-1	BS-2	BS-3	BS-15	BS-25	BS-35
Speed range	40 - 250rpm	40 - 300rpm		40 - 500rpm		
Frequency accuracy	±1rpm					
Amplitude	20mm			4mm	5mm	5mm
Max loading capacity	2000ml	4000ml	9000ml	2000ml	4000ml	9000ml
Display	LCD screen					
Timer	1 - 99h59min					
Platform sizes (mm)	250×250	350×350	450×450	250×250	350×350	450×450
Overall size W×D×H (mm)	290×375×110	390×495×125	490×605×137	290×375×110	390×495×125	490×605×137
Rated power	60W					
N.W	20 Kg	30Kg	40 Kg	20 Kg	30Kg	40 Kg
Powder requirement	AC220V/50Hz					
Standard configuration	250ml×8pcs	250ml×13pcs	250ml×18pcs	250ml×8pcs	250ml×13pcs	250ml×18pcs

Applied Science and Technologies

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