

-25°C Upright Freezer



Description

-25°C Freezers are widely used in hospitals and laboratories, to store drugs, vaccines, blood, enzymes, hormones, stem cells, extracted RNA and gene libraries, and important biological and chemical reagents.



Advantage

- 1.Clear LED screen and control panel support easy display and operation.
- 2.Lockable universal caster wheels.
- 3.Inner doors or drawer design makes separated storage possible.
- 4.Eco friendly CFC-free refrigerant also save energy.
- 5.Coil evaporator for better performance & easy maintenance.



Independent inner door to avoid more cooling leakage, and provide more stable inside temperature performance.



Upright side door with build-in handle for easy-opening; limit door hinge to prevent collision when door open.

Reliability

- Audible and visible alarm: high and low temperature, sensor error, power off, temperature controller malfunction, door ajar alarm.
- Safety password protected control panel prevents unauthorized system modification.
- Power failure protect: Device could be attacked by the high current when all devices in the lab restart, start-delay function would protect device from the damage.



Specification

Model		FZ-25V100	FZ-25V270E	FZ-25V330E
Capacity (L)		100	268	328
Size (WxDxH)	Internal (mm)	410x410x670	508x455x1137	508x455x1393
	External (mm)	540x540x880	673x676x1630	673x676x1886
Temperature	Range (°C) at RT. 10 ~ 32°C	-10 ~ -25°C	-10 ~ -25	-10 ~ -25
	Sensor	NTC	NTC	NTC
	Controller	Microprocessor	Microprocessor	Microprocessor
Cooling Stystem	Refrigerant	R600a	R290	R290
	Defrost	Manual	Manual	Manual
	Compressor (Qty)	KY55C45G / 1	CUBIGELN / 1	CUBIGELN / 1
Display		Digital display	Digital display	Digital display
Audible &Visible Alarm	High / Low temperature	Standard	Standard	Standard
	High ambient temperature	/	/	/
	Sensor error	Standard	Standard	Standard
	Abnormal voltage	/	/	/
	Power failure backup system(alarm)	8h	8h	8h
	Door ajar	Standard	Standard	Standard
Material	Internal	HIPS	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
Accessories	USB port	/	/	/
	Casters	/	Standard	Standard
	Data logger	Optional	Optional	Optional
	Remote alarm port	/	Standard	Standard
	Test hole (Qty) / Diameter (mm)	/	1 / 25	1 / 25
Shelves / Drawers (Qty)		Shelves / 3 , Drawers / 4	Shelves / 3	Shelves / 4
Sound Emission (dB)		50	46	46
Electricity	Voltage / Frequency	AC110/220V ± 10% , 50/60Hz	AC110/220V ± 10% ,50/60Hz	AC110/220V ± 10% , 50/60Hz
	Consumption (W)	150	180	180
N.W. / G.W. (Kg)		40 / 43	98.5 / 115	113 / 131
Shipping Size (WxDxH) (mm)		590x590x900	770x770x1804	770x770x2040

High Speed Micro Centrifuge



Advantage

- Multi-flow air cooling design for chamber cooling.
- Three-layer seal for air-tightness and biosafety.
- High-strength aluminum alloy rotor with unlimited autoclaving capability.
- Four optional rotors for different tube sizes.

Specification

Model	CFG-15H
Max. Speed	15000rpm(200-15000rpm), increment: 10rpm
Max. RCF	21380×g, increment: 10×g
Speed Accuracy	±20 rpm
Rotor Capacity	5ml×18, 5mL culture tube×12; 0.2ml/0.5ml/1.5ml/2ml×24; 0.5ml×36, PCR8×4
Run Time	30sec-99min/Continuous
Acceleration/Braking time (Sec)	25s↑25s↓
Motor	Brushless DC motor
Safety Devices	Dual door interlock, over-speed detection, automatic internal diagnosis
Power Supply	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W
Sound Emission	≦64dB
External Size (WxDxH) (mm)	364x280x266
Shipping Size (WxDxH) (mm)	520x500x470
N.W./G.W. (kg)	12/27.4
Other functions	Speed/RCF switch; Short-time run function; sound-alert function



Cat. No.19500001
0.2mL rotor adapter
24 pcs/pk



CAT. NO. 19500002
0.5mL rotor adapter
24pcs/pk



CAT. NO. 19500003
0.2mL rotor adapter
36pcs/pk



CAT No. 19400069
(2ml×24)



CAT No. 19400071
(0.5ml×36)



CAT No. 19400072
(0.2ml×32)



CAT No. 19400012
(5ml×18)



CAT No. 19400032
(5ml×12)

Model	CAT. NO. 19400069	CAT. NO. 19400071	CAT. NO. 19400072	CAT. NO. 19400012	CAT. NO. 19400032
Capacity	2×24	0.5×36	0.2×32	5×18	5×12
Hole diameter(mm)	11.2	8.2	6.5	13.7	17.5
Hole diameter(mm)	40.5	29.3	20.4	39	44
Max. tube length (mm)	54.2	36		56.5	
Max. speed	15000rpm				
Max. RCF	21380×g				
Rotor capacity	2mL/1.5mL×24/0.2mL	0.5mL×36,0.2mL×36	0.2mL/P-	5mL×18	5mL×12(Con
	×24/0.5mL×24		CR8×4	(Round	e bottom)
Rotor material	Aluminum alloy			bottom)	
Bio-safe (Bio sealing)	Yes				
Available rotor adapters	CAT. NO. 19500001, CAT. NO. 19500002	CAT. NO. 19500003	-		

Mini Centrifuge



Mini Centrifuge



Advantage

- The patent of electrostatic technology, operation with ultra low noise.
- Microcomputer control, DC brushless motor, stable operation.
- The machine is durable, safe and reliable.

Specification

Model	CFG-4M	CFG-10M
Max speed	4000r/min	10000RPM
Max RCF	900×g	5000×g
Max capacity	0.2ml×2×8; 1.5ml/0.5ml/0.2ml×6	0.2ml×2×8; 1.5ml/0.5ml/0.2ml×6
Sound Emission	<48dB(A)	
Power supply	110V/60Hz 220V/50Hz	
External Size (WxDxH) (mm)	189×161×122	
Shipping Size (WxDxH) (mm)	330×250×210	
N.W./G.W. (kg)	1/1.5	

Mini Centrifuge



Mini Centrifuge



Advantage

- Begins to rotate when Lid close
- Rapid acceleration and braking within seconds.
- Secure, durable, and sturdy rotor with a clamp locking design.

Specification

Model	CFG-5M
Max. Speed	5000rpm
Max. RCF	1360×g
Rotor Capacity	0.2/0.5/1.5/2.0mL×8; 32×0.2ml PCR strips or 4×0.2ml PCR 8 strips
Run Time	Continuous operation
Driving Motor	DC motor
Power Supply	AC100V-240V/50Hz/60Hz, 20W
Sound Emission	≤45dB
External Size (WxDxH) (mm)	170x160x122
Shipping Size (WxDxH) (mm)	300x240x210
N.W./G.W. (kg)	1/2

Mini Centrifuge



Mini Centrifuge



Advantage

- Compatible with 1.5ml, 2.0ml, 0.5ml, and 0.2ml centrifuge tubes.
- 8-place rotor can hold up to 32×0.2ml centrifuge tubes.
- Convenient flip-type switch that automatically stops when the cover is opened.
- Durable cover made from composite material for added strength and durability.

Specification

Model	CFG-6M
Max. Speed	6000rpm
Max. RCF	2000xg
Capacity (standard rotor)	8×1.5/2.0/0.5/0.2ml
Capacity (8-strip rotor)	4×8×0.2 ml
Fuse	0.5A
Consumption	≤50W
Power Supply	AC100-240V, 50/60Hz
External Size (WxDxH) (mm)	160x150x125
Shipping Size (WxDxH) (mm)	270x230x200
N.W./G.W. (kg)	0.9/1.46

Mini Centrifuge



Mini Centrifuge



Application

This centrifuge is ideal for fast centrifugation, sample microfiltration, cell isolation and many other routine laboratory procedures.Appli-cation.

Advantage

- Small volume,high capacity, low wind resistance,low heat rise.
- Easy to operate with dual start/stop function.Close lid for a spin speed up to 7000 rpm.
- Ultra-quiet, low vibration, smooth and quiet operation (sound emission≤50dB).
- Safe, enduring and robust rotor with clamp locking design.
- Sophisticated design, quick-change rotor without any tool.
- Accelerates and brakes in seconds.
- Compatible with 2mLx8 and PCR8x4 rotors.

Specification

Model	CFG-7M
Max.Speed	7000rpm
Max.RCF	2680×g
Rotor Capacity	0.5/1.5/2.0mL×8; 0.2mL×32 PCR tubes; 0.2mL×4 PCR 8 strips;
Running Time	Continuous operation
Driving Motor	DC motor
Sound Emission	≤50dB
Power Supply	AC100-240V, 50/60Hz, 20W
Ambient Temperature and Humidity	5-40 ℃ , 80%RH
External Size (WxDxH) (mm)	166x156x121
Shipping Size (WxDxH) (mm)	300x240x220
N.W./G.W. (kg)	0.5/2

Vortex Mixer



VMX-S



VMX-F

Features

- Variable speed of 0 to 3,000rpm for gentle shaking to rapid mixing of samples
- Touch or continuous operation mode
- Includes a standard top head for mixing a single test tube or other small vessel up to 30mm in diameter
- Electronic speed control maintains constant speed even during changes in load
- Steel base with specially designed vacuum suction feet provides stability and dampens vibration
- Robust aluminum-cast construction

Specification

Model	VMX-S	VMX-F
Speed range	0-3000rpm	3000rpm
Speed display	Scale	/
Run type	Touch operation	Continuous
Mixing motion	Orbital	
Orbital diameter	4mm	
Motor type	Shaded pole motor	
Motor rating input	58W	
Motor rating output	10W	
Permissible ambient temperature	5-40 °C	
Permissible relative humidity	80%RH	
Protection class	IP21	
Power Supply	110-120V/220-230V,50/60Hz	
Consumption	60W	
External Size (WxDxH)(mm)	130x127x160	
Shipping Size (WxDxH)(mm)	300x250x230	
N.W./G.W. (kg)	2/3.5	



VMX-E

Specification

Model	VMX-E
Mixing motion	Orbital
Revolving diameter	4.8mm
Motor rating output	10W
Rotational speed	3000rpm
Operating mode	Inching
Allowable environment temperature	5-40°C
Permissible Ambient Temperature	≤80%RH
Protection class	IP21
Power Supply	100-240V,50/60Hz
Consumption	12W
External Size (WxDxH)(mm)	133x133x80
Shipping Size (WxDxH)(mm)	330x220x180
N.W./G.W. (kg)	1/1.4

Specification

Model	VMX-1000
Speed range	1000~3500rpm
Type of motor activation	Touch pressure-activated operation
Type of movement	Orbital
Orbit	4.5mm
Max test tube size	Φ30mm
Max load	0.1kg
Mixing method	Horizontal circumference
Capacity	Single tube
Operation mode	inching
Consumption	24W
Power Supply	AC100~240V 50/60Hz
External Size (WxDxH)(mm)	125x115x76
Shipping Size (WxDxH)(mm)	180x180x150
N.W./G.W. (kg)	0.55/1



VMX-1000

High Speed Micro Centrifuge



Advantage

- Multi-flow air cooling design for chamber cooling.
- Three-layer seal for air-tightness and biosafety.
- High-strength aluminum alloy rotor with unlimited autoclaving capability.
- Four optional rotors for different tube sizes.

Specification

Model	CFG-15H
Max. Speed	15000rpm(200-15000rpm), increment: 10rpm
Max. RCF	21380×g, increment: 10×g
Speed Accuracy	±20 rpm
Rotor Capacity	5ml×18, 5mL culture tube×12; 0.2ml/0.5ml/1.5ml/2ml×24; 0.5ml×36, PCR8×4
Run Time	30sec-99min/Continuous
Acceleration/Braking time (Sec)	25s↑25s↓
Motor	Brushless DC motor
Safety Devices	Dual door interlock, over-speed detection, automatic internal diagnosis
Power Supply	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W
Sound Emission	≦64dB
External Size (WxDxH) (mm)	364x280x266
Shipping Size (WxDxH) (mm)	520x500x470
N.W./G.W. (kg)	12/27.4
Other functions	Speed/RCF switch; Short-time run function; sound-alert function



Cat. No.19500001
0.2mL rotor adapter
24 pcs/pk



CAT. NO. 19500002
0.5mL rotor adapter
24pcs/pk



CAT. NO. 19500003
0.2mL rotor adapter
36pcs/pk



CAT No. 19400069
(2ml×24)



CAT No. 19400071
(0.5ml×36)



CAT No. 19400072
(0.2ml×32)



CAT No. 19400012
(5ml×18)



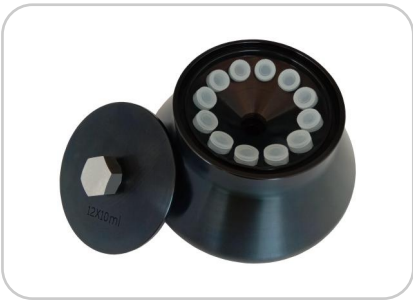
CAT No. 19400032
(5ml×12)

Model	CAT. NO. 19400069	CAT. NO. 19400071	CAT. NO. 19400072	CAT. NO. 19400012	CAT. NO. 19400032
Capacity	2×24	0.5×36	0.2×32	5×18	5×12
Hole diameter(mm)	11.2	8.2	6.5	13.7	17.5
Hole diameter(mm)	40.5	29.3	20.4	39	44
Max. tube length (mm)	54.2	36		56.5	
Max. speed	15000rpm				
Max. RCF	21380×g				
Rotor capacity	2mL/1.5mL×24/0.2mL	0.5mL×36,0.2mL×36	0.2mL/P-	5mL×18	5mL×12(Con
	×24/0.5mL×24		CR8×4	(Round	e bottom)
Rotor material	Aluminum alloy			bottom)	
Bio-safe (Bio sealing)	Yes				
Available rotor adapters	CAT. NO. 19500001, CAT. NO. 19500002	CAT. NO. 19500003	-		

Benchtop High Speed Refrigerated Centrifuge



LCD Touch Screen



Angel Rotor

Advantage

- User-friendly Interface: Equipped with a 5-inch high-definition touch screen for easy operation and an intuitive display.
- Enhanced Safety: Automatically identifies 9 different rotors to prevent potential safety hazards caused by user misoperation.
- Optimal Control: Offers 9 acceleration and 10 deceleration levels to prevent sample disturbance and ensure efficient centrifugation.
- Programmable Convenience: Provides storage for up to 15 program settings, allowing users to save and easily access their preferred centrifugation parameters.
- Precise Performance: Features an AC variable frequency motor for high-speed control precision and an imported environmental-friendly compressor for reliable operation.
- Comprehensive Protection: Includes various safety measures such as overspeed protection, door protection, and imbalance protection to ensure the safety of both users and the machine.
- Versatile Speed Control: Allows for seamless switching between speed and RCF (Relative Centrifugal Force) settings.
- Noise Reduction: Operates at low noise levels, approaching near-silent operation even at high speeds.
- Sealed Rotor Design: Ensures effective protection against aerosols, minimizing the risk of contamination during centrifugation.

Specification

Model	CFG-T18HR
Max. Speed	18500r/min
Max. RCF	23800×g
Max. Capacity	100mL×4
Motor	AC frequency conversion motor
Speed Accuracy	±30r/min
Time Setting	Timed centrifugation: 1min~99 min59sec; Continuous centrifugation: Hold
Temperature Setting	-10℃~40℃
Temperature Accuracy	±1.0℃
Power Supply	AC220±22V 50/60Hz 16A
Sound Emission	< 55dB(A)
Operation interface	Default English system; other language systems can be customized
Service life of the touch screen	About 50,000 times, ten years
External Size (WxDxH) (mm)	662x350x352
Shipping Size (WxDxH) (mm)	750x445x530
N.W./G.W. (kg)	50/70

NO.	Max speed	Max RCF	Rotor Type	Capacity
NO.1	18500r/min	23820×g	Angle Rotor	12×1.5/2.2mL
NO.2	15000r/min	21530×g		24×1.5/2mL
NO.3	13000r/min	16400×g		48×0.5ml
NO.4	12000r/min	25358×g		8×15ml
NO.5	13500r/min	12830×g		12×5ml
NO.6	12500r/min	16060×g		12x10ml
NO.7	12000r/min	17930×g		6×50ml (Round/ Sharp)
NO.8	10000r/min	10740×g		4×100ml
NO.9	4000r/min	2000×g	Microplate Rotor	2x2x48 well plate

High Speed Micro Centrifuge



High Speed Micro Centrifuge



Advantage

- Microcomputer control with a DC brushless motor for stable operation, low noise, and high speed accuracy.
- Touch panel for programmable operation and setting of operation data.
- LED display with a user-friendly interface for easy and convenient operations.
- Real-time conversation of speed and RCF for convenient operation.
- Self-locking device, over-speed safety device, and automatic alarm device for enhanced safety.



NO.1
Capacity: 1.5ml/2.2ml×12
Speed: 16000r/min
RCF: 17800×g
Adapters:0.2ml,0.5ml



NO.2
Capacity: 5ml×10
Speed:13000r/min
RCF:11400×g
Adapter: 0.5ml,1.5ml



NO.3
Capacity: 1.5ml/2.2ml×18
Speed:13200r/min
RCF:16110×g
Adapters:0.2ml,0.5ml

Specification

Model	CFG-16H
Max speed	16000r/min
Max RCF	17800×g
Max capacity	5ml×10
Speed accuracy	± 30r/min
Time setting	1min~99min
Sound Emission	<65db(A)
Power supply	AC110V/60Hz AC220V/50Hz
External Size (WxDxH) (mm)	310x230x240
Shipping Size (WxDxH) (mm)	400x290x330
N.W./G.W. (kg)	9/12

High Speed Micro Centrifuge



High Speed Micro Centrifuge



Advantage

- Centrifuge features a 5-inch high-definition touch screen display, making it easy to operate with an intuitive interface.
- Includes safety protection measures such as automatic identification of 7 different rotors, eliminating potential hazards from user misoperation.
- The control system offers 9 acceleration and 10 deceleration levels, ensuring stable and efficient centrifugation with minimal secondary suspension.
- Users can store up to 15 groups of programs, providing convenient access to frequently used settings.
- Centrifuge is equipped with an AC variable frequency motor, allowing for precise speed control and high performance. It also features an imported environmental protection compressor
- Various safety features are incorporated, including overspeed protection, door protection, and imbalance protection, ensuring the safety of both the user and the machine.
- The centrifuge allows for free switching of speed and RCF (Relative Centrifugal Force), providing flexibility in operation.
- A special air duct design ensures that the rotor operates under normal temperature conditions, maintaining optimal performance.
- Equipped with an airtight rotor, effectively preventing the release of aerosols during centrifugation, ensuring safety and maintaining a clean working environment.

Specification

Rotor NO.	Max. Capacity	Max.Speed	Max. RCF	Dimension of Centrifugal Tube
No.1 Angle Rotor	12×1.5/2.2ml	16500r/min	18300×g	Φ10×42
No.2 Angle Rotor	24×1.5/2.2ml	14000r/min	18756×g	Φ10×42
No.3 Angle Rotor	48x0.5ml	12000r/min	13900×g	Φ8x32
No.4 Angle Rotor	30×1.5/2ml	14000r/min	13900×g	Φ10×42
No.5 Angle Rotor	12X5ml	12000r/min	10100×g	Φ13x53
No.6 Angle Rotor	6×50ml	13000r/min	15300×g	Φ29×105

Model	CFG-17H
Max. Speed	16500r/min
Max. RCF	21500×g
Max.Capacity	50ml×6
Speed Accuracy	±20r/min
Time Setting	0 ~ 99h59min59s
Power Supply	AC 220V 50Hz 15A
External Size (WxDxH) (mm)	495x350x350
Shipping Size (WxDxH) (mm)	710x450x520
N.W./G.W. (kg)	30/45

Benchtop High Speed Micro Refrigerated Centrifuge



Benchtop High Speed Refrigerated Centrifuge



Advantage

- Advanced and intelligent technology in a multipurpose centrifuge.
- Microcomputer control for precise operation.
- LCD screen (CFG-T16HRI) or LCD large touch screen (CFG-T17HR) for clear display.
- Rotor automatic recognition for convenience.
- Multiple options with 9 levels of acceleration and deceleration.
- Electronical lock for safety during spinning.
- Safety features including over-speed safety device, over-temperature safety device, and automatic alarm device.

Specification

Model	CFG-T16HRI	CFG-T17HR
Max speed	16500r/min	17000r/min
Max RCF	21532×g	
Max capacity	1.5ml/2.2ml×36	
Speed accuracy	± 30r/min	
Time setting	1min~99h 59min	
Temperature setting	-20 ~ +40 ℃	
Temperature accuracy	±1 ℃	
Compressor Unit	French Tecumseh Compressor Unit R134a	
Sound Emission	<65db(A)	
Power Supply	AC110V/60Hz AC220V/50Hz	
External Size (WxDxH) (mm)	540x280x300	
Shipping Size (WxDxH) (mm)	670x585x480	
N.W./G.W. (kg)	30/55	

Benchtop High Speed Refrigerated Centrifuge



Benchtop High Speed Refrigerated Centrifuge



Advantage

- Equipped with a 5-inch high-definition touch screen for easy operation and intuitive display.
- Automatically identifies 7 different rotors to prevent potential safety hazards caused by user misoperation.
- Offers 9 levels of acceleration and 10 levels of deceleration for optimal centrifugal performance and to prevent sample disturbance.
- Capable of storing up to 15 different program settings for convenient and quick access.
- Features an AC variable frequency motor for precise speed control and an imported environmental-friendly compressor for efficient operation.
- Incorporates various safety measures including overspeed protection, door protection, and imbalance protection to ensure user and machine safety.
- Designed with a dedicated air duct to maintain a normal temperature inside the rotor during operation.
- Ensures effective prevention of aerosols and contamination during centrifugation.

Specification

Model	CFG-T16HR
Max. Speed	16500r/min
Max. RCF	21500×g
Max.Capacity	6×50ml
Speed Accuracy	±20r/min
Time Setting	0 ~ 99h59min59s
Temperature Control Range	-20 ℃ ~ 40 ℃
Temperature Control Accuracy	±1 ℃
Compressor	Imported high-performance compressor unit, fluorine-free refrigerant
Power Supply	AC 220V 50Hz 15A
External Size (WxDxH) (mm)	650x350x370
Package	Wooden Case
Shipping Size (W×D×H)(mm)	750x445x530
N.W./G.W. (kg)	50/70

Rotor NO.	Max. Capacity	Max.Speed	Max. RCF
No.1 Angle Rotor	12×1.5/2.2mL	16500r/min	18400×g
No.2 Angle Rotor	24×1.5/2mL	15000r/min	21380×g
No.3 Angle Rotor	32×1.5ml	13000r/min	19270×g
No.4 Angle Rotor	8×15mL	12000r/min	15370×g
No.5 Angle Rotor	12×5ml	12000r/min	10100×g
No.6 Angle Rotor	12×10ml	12500r/min	16060×g
No.7 Angle Rotor	6×50mL	11000r/min	13120×g
No.8 Angle Rotor	4×100mL	10000r/min	10620×g

Dry Bath Incubator



Description

The mini dry bath incubator stands out for its compact design and flexibility. Its miniature size fits into limited laboratory space and is ideal for smaller experiments. It provides precise temperature control, whether it's a PCR reaction, DNA amplification or sample storage. The dry bath incubator provides stable and reliable temperature control, no matter what micro-experiment you conduct. The intelligent temperature protection system monitors for abnormalities and automatically adjusts the temperature to ensure your experiments are carried out safely.

Advantage

- 1.DBI-MiniB and DBI-MiniBI dry bath incubator is energy-efficiently designed to ensure optimum power consumption for sustainable and cost-effective operation.
- 2.Offers versatility in power supply options to suit a variety of settings and environments
- 3.he dry bath incubator provides precise and reliable temperature control, promoting consistent and reproducible experimental conditions.

- 4.Transparent design allows users to observe and monitor experimental processes in real-time, enhancing visibility and control of the process.
- 5.Electronic calibration allows users to reset the incubator to any desired standard.
- 6.Compliance with international safety and quality standards through multiple quality and manufacturing approvals.

Specification

Model	DBI-MiniB	DBI-MiniBI
Temp. Setting Range	0℃ ~ 100℃	
Temp. Control Range	RT+5℃ ~ 100℃	RT-20℃ ~ 100℃
Timing Range	1sec~99min59sec	
Temp Accuracy	≤±0.3℃	
Temp. Uniformity	≤±0.3℃	
Display Accuracy	0.1℃	
Heating Time	≤20min(from 40℃ to 100℃)	≤20min(from 25℃ to 100℃)
Cooling Time 1	\	≤20min(from 100℃ to 25℃)
Cooling Time 2	\	≤25min(from RT. to RT.-15℃)
AUTO-4℃	\	Yes
Multi Points Running	\	Yes(Max. 5points)
Multi Cycle	\	Yes(Max. 99times)
Auto Heating	\	Yes
Auto Running	\	Yes
Auto Resume to run	\	Yes
Power Supply	AC100~240V,50/60Hz	
Consumption	40W	60W
Dimensions(WxDxH)(mm)	145×113×110	145×113×140
Shipping Size(WxDxH)(mm)	290x250x220	
N.W./G.W. (kg)	0.5/2	1/2.5
Optional Blocks		
Type	Description	
MiniBoxA	15×2.0ml	
MiniBoxB	15×1.5ml	
MiniBoxC	24×0.5ml	
MiniBoxD	32×0.2ml (for 0.2ml PCR 8-tube strip)	
MiniBoxF	32×0.2ml (for 0.2ml Elisa 8-well strip)	

Rotary Mixer



Description

Multi-Rotator is a high-speed shaker equipped with a brushless DC motor and microprocessor-controlled technology. It can efficiently mix and culture various flasks, petri dishes, and beakers by using different platforms. This versatile instrument finds application in various laboratory settings, including biotechnology, microbiology, and medical analysis.

Advantage

- LCD displays time and shaking speed.
- Easy to operate with touch knob.
- Setup the time of 1min~99h59min. Beep alarms when the operation ends.
- Different platforms can be chosen for various demands.
- Gentle and reliable shaking with brushless DC motor.
- Programmable motions include: 1) orbital rotational motion, 2) reciprocal motion, 3) pause. Not only run in one particular type but also alternate motions of different types cyclically.



Specification

Model RMX-S100	
Shaking speed	10~100rpm (Precisely adjustable)
Timing range	1min ~99h59min
Time period for orbital rotational and reciprocal motions	1-250s
Time for pause	1-5s
Max. load	6kg
Mixing method	Flip
Capacity	Replaceable tray
Operation mode	Standard configuration: 1 tray
Consumption	25W
Power Supply	AC110~240V 50/60Hz
External Size (WxDxH)(mm)	485x200x226
Shipping Size (WxDxH)(mm)	580x390x300
N.W./G.W. (kg)	5.9/8

Microplate Mixer



Advantage

- Wide range of speed from 0 to 1500rpm.
- Used for various mixing applications with optional adapters.
- Maintenance-free brushless DC motor.



Specification

Model VMX-M	
Shaking movement	Orbital
Orbital diameter	4.5mm
Max. shaking weight (with accessory)	0.5kg
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Speed range	Single microplate: 0-1500rpm
	Double microplate: 0-1000rpm
Speed display	Scale
Power Supply	100-240V,50/60Hz
Consumption	20W
Permissible ambient temperature and humidity	5-40oC,80%RH
Protection class	IP21
External Size (WxDxH)(mm)	260x150x80
Shipping Size (WxDxH)(mm)	480x260x250
N.W./G.W. (kg)	2.4/3

Class B Benchtop Autoclave, ST-BB series



Class B Benchtop Autoclave



ST-BB auto door



ST-BB manual

Specification

Model	ST-B8DB	ST-B18DB	ST-B24DB	ST-B24DZB	ST-B29DZB
Capacity	8L	18L	24L	24L	29L
Door	Manual	Manual	Manual	Automatic	Automatic
Display	4.3 inch Color touch screen	5.0 inch Color touch screen			
Chamber Material	SUS304				
Sterilization Temperature	105~138 ℃				
Max.Working Temperature	134 ℃				
Temp.Uniformity	≤±1 ℃				
Designed Pressure	-0.1~0.3Mpa				
Timer Range	0~99min				
Sterilization Pressure	0.23Mpa				
Drying Function	Yes				
Drying Time	2min, 20min, 25min				
Pulse time	1~5				
Sterilization Program	Fast 134 ℃				
	Fabric 134 ℃				
	Packaging Equipment 134 ℃				
	Enhanced Mode 134 ℃				
	Rubber program 121 ℃				
	Packaging Equipment 121 ℃				
	DIY Program				
	HELIX/B &D Test				
	Vacuum Test				
Evaporator	New generation evaporator				
Water Injection method	Build in water tank				
Standard Sterilization Shelf	3pcs SS shelf				
Consumption	2500w	2600w	2700w	2700w	2800w
Power Supply	220V ±22V 50/60Hz ±1Hz				
Chamber Size(ØxH)	Ø170x320mm	Ø248x350mm	Ø248x450mm	Ø248x450mm	Ø320x362mm
External Size(WxDxH)	550x436x375mm	600x483x455mm	700x483x455mm	700x483x455mm	658x638x580mm
Net Weight	37kg	47kg	53kg	53kg	95kg

Class B Benchtop Autoclave



Class B Benchtop Autoclave



ST-B8B, ST-B12B



ST-B18B, ST-B24B

Advantage

- Complies with European Class B standard for eective sterilization.
- Microcomputer control wirh LCD display and touch buttons ensures easy monitoring and precise operation.
- Equipped with BD test, HELIX test, and VACUUM test for comprehensive sterilization performance.
- Automatic protection function includes over temperature, over pressure, and low water level protection, as well as anti-dry burning and safety door lock. Safety interlocking device ensures proper operation and prevents accidents.
- Three times pre-vacuum enhances sterilization eciency and eectiveness.
- Buzzer reminder signals the completion of sterilization cycles, and automatic stop ensures safety.
- Automatic discharge of cold air and steam exhaust after sterilization for ecient and safe operation.
- Built-in steam generator provides quick production of saturated steam for sterilization processes.
- Optional accessory:external or internal printer,usb disk.

Specification

Model	ST-B8B	ST-B12B	ST-B18B	ST-B24B
Capacity	8L	12L	18L	24L
Consumption	2kw	2kw	2kw	2kw
Power Supply	220V110V;50/60Hz			
Design pressure	0.25Mpa			
Design temperature	139 ℃			
Rated working pressure	0.22 Mpa			
Temp accuracy	±1 ℃			
Rated working temperature	134 ℃			
Chamber Size	Ø170x320	Ø200x355	Ø250x370	Ø250x452
External Size(WxDxH)(mm)	580x445x400	600x445x400	640x480x450	690x480x450
Shipping Size(WxDxH)(mm)	650x500x450	660x510x460	720x560x510	760x560x510
N.W./G.W. (kg)	42/45	44/48	48/57	53/60

Mini Gel Imaging System



Mini Gel Imaging System, MG-ISMART

Specification

Model	MG-ISMART
Light Source	470nm epi blue light
White Light Plate	Yes
Filter Protective Shield	Amber, using when observing or cutting gels
Viewing Area	10×10cm
Compatible Dye	DNA: ECO Safe, SYBR Safe, GelGreen Protein: Lightning Red, Silver/ Coomassie blue, SYPRO Ruby
Power Supply	12V/1.5A AC power adapter
Optional app	For Android 4.4 and above or iOS9.0 and above
Light Source (L×W×H)	216×168×54
Light Source Cover (L×W×H)	211×161×108
External Size(W×D×H)(mm)	216×168×128
Shipping Size(W×D×H)(mm)	480x260x250
N.W./G.W. (kg)	1.8/2.5

Automatic Gel Imaging and Analysis System



AG-I1000



AG-I100

Description

Gel Imaging System is designed for nucleic acid testing using various fluorescent dyes like EB, SYBR Gold, SYBR Green, and more.

Advantage

- User-Friendly Design: The system is fully automated with an intuitive interface, including a shooting button and time control for easy operation, eliminating the need for manual adjustments.
- High-Resolution CCD Camera: Equipped with a high-resolution CCD camera with excellent sensitivity and automatic focus. A specialized filter for nucleic acid dye and a high-performance 6x lens ensure accurate imaging.
- Specialized Overlay Glue Cutting Filter: This filter offers advantages over traditional filters. It's easy to use, prevents UV and blue light damage, and functions well under strong light conditions. No dark room is needed. The white light sample plate is perfect for SDS-PAGE gel samples imaging.

Specification

Model	AG-I100	AG-I1000
Pixel	2592x1944(5.03MP)	2592x1944(5.03MP)
Exposure Time	1ms-3000ms	1ms-3000ms
QE Value	High QE: >65%	High QE: >65%
Binning	1x1	1x1
Bit Depth	16bit (0-65535)	16bit (0-65535)
OD	≥4.8OD	≥4.8OD
Lens	Motorized 8-48mm, F1.2	Motorized 8-48mm, F1.2
Trans-UV	302nm	302nm
Epi-White	LED	LED
Trans white	UV to white sample plate	UV to white sample plate
Epi-UV	254nm, 302nm, 365nm for option	254nm, 302nm, 365nm for option
Filters	590nm, Others for option	590nm, Others for option
UV area	210x210mm	210x210mm
Timing off	1~60mins	1~60mins
External Size(W×D×H)(mm)	375x360x605	405x380x695
Shipping Size(W×D×H)(mm)	475x460x725	480x480x730
N.W./G.W. (kg)	28/31	33/36

Mini Gel Imaging System, MG-ISMART

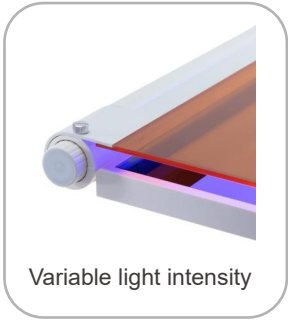
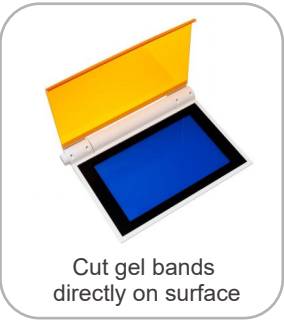
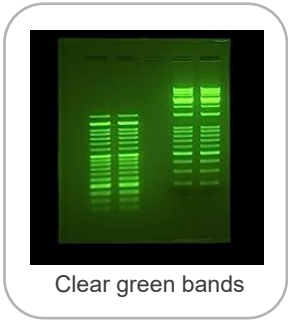
Blue Light Transilluminator



Blue Light Transilluminator



Product Detail



Application

The blue light transilluminator is a high-quality LED 470nm blue light transmission device, used for the observation of nucleic acid and protein gel stains without the risks of UV light. It can be used with a variety of nucleic acid-safe dyes to achieve perfectly clear bands.

Compatible fluorescent dyes include Gene Green, GelRed, GelGreen, SYBR Green, SYBR Safe, Goldview, SYBR Gold, SYPRO Ruby, SYPRO Orange, SYPRO Tangerine, eGFP Cy2, FITC, EB, etc.

Advantage

- 1.Unique bottom light-emitting module.
- 2.Blue 470nm LED light-emitting module has high brightness, long lifetime of more than 50,000 hours, and low power usage.
- 3.Amber cover filters the intense blue light to 580nm and only lets the emission light through , allowing observation and gel-cutting without protective light filtering goggles.
- 4.Creates a mini darkroom to record your results with a quick snapshot from your phone ,tablet or camera.
- 5.Includes an exacto precision knife and an extra blade to precisely cut the gel band containing the sequence of interest.

Specification

Model	TI-BL470
LED source	Bottom LED light module
LED lifetime	>50000h
LED wavelength	470nm
Auto shutdown time	5min
Input power supply	100~240V,50/60Hz
Input current	1A
Observation area(W×L)(mm)	200×120
Sizes (W×D×H)(mm)	265×195×40
Shipping size(W×D×H)(mm)	285×390×90
N.W./G.W. (kg)	1/2

UV Light Transilluminator



UV Light Transilluminator



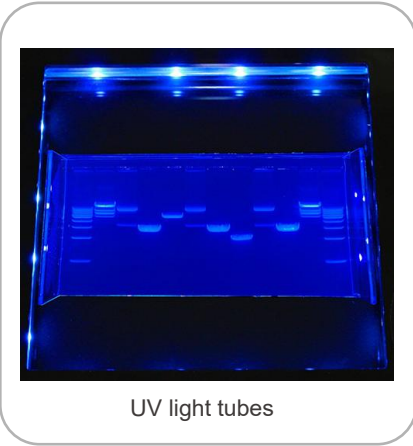
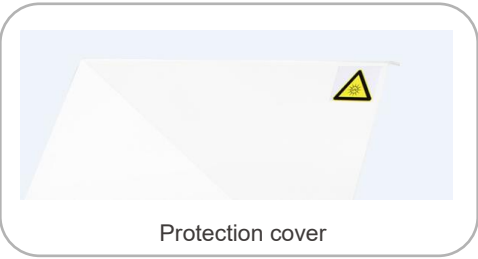
Application

The UV light transilluminator is mainly used for the observation of the results of nucleic acid (DNA/RNA) gel electrophoresis and the gel cutting operation, using different wavelengths of ultraviolet light to detect DNA/RNA electrophoresis gel samples.

Advantage

- 1.UV glue
Special UV filter glass, good permeability, high sensitivity, enhance the ability to capture weak band signals
- 2.Precise sealing structure
Effectively reduce gel contamination and internal damage caused by leakage,standard 302nm UV wavelength lamp
- 3.UV light tube
Reasonable structure design, strong and uniform ultraviolet rays,excellent fluorescence effect
- 4.Cooling fans
Comes with fan cooling device to prolong the service life of the machine
- 5.Protection cover
Can be freely adjusted and positioned within 0°-180° to ensure optimal UV protection
- 6.Power switch
Using high-quality switching power supply,stable and reliable long-term operation

Product Detail



Specification

Model	TI-UV302
Wavelength	302nm(standard); 254nm/354nm(optional)
Input power supply	220V, 50Hz
Power(W)	8Wx6
Observation area(WxL)(mm)	195x145
Sizes (WxDxH)(mm)	335x265x120
Shipping size(WxDxH)(mm)	420x370x210
N.W./G.W. (kg)	5/6.5

PCR Cabinet



PCR Cabinet



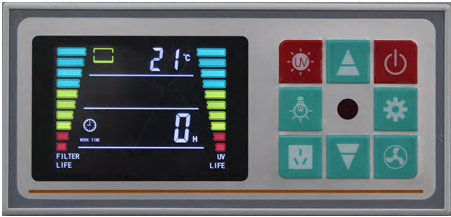
Advantage

- 1.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.
- 2. Variable digital timer that provides UV light exposure continuously or in user-selected increments of 15,30, 60,120 till 999 minutes to deactivate DNA and RNA contaminants.
- 3. Ergonomic Control Panel Location, centered and angled down for an easy reach & viewing.
- 4.The non-direct light source design can effectively relieve the operator's visual fatigue under the condition of ensuring the illumination.
- 5. Brushed stainless steel work surface is for easy cleaning.


Description

PCR cabinet are designed to reduce the risk of contamination while performing Polymerase Chain Reaction (PCR) experiments, it direct HEPA-filtered air downward over the work area to provide ISO Class 5 (formerly Class 100) conditions and protect your work during preparatory procedures and amplifications.


Accessories



LCD Display
(Real-time show the Time, Temperature, UV life and Filter life)



Shelf with IV bar (Stainless Steel)



UV Lamp
(Emission of 253.7 nanometers for most efficient decontamination)



Waterproof Socket



Base stand (Optional)

Humanized design

- 1.Standard Shelves with IV bar
- 2.Memory function in case of power-failure.
- 3.HEPA filter and UV life indicators facilitate a timely replacement plan .
- 4.Easy-to-change pre-filter installed could extend the HEPA filter's life time.
- 5.Equipped with temperature sensor to show the real temperature during operation.
- 6.Waterproof socket provide convenience for small instruments to be used in the operating area.

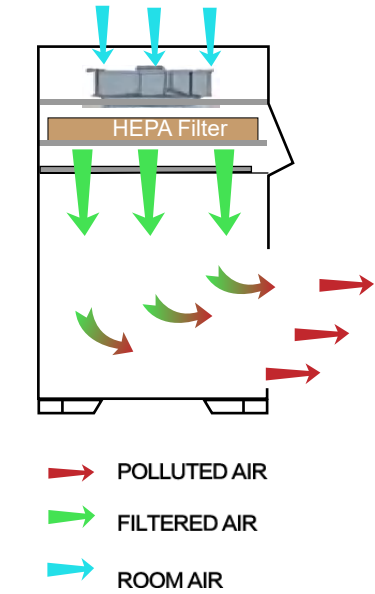
Safety Performance

- 1.Audio and Visual alarm on filter life, UV life etc
- 2.Front sliding sash interlock with fan and UV lamp.
- 3.Front sash and side windows are made of UV-resistant tempered glass.
- 4.The host and sockets have independent capacitors to prevent current overload.

Specification

Model		PCR-1100	PCR-1300	PCR-1600	PCR-1900
External Size (WxDxH)		1050x708x1850mm	1320x708x1850mm	1625x708x1850mm	1930x708x1850mm
Internal Size (WxDxH)		950x615x625mm	1220x615x625mm	1525x615x625mm	1830x615x625mm
Work Surface Height		750mm			
Control System		Microprocessor controller with LCD display, graphical and digital display of the operating status Audio and Visual alarm on filter and UV changing Front sliding sash interlock with fan and UV lamp HEPA filter and UV life indicators facilitate a timely replacement plan			
Air filtration system	Cleanness	ISO Class 5 (formerly Class 100)			
	Airflow Velocity	0.2~0.5 m/s, Speed adjustable,			
	HEPA Filter	1 pcs, Efficiency: > 99.995% at particle size of 0.3 μm			
	Pre-Filter	1 pcs, made of washable polyester fiber			
	Partial air circulation	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.			
Sound Emission		≤62dB(A)			
Illuminating Lamp		LED Type, Illumination ≥900Lx			
UV Decontamination System		With timing function from 0 to 999 minutes Interlock with front sliding sash.			
		Emission of 253.7 nanometers for best sterilization effect.			
Power Consumption		20W*1	30W*1	30W*1	20W*2
		155W	285W	285W	300W
		External devices connected via power socket are not included.			
Cabinet Structure		Main body: Electro-Galvanized steel with antimicrobial powder coating Work zone: 304 Stainless steel, an angled front, rounded work surface front edge Manual front window and Side windows: 5 mm UV resistant tempered glass			
Power Supply		AC220V ±10%, 50/60Hz,1P			
Standard Accessories		Base stand; LED lamp; UV lamp; Waterproof socket×2 (only 1 for PCR-1100); Shelves with IV bar			
Optional Accessories		Water Tap, Gas Tap, Height adjustable base stand			
Gross Weight		225kg	255kg	285kg	330kg
Shipping Size (W×D×H)		1190x990x1325mm	1460x990x1325mm	1765x990x1325mm	2070x990x1325mm
Shipping Volume (m³)		1.56	1.92	2.3	2.7

Airflow Pattern

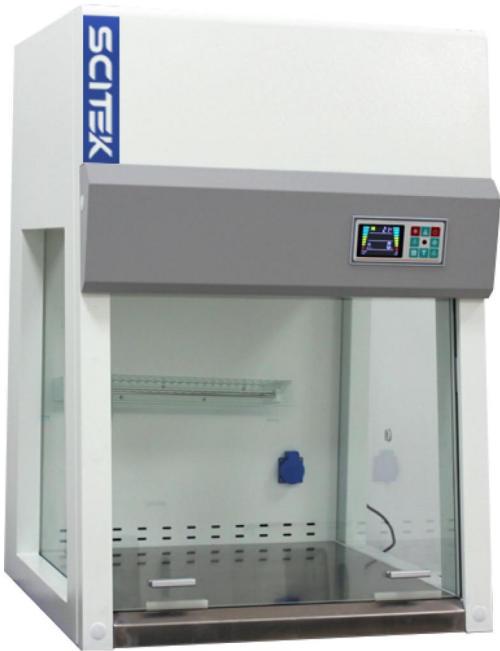


PCR Cabinet

PCR Cabinet



PCR Cabinet



Description

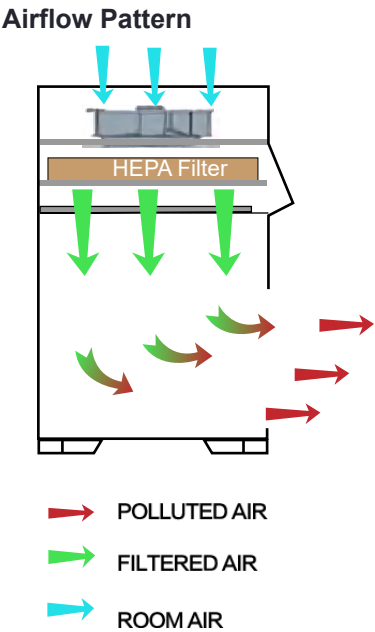
PCR cabinet are designed to reduce the risk of contamination while performing Polymerase Chain Reaction (PCR) experiments, it direct HEPA-filtered air downward over the work area to provide ISO Class 5 (formerly Class 100) conditions and protect your work during preparatory procedures and amplifications.

Safety Performance

- 1.Audio and Visual alarm on filter life, UV life etc
- 2.Front sliding sash interlock with fan and UV lamp.
- 3.Front sash and side windows are made of UV-resistant tempered glass.
- 4.The host and sockets have independent capacitors to prevent current overload.

Humanized design

- 1.Standard Shelves with IV bar
 - 2.Memory function in case of power-failure.
 - 3.HEPA filter and UV life indicators facilitate a timely replacement plan .
 - 4.Easy-to-change pre-filter installed could extend the HEPA filter's life time.
 - 5.Equipped with temperature sensor to show the real temperature during operation.
 - 6.Waterproof socket provide convenience for small instruments to be used in the operating area.
- 1.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.



PCR Cabinet

Accessories

LCD Display
(Real-time show the Time, Temperature, UV life and Filter life)

Waterproof Socket
(Standard with 1pcs socket, it's located in back wall, for optimum convenience of using small device inside the cabinet.)

Shelf with IV bar (Stainless Steel)

UV Lamp
(Emission of 253.7 nanometers for most efficient decontamination)

Base stand (Optional)



Specification

Model		PCR-800
External Size (WxDxH)		710 x 680 x 1050mm (Without Base Stand); 710 x 680 x 1680mm (With Base Stand)
Internal Size (WxDxH)		610x590x625mm
Work Surface Height		750mm
Control System		Microprocessor controller with LCD display, graphical and digital display of the operating status Audio and Visual alarm on filter and UV changing Front sliding sash interlock with fan and UV lamp HEPA filter and UV life indicators facilitate a timely replacement plan
Air filtration system	Cleanness	ISO Class 5 (formerly Class 100)
	Airflow Velocity	0.2~0.5 m/s, Speed adjustable,
	HEPA Filter	1 pcs, Efficiency: > 99.995% at particle size of 0.3 μm
	Pre-Filter	1 pcs, made of washable polyester fiber
Partial air circulation		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.
Sound Emission		≤62dB(A)
Illuminating Lamp		LED Type, Illumination ≥900Lx
UV Decontamination System		With timing function from 0 to 999 minutes
		Interlock with front sliding sash.
		Emission of 253.7 nanometers for best sterilization effect.
Power Consumption		10W*2
Power Consumption		149W (External devices connected via power socket are not included.)
Cabinet Structure		Main body: Electro-Galvanized steel with antimicrobial powder coating
		Work zone: 304 Stainless steel, an angled front, rounded work surface front edge
		Manual front window and Side windows: 5 mm UV resistant tempered glass
Power Supply		AC220V ±10%, 50/60Hz,1P
Standard Accessories		LED lamp; UV lamp*2; Waterproof socket*1; Shelves with IV bar
Optional Accessories		Base stand; Water Tap, Gas Tap, Height adjustable base stand
Net Weight		80kg(Without base stand),130kg(With base stand)
Gross Weight		115kg(Without base stand),165kg(With base stand)
Shipping Size (W×D×H)		920x850x1190mm
Shipping Volume (m³)		0.93

Ducted Fume Hood



Ducted Fume Hood



Description

FMH (DA) series Fume Hood is designed as a negative pressure ventilation system that ensures the safety of operators and the laboratory environment. It works by drawing room air inward through the front opening of the hood and continuously ventilating it with an extraction blower. This prevents the spread of contaminated fumes, vapors, toxic gases, aerosols, and corrosive substances that may be generated during experiments. Furthermore, an optional active carbon filter can purify the polluted air before it is exhausted through the duct, thereby protecting the outdoor environment as well.



Work table (Chemical resistant phenolic resin)



Sash air foil and bypass system on front panel



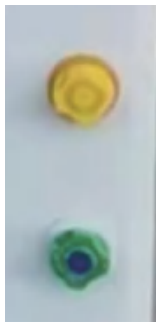
LCD Display



Waterproof Socket



Gas & Water Tap

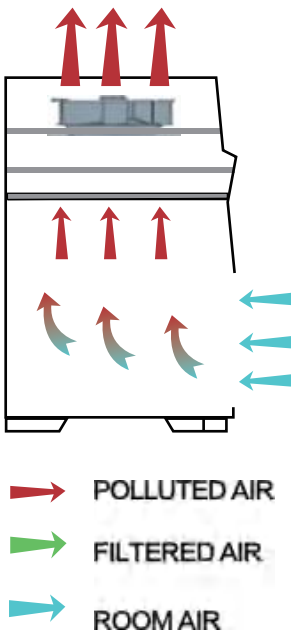


Gas & Water Remote Control

Advantage

- 1. New design, with a liquid collection tank behind the backpanel to collect the waste liquid generated during the experiment and reduce pollution.
- 2. UV lamp for sterilization.
- 3. Resistant to weak acid and alkali.
- 4. Adjustable air speed.
- 5. Motorized front window, height adjustable.
- 6. Microprocessor control system, LCD display.
- 7. Memory function in case of power failure.
- 8. Front panel with bypass Grille, Sash air foil and bypass system achieve function of Air supplement. Meets North American fume hood design standards.

Airflow Pattern



Specification

Model	FMH-1000DA	FMH-1200DA	FMH-1500DA	FMH-1800DA
External Size (WxDxH)	1040x800x2200mm	1240x800x2200mm	1540x800x2200mm	1840x800x2200mm
Internal Size (WxDxH)	820x670x730mm	1020x670x730mm	1320x670x730mm	1620x670x730mm
Work Surface Height	850mm			
Max Opening	520mm			
Air Velocity	0.3~0.8m/s			
Sound Emission	≤68dB			
Exhaust Duct	PVC, Standard length: 4 meters. Φ300mm			
LED Lamp	8Wx1	12Wx1	16Wx1	12Wx1
UV Lamp	Emission of 253.7 nanometers for most efficient decontamination			
Blower	Built-in centrifugal blower; Speed adjustable.			
Front Window	5mm toughened glass; Motorized; Height adjustable.			
Power Supply	AC220±10%, 50/60Hz; 110V±10%, 60Hz			
Consumption	400W	400W	500W	500W
Material	Exterior: Cold-rolled steel with anti-bacteria powder coating.			
	Interior: Compact laminate board with good acid and alkali resistance function			
Standard Accessory	Work Table: Chemical resistant phenolic resin			
	UV lamp x2, LED lamp, Water tap, Gas tap, Water sink, Base cabinet; 2pc waterproof sockets 10m PVC aluminum foil composite exhaust duct, pipe strap x2 (Duct is retractable and can be cut freely)			
Optional Accessory	Active carbon filter /HEPA filter			
Gross Weight	286kg	317kg	350kg	400kg
Shipping Size (WxDxH)	Main Body	1190x990x1690 mm	1390x990x1690 mm	1690x990x1690 mm
	Base Cabinet	1190x990x900mm	1390x990x900mm	1690x990x900mm
Shipping Volume (m³)	3.1	3.6	4.3	5.1

Ducted Fume Hood

Class II A2 Biological Safety Cabinet



Biological Safety Cabinet



LCD touch screen
(Real-time monitoring and display front window status/Ve-locity/Pressure, Date/Time/Tempera-ture/filter and UV lamp life/System working status etc.)



Foot Switch (Standard)



Gas Tap (Optional)



Water Tap (Optional)



Removable work zone, 304 Stainless steel.
(Easy to pull out, convenient for cleaning and disinfection.)

Advantage

- 1.Standard with high precision Air Velocity sensor.
- 2.UV sterilization function and timing function can be set by appointment.
- 3.With memory function in case of power-failure.
- 4.Audio and visual alarm (Abnormal airflow velocity, HEPA filter failure, UV lamp failure, Front window at unsafe height).
- 5. Interlock function: UV lamp and front window; UV lamp and blower, LED lamp; blower and front window.
- 6. Work area surrounded by negative pressure, prevent leakage,improve Biosafety.
- 7. Foot switch: adjust front window height, to avoid airflow turbulence caused by arm movement.

Technical Specifications

Model	BSC-IIA2-1500	BSC-IIA2-2000
External Size (W×D×H) mm	1500x750x2250mm	1940x790x2130mm
Internal Size (W×D×H) mm	1350x600x600mm	1850x625x575mm
Tested Opening	Safety Height 200mm (8")	
Max.Opening	440mm	
Airflow System	70% air recirculation, 30% air exhaust	
Downflow Velocity	0.33±0.025m/s	
Inflow Velocity	0.53±0.025m/s	
Total Air Exhaust	500m³/h	705m³/h
Filter Specification	Two, HEPA filter, ≥99.995% efficiency at 0.3 μm	
Supply HEPA Filter Size(mm)	1380x470x69	1880x495x69
Exhaust HEPA Filter Size(mm)	920x420x69	1420x420x69
Cleanliness Grade	Class 100 (ISO14644.1 Class 5)	
Display	Full color 7.0-inch touch screen	
Front Window	Motorized, Tempered Glass	
LED Lamp	16Wx2	
UV Lamp	40Wx1	
Rated Consumption	1800W	2200W
Illumination	Average Illuminance≥650 lx, the measured value of each illuminance≥ 430 lx	
Sound Emission	≤67db	
Vibration Semi-peak Value	≤5μm	
Power Supply	AC220V±20, 50Hz; 110V, 60HZ (Optional)	
Material	External Main Body:Cold rolling steel electrostatic spraying exterior Work Surface: 304 stainless steel	
Standard Accessories	1.Base stand; 2.Air Velocity sensor; 3.HEPA filter; 4.Full color 7.0-inch touch screen; 5.LED lamp; 6.UV lamp; 7.Waterprof socket; 8.Motorized Front window; 9.Caster; 10.Foot Switch	
Optional Accessories	1.Gas tap; 2.Water tap; 3.IV bar with hooks	
Net Weight	320kg	401kg
Gross Weight	400kg	461kg
Shipping Size(W×D×H)(mm)	1630x880x2380	2070x920x2260
Shipping Volume (m3)	3.5	4.4

Biological Safety Cabinet

Hotplate Magnetic Stirrer, HMS-PA



Advantage

- Digital control, High-resolution LCD display.
- The external temperature control with an accuracy of $\pm 0.2^{\circ}\text{C}$ can be achieved by connecting a temperature sensor (PT1000).
- Brushless DC motor enables more powerful speed control.
- Three heating modes: Fast heating, standard heating and stable heating.
- RS232 interface: Remote PC control and data transmission.



Specification

Model	HMS-PA
Work plate size	$\phi 135\text{ mm}$ (5 inch)
Work plate material	Aluminum
Motor type	Brushless DC motor
Heating temperature range	Room temp.- 340°C ,
increment	1°C
Temperature display accuracy	$\pm 0.1^{\circ}\text{C}$
Speed range	100-1500rpm resolution $\pm 1\text{rpm}$
Max. stirring quantity (H ₂ O)	20L
Speed display	LCD
Temperature display	LCD
Max. magnetic bar (length)	80mm
Temperature control accuracy	$\pm 1^{\circ}\text{C}$ ($< 100^{\circ}\text{C}$) $\pm 1\%$ ($> 100^{\circ}\text{C}$)
External temperature sensor	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)
Permissible ambient temperature and humidity	$5\text{--}40^{\circ}\text{C}$; 80%RH
Over temperature protection	420°C
"Hot" warning	50°C
Data connector	RS232
Protection class	IP21
Heating power	600w
Power	650w
Motor rating input	18w
Motor rating output	10w
Power supply	100~120/200-240V 50/60Hz
External Size (W×D×H)(mm)	280×160×100
Shipping Size (W×D×H)(mm)	470×250×240
N.W./G.W. (kg)	2.8/4

Hotplate Magnetic Stirrer, HMS-S



Advantage

- Maintenance free brushless DC motor.
- Max. temperature to 340°C .
- Stirring speed up to 1500 rpm.
- Overheating protection.



Specification

Model	HMS-S
Work plate size	$\phi 135\text{mm}$ (5 inch)
Work plate material	stainless steel cover with ceramic
Motor type	Brushless DC motor
Stirring positions	1
Max. stirring quantity (H ₂ O)	20L
Max. magnetic bar (length)	80mm
Speed range	0-1500rpm resolution $\pm 1\text{rpm}$
Speed display	Scale
Temperature display	Scale
Heating temperature range	Room temp.- 340°C
Temperature control accuracy	–
Over temperature protection	420°C
Temperature display accuracy	$\pm 0.5^{\circ}\text{C}$
External temperature sensor	–
Hot warning	–
Timer function	–
Data connector	–
Protection class	IP42
Motor rating input	18W
Motor rating output	10W
Power	530W
Heating output	500W
Permissible ambient temperature and humidity	$5\text{--}40^{\circ}\text{C}$, 80%RH
Power supply	100-120/200-240V 50/60Hz
External Size (W×D×H)(mm)	160×280×85
Shipping Size (W×D×H)(mm)	470×250×240
N.W./G.W. (kg)	2.8/3.5

**Application:**

1. 6.5-inch LED screen with concise and friendly-use interface.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. It supports wireless bluetooth printing. Real-time data transfer to mobile phone via bluetooth is optional.
4. Smart electrode status display to ensure accurate use.
5. Adopt advanced conductivity measurement technology, with conductivity electrode (K=1), it can meet measuring accuracy requirement for range of 0.5 μ S/cm ~ 200mS/cm.
6. Ability to switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full range.
7. Omron long lasting and light touch key can be used more than 100,000 times.
8. Auto recognition of 25 buffers with three kinds of options: Europe & USA, NIST and China. Auto recognition of 8 conductivity standard solution with 2 kinds of options: Europe & USA, and China.
9. Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.

Specifications:

Model	PHC-B904	
pH	Measurement range	(-1.999 ~ 19.999)pH
	Resolution	0.1/0.01 pH

	Accuracy	Electrode: ± 0.02 pH
	Input current	$\leq 1 \times 10^{-12}$ A
	Input impedance	$\geq 3 \times 10^{12} \Omega$
	Stability	± 0.02 pH/3h
	Temperature compensation	(0 ~ 100)°C, auto or manual
mV	Measurement range	(-1999.9 ~ 0 ~ 1999.9) mV
	Resolution	0.1 mV
	Accuracy	$\pm 0.03\%$ FS
Conductivity	Measuring range	Conductivity:
		(0.00~20.00) μ S/cm
		(20.0~200.0) μ S/cm
		(200~2000) μ S/cm
		(2.00~20.00)mS/cm
		(20.0~200.0)mS/cm
		(200~2000)mS/cm(K=10)
		TDS:(0 ~ 100)g/L
		Salinity:(0 ~ 100)ppt
		Resistivity:(0 ~ 100)M Ω ·cm
	Resolution	0.01/0.1/1 μ S/cm; 0.01/0.1/1mS/cm
	Accuracy	Electrode: $\pm 0.5\%$ FS, Meter: $\pm 0.8\%$ FS
	Temp. compensation range	(0 ~ 50)°C, auto
	Electrode constant	0.1/0.5/1/5/10/50/100 cm ⁻¹
	Reference Temp.	25°C、20°C、18°C
Temperature	Range	(-10 ~ 110)°C
	Resolution	0.1°C
	Accuracy	5 ~ 60°C: $\pm 0.4^\circ\text{C}$ Others: $\pm 0.8^\circ\text{C}$
Other Parameters	Display	6.5-inch LED screen
	Data storage	1000 sets
	Power	12V (110-220, 50-60Hz adapter)
	Communication interface	USB, RS232, Bluetooth
	Dimensions &	240×170×70mm/600g



	Weight	
Working Conditions	Temperature	5 ~ 35 °C
	Humidity	≤80%
	IP grade	IP54
Meter Kits	1) pH & Conductivity Meter	
	2) Electrode holder	
	3) pH composite electrode	
	4) Conductivity electrode (K=1)	
	5) Temperature probe	
	6) pH buffer solution	
	7) Power adapter	
External Size	215x170x40mm	
Shipping Size	475x430x75mm	
Net /GrossWeight(kg)	0.6/3	

Homogenizer



Application:

D-160 can be used in bio-pharmaceuticals, genetic research, tissue destruction, fragmentation, cytoplasmization, pathological analysis, nano-material dispersion, polymerization, ink coatings, fine chemicals, pesticides, prospecting, environmental protection, energy and other fields.

Features:

- * Lightweight design, handheld and can be operated with one hand.
- * The application of different dispersing heads is suitable for liquid samples of 0.1-250ml.
- * High-quality 316L stainless steel dispersing head, corrosion-resistant, high-temperature sterilization.
- * The dispersing head is easy to disassemble and clean; high-speed and high-efficiency motor.
- * The speed is adjustable in 10 gears, and the speed range: 8000-32000rpm.

Components of Dispersing Shaft:



Optional Accessories:

Cat. No.	Combination Stator + Rotor	Model	Working Volume (ml)	Diameter of Stator	Diameter of Rotor	Min. / Max. Immersion Depth	Application
18900113	DS-160/5	HG-160	0.1~50	5mm	3mm	7/50mm	Small amounts of solid-liquid mixtures
18900114	DS-160/10		1~250	10mm	6mm	10/120mm	

Technical Parameters:

Model	HG-160
Item No.	8014111000
Recommended Configuration	Package 1: D160 drive, H370 Stand, DS-160/5 shaft, volumes from 0.1-50ml Package 2: D160 drive, H370 Stand, DS-160/10 shaft, volumes from 1-250ml
Speed Range	8000-32000rpm
Max. Circum. Speed	6.3-14m/s
Speed Control	10 stage
Working Volume (H ₂ O)	0.1-50ml (Dispersing shaft DS-160/5) 1-250ml (Dispersing shaft DS-160/10)
Max. Viscosity	5000mPa·s
Material of Dispersing Shaft	SS316 & PTFE seal ring
Noise	≤72dB
Ambient Temp.	0-40°C
Relative Humidity	85%RH
Protection Type	IP20
Consumption	160W
Motor Type	AC carbon brush motor
Power Supply	AC110/220V±10%, 50/60Hz(Customizable)
Standard Accessory	Base stand + DS-160/5 dispersing shaft Or Base stand + DS-160/10 dispersing shaft
External Size(W*D*H)	45*55*190 mm
Package Size (W*D*H)	470*240*250mm
Gross Weight	4kg

Deionized Water Purifier, WP-SD series



Water Purifier



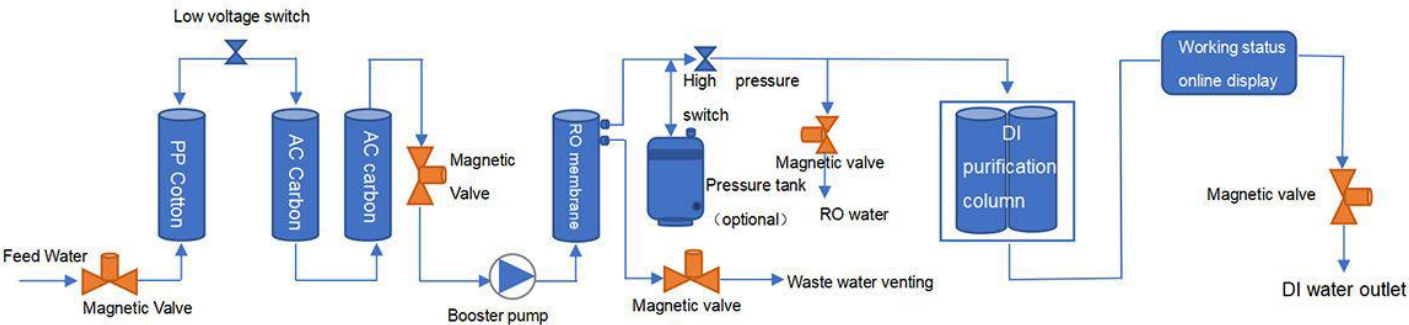
Application

Preposition unit of ultra pure water system, supply water for biochemical analyzer, electroplating painting, battery charging, chips washing, microbial culture media, chemical&biochemical reagent preparation, buffer making, photographic film processing, stability test chamber, meteorological test equipment, hydrogen generator, battery adding liquid and other instruments water supply. It can completely replace the traditional single-steam, double-steam and triple-distilled water machines

Description

- 1.Korean appearance, exquisite and slim, small size, can be inside lab cabinet.
- 2.Quick-insert filters make replacement easy and convenient.
- 3.Design of exposed filter cartridges make consumables replaced easily.
- 4.Microcomputer automatically control, backlight LED large LCD screen.
- 5.Visualized operating status, real-time display flushing, water making, water full&lack and maintenance status, with sound and light alarm function
- 6. Transparent window, simple&graceful, detachable panel, convenient maintenance.
- 7.Newest environmentally friendly materials, with a portable test pen.

Filter Process



- 1.First stage: PP cotton (PPF filter with a pore size of 5 microns), Preliminary filtration of raw water to remove coarser particles, colloids, suspended solids, etc. in the water.
- 2.Second stage: Granular activated carbon, high-efficiency adsorption of odor, color, organic matter, and heavy metals in water.
- 3.Third stage: Compressed activated carbon, further remove residual chlorine, organic compounds, color, odor, turbidity, etc.
- 4.The fourth stage: RO reverse osmosis membrane, 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- 5.The fifth stage: Deionization purification column × 2, remove most of the heavy metals and trace elements in the water, and the water quality meets the national laboratory water first-grade water standard.

Specification

Model	WP-S10D	WP-S20D	WP-S30D
Deionized water quality	Resistivity 10-16MΩ-cm@25℃ higher than laboratory-level I water standard		
Working pressure	0.1-0.5Mpa		
Water Output	10L/H (25℃)	20L/H (25℃)	30L/H (25℃)
Rated daily water	100 L/day	/	/
Conductivity	≦ 0.1μs/cm		
Ammonia	≦ 0.3ug/ml		
Nitrate	≦ 0.06ug/ml		
TDS (RO Water)	<10ppm		
Outlet 2	RO water, deionized water		
Power supply	220V 50/60Hz	220V, 50/60Hz	220V, 50/60Hz
Consumption	48W		
Standard configuration	Main machine (with 1 set of consumable filters) + Accessory Package		
External Size(W×D×H)(mm)	360x200x400		
Shipping Size(W×D×H)(mm)	490x330x540		
N.W./G.W. (kg)	15/25		

Automatic Bullet Ice Maker



Automatic Bullet Ice Maker

Application

Automatic bullet ice makers are commonly used in commercial , research and residential settings for the purpose of producing ice quickly and efficiently.

Colleges and universities, scientific research institutes,

Pharmaceutical and chemical industry, gold mining, food processing, petroleum exploration, medical care and other industry units.

Restaurants, hotels, nightclubs, bars and other places.



Advantage

- 1.Featuring a elegant all-stainless steel design,surface is easy to clean, and resists oil sticking.
- 2.Advanced micro-computer control system, operates intelligent-ly and automatically throughout the entire ice-making process.
- 3.Designed with energy-saving, boasts high efficiency and stability. It produces and removes ice faster, saving time and water while using one-third less electricity than similar products.
- 4.Equipped with a scientifically configured condensation and temperature system, can operate effectively in a variety of ambient temperatures.
- 5.Long-term ice-making performance testing and monitoring before the factory, to ensure excellent product performance.

Reliability



Different indications: water shortage, ice full, fault indicates.



High-efficiency insulation, the ice storage space is made of food-grade standard PP material.



All-stainless steel design,surface is easy to clean, and resists oil sticking.



Full intelligent control:

The ice maker automatically detects the working process of water intake, ice filling, and automatic ice making, without special operations.



Energy-saving design, high efficiency and stability, saving one third of electricity than similar products.

Specification



Model	BIM-25	BIM-50	BIM-80	BIM-120
Ice Making Capacity(kg / 24h)	25	50	80	120
Ice Storage(kg)	7	14	25	50
Ice Type	Cylindrical block ice			
Cooling Mode	Forced-air cooling			
Refrigerant	R290(CFC Free)			
Electricity	AC110 / 220V±10%, 50 / 60Hz			
Consumption (W)	240	380	580	760
Size (WxDxH) (mm)	398x542x682	400x510x825	500x612x900	680x610x1050
Shipping Size (WxDxH) (mm)	520x660x800	520x630x940	610x720x1020	920x790x1210

Automatic Bullet Ice Maker

Constant Temperature Shaking Incubator(Benchtop)



Constant Temperature Shaking Incubator(Benchtop)

Constant Temperature Shaking Incubator(Benchtop)



ICB-20BS&ICB-50BS



ICB-80S



ICB-80SI

Advantage

- Integrated design combining an incubator and shaker, maximizing space efficiency and cost savings.
- Non-volatile memory feature preserves settings during power outages.
- Automatic restart function restores the unit to its original programming once power is restored

Specification

Model		ICB-20BS	ICB-50BS	ICB-80S	ICB-80SI
Volume(L)		18	48	100	
Circulation		Forced convection			
Shake Mode		Convolution			
Orbit Diameter(mm)		Φ26 0(to do staticculture),20~300			
Cyclotron	Range	0(to do static culture),40~300			
	(rpm/min)				
Frequency	Resolution	±1			
	(rpm)				
Temperature	Range (℃)	RT+5~60	RT+5~60	10~60	RT-15~60(ambient temp-15)
	Fluctuation (℃)	≤0.1(37 ℃)			
	Resolution (℃)	± 0.1			
	Uniformity (℃)	± 1(37 ℃)			
Size	External	440x410x390	600x580x510	832x690x653	780x750x570
	(mm)				
(WxDxH)	Internal	320x295x190	440x405x270	480x450x320	480x450x320
	(mm)				
Flask Clamp	Max. Capacity	50mlx12 or100mlx9 or	50mlx20 or100mlx16	100mlx20 or250mlx16	100mlx20 or 250mlx16 or
		250mlx9	or250mlx12 or 500mlx9	or 500mlx12or 1000ml	500mlx12 or 1000mlx5
	Standard			x5 or 2000mlx4	or 2000mlx4
	Capacity	100mlx9	50mlx4 or100mlx4 or250mlx3	50mlx5 or100mlx5 or	50mlx5 or100mlx5 or
			or500mlx3	250mlx4 or500mlx3	250mlx4 or500mlx3
Controller		PID Microcomputer			
Control Mode		Fixed value mode , static mode			
Display		Large high definition LCD			
Timer		1~9999min (Or continuous operation)			
Refrigerant		/	/	R134a (CFC free)	
Defrosting Mode		/	/	Automatic	
Safety Device		Self-diagnosis ; visible& audible over temperature ,abnormal status alarm , leakage protector			
Electricity	Voltage/	AC 220/110V, 50/60Hz			
	Frequency(V/Hz)				
	Consumption (W)	220	320	580	580
N.W./G.W. (kg)		31/41	72/88	81/113	81/113
Shipping Size (WxDxH) (mm)		580x530x540	740x700x660	900x860x760	900x860x760
Optional		7 inches touch screen, USB data storage download processing system,humidity real-time monitoring ,various flask clamps,universal spring clamp			

-25°C Upright Freezer



Specification

Model		FZ-25V280W	FZ-25V360	FZ-25V530	FZ-25V1000	RFZ-25V300	RFZ-25V370
Capacity (L)		278	358	528	936	R: 198 F: 102	R: 183 F: 185
Size (WxDxH)	Internal (mm)	480x415x1460	466x636x625	(651x631.5x635)x2	1000x700x1335	R: 565x480x759 F: 461x465x600	R: 580x626x625 F: 466x636x625
	External (mm)	659x600x1694	720x830x1870	900x818x1875	1304x1000x2017	650x620x1980	720x830x1870
Temperature	Range at RT. 10 ~ 32°C	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C	F: -10 ~ -25°C R: 2 ~ 8°C	F: -10 ~ -25°C R: 2 ~ 8°C
	Sensor	NTC	NTC	NTC	PTC	NTC	NTC
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling System	Refrigerant(CFC Free)	R290	R290	R290	R404A	R290	R600a &R290
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Compressor (Qty)	DONPER / 1	CUBIGELN / 2	MEIZHI / 2	SECOP / 2	China Brand / 2	China Brand / 2
Display		Digital display	Digital display	Digital display	Digital display	Digital display	Digital display
Audible& Visible Alarm	High / Low temp	Standard	Standard	Standard	Standard	Standard	Standard
	High ambient temp	/	Standard	Standard	Standard	/	Standard
	Sensor error	Standard	Standard	Standard	Standard	Standard	Standard
	Abnormal voltage	/	/	/	Standard	/	/
	Door ajar	Standard	Standard	Standard	Standard	Standard	Standard
	Power failure backup system(alarm)	/	8h	8h	72h	8h	8h
Material	Internal	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Stainless steel, grade 304	Engineering plastics	SPCC sprayed steel
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	SPCC sprayed steel	SPCC sprayed steel
Accessories	USB port	/	Standard	Standard	Standard	/	Standard
	Casters	Standard	Standard	Standard	Standard	Standard	Standard
	Data logger	Optional	Optional	Optional	Optional	Optional	Optional
	Remote alarm port	/	Standard	Standard	Standard	/	Standard
	Test hole(Qty)	1 / ø25mm	2 / ø25mm	2 / 25	1 / 18	/	2 / 25
Shelves / Drawers (Qty)		Drawers / 7	Shelves/4 , Drawers/12	Shelves/4 , Drawers/18	Shelves/3	Shelves/2 , Drawers/3	Shelves/2 , Drawers 6
Sound Emission (dB)		46	49	55	50	49	50
Electricity	Voltage / Frequency	AC110/220V ± 10% , 50/60Hz	AC110/220V ± 10% , 50/60Hz	AC 110/220V ± 10% , 50/60Hz	AC 110/220V ± 10% , 50/60Hz	AC110/220V±10% , 50/60Hz	AC 110/220V ± 10% , 50/60Hz
	Consumption (W)	180	310	260	1000	349	300
N.W. / G.W. (kg)		105 / 115	138/178	160 / 180	378 / 413	100 / 120	130 / 170
Shipping Size (WxDxH) (mm)		710x678x1770	780x920x1990	921x960x1950	1350x1080x2150	720x695x2015	775x920x1990

Standard Electric-heating Water Distiller



Standard Electric-heating Water Distiller



Description

This electric-heating water distiller is an efficient and convenient electrically-heated water production unit that removes impurities, ions, and other substances from water by steam condensation, providing a high-purity water source.

All models of this type of H2O lab water distiller are made of high-quality stainless steel, which is corrosion-resistant and ensures water purity and the machine's durability. The condensing coil construction makes it effective in cooling.

Advantage

- 1.The evaporative cooling water return drum reduces water consumption and improves water efficiency.
- 2.The Bleeder valve discharges condensate from the barrel and improves scaling conditions.
- 3.Effectively removes various contaminants, including heavy metals, bacteria, viruses, dissolved solids and other impurities to produce high-quality pure water.
- 4.Available in different sizes, offering different capacities to suit different needs.

Specification

Model	WD-5	WD-10	WD-20
Water Output	≥5L/h	≥10L/h	≥20L/h
Power Supply	AC 220V,50/60Hz	AC 380V,50/60Hz	AC 380V,50/60Hz
Power(kW)	4.5	7.5	15
Shipping size(WxDxH)(mm)	370x280x800	450x320x920	530x380x820
N.W./G.W. (kg)	5/9	8/12	11.5/16

Stainless Steel Electric-heating Water Distiller



Stainless Steel Electric-heating Water Distiller



Description

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Advantage

- 1. The evaporative cooling water return drum reduces water consumption and improves water efficiency.
- 2.The Bleeder valve discharges condensate from the barrel and improves scaling conditions.
- 3.Effectively removes various contaminants, including heavy metals, bacteria, viruses, dissolved solids and other impurities to produce high-quality pure water.
- 4.This electric-heating water distiller has an automatic shut-off function that stops the distillation process once the water level drops below a certain point or when the distillation cycle is complete. This improves safety and prevents overheating.
- 5.Available in different sizes, offering different capacities to suit different needs.

Specification

Model	WD-5I	WD-10I	WD-20I
Water Output	≥5L/h	≥10L/h	≥20L/h
Power Supply	AC 220/110V,50/60Hz	AC 380/220V,50/60Hz	AC 380/220V,50/60Hz
Power(kW)	5	7.5	15
Inlet diameter (mm)	φ10		
Distilled water outlet diameter (mm)	φ12		
Outlet diameter(mm)	φ12		
Overfall gap diameter(mm)	φ16		
Dimensions(DxH)(mm)	310x700	355x820	415x917
Shipping size(WxDxH)(mm)	350x360x740	380x380x740	460x410x790
N.W./G.W. (kg)	5/8	6.2/9	8.5/12

-25°C Upright Freezer



-25°C Upright Freezer



Advantage

- Temperature range: -5~-25℃ , adjustable
- Defrost:Manual
- Refrigerant:Mixed with CFC free
- PTC sensorr

- 1.Microcomputer control, real-time temperature display, tempera-
ture with 0.1℃ increment .
- 2.High and low temperature alarm function, alarm temperature
value can be set as required.
- 3.Inner chamber temperature is adjustable; Alarm temperature
could be customized as requirements.
- 4.Built in adjustable stainless steel shelf, easy to use and to clean.
- 5.Food grade stainless steel inner chamber, safe and secure.
- 6.Heavy duty caster design, easy to move.
- 7.Safety door lock is designed to prevent random opening.
- 8.Wide voltage band design, suitable for 187V ~ 242V AC voltage.

Reliability



Audible and visible alarm: high and low temperature & sensor erroralarm.



Multiple protection functions: frequent start-up protection, refrigeration system keeps running in case of sensor failure



-25°C Upright Freezer

Specification

Model		FZ-25V410	FZ-25V610	FZ-25V710
Capacity (L)		408	608	708
Size (WxDxH)	Internal (mm)	550x630x1140	700x680x1255	850x735x1170
	External (mm)	850x960x1860	940x980x1920	1090x1010x1860
Temperature	Range at RT. 10 ~ 32℃	-5~-25℃ adjustable	-5~-25℃ adjustable	-5~-25℃ adjustable
	Sensor	PTC	PTC	PTC
	Controller	Microprocessor	Microprocessor	Microprocessor
Cooling Stystem	Refrigerant	Mixed-gas (CFC Free)	Mixed-gas (CFC Free)	Mixed-gas (CFC Free)
	Defrost	Manual	Manual	Manual
	Compressor (Qty)	SECOP/2	SECOP/2	SECOP/2
Display		LED	LED	LED
Audible &Visible Alarm	High/Low temp	Standard	Standard	Standard
	Abnormal voltage	Optional(LCD)	Optional(LCD)	Optional(LCD)
	Sensor error	Standard	Standard	Standard
	Condenser dirty blockage	Optional(LCD)	Optional(LCD)	Optional(LCD)
	Low battery	Optional(LCD)	Optional(LCD)	Optional(LCD)
	Power failure backup	Optional(LCD)	Optional(LCD)	Optional(LCD)
	Door ajar	Optional(LCD)	Optional(LCD)	Optional(LCD)
Material	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	Inner door	304 stainless steelStandard	304 stainless steelStandard	304 stainless steelStandard
Accessories	Casters	Standard	Standard	Standard
	Temp recorder	Optional	Optional	Optional
	Test hole(Qty)	1/ ø18mm	1/ ø18mm	1/ ø18mm
Shelves / Drawers (Qty)		Shelves / 3	Shelves / 3	Shelves / 3
Sound Emission (dB)		60	60	60
Electricity	Voltage/Frequency	220V , 50/60Hz;110V,60Hz420	220V , 50/60Hz;110V,60Hz	220V , 50/60Hz;110V,60Hz
	Consumption (W)	350	720	760
N.W. / G.W. (kg)		200/230	265/295	285/315
Shipping Size (WxDxH) (mm)		930x1060x2010	1020x1080x2070	1170x1110x2010
x Optional (LCD)		These alarm functions are only available when the LCD screen is selected.		

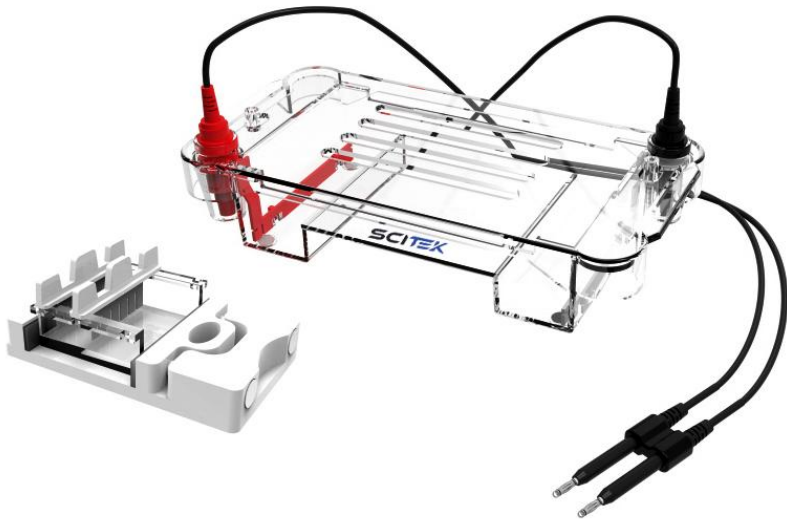
Horizontal Electrophoresis Tank



Multi-functional Horizontal Electrophoresis Tank



Horizontal Electrophoresis Tank



Application

This product is suitable for rapid separation, identification, preparation of DNA and determination of its molecular weight.

Advantage

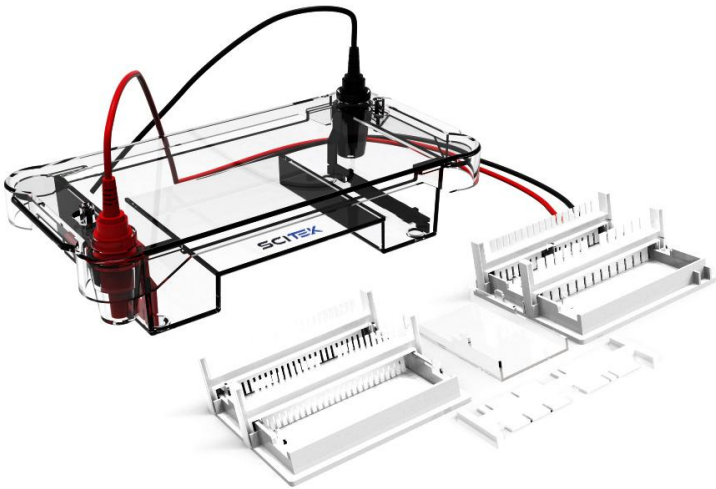
1, The product is made of an imported high-strength transparent material through a one-time injection molding to ensure product quality and durability.

- 2, The upper cover adopts an open-hole design, which is conducive to heat dissipation and allows users to observe the internal experimental situation.
- 3, It is equipped with a unique elastic compression-type gel maker, which prevents the gel from remaining on the tray, making the preparation process simpler, safer and faster.
- 4, The product is designed with removable electrodes, which is convenient for cleaning and maintenance and ensures the long-term stability and reliability of the equipment.
- 5, At the same time, using 99.99% high-purity platinum electrode wire greatly improved its conductivity and corrosion resistance to ensure the accuracy and durability of the experimental process. These characteristics make the product important in the laboratory, providing users with a convenient and reliable practical environment.

Specification

Model	ET-H01
Gel tray(W×L)(mm)	75×60
Gel thickness	1&1.5mm
Sample comb	6,11samples
Number of samples	6~22pcs
Buffer capacity	300ml
Sizes (W×D×H)(mm)	180×90×70
Shipping size(W×D×H)(mm)	310×310×220
N.W./G.W. (kg)	1/2

Standard Accessories		
Name	Specification	Quantity
Main body groove (upper cover)		1
Main tank (lower tank)		1
Electrode	Positive pole	1
	Negative pole	1
Glue maker		1
Tray		1
Sample comb	1.0mm 6 samples	2
	1.0mm 11 samples	2
	1.5mm 6 samples	2
	1.5mm 11 samples	2
Wireway		1



Application

This product is suitable for nucleic acid electrophoresis, separation and identification of DNA, and determination of its molecular weight.

Advantage

- 1, The product is made of an imported high-strength transparent material through a one-time injection molding to ensure product quality and durability.
- 2, The upper cover adopts an open-hole design, which is conducive to heat dissipation and allows users to observe the internal experimental situation.
- 3, It is equipped with a unique elastic compression-type gel maker, which prevents the gel from remaining on the tray, making the preparation process simpler, safer and faster.
- 4, The product is designed with removable electrodes, which is convenient for cleaning and maintenance and ensures the long-term stability and reliability of the equipment.
- 5, At the same time, using 99.99% high-purity platinum electrode wire greatly improved its conductivity and corrosion resistance to ensure the accuracy and durability of the experimental process. These characteristics make the product important in the laboratory, providing users with a convenient and reliable practical environment.

Specification

Model	ET-H02
Gel tray(W×L)(mm)	120×120, 120×60, 60×120, 60×60
Gel thickness	1&1.5mm
Sample comb	2+3, 6+13, 8+18,11+25 samples
Number of samples	2~50pcs
Buffer capacity	700ml
Sizes (W×D×H)(mm)	270×140×80
Shipping size(W×D×H)(mm)	420×380×290
N.W./G.W. (kg)	1/2

Standard Accessories		
Name	Specification	Quantity
Main body groove (upper cover)		1
Main tank (lower tank)		1
Electrode	Positive pole (red)	1
	Negative electrode (black)	1
Glue maker	Big	1
	Fission	1
Large tray	120×120	1
Middle tray	120×60	1
	60×120	1
Small tray	60×60	2
Sample comb	2/3 samples	1
	6/13 samples	2
	8/18 samples	2
	1/25th samples	2
Wireway		1

Multi-functional Horizontal Electrophoresis Tank

Electrophoresis Power Supply (Basic Power supply for Western blot experiment)



Description

This electrophoresis power supply is stability and reliability. The overall design of the power supply adopts advanced microcomputer control to ensure stable and reliable performance. Its excellent stability, lightweight, and good heat dissipation enhance service life.

Advantage

- 1.Exquisite appearance, ergonomic design, tight and durable. Silicone rubber operating buttons are comfortable and durable.
- 2.It is made of high-strength materials, better corrosion resistance, and anti-aging performance.
- 3.New flame retardant material, in line with international standards.
- 4.The equipment has powerful functions but is easy to operate and can automatically detect and report various fault phenomena.
- 5.The number of settings is simple and fast, and it can take four identical electrophoresis tanks at a time, with the function of switching between constant voltage and constant current at will and the function of timing from 0 to 999 minutes.
- 6.It is suitable for different input voltages worldwide and supports many electrophoresis experiments, such as horizontal, vertical, and blotting transfer.

Specification

Model	EPS-300
Accuracy	±1mA
Error	±1V
Timing	1-999min (adjustable)
Output voltage	10-300V (continuously adjustable)
Output current	4-400mA (continuously adjustable)
Output	75W (max)
Shipping size(W×D×H)(mm)	320×310×200
N.W./G.W. (kg)	1/2

Electrophoresis Power Supply (Power supply for Nucleic acid level experiment)



Advantage

- 1.Suitable for SSR, nucleofection, transfer, protein, bidirectional, isoelectric point focusing, and other electrophoresis experiments.
- 2.A high current can connect four electrophoresis tanks at the same time
- 3.Constant current, constant pressure and constant power are continuously adjustable to ensure stable and reliable performance of the equipment.
- 4.10 programs can be edited and saved and can run each program in 10 steps.
- 5.Over-current, over-load, over-temperature, no-load, short-circuit, and sudden load change protection functions.
- 6.Suitable for different input voltages worldwide and supports many kinds of electrophoresis experiments such as horizontal, vertical and blot transfer.
- 7.7-inch large touch screen automatically generates a numeric keypad when setting and displays a clock, temperature, operation status and various prompts for operation.
- 8.When constant voltage, current and power in a certain indicator, the other two automatically rise to the maximum value without human adjustment.

Specification

Model	EPS-600C
Parallel output	4 groups
Timing	1 minute~99 hours and 59 minutes
Testing temperature	-20 ℃ ~+85 ℃
Input range	110-250V is suitable for different countries and regions
Output range	5-600V(1V), 1-600mA(1mA),5-300W (1W)
Output range	Constant voltage, constant current and constant power are continuously adjustable, stable and reliable
Resolution	voltage (1V), current (1mA) and power (1W)
Sizes (W×D×H)(mm)	300×300×130
Shipping size(W×D×H)(mm)	470X450X290
N.W./G.W. (kg)	2.5/4.5

Horizontal Electrophoresis Tank

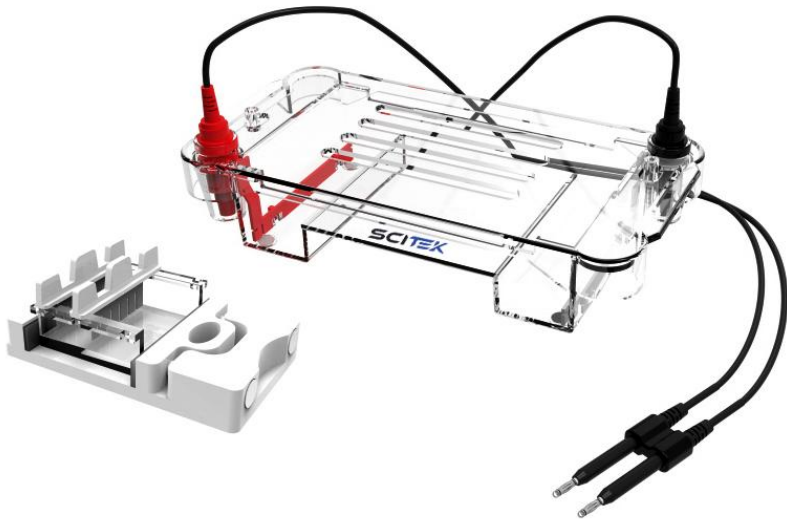


Multi-functional Horizontal Electrophoresis Tank



Horizontal Electrophoresis Tank

Multi-functional Horizontal Electrophoresis Tank



Application

This product is suitable for rapid separation, identification, preparation of DNA and determination of its molecular weight.

Advantage

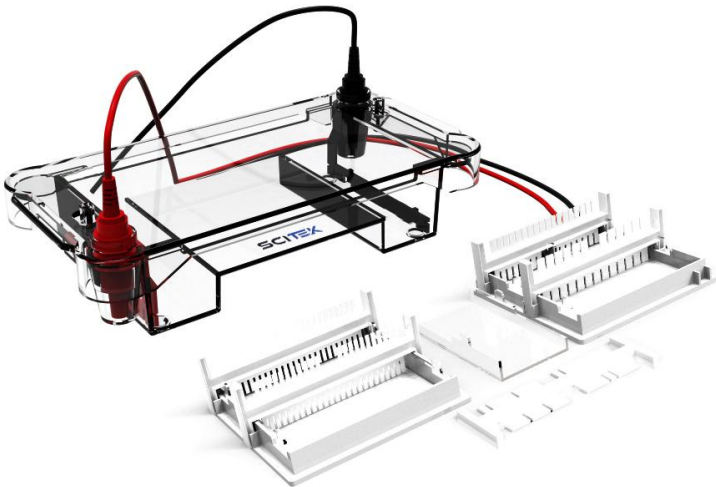
1, The product is made of an imported high-strength transparent material through a one-time injection molding to ensure product quality and durability.

- 2, The upper cover adopts an open-hole design, which is conducive to heat dissipation and allows users to observe the internal experimental situation.
- 3, It is equipped with a unique elastic compression-type gel maker, which prevents the gel from remaining on the tray, making the preparation process simpler, safer and faster.
- 4, The product is designed with removable electrodes, which is convenient for cleaning and maintenance and ensures the long-term stability and reliability of the equipment.
- 5, At the same time, using 99.99% high-purity platinum electrode wire greatly improved its conductivity and corrosion resistance to ensure the accuracy and durability of the experimental process. These characteristics make the product important in the laboratory, providing users with a convenient and reliable practical environment.

Specification

Model	ET-H01
Gel tray(W×L)(mm)	75×60
Gel thickness	1&1.5mm
Sample comb	6,11samples
Number of samples	6~22pcs
Buffer capacity	300ml
Sizes (W×D×H)(mm)	180×90×70
Shipping size(W×D×H)(mm)	310×310×220
N.W./G.W. (kg)	1/2

Standard Accessories		
Name	Specification	Quantity
Main body groove (upper cover)		1
Main tank (lower tank)		1
Electrode	Positive pole	1
	Negative pole	1
Glue maker		1
Tray		1
Sample comb	1.0mm 6 samples	2
	1.0mm 11 samples	2
	1.5mm 6 samples	2
	1.5mm 11 samples	2
Wireway		1



Application

This product is suitable for nucleic acid electrophoresis, separation and identification of DNA, and determination of its molecular weight.

Advantage

- 1, The product is made of an imported high-strength transparent material through a one-time injection molding to ensure product quality and durability.
- 2, The upper cover adopts an open-hole design, which is conducive to heat dissipation and allows users to observe the internal experimental situation.

- 3, It is equipped with a unique elastic compression-type gel maker, which prevents the gel from remaining on the tray, making the preparation process simpler, safer and faster.
- 4, The product is designed with removable electrodes, which is convenient for cleaning and maintenance and ensures the long-term stability and reliability of the equipment.
- 5, At the same time, using 99.99% high-purity platinum electrode wire greatly improved its conductivity and corrosion resistance to ensure the accuracy and durability of the experimental process. These characteristics make the product important in the laboratory, providing users with a convenient and reliable practical environment.

Specification

Model	ET-H02
Gel tray(W×L)(mm)	120×120, 120×60, 60×120, 60×60
Gel thickness	1&1.5mm
Sample comb	2+3, 6+13, 8+18,11+25 samples
Number of samples	2~50pcs
Buffer capacity	700ml
Sizes (W×D×H)(mm)	270×140×80
Shipping size(W×D×H)(mm)	420×380×290
N.W./G.W. (kg)	1/2

Standard Accessories		
Name	Specification	Quantity
Main body groove (upper cover)		1
Main tank (lower tank)		1
Electrode	Positive pole (red)	1
	Negative electrode (black)	1
Glue maker	Big	1
	Fission	1
Large tray	120×120	1
Middle tray	120×60	1
	60×120	1
Small tray	60×60	2
Sample comb	2/3 samples	1
	6/13 samples	2
	8/18 samples	2
	1/25th samples	2
Wireway		1

Electrophoresis Power Supply (Basic Power supply for Western blot experiment)



Description

This electrophoresis power supply is stability and reliability. The overall design of the power supply adopts advanced microcomputer control to ensure stable and reliable performance. Its excellent stability, lightweight, and good heat dissipation enhance service life.

Advantage

- 1.Exquisite appearance, ergonomic design, tight and durable. Silicone rubber operating buttons are comfortable and durable.
- 2.It is made of high-strength materials, better corrosion resistance, and anti-aging performance.
- 3.New flame retardant material, in line with international standards.
- 4.The equipment has powerful functions but is easy to operate and can automatically detect and report various fault phenomena.
- 5.The number of settings is simple and fast, and it can take four identical electrophoresis tanks at a time, with the function of switching between constant voltage and constant current at will and the function of timing from 0 to 999 minutes.
- 6.It is suitable for different input voltages worldwide and supports many electrophoresis experiments, such as horizontal, vertical, and blotting transfer.

Specification

Model	EPS-300
Accuracy	±1mA
Error	±1V
Timing	1-999min (adjustable)
Output voltage	10-300V (continuously adjustable)
Output current	4-400mA (continuously adjustable)
Output	75W (max)
Shipping size(W×D×H)(mm)	320×310×200
N.W./G.W. (kg)	1/2

Electrophoresis Power Supply (Power supply for Nucleic acid level experiment)



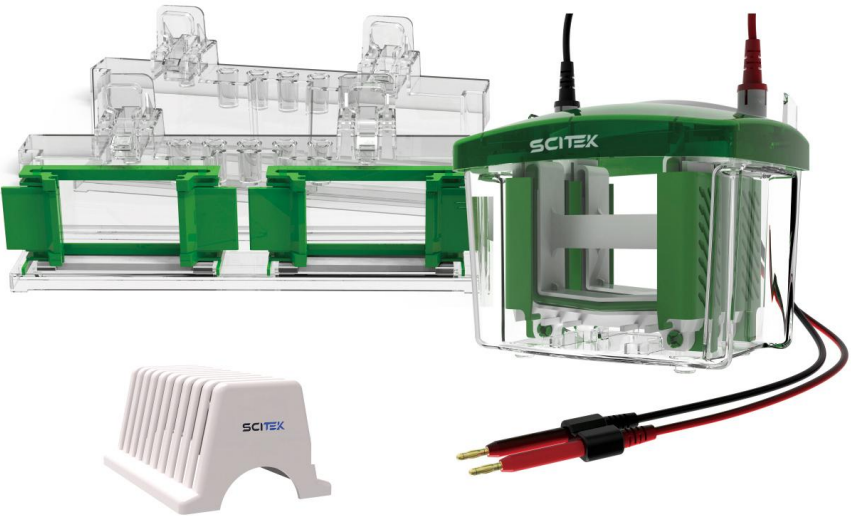
Advantage

- 1.Suitable for SSR, nucleofection, transfer, protein, bidirectional, isoelectric point focusing, and other electrophoresis experiments.
- 2.A high current can connect four electrophoresis tanks at the same time
- 3.Constant current, constant pressure and constant power are continuously adjustable to ensure stable and reliable performance of the equipment.
- 4.10 programs can be edited and saved and can run each program in 10 steps.
- 5.Over-current, over-load, over-temperature, no-load, short-circuit, and sudden load change protection functions.
- 6.Suitable for different input voltages worldwide and supports many kinds of electrophoresis experiments such as horizontal, vertical and blot transfer.
- 7.7-inch large touch screen automatically generates a numeric keypad when setting and displays a clock, temperature, operation status and various prompts for operation.
- 8.When constant voltage, current and power in a certain indicator, the other two automatically rise to the maximum value without human adjustment.

Specification

Model	EPS-600C
Parallel output	4 groups
Timing	1 minute~99 hours and 59 minutes
Testing temperature	-20 ℃ ~+85 ℃
Input range	110-250V is suitable for different countries and regions
Output range	5-600V(1V), 1-600mA(1mA),5-300W (1W)
Output range	Constant voltage, constant current and constant power are continuously adjustable, stable and reliable
Resolution	voltage (1V), current (1mA) and power (1W)
Sizes (W×D×H)(mm)	300×300×130
Shipping size(W×D×H)(mm)	470X450X290
N.W./G.W. (kg)	2.5/4.5

Vertical Electrophoresis Tank



Application

This product is a device for vertical electrophoresis of a small number of accounting and protein samples.

Advantage

- 1.High-strength, highly transparent material injection moulding provides excellent physical strength and durability, better structural stability and compressive strength.
- 2.Transparent appearance design is simple and beautiful, and adopts special glue making rack, easy and reliable glue making operation.

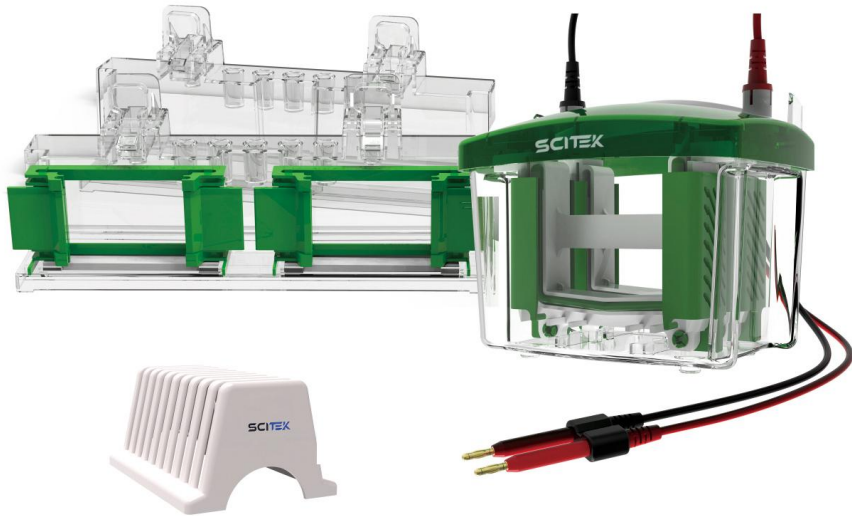
- 3.The integrated design of glass gasket avoids glue leakage and ensures the sealing performance of electrophoresis equipment.
- 4.Flat plate instead of concave plate, not easy to be damaged and low price.
- 5.High purity platinum electrode, greatly improve the conductivity and corrosion resistance.
- 6.Limit function of the upper cover ensures that the polarity of the electrode will not be wrongly connected.

Specification

Model	ET-V01
Glass tray(W×L)(mm)	Thick type: 101×83
	Thin type: 101×73
Gel tray(W×L)(mm)	Hand glue: 83×73
	Precast glue: 86×68
Sample comb	10, 15 samples
Number of gels	1-2 pcs
Gel thickness	Standard 1.0mm, optional 0.75 & 1.5mm
Number of samples	10~30pcs
Buffer Capacity	700ml
Sizes (W×D×H)(mm)	150×120×130
Shipping size(W×D×H)(mm)	420×370×320
N.W./G.W. (kg)	1.5/4

Standard Accessories	
Name	Quantity
Electrophoresis tank	1
Cap	1
Electrode core	1
Gel casting base	2
Gel frame	2
Single glue baffle	1
Gel shovel	1
Glass plates	5 pairs
1.0mm thickness 10 wells comb	2
1.0mm thickness 15 wells comb	2

Vertical Electrophoresis Tank



Application

This product is ideal for subject research, screening new samples, and evaluating sample preparation conditions.

Advantage

- 1.Completes 4 mini-gel electrophoresis experiments in one hour, increasing efficiency or meeting specific experimental needs.
- 2.Edge banding is permanently attached to the glass plate to ensure precise alignment and prevent gel leakage.

- 3.Special material electrophoresis comb does not inhibit gel polymerization reaction
- 4.Built-in ridges avoid air contact, thus reducing the formation of oxidized film and improving the success and reproducibility of experiments.
- 5.A parallel arrangement of the filling frames allows for simultaneous visibility of the two gels being filled, with spring-loaded rods and rubber gaskets providing a good seal.
- 6.Gel frames with cams ensure precise alignment on any horizontal plane.

Specification

Model	ET-V04
Glass tray(W×L)(mm)	Thick type: 101×83
	Thin type: 101×73
Gel tray(W×L)(mm)	Hand glue: 83×73
	Precast glue: 86×68
Sample comb	10 samples
Number of gels	1-4 pcs
Gel thickness	Standard 1.0mm, optional 0.75 & 1.5mm
Number of samples	10~40pcs
Buffer capacity	1000ml
Sizes (W×D×H)(mm)	180×130×130
Shipping size(W×D×H)(mm)	420×370×320
N.W./G.W. (kg)	2.9/5

Standard Accessories	
Name	Quantity
Electrophoresis tank	1
Cap	1
Electrode core	1
Gel casting base	2
Gel frame	4
Single glue baffle	1
Gel shovel	1
Glass plates	5 pairs
1.0mm thickness 10 wells comb	5

Electrophoresis Power Supply (Basic Power supply for Western blot experiment)



Description

This electrophoresis power supply is stability and reliability. The overall design of the power supply adopts advanced microcomputer control to ensure stable and reliable performance. Its excellent stability, lightweight, and good heat dissipation enhance service life.

Advantage

- 1.Exquisite appearance, ergonomic design, tight and durable. Silicone rubber operating buttons are comfortable and durable.
- 2.It is made of high-strength materials, better corrosion resistance, and anti-aging performance.
- 3.New flame retardant material, in line with international standards.
- 4.The equipment has powerful functions but is easy to operate and can automatically detect and report various fault phenomena.
- 5.The number of settings is simple and fast, and it can take four identical electrophoresis tanks at a time, with the function of switching between constant voltage and constant current at will and the function of timing from 0 to 999 minutes.
- 6.It is suitable for different input voltages worldwide and supports many electrophoresis experiments, such as horizontal, vertical, and blotting transfer.

Specification

Model	EPS-300
Accuracy	±1mA
Error	±1V
Timing	1-999min (adjustable)
Output voltage	10-300V (continuously adjustable)
Output current	4-400mA (continuously adjustable)
Output	75W (max)
Shipping size(W×D×H)(mm)	320×310×200
N.W./G.W. (kg)	1/2

Electrophoresis Power Supply (Power supply for Nucleic acid level experiment)



Advantage

- 1.Suitable for SSR, nucleofection, transfer, protein, bidirectional, isoelectric point focusing, and other electrophoresis experiments.
- 2.A high current can connect four electrophoresis tanks at the same time
- 3.Constant current, constant pressure and constant power are continuously adjustable to ensure stable and reliable performance of the equipment.
- 4.10 programs can be edited and saved and can run each program in 10 steps.
- 5.Over-current, over-load, over-temperature, no-load, short-circuit, and sudden load change protection functions.
- 6.Suitable for different input voltages worldwide and supports many kinds of electrophoresis experiments such as horizontal, vertical and blot transfer.
- 7.7-inch large touch screen automatically generates a numeric keypad when setting and displays a clock, temperature, operation status and various prompts for operation.
- 8.When constant voltage, current and power in a certain indicator, the other two automatically rise to the maximum value without human adjustment.

Specification

Model	EPS-600C
Parallel output	4 groups
Timing	1 minute~99 hours and 59 minutes
Testing temperature	-20 ℃ ~+85 ℃
Input range	110-250V is suitable for different countries and regions
Output range	5-600V(1V), 1-600mA(1mA),5-300W (1W)
Output range	Constant voltage, constant current and constant power are continuously adjustable, stable and reliable
Resolution	voltage (1V), current (1mA) and power (1W)
Sizes (W×D×H)(mm)	300×300×130
Shipping size(W×D×H)(mm)	470X450X290
N.W./G.W. (kg)	2.5/4.5

0.01g Electronic Analytical Balance

(External Calibration), BA-HTP series



Advantage

- Unit conversion (g/ct/oz/lb).
- High accuracy resistance strain gauge sensor.
- LED display.
- ABS shell/Windscreen cover. (Detachable)
- Stainless steel weighing pan.
- Tare/counting.
- Overload and Error indication function.
- With Level indicator/adjustable leveling foot.
- Optional RS232 interface, support to connect with printer and PC.



Specification

Model	BA-E3126HTP	BA-E31210HTP	BA-E31220HTP
Capacity	600g	1000g	2000g
Readability	0.01g		
Calibration	External Calibration		
Calibration weight	500g	500g	500g
Scale Pan Size	Φ128mm		
Stable Time	≤5s		
Linearity error	±0.03g		
Preheating Time	15min		
Working Temperature	5~40℃		
Power supply	AC 220/110V, 50/60Hz		
Optional Accessory	RS232 interface		
External Size (W*D*H)	250×190×156mm		
Shipping Size (W*D*H)	310×240×150mm		
Net Weight	1.2kg		
Gross Weight	2.3kg		

0.1g Electronic Balance, BA-HTP series



Advantage

- Unit conversion (g/ct/oz/lb).
- High accuracy resistance strain gauge sensor.
- LED display.
- Aluminum base.
- ABS shell
- Stainless steel weighing pan.
- Tare/counting.
- Overload and Error indication function.
- With Level indicator/adjustable leveling foot.
- Optional RS232 interface, support to connect with printer and PC.



Specification

Model	BA-31212HTP	BA-31220HTP	BA-31230HTP	BA-31260HTP	BA-312100HTP
Capacity	1200g	2000g	3000g	6000g	10kg
Readability	0.1g				
Calibration	External Calibration				
Scale Pan Size	175×175mm				
Stable Time	≤5s				
Linearity error	±0.3g				
Preheating Time	15min				
Working Temperature	5~40℃				
Power supply	AC 220/110V, 50/60Hz				
Optional Accessory	RS232 interface				
External Size (W*D*H)	250×190×66mm				
Shipping Size (W*D*H)	310×240×150mm				
Net Weight	1.2kg				
Gross Weight	2.3kg				

0.0001g Electronic Analytical Balance



(External Calibration)

Advantage

- High accuracy electromagnetic force sensor.
- LCD display.
- Aluminum base.
- ABS shell/extra-large glass windscreen cover. (Detachable)
- Stainless steel weighing pan.
- Tare/counting.
- Unit conversion (ct/g).
- Overload and Error indication function.
- With Level indicator/adjustable leveling foot.
- Standard with RS232 interface, support to connect with printer and PC.



Specification

Model	BA-E1004	BA-E1204	BA-E2004	BA-E2204	BA-E3004	BA-E3204
Capacity	100g	120g	200g	220g	300g	320g
Readability	0.0001g					
Calibration	External Calibration					
Calibration weight	100g					
Scale Pan Size	Ø80mm					
Stable Time	≤5s					
Linearity error	±0.0003g					
Preheating Time	30min					
Working Temperature	15~25 °C					
Power supply	AC 220/110V, 50/60Hz					
Optional Accessory	Printer					
External Size (W*D*H)	360×205×330mm					
Shipping Size (W*D*H)	500×350×480mm					
Net Weight	6.5kg					
Gross Weight	7.6kg					

0.0001g Electronic Analytical Balance



(External Calibration)

Advantage

- Automatic Internal Calibration.
- High accuracy electromagnetic force sensor.
- LCD display.
- Aluminum base.
- ABS shell/extra-large glass windscreen cover. (Detachable)
- Stainless steel weighing pan.
- Tare/counting.
- Unit conversion (ct/g).
- Overload and Error indication function.
- With Level indicator/adjustable leveling foot.
- Standard with RS232 interface, support to connect with printer and PC.



Specification

Model	BA-I1004N	BA-I2004N	BA-I3004N
Capacity	100g	200g	300g
Readability	0.0001g		
Calibration	Automatic Internal Calibration		
Calibration weight	100g	200g	
Scale Pan Size	Ø80mm		
Stable Time	≤8s		
Linearity error	±0.0003g		
Preheating Time	30min		
Working Temperature	15~25 °C		
Power supply	AC 220/110V, 50/60Hz		
Optional Accessory	Printer		
External Size (W*D*H)	360×205×330mm		
Shipping Size (W*D*H)	500×350×480mm		
Net Weight	6.5kg		
Gross Weight	7.6kg		

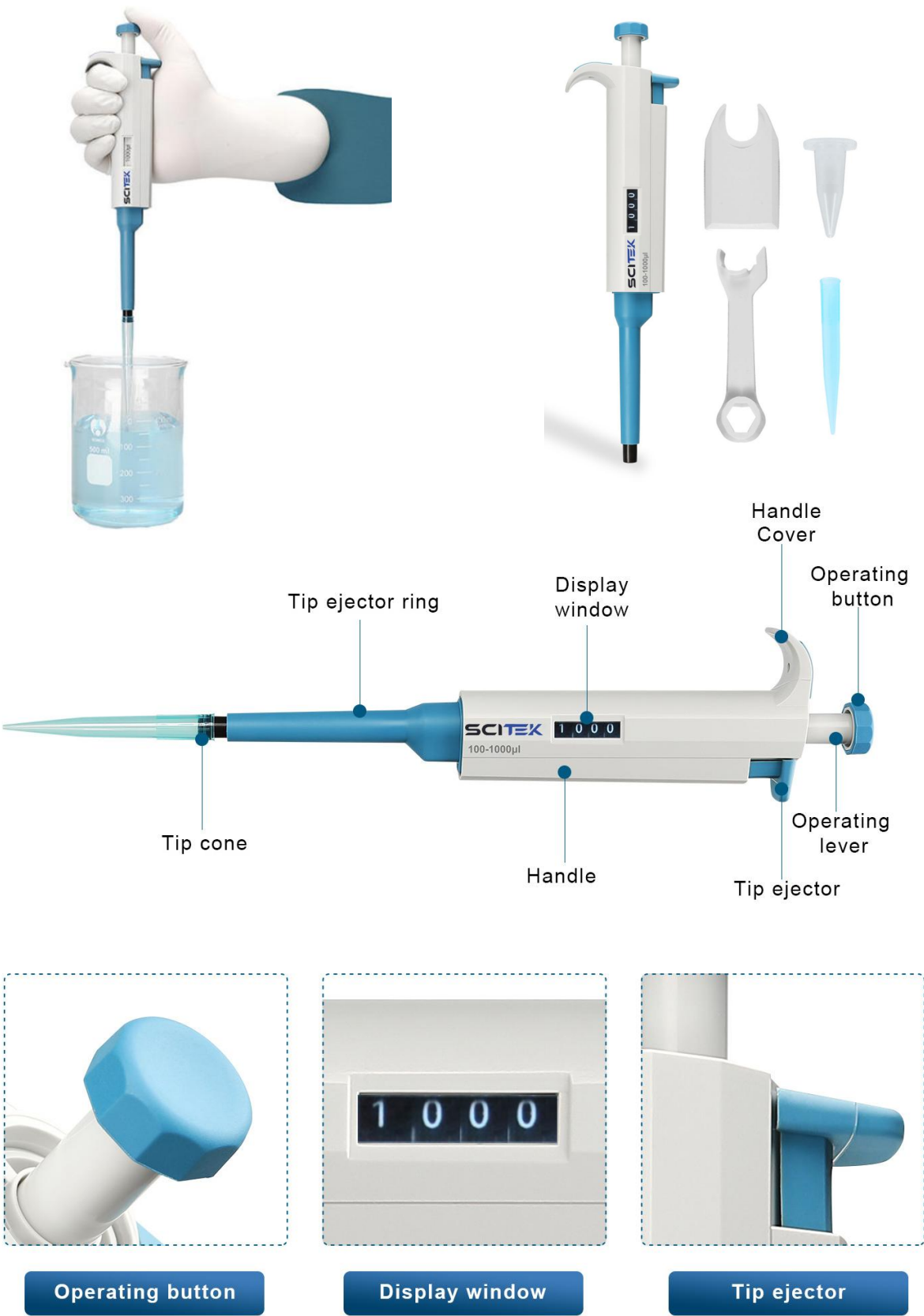
Mechanical Pipette

Single-channel, Adjustable Volume,MP-SA series



Mechanical Pipette

Mechanical Pipette



Specification

Volume Range	Increment	Test Volume	(Accuracy error)		(Precision error)	
			%	μL	%	μL
0.1-2.5μL	0.05μL	2.5μL	0.025	0.0625	0.02	0.05
		1.25μL	0.03	0.0375	0.03	0.0375
		0.25μL	0.12	0.03	0.06	0.015
		10μL	0.01	0.1	0.008	0.08
0.5-10μL	0.1μL	5μL	0.015	0.075	0.015	0.075
		1μL	0.025	0.025	0.015	0.015
		20μL	0.009	0.18	0.004	0.08
2-20μL	0.5μL	10μL	0.012	0.12	0.01	0.1
		2μL	0.03	0.06	0.02	0.04
		50μL	0.006	0.3	0.003	0.15
5-50μL	0.5μL	25μL	0.009	0.225	0.006	0.15
		5μL	0.02	0.1	0.02	0.1
		100μL	0.008	0.8	0.0015	0.15
10-100μL	1μL	50μL	0.01	0.5	0.004	0.2
		10μL	0.03	0.3	0.015	0.15
		200μL	0.006	1.2	0.0015	0.3
20-200μL	1μL	100μL	0.008	0.8	0.003	0.3
		20μL	0.03	0.6	0.01	0.2
		200μL	0.006	1.2	0.0015	0.3
50-200μL	1μL	100μL	0.008	0.8	0.003	0.3
		50μL	0.01	0.5	0.004	0.2
		1000μL	0.006	6	0.002	2
100-1000μL	5μL	500μL	0.007	3.5	0.0025	1.25
		100μL	0.02	2	0.007	0.7
		1000μL	0.006	6	0.002	2
200-1000μL	5μL	500μL	0.007	3.5	0.0025	1.25
		200μL	0.009	1.8	0.003	0.6
		5000μL	0.005	25	0.0015	7.5
1000-5000μL	50μL	2500μL	0.006	15	0.003	7.5
		1000μL	0.007	7	0.003	3
		10mL	0.006	60	0.002	20
2-10mL	0.1mL	5mL	0.012	60	0.003	15
		2mL	0.03	60	0.006	12

Mechanical Pipette

Eight-channel, Adjustable Volume,MP-EA series



Mechanical Pipette

Specification

MP-EA 8-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	(Accuracy error)		(Precision error)	
			%	µL	%	µL
0.5-10µL	0.1µL	10µL	0.015	0.15	0.015	0.15
		5µL	0.025	0.125	0.025	0.125
		1µL	0.04	0.04	0.04	0.04
5-50µL	0.5µL	50µL	0.01	0.5	0.005	0.25
		25µL	0.015	0.375	0.01	0.25
		5µL	0.03	0.15	0.02	0.1
50-300µL	5µL	300µL	0.007	2.1	0.0025	0.75
		150µL	0.01	1.5	0.005	0.75
		50µL	0.015	0.75	0.008	0.4

Mechanical Pipette

Twelve-channel, Adjustable Volume,MP-TA series



Mechanical Pipette

Specification

MP-TA 12-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	(Accuracy error)		(Precision error)	
			%	µL	%	µL
0.5-10µL	0.1µL	10µL	0.015	0.15	0.015	0.15
		5µL	0.025	0.125	0.025	0.125
		1µL	0.04	0.04	0.04	0.04
		50µL	0.01	0.5	0.005	0.25
5-50µL	0.5µL	25µL	0.015	0.375	0.01	0.25
		5µL	0.03	0.15	0.02	0.1
		300µL	0.007	2.1	0.0025	0.75
50-300µL	5µL	150µL	0.01	1.5	0.005	0.75
		50µL	0.015	0.75	0.008	0.4

Digital Burette



Features

- High quality motor with excellent precision and accuracy
- Electronic control provides fatigue-free operation
- Remote control panel prevents manual disturbance during operation
- Built-in magnetic stirrer for a complete and easy operation
- Large LCD display parameters

Specification

Model	DB-dTrite
Volume Range	0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL
Volume Accuracy	R=0.2% CV=0.07%
Velocity	16 stages Operating
Temperature Range	10℃ -30℃
Quality Control	DIN EN ISO 8655
Control Type	External control, including the stirrer and the burette program
Sizes(W×D×H)(mm)	225x185x120
Shipping size	300x240x220
(W×D×H)(mm)	
N.W./G.W. (kg)	1.5/1.7



DB-dTrite

Features

- Motor controlled digital,fatigue free operation
- High quality stepper motor provides smooth and accurate dispensing
- Adjustable aspiration and dispensing speed
- Reagent recovery feature minimizes waste
- TFT display module for simple volume selection and control
- Two operation modes:continuous dispenser or stepper

Specification

Model	BTD-dFlow
Volume Range	0.1-99.9mL, Max piston lift is 10mL, resolution is 100μL
Volume Accuracy	Dispenser: R = 10mL ±30μL; CV = 10ml ±10μL Stepper: R = 1mL ±6μL; CV = 1ML ±9μL
Operating Temperature Range	10℃ -30℃
Quality Control	DIN EN ISO 8655
Control Type	External control
Sizes(W×D×H)(mm)	225x185x120
Shipping size(W×D×H)(mm)	300x240x220
N.W./G.W. (kg)	1.4/1.5



BTD-dFlow

Vacuum Aspiration System



Specification

Model	VAS-SAF
Vacuum range	0-600 mbar
Size(W×D×H)	180mm×240mm×450mm
Aspirating speed	1-15mL/S
Autoclave component	tube; waste bottle; operation handle;
Noise level	≤55dB
Input voltage	100-240VAC, 50/60 Hz
Bottle volume	4L
Sizes (W×D×H)(mm)	570x420x220
Shipping size (W×D×H)(mm)	590x440x240
N.W./G.W. (kg)	3/4



VAS-SAF

- Compact, user-friendly design
- Level detection system prevents bottle overflow
- Control knob for vacuum setting
- The parts in contact with liquids are autoclavable
- Easy to disassemble and clean
- Continuous mode
- Ideal tool to avoid lab air contamination and protect personnel safety
- Adjustable vacuum level with indicator light is designed for various applications

Specification

Model	VAS-Eco
Vacuum range	0-500 mbar
Aspirating speed	15L/min (air)
Flow rate (liquid)	17mL/s
Bottle	2L Standard, 1L Optional
Motor type	Brushless Motor
Input voltage	100-220VAC, 50/60Hz
Sizes(W×D×H)(mm)	560x420x220
Shipping size(W×D×H)(mm)	580x440x240
N.W./G.W. (kg)	3/4



VAS-Eco

Economic UV-VIS Spectrophotometer



Advantage

- 1.The large sample chamber can accommodate 5-100mm cuvettes.
- 2.Can be directly connected to a special printer (optional) to print data.
- 3.All key components are imported with original equipment to ensure the accuracy and precision of measurement.
- 4.Digital display of measurement value.
- 5.The instrument adopts the latest microcomputer processing technology and is easy to operate.
- 6Automatic light gate ensures the service life of the photoelectric sensor and makes instrument testing easier.

Description

This UV-VIS spectrophotometer finds extensive applications across various sectors, including but not limited to medicine and health-care, clinical testing, biochemistry, petrochemical industry, environmental protection, quality control, judicial criminal investigation, inspection, quarantine, forestry, geological exploration, and food testing. It stands as an essential analytical tool utilized in physical and chemical laboratories for a range of purposes.

Specification

Model	SP-UV752E	SP-UV752N
Wavelength Repeatability	1nm	
Bandwidth	5nm	4nm
Photometric Accuracy	0.5%T	
Photometric Repeatability	0.2%T	
Photometric Range	0-200%T, -3-3A	
Drift	≤0.2%T	
Baseline Straightness	±0.004A/h@500nm	±0.002A/h@500nm
Noise	100%≤0.3%T	
Stability	±0.004A/h@500nm	±0.002A/h@500nm
Way of Working	T,A,C	
Display Range	0-200%T, -0.3-3A	
Display	4-digit LCD LED display	
Wavelength Driver	Manual	
Printer (Interface)	Thermal printer (parallel port) option	
Energy (Light Source)	Imported tungsten lamp, imported deuterium lamp	
Light Switching Method	Automatic	
Consumption	70W	
Power Supply	AC 220/110V, 50/60Hz	
Shipping Size(WxDxH)(mm)	520×450×300	
N.W./G.W.(kg)	9/11	

-86°C Upright Freezer



-86°C Upright Freezer

Description

-86°C Ultra Low Temperature Freezer are specially designed to store viruses, pathogens, blood cells and other biological sample. Widely used in hospitals, disease control department, research institutions and biomedical engineering.



adjustable shelves



multi-layer silicone seals







-86°C Upright Freezer

Advantage

- 1.High-performance V.I.P. (Vacuum Insulation Panel) insulation panels are used to minimize cabinet heat gain and improve temperature stability.
- 2.Efficient cooling system operates the mixed refrigeration system for rapid and stable cooling, while being energy-saving and easy to maintain.
- 3.The inner door has a unique design that separates storage compartments and minimizes frost buildup inside the chamber.
- 4.Upright door with limit door hinge prevents collision when door opens.
- 5.Lockable universal caster wheels for easy moving.
- 6.Removable inner door for user to defrost and clean.

Reliability

-  Audible&Visible Alarm: High/Low temperature, High ambient temperature, Sensor error, Abnormal voltage
-  Safety password protected control panel prevents unauthorized system modification.
-  USB port for data exporting.
-  Remote alarm available.

Optional

Temperature recorder,frozen racks and frozen boxes ,back up system (CO2 / LN2).

-86°C Upright Freezer



Specification

Model		UFZ-86V60E	UFZ-86V180E	UFZ-86V340E	UFZ-86V410E	UFZ-86V590E	UFZ-86V730E	UFZ-86V840E
Capacity (L)		58	188	340	408	588	728	838
Size (WxDxH)	Internal (mm)	330x453x410	465x465x830	488x607x1140	606x575x1180	606x738x1310	963x571x1350	894x718x1310
	External (mm)	635x757x1212	830x810x1607	854x1006x1907	872x1028x1945	872x1192x1995	1229x1012x1995	1160x1172x1995
Temperature	Range (°C) at RT. 10 ~ 32°C	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
	Sensor	PTC	PTC	PTC	PTC	PTC	PTC	PTC
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling System	Refrigerant	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual	Manual
	Compressor (Qty)	SECOP / 1	CUBIGEL / 1	SECOP / 1	SECOP / 1	SECOP / 2	SECOP / 2	SECOP / 2
Display		Digital display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display
Audible& Visible Alarm	High/Low temperature	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	High ambient temperature	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Sensor error	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Abnormal voltage	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Low battery	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Power failure backup system(alarm)	72h	72h	72h	72h	72h	72h	72h
	Door ajar	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Material	Internal	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	Inner door	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
Accessories	USB port	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Casters	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Chart recorder	/	/	/	/	/	/	/
	Data logger	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Remote alarm port	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Test hole (Qty) / Diameter (mm)	1 / 25	1 / 25	1 / 25	1 / 25	1 / 25	1 / 25	1 / 25
	Back up system (CO ₂ /LN ₂)	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Shelves / Drawers (Qty)		Shelf / 1	Shelves / 2	Shelves / 3	Shelves / 3	Shelves / 3	Shelves / 3	Shelves / 3
Optional Frozen Racks (Qty)	Racks	2(6x2)	9(4x3)	12(4x4)	8(5x4)+8(4x4)	16(5x5)	18(5x4)+6(6x4)	24(5x5)
	Boxes (2 Inches)	24	108	192	288	400	504	600
	Samples (2ml)	2400	10800	19200	28800	40000	50400	60000
Sound Emission (dB)		50	52	52	53	53	53	55
Electricity	Voltage / Frequency	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz	AC110/220V±10%, 50/60Hz
	Consumption (W)	442	660	810	890	1500	1400	1700
N.W. / G.W. (kg)		115 / 155	207 / 222	268 / 288	268 / 293	303 / 332	374 / 394	391 / 424
Shipping Size(WxDxH) (mm)		730x845x1400	915x928x1818	935x1070x2128	954x955x2094	970x1138x2185	1320x970x2185	1270x1100x2185

-86°C Upright Freezer

-86°C Upright Freezer

Biological Microscope Economical series



Biological Microscope Economical series



MSC-BE200E



MSC-BD500E



MSC-BE500E



MSC-BSM500E



MSC-BV500E

Reliability

- Compensation-free binocular head for comfortable viewing and reduced eye fatigue.
- Wide-field eyepiece for a larger field of view and improved clarity.
- Double-layer mechanical stage for precise specimen movement and easy slide manipulation.
- Multiple accessories available for versatile applications and customized experiments.

Specification

Model	MSC-BE200E	MSC-BD500E	MSC-BE500E	MSC-BSM500E	MSC-BV500E
Viewing Head	Compensation free binocular head inclined at 30°	Monocular Head, Inclined at 45°,360° rotatable°	Compensation Free, Binocular Head Inclined at 30°, 360° rotatable	Compensation Free , Trinocular Head, 360° rotatable	Dual viewing head, one tube 30°, inclined and another tube vertical, 360°rotatable
Eyepiece	Wide Field Eyepiece: WF10X, (WF16X optional)				
Achromatic Objectives	4X, 10X, 40X(Spring), 100X(Spring, Oil)				
Stage	Double Layer Mechanical Stage Size 120X125mm				
Condenser	Abbe NA=1.25 with Iris Diaphragm&Filter				
Focusing	Coaxial Coarse and Fine Adjustment, Focusing Range 30mm, Focusing Interval 0.002mm				
Illumination	Halogen Lamp 220V/6V20W or 110V/6V20W; (LED lamp optional) LED(1W) Lamp 220V or 110V, (LED 3W lamp optional)				
Power Supply	AC220/110V±10%, 50/60HZ)				
Shipping Size (W×D×H)(mm)	310x250x445	450x360x240			
G.W. (kg)	4	5			

Note: Trinocular microscope can be installed camera and screen.220/110V for LED lamp

Inverted Microscope



Inverted Microscope



Specifications

Model	MSC-I403
Viewing Head	Trinocular Head Inclined at 45°,Interpupillary Distance 50-75mm
Eyepiece	WF10X/ 20mm
Objective	LWD Plan ObjectiveLWDPL4X\10X\20X\40X
Stage	Double layers mechanical stage, Stage Size: 242mmx 172mm, Central stage: Φ110mm, Moving range: 75mm × 50mm
Condenser	N.A.0.3Abbe condenser W.D .75mm
Focusing	Coaxial coarse&fine focusing adjustment with rack and pinion mechanism Fine focusing scale Value 0.002mm
Phase contrast sliding plate	Center of phase contrast ring plate adjustable
Centering telescope	Centering telescope
Filter	Blue,green, yellow and froster glass
Light source	Halogen bulb12V/30W,Adjustable brightness
*Fluorescence attachment	B.GWave band ,220V(110V)/100W Mercury lamp
*Optional	Photograph connecting tube,adapter with MD or PK mount ,4X photograph eyepiece
Shipping Size (W×D×H)(mm)	770x320x480
G.W. (kg)	20

Biological Microscope Economical series



Biological Microscope Economical series



MSC-BE200E



MSC-BD500E



MSC-BE500E



MSC-BSM500E



MSC-BV500E

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- Double-layer mechanical stage for precise specimen movement and easy slide manipulation.
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Specification

Model	MSC-BE200E	MSC-BD500E	MSC-BE500E	MSC-BSM500E	MSC-BV500E
Viewing Head	Compensation free binocular head inclined at 30°	Monocular Head, Inclined at 45°,360° rotatable°	Compensation Free, Binocular Head Inclined at 30°, 360° rotatable	Compensation Free , Trinocular Head, 360° rotatable	Dual viewing head, one tube 30°, inclined and another tube vertical, 360°rotatable
Eyepiece	Wide Field Eyepiece: WF10X, (WF16X optional)				
Achromatic Objectives	4X, 10X, 40X(Spring), 100X(Spring, Oil)				
Stage	Double Layer Mechanical Stage Size 120X125mm				
Condenser	Abbe NA=1.25 with Iris Diaphragm&Filter				
Focusing	Coaxial Coarse and Fine Adjustment, Focusing Range 30mm, Focusing Interval 0.002mm				
Illumination	Halogen Lamp 220V/6V20W or 110V/6V20W; (LED lamp optional) LED(1W) Lamp 220V or 110V, (LED 3W lamp optional)				
Power Supply	AC220/110V±10%, 50/60HZ)				
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Centering telescope	Centering telescope
Filter	Blue,green, yellow and froster glass
Light source	Halogen bulb12V/30W,Adjustable brightness
*Fluorescence attachment	B.GWave band ,220V(110V)/100W Mercury lamp
*Optional	Photograph connecting tube,adapter with MD or PK mount ,4X photograph eyepiece
Shipping Size (W×D×H)(mm)	770x320x480
G.W. (kg)	20