

Medicine Stability Test Chamber



Introduction:

This equipment provide a long time stable environment of temperature, humidity and illumination for the Pharmaceutical industry medicine invalidation evaluation. It's applied in the medicine accelerating test, growth test, high humidity test and high illuminance test.



Adjustable Shelf



Fluorescent Lamp

High Water-Proof
Grade Illumination
Sensor

Built-in Printer

Features:

- * The Inner chamber is 304 high-quality stainless steel, full arc design, easy to clean and maintain
- * The unique air duct design ensures the uniform temperature and humidity in the box
- * Remote monitoring via mobile phones and computers
- * It has three levels of password authority management function
- * Data recording system can record more than 1 million pieces of data, even if the power failure, the data will not be lost, can be exported through the U disk
- * Conforms to the national pharmacopoeia, GMP, FDA, ICH and other relevant standards for long-term test, intermediate test, accelerated test, with stable and reliable performance to meet the requirements of temperature, humidity, light and other environmental conditions in multiple drug tests

Technical Parameters:

Model	BJPX-MT250
Display	7" LCD touched screen
Capacity	250L
Temp. Range	5~60°C with lighting, 0~60°C without lighting
Temp. Resolution	0.1°C
Temp. Fluctuation	± 0.5°C/± 0.1°C
Temp. Uniformity	± 2°C
Humidity Control Range	40~95% RH
Humidity Fluctuation	± 5% RH
Illumination	0-6000 Lux adjustable
Illumination Fluctuation	± 500 Lux
Shelves	2 pcs adjustable
Timing Range	1~99 hour
Refrigeration System	Dual refrigeration cycle system, R134a refrigerant CFC-free
Safety Device	Water shortage protection, over temperature protection, overload protection, compressor overload protection
Consumption	2200W
Standard Accessories	2pcs shelves, built-in printer, 30mm test hole
Optional accessories	UV lamp system
Power Supply	AC220±22V/50±1Hz
Chamber Size(W*D*H)	650*465*830mm
External Size(W*D*H)	850*800*1560mm
Packing Size(W*D*H)	980*930*1715mm
Gross Weight	250kg

Horizontal Electrophoresis Tank

Horizontal electrophoresis is a basic means in molecular biology research. It is widely used for DNA detection and separation, and molecular testing in the nucleic acid analysis, purification and preparation experiment.

ET-H1 Horizontal Electrophoresis Tank

Features:

- * Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- * Dismountable electrodes make maintenance easily.
- * The PC transparent top lid prevents liquid volatilization and electricity leakage.
- * Auto-switch-off when the lid is removed
- * Recommended power supply: BPS-1/BPS-2



Technical Parameters:

Model	ET-H1
Gel Trays(W*L)	48*75mm
Buffer Volume	150ml
Comb Thickness	1&1.5mm
Comb Throughput	3, 5, 9 samples
NO. of Samples	3~18
Standard Accessories	Body tank with electrode*1, Gel tray 48*75mm*1, Gel box*1, 1.0mm thickness 3 wells comb*2, 1.5mm thickness 3 wells comb*2, 1.0mm thickness 5 wells comb*2, 1.5mm thickness 5 wells comb*2, 1.0mm thickness 9 wells comb*2, 1.5mm thickness 9 wells comb*2
External Size(L*W*H)	250*95*50mm
Package Size(L*W*H)	320*160*160mm
Gross Weight	1kg

ET-H2 Horizontal Electrophoresis Tank

The ET-H2 is ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

Features:

- * Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- * Dismountable electrodes make maintenance easily.
- * Sample background color design, adding the sample conveniently.
- * The PC transparent top lid prevents liquid volatilization and electricity leakage.
- * Auto-switch-off when the lid is removed
- * Recommended power supply: BPS-2/ BPS-3



Technical Parameters:

Model	ET-H2
Gel Trays(W*L)	60*60mm, 120*60mm, 60*120mm, 120*120mm
Comb Thickness	1&1.5mm
Comb Throughput	1, 2, 3, 6, 8, 11, 13, 18, 25 samples
NO. of Samples	1~100
Buffer Volume	550ml
Standard Accessories	Body tank with electrode*1, Gel tray 120*120mm*1, Gel tray 120*60mm*1, Gel tray 60*120mm*1, Gel tray 60*60mm*2, Gel box*1, Leveling feet*1 1.5mm thickness 1/2/3 wells comb*1, 1.0mm thickness 6/13 wells comb*2 1.0mm thickness 8/18 wells comb*2, 1.0mm thickness 11/25 wells comb*2
External Size(L*W*H)	300*160*75mm
Package Size(L*W*H)	460*250*200mm
Gross Weight	2kg

ET-H3 Horizontal Electrophoresis Tank

Features:

- * Auto-switch-off when the lid is removed.
- * Special gel caster, prevents the gel leakage.
- * Dismountable electrodes make maintenance easily.
- * The PC transparent top lid prevents liquid volatilization and electricity leakage.
- * Abundant buffer not only guarantees cooling effects, but also keeps the pH Value stable during the whole experiment process.
- * Recommended power supply: BPS-2/BPS-3



Technical Parameters:

Model	ET-H3
Gel Tray (W*L)	200*200mm, 200*150mm, 200*100mm
Comb Thickness	1.0&1.8mm
Comb Throughput	17, 22, 36, 44 samples
NO. of Samples	17~264
Buffer Volume	1800ml
Standard Accessories	Body tank with electrode*1, Gel tray 200*200mm*1, Gel tray 200*150mm*1, Gel tray 200*100mm*1, Gel Caster*1, 1.0mm thickness 17 wells comb*2, 1.8mm thickness 17 wells comb*2, 1.0mm thickness 22 wells comb*2, 1.8mm thickness 22 wells comb*2, 1.0mm thickness 36 wells comb*4, 1.8mm thickness 36 wells comb*2, 1.0mm thickness 44 wells comb*2, 1.8mm thickness 44 wells comb*2, Leveling feet*4
External Size (L*W*H)	397*230*83mm
Package Size(L*W*H)	530*390*220mm
Gross Weight	8kg

229

Vertical Electrophoresis Tank

Vertical electrophoresis is used for separation, purification and preparation of nucleic acid and protein samples in life science research.

ET-V1 Vertical Electrophoresis Tank

Features:

- * Easy installation
- * Auto-switch off when the lid is removed
- * Sample background color design, adding the sample conveniently.
- * Abundant buffer not only guarantees cooling effects, but also keeps the pH value stable during the whole experiment process
- * With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis, convenient for observation the gel preparation from the glass on both sides, ensures fast set up times and leak-free operation.
- * Recommended power supply: BPS-2



Technical Parameters:

Model	ET-V1
Glass Tray (W*L)	100*100mm
Gel Tray (W*L)	82*88mm
Comb Thickness	0.75, 1.0 & 1.5mm
Comb Throughput	11, 15 samples
Amount of Gel:	1~2 piece
NO. of Samples	11~30
Buffer Volume	750ml
Standard Accessories	Body tank with electrode*1, Gel casting base*1, Notched glass plates*4, 0.75mm bonded glass spacer*2, 1.0mm bonded glass spacer*2, 1.5mm bonded glass spacer*2, 0.75 mm thickness 11 wells comb*2, 1.0mm thickness 11 wells comb*2, 1.5mm thickness 11 wells comb*2, 0.75mm thickness 15 wells comb*2, 1.0mm thickness 15w wells comb*2, 1.5mm thickness 15 wells comb*2, Gel shovel*1, Clamp version*2, Dummy plate*1
External Size (L*W*H)	150*120*115mm
Package Size(L*W*H)	370*300*220mm
Gross Weight	2kg

230

ET-V2 Vertical Electrophoresis Tank

Features:

- * Easy installation
- * Safety button for lid opening
- * Auto-switch off when the lid is removed
- * Precast gel core, do not affecting the operation of gel making while the electrophoresis.
- * Abundant buffer not only guarantees cooling effects, but also keeps the pH value stable during the whole experiment process.
- * With the gel making device of normal position, don't should to moving the glass plate from the process of making gel to electrophoresis, convenient for observation the gel preparation from the glass on both sides, ensures fast set up times and leak-free operation.
- * Recommended power supply: BPS-3



Technical Parameters:

Model	ET-V2
Glass Trays (W*L)	216*220mm
Gel Trays (W*L)	186*205mm
Comb Thickness	1.0mm
Comb Throughput	25, 40, 52 samples
Amount of Gel	1~2 pieces
NO. of Samples	25~52
Buffer Capacity	3500ml
Standard Accessories	Body tank with electrode*1, Gel casting base*1, Notched glass plates*4, 1.0mm bonded glass spacer*4, 1.0mm thickness 25 wells comb*2, 1.0mm thickness 40 wells comb*2, 1.0mm thickness 52 wells comb*2, 25 well Guide sample device*2, 40 well Guide sample device*2, 52 well Guide sample device*2
Optional Accessory	Cooling circulation device
External Size(L*W*H)	280*140*250mm
Package Size(L*W*H)	460*400*450mm
Gross Weight	9kg

231

Electrophoresis Apparatus



Features:

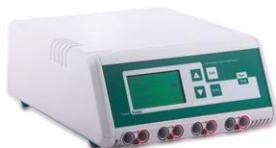
- * Auto-switching function.
- * Automatic memory function.
- * Control: Intelligent microprocessor control unit
- * Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating.

Technical Parameters:

Model	BPS-1
Output	Constant-voltage or current(adjustable)
Output range	5~300V, 1~300mA, 90W (Maximum)
Increment	1V, 1mA
Timing	1min~9h59min
Display	LED: constant-voltage, current and power values
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz
External Size(L*W*H)	280*237*118mm
Package Size(L*W*H)	380*340*230mm
Gross Weight	4kg

232

Electrophoresis Apparatus



Features:

- * 10 electrophoresis methods can be stored.
- * Automatic memory function.
- * Buzzer alarm for misoperation & faults.
- * Unbody design, touch keys, dual core microprocessor control.
- * Display preset value and actual output value at the same time.
- * Automatic detection of no-load, over-load, short circuit, rapid resistance change, ground leak and system overheating

Technical Parameters:

Model	BPS-2	BPS-3
Voltage Range	3~300V	10~600V
Current Range	1~400mA	1~500mA
Power Range	1~120W	1~300W
Increment	1V, 1mA, 1W	
Type of Output	Constant-voltage, current or power	
Display	LCD	
Output Port	Four sets	
Timing	1min~9h59min	
Optional	Power recovery function; Non-proliferation field function	
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz	
External Size(L*W*H)	280*237*118mm	
Package Size(L*W*H)	380*340*230mm	
Gross Weight	4kg	

Gel Document Imaging System

Gel Document Imaging System is used for gel band observation and analysis after electrophoresis run by using software technology and the band picture can be zoomed in or zoomed out according to user's requirements.

Features:

- * CCD with lower lux and high-resolution.
- * Six time zoom lens and simple to enlarge and shrink gel photos.
- * A multi-layer gel-filter effectively filters background noise.
- * The gel can be placed in the center position by the indicator.
- * Intelligent control box:
 - The zoom, focus, aperture, UV light and white light can be controlled through panel key and computer;
 - The UV light can shut down when the door is opened and reactivate when the door is shut;
 - The UV light protection system can shut down the lights with 15 minute delay automatically;
 - Drawer-style gel platform.



Technical Parameters:

Model	BK04S-3C	BK04S-3E
Effective Pixels	1280*1024	2560*1920
Pixel Density	10 bit	
Pixel Size	5.4*5.4μm	
Resolution	1.4 megapixels	5.0 megapixels
Signal to Noise Ratio	≥56db	
Sensitivity	Can detect the double chain DNA of EB staining below 20pg	
Camera	Low illumination and high resolution digital CCD	
Zoom Lens	F=1:1.2, 2.3 inch 6 times zoom lens	
Filter	590nm	
UV Light Transmission Area(W*L)	250*200mm	
Visible Light Transmittance Area(W*L)	250*210mm	
Transmission UV Wavelength	302nm	
Reflectance UV Wavelength	254, 365nm	
Transmission UV Lamp Power	8W	
Reflectance UV lamp Power	11W	
External Size(L*W*H)	470*405*820mm	
Package Size(L*W*H)	Main machine: 710*760*1390mm, Accessory: 420*320*330mm	
Gross Weight	Main machine: 61kg Accessory: 2.5kg	

233

234

UV-Transilluminator

Application:

UV Transilluminator is the necessary instrument for observed, photographed and cutting the electrophoresis gel.



Features:

- * With the operating port for cutting the gel.
- * No need for dark room, can be used for all weather.
- * Using the UV filter glass quartz ultraviolet lamp, long service life, light uniform.

Technical Parameters:

Model	UVT-02S
Transmission Size(W*L)	200*150mm
Transmission UV Wavelength	302nm
Reflectance UV Wavelength	254, 365nm
Transmission UV Lamp Power	302nm(8W)
Reflectance UV Lamp Power	254nm(11W), 365nm(11W)
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)	435*295*490mm
Package Size(W*D*H)	700*640*810mm
Net Weight	17kg
Gross Weight	45kg

Thermal Cycler



BK-EO Features:

- * High gradient performance for exploring amplification conditions
- * Multiple equipment connected operation can be realized through USB or network cable to adapt to batch test by enterprises scientific research labs
- * Multiple temperature control modes
- * Three modes of operation for your choice

BK-TC Features:

- * Complete steel structure
- * 5.7 inch touch screen
- * High impermeability design of the sample reaction room prevents condensation of samples under long-time storage in low temperature
- * Precise temperature control
- * Fast heating and cooling rate

Technical Parameters:

Model	BK-EO	BK-TC
Sample Capacity	96-wellx0.2ml, 96-well full-skirt, semi-skirt, universal none-skirt, 12x8 connected tube	
Display	LCD display and touch screen(5.7 inch)	6.5 inch, 262 144 color touch screen from Japan
Temp. Range	4.0~105°C	
Max temperature Heating rate	≥4°C/s	
Temp. Uniformity	±0.3°C	±0.2°C
Temp. Accuracy	±0.1°C	
Gradient temperature range	30~105°C	
Gradient Range Of Temp. Difference	1~30°C	
Max. No. Of Cycle	99, Suitable for nested PCR experiment	
Memory	≥250 typical programs onboard, unlimited with USB flash drive expansion	
Time increment/decrement	0~9 min50s, suitable for long PCR experiment	
Temp.increament/decrement	0~9.9°C, suitable for touchdown PCR experiment	
Auto Pause/Power Protection	yes	
Soak Function	Yes	
Hot-lid Temp. Range	30°C~110°C(adjustable, minimum control temperature: ambient temperature +5°C)	
Height Of Hot-lid	Automatic Adjusted	
Auto Shut-off Function Of Hot Lid	While block temperature is lower than set temperature or program ends, the hot-lid will be automatically closed	
Communication Interface	USB	Internet port(LAN)
Power Supply	100~240V, 50/60Hz, 600W	
Dimension	345*250*270mm	345*250*270mm
Packing Size(L*W*H)	495*410*395mm	495*410*395mm
Gross Weight	10.5kg	12.5kg
Certificates	Ferrotec Peltier/MET/CE/EMC/RoHS2.0/PICC Product Quality Liability Insurance	

235

236

Thermal Cycler



Features:

- * Newest generation peltier-based technology, more steady, reliable and durable.
- * 7 inch color full touch screen, graphical display of protocols.
- * Effortlessly interchangeable reaction modules that swap in seconds without tools.
- * 15000 protocols storable on board and unlimited storage of protocols with USB flash drive.

Technical Parameters:

Model	BK-GR300	
Gradient Module	96 Module	96 wells*0.2ml
	9677 Module	96 wells*0.2ml+77wells*0.5ml
	384 Module	384 wells
	Multi-purpose	9677 Module+In-situ adapter
Display	7 inch color touch screen, graphical display of protocols and running status	
	Communications	
	2 USB 2.0 and LAN	
	Block Temperature Range	
Temperature	0 °C~105°C	
	Max. Heating/Cooling Rate	
	6°C/s	
	Temperature Uniformity	
Gradient	±±0.2°C (at 95°C)	
	Temperature Accuracy	
	±±0.1°C (35°C~100°C)	
	Display Resolution	
Software	0.1°C	
	Mode of Temperature Control	
	Sim-tube & Block mode	
	Gradient Accuracy	
Heat Lid	±±0.1°C (35°C~100°C)	
	Column Uniformity	
	±±0.2°C (at 95°C)	
	Gradient Range	
Others	30°C~105°C	
	Temp. Differential Range	
	1~30°C	
	Gradient Capability	
Software	12 Column	
	Max. No. of Programs	
	Max. 15,000 programs onboard, unlimited storage of protocols with USB flash drive	
	Max. Step	
Heat Lid	30 steps	
	Max. Cycle	
	100 typical cycles, max. 60,000 nesting cycles	
	Time & Temp. Increment/Decrement	
Software	Yes, available for Long PCR & Touchdown PCR	
	Auto Pause / Auto Restart	
	Yes	
	Multi-user Log in	
Heat Lid	With password-based authentication prevents from view, copy and alteration of protocols	
	Tm Calculator	
	Automatically calculate the melting and annealing temperature with two primer sequences	
	Hold at 4°C	
Software	Yes, an infinite incubation time at low temperature for overnight working	
	Program Wizard	
	Yes, create PCR protocols with only a few clicks	
	Running Report	
Heat Lid	Yes, provide objective and precise information for the whole experiment	
	PC Connection	
	PC remote control to manage more than 120 units of A300 across the network	
	Height of Heat Lid	
Software	Steplessly adjustable Lid, accommodates all kinds of PCR tubes, strips and plates	
	Open Method	
	Innovative "TOP-OPEN" technology realizes open and lift in one step	
	Heat Lid Temperature Range	
Others	30~112°C	
	Auto Shut-off	
	Yes	
	Power Supply	
Heat Lid	85~265V, 50~60Hz Max. 600W	
	Package Size(W*D*H)	
	362*256*255mm	
	Gross Weight	
Software	10kg	

237

238

Thermal Cycler

Features:

- * 7" color full touch screen, graphically display.
- * Effortlessly interchangeable modules, swapped in seconds without tools.
- * Durable premium peltier element, ensure long life and high quality.
- * Large storage of 10,000 programs on board, enhancing friendly operation.
- * Update software through USB flash drive.
- * Outstanding block temperature uniformity, ensuring best possible experimental results.
- * Global universal switch power(85V-265V), increasing safety & reliability.



Technical Parameters:

Technical Parameters		
Model	BK-AI	BK-AII
Type	Standard Thermal Cycler	Gradient Thermal Cycler
Standard Module	96 Module: 96 wells*0.2ml or 9677 Module: 96 wells*0.2ml+77 wells*0.5ml	
Optional Module	48Module: 48 wells*0.2ml+48 wells*0.5ml	
	384 Module: 384 wells	
	Multi-purpose Module: 9677 Module+In-situ Adaptor	
Heating and Cooling Technology	Newest generation Peltier-based technology, with long life up to 1,000,000 cycles	
Display	7" Color Touch Screen, graphical display of protocols and running status	
Language	English	
USB Flash Drive	Unlimited storage of protocols with USB flash drive	
Communications Ports	2 USB2.0 and LAN	
Temperature		
Block Temperature Range	0°C~100°C	
Max. Heating Rate	5°C/s	
Max. Cooling Rate	4°C/s	
Temperature Uniformity	±0.2°C (at 95°C)	
Temperature Accuracy	±0.2°C (35°C~100°C)	

Model	BK-AI	BK-AII
Mode Of Temperature Control	Sim-tube & Block mode	
Ramping Rate Adjustable	Yes	
Gradient		
Gradient Accuracy	/	≤ ±0.3°C (35°C~100°C)
Column Uniformity	/	≤ ±0.3°C (at 95°C)
Gradient Range	/	35°C~99.9°C
Temp. Differential Range	/	1°C~30°C
Gradient Capability	/	12 Column
Heat Lid		
Height of Heat lid	Steplessly Adjustable lid, accommodates all kinds of PCR tubes, strips and plates	
Open method	Innovative TOP-OPENTM technology realizes open and lift the lid in one step	
Heat Lid Temperature Range	30°C~99.9°C	
Auto Shut-off	Yes	
Software		
Max. Number of Programs	Max. 10,000 programs onboard, unlimited storage of protocols with USB flash drive	
Max Step/Max Cycle	30 steps, 100 typical cycles, max. 60,000 nesting cycles	
Time & Temp. Increment/Decrement	Yes, available for long PCR & Touchdown PCR	
Auto Pause/Auto Restart	Yes	
Multi-user log in	Password-based authentication prevents from view, copy and alteration of protocols	
Tm calculator	Automatically calculates the melting and annealing temperature through input two primer sequences	
Hold At 4°C	Yes, an infinite incubation time at low temperature for overnight working	
Program wizard	Yes, create PCR protocols with only a few clicks	
Running Report	Yes, provide objective and precise information for the whole running process	
Other features		
Power	Global switch power supply: 85V~265V, 50-60Hz Max. 600W	
Approvals	ISO 9001:2000, CE, RoHS	
Packing size(L*W*H)	430*344*345mm	
Gross Weight	9.8kg	

239

240

Fluorescence Quantitative PCR Detection System



Features:

- * Whole block scanning and formulated line scanning mode, 96-well double-colour scanning takes only 5.5s
- * 6 channels fluorescence detection, no cross talk between different channels.
- * Unique bottom detection, compatible to reaction volume down to 5µl
- * New automatic hot lid, automatic open and close which is prevent reagent evaporation
- * LED excitation light source with super long service life
- * New TE module with special technique to ensure long service life
- * Available for a variety of scientific research and clinical applications.

Technical Parameters:

Product Name	Fluorescence Quantitative PCR Detection System
Model	FQD-96A
Sample Capacity	96*0.2ml PCR plate, 12*8-strip tubes, 96*0.2ml single tube (Transparent Bottom)
Reaction system	5-100µl
Dynamics Range	1-10 ¹¹ Copies
Medical instrument registration certificate	G.X.Z. 20153400273
Channel	4
Emission Wavelength	500-800nm

Detection path	F1	F2	F3	F4	F5	F6
Suitable Fluorescent Dye	FAM/SYBR GREEN	HEX/MIC/TET/TAMRA	ROX	TEXAS-RED	Cy5	Cy5.5 Reserved Path
Excitation Wavelength	300-800nm					
Detection Wavelength	500-800nm					
Module Temp. Range	4-105°C (resolution 0.1°C) with SOAK Low Temp. storage Function					
Ramp Rate	4.0°C/s(max)					
Temp. Control Accuracy	±0.1°C					
Temp. Uniformity	±0.3°C					
Temp. Control Mode	Block mode and Tube Mode (Automatic control based on liquid level)					
Optional Accessories	Windows Tablet PC					
Gradient Temp. Range	1-36°C					
Hot-lid Temp. Range	30-110°C (Adjustable, Default by 105°C and Automatic Hot-lid)					
Fluorescence Intense Detection Repeatability	5%					
Scanning Mode	Full plate scanning and designated line scanning					
Programming	Max 20 Segments for Each Program, Max 99 Cycles					
Operation Mode	Continuous					
Scanning Time	5.5s					
Special Function	Absolute quantitative automatic analysis, relative quantification, SNP Analysis, melting curve analysis, 6 independent temperature zones, HRM multi-channel crosstalk calibration, background correction, auto gain, customized parameters, etc					
Operation System	Microsoft: Windows7/Windows8.1/Windows10 Software: excel2000/2002/2003/2007/2012					
Min-computer Configuration	RAM: 512M, hardware space: 10GB CPU: Pentium 4 virtual memory ≥1000MB					
Power Supply	100-240V/50/60Hz 600W					
Dimension(L*W*H)	410*386*352mm					
Port Method	Support USB and RS232 data port and Bluetooth port					
Certification	Ferrolec Pellicer/CE/EMC/RoHS2.0/PICC Product quality liability insurance/IVD/MET					
Packing Size	720*680*640mm					
Gross Weight	59kg					

241

242

Eye Washer

Deck Mounted Eye Washer



EW-DM1



EW-DM2



EW-DM3

Max. working pressure: 7Bar
 Valve: None-return valve, shut off automatically
 Hose: Length 1.4m, PVC with stainless steel net
 Sprayer head: Soft rubber, softened water spray for eye protection
 Dust shield cap: PP, removed automatically when eye washer is operated
 Switch: Automatic trigger locking for easy hand-free use
 Material: Solid thick brass with high gloss epoxy powder, resistant to chemicals, UV and heat.

Technical Parameters:

Model	EW-DM1	EW-DM2	EW-DM3
Package Size(W*D*H)mm	270*170*80	440*240*120	270*170*80
Gross Weight(Kg)	1	2	1

Removable Eye Washer



EW-R2



EW-R3

Max. working pressure: Max. 7Bar
 Soft Pipe: length 1.5m, pp material
 Installing: Desk & wall mounted, can be also drew out
 Sprayer head: Softened water spray for eye protection
 Dust shield cap: Removed when eye washer is operated
 Package Size(W*D*H)mm: 270*170*80
 Gross Weight(Kg): 1

Switch: Automatic trigger locking for hand-free use
 Body: Densely PP material. The valve can close automatically, safe seal
 Flow control valve: Adjustable based on water pressure to adapt for the eyes.
 Package Size(W*D*H)mm: 270*170*80
 Gross Weight(Kg): 1

Wall Mounted Eye Washer

Material: 304 stainless steel with Exquisite polished / Epoxy coating stainless steel with high gloss epoxy powder, resistant to chemicals, UV.
 Eye washer bowl: stainless steel / PP bowl, water bore is made of PP(ABS shield cap), safe green, installing conveniently.
 Sprayer head: water bore has been treated with; make the water more mild and abundant.
 Switch: the sign of operation is near by the knob, operate simply.
 Package Size(W*D*H)mm: 470*420*350
 Gross Weight(Kg): 8.5



EW-WM1



Wall Mounted Shower Eye Washer



S-WM2



S-WM3



SEW-WM1

Sprayer head: The flux of spray head shower&washer is ample, installing conveniently, saving space.
 Tube: Stainless steel material, making the products firm and high quality, resistant to the chemicals.
 Switch: The sign of operation is near by the knob, operate simply.

Technical Parameters:

Model	S-WM2	S-WM3	SEW-WM1
Package Size(W*D*H)mm	815*270*160	815*270*160	1320*440*320
Gross Weight(Kg)	5.5	5	18

243

244

Combination Emergency Shower Eye Washer



Material: Stainless steel, firm and chemical resistant.

Eye washer is suitable for cleaning eyes, face and hands; the spray head can be use of washing the whole body.

Switch of the spray shower is controlled by the top of the handle, the flow is steady and ample.

Height of the bowl is condign, couple water bores humanistic design, the heigh and angle design is according to the proportion of the face.

Outlet water bore has been handed, making the water more mild, in order to protect the eyes from being harmed.

Valve-switch make the operation simple, when using only to touch the knob.

Drain directly, the used water flow directly through the tube which is in the bowl, no pollution.

Technical Parameters:

Model	SEW-C1	SEW-C2
Package Size(W*D*H)mm	1310*380*250	1310*350*440
Gross Weight(Kg)	17	20

245

Fiber Analyzer

Application:

BK-F800 Fiber Analyzer is with advanced design, easy operation and flexible application. It can be used in conventional Weende method to analyze crude fiber and Van Soest analysis to wash the fiber. Applies to plant, feed, food and other agricultural products as well as the determination crude fiber, neutral detergent fiber (NDF), acid detergent fiber (ADF), hemicellulose and acid detergent lignin (ADL).

Features:

- * Hidden solution barrel pull structure designed to facilitate dosing operation, provide the safest fiber analysis.
- * Corrosive liquid is not in contact with any pump body, to avoid waste discharge pump susceptible to corrosion phenomena.
- * The crucible recoil function designed to prevent sample in the crucible can not caking filtration.
- * With dosing overflow protection function to prevent dosing corrosive liquid overflow due to operator error, protect the safety of the operator.
- * Adjust the crucible heating power in time, enabling operator to control the heating rate easily and low down the energy consumption, ECO-friendly.
- * Having a built-in pre-heating function, greatly reducing the whole experiment time.
- * Provide five various specifications crucible specifications to meet the needs of different samples for standard configuration.



Technical Parameters:

Model	BK-F800
Measurement Range	0.1%~100%
Sample Weight	0.5~3g per piece
Repeatability	≤0.4% (Crude Fiber Content below 10%) ≤1% (Crude Fiber Content above 10%)
Max. Capacity	6 pcs/batch
Pre-heating Time	10~12min
Heating to Boiling	13~15min
Consumption	2.2KW
Power Supply	AC220V±10%, 50Hz
External Size(W*D*H)	776*476*644mm
Package Size(W*D*H)	890*610*770mm
Gross Weight	106kg

246

Fat Analyzer

BFA-1S Fat Analyzer, designed based on the Soxhlet extraction principle, is an automatic crude fat analyzer in which weight method is used to determine the fat content.

Features:

- * Automatic process after weighting the sample.
- * 8" LCD Touch screen control panel, easy to operate.
- * Five extraction methods: Soxhlet standard extraction, Soxhlet hot extraction, continue flow extraction, hot extraction, Soxhlet CH standard method.
- * Ether leakage automatic alarm.
- * Water temperature and water flow monitoring.
- * Automatic solvent recovery.



Technical Parameters:

Model	BFA-1S
Temp. Range	RT+5°C~300°C
Measuring Range	0.1~100%
Temperature Accuracy	±1°C
Repeatability	Relative error 1%
Sample Weight	0.5~15g
Capacity	6pcs/batch
Solvent Cup Volume	150ml
Solvent Recovery	≥85%
Consumption	2.0KW
Power Supply	AC220V±10%, 50Hz
External Size(W*D*H)	650*348*875mm
Package Size(W*D*H)	Main Body: 835*540*930mm / Accessories: 450*310*245mm
Gross Weight	Main Body: 92kg / Accessories: 4.5kg

247

Fat Analyzer

BFA-2 Fat Analyzer is based on the Soxhlet extraction principle and integrates such functions as soaking, extraction, leaching, heating, condensation and solvent recovery.

Features:

- * 4.3" LCD screen and Microcomputer control system.
- * Triple alarms i.e. sound, light, LCD Audio and visual alarm function.
- * Integral dry heating, wide scope and high precision of temperature control.
- * Electric circuit is isolated from the extraction space, ensuring devices security.
- * Over-temperature alarm and timer reminding functions.
- * Abundant interface contents give simultaneous display of set temperature, actual temperature, set time and heating time.
- * Unique air insulation for temperature heating protection and constant temperature.



Technical Parameters:

Model	BFA-2
Temp. Range	RT+5°C~300°C
Measuring Range	0~100%
Temperature Accuracy	±1°C
Sample Weight	0.5~15g(generally 2~5g, depending on sample)
Capacity	6pcs/batch
Solvent Cup Volume	80ml
Solvent Recovery	≥80%
Consumption	1KW
Power Supply	AC 220V±10%, 50Hz
External Size(W*D*H)	650*320*715mm
Package Size(W*D*H)	735*410*880mm
Gross Weight	54.5kg

248

Gas Chromatograph

Features:

- * 7-inch LCD display indicates temperature, gas flow and heating curve.
- * Self test function and automatic fault recognition function.
- * 8 pcs external extension interfaces can connect with control valve.
- * Equipped with a flame ionization detector (FID).
- * Multi-core and 32-bit embedded hardware system ensures the reliable operation.
- * Synchronous external trigger function and the external signal (auto sampler, thermal analyzer, etc.) can start the equipment and workstation software at the same time.
- * With chromatography workstation software to process data.
- * Memory function: can store 20 sample test modes.
- * One key start up function.



Technical Parameters:

Model	BK-GC112A
Oven	Capacity
	Temp. Range
	Temp. Accuracy
	Temp. Program
Sample Injector	Program Total Time
	Max. Temp. Heating Rate
	Temp. Range
	Column or split injector can be installed
Detector	Carrier gas flow control type: Constant pressure mode
	Max. Quantity
	Pre Column Pressure Range
	Pre Column Pressure Accuracy
	Flow Setting Range
	Flow Rate
	Flow Rate
	Flow Rate
	Flow Rate
	Flow Rate
	Flow Rate
	Flow Rate
Power Supply	AC220V±10%, 50Hz
	Standard Accessory
	Optional Accessory
	Package Size(W*D*H)
Gross Weight	

249

Gas Chromatograph

Features:

- * 5.7-inch LCD display indicates temperature, time and gas flow.
- * Can install packed column and capillary column at the same time.
- * Self-test, power protection, keyboard lock, automatic ignition and anti power mutation interference function.
- * With chromatography workstation software to process data.
- * Equipped with a flame ionization detector (FID), and TCD, ECD, FPD, NPD are optional. Can install 3 detectors at the same time.
- * Can connect with Internet, realize data transfer and program upgrade automatically.
- * Double column compensation function, which can effectively restrain baseline drift and the influence of background noise.
- * Large capacity oven (300*280*180mm) can hold 2 pcs 0.32mm diameter capillary column (length: 80m).
- * Better thermal insulation effect: when the temp. of oven, vaporizing chamber and detector reach 300°C, the max. temp. of outer chamber is 40°C.



Technical Parameters:

Model	BK-GC7820
Oven	Temp. Range
	Temp. Accuracy
	Temp. Program
	Max. Temp. Heating Rate
Detector	Hydrogen Flame Ionization Detector (FID)
	Thermal Conductivity Detector (TCD) (Optional)
	Electron Capture Detector (ECD) (Optional)
	Flame Photometric Detector (FPD) (Optional)
	Nitrogen and Phosphorus Detector (NPD) (Optional)
	Power Supply
	Standard Accessory
	Optional Accessory
	Package Size(W*D*H)
	Gross Weight

250

High Performance Liquid Chromatography

Features:

- * LCD display
- * Front-mounted self-locking switch
- * Small size, easy to place, save space
- * Standard configuration USB portspace



Technical Parameters:

Model	BK-LC1100	BK-LCG1100
High Pressure Constant Flow Pump	Double plunger reciprocating pump	1 set
	Flow Range	0.001mL/min-10.000mL/min
	Setting Step Size	0.001mL/min
	Flow Accuracy	±±0.3% (1.00m/min, H ₂ O, R.T., 8.5MPa)
	Flow stability	RSD±0.1% (1.00m/min, H ₂ O, R.T., 8.5MPa)
	Maximum Pressure	42MPa
	Display Pressure Error	±±3.0%
	Pressure Fluctuation	±1.0%
	Power Dissipation	80W
	Wavelength Range	190—700nm
	Wavelength Repeatability	±0.1nm
	Wavelength Accuracy	±±1.0nm
UV/VIS Detector	Spectrum Band Width	8nm
	Response Time	0.0s—4.9s
	Linearity Range	1.8AU (5%)
	Baseline Noise	±±1×10 ⁻⁴ AU
	Baseline Drift	±±2.0×10 ⁻⁴ AU/h
	Minimum Detectable Concentration	4.0×10 ⁻⁹ g/mL(Naphthalene in Methanol Solution)
	Detector Cell	Optical Path—10mm, Volume—10μL
	Light Source	Deuterium Lamp
	Power Dissipation	100W
	Gradient Mixer	/
Sampler Injector	1	1
Supersil ODS2 5μm ID4.6×200mm	1	1
Workstation (Without Computer & Printer)	1	1
Valve Mounting Frame	1	1
Kits	Isocratic System Kits	Gradient System Kits
Power Supply	AC110/220V±10%, 50/60Hz	
Optional Accessory	Solvent bottle, Column, Column Oven, PC	
Package Size(W*D*H)	600*440*380mm,	
	600*410*300mm+2	
	600*410*300mm*3	
Gross Weight	56kg	75kg

251

High Performance Liquid Chromatography

Features:

- * Adopting mature and reliable mechanical structure, optical structure and circuit structure of core technology.
- * Stepper motor 64 subdivision control technology to improve accuracy at low flow rates
- * Straight-through pressure transmitter
- * Scientific air duct design to effectively reduce baseline drift



Technical Parameters:

Model	BK-LC13100	BK-LCGH3100	BK-LCQL3100	
	1 Set	2 sets	1 Set	
High Pressure Constant Flow Pump	Quantity	1 Set		
	Flow Rate Range	0.001mL/min-10.000mL/min		
	Flow Accuracy	±0.2% (1.00mL/min, H ₂ O, R.T., 8.5MPa)		
	Flow Precision	RSD≤0.075% (1.00mL/min, H ₂ O, R.T., 8.5MPa)		
	Maximum Pressure	45MPa		
	Pressure accuracy	±3.0%		
	Pressure pulsation	≤0.1MPa		
	Wavelength Range	190~700nm		
	Wavelength Repeatability	≤0.1nm		
	Wavelength Accuracy	±1.0nm		
UV/VIS Detector	Band Width	8nm		
	Response Time	0.0s~5s		
	Baseline Noise	±0.5×10 ⁻⁴ AU		
	Drift	±1.0×10 ⁻⁴ AU/h		
	Path length	10 mm (analytical cell)		
	Light Source	Deuterium Lamp		
	Low-Pressure Gradient Unit	Integrated vacuum degasser		4 channel
		Composition Rang	/	0-100%
		Composition Precision	/	±0.2% RSD
		Composition Accuracy	/	±2.0%
Data-processing Workstation	◆ Internal and external standard calculation methods ◆ Automatically displays, prints, exports and starts other programs after the completion of a measurement. ◆ Comply with the requirements of the 21 CFR Part 11 directive of the FDA			
3100 System Kits	1 Set			
Power Supply	AC110/220V±10%, 50/60Hz			
Optional Accessory	Solvent bottle, Column, Column Oven, Auto-sampler, DAD512 Detector, RI-2010Detector, Refractive Index Detector, Evaporative Light Scattering Detector, Fluorescence Detector, PC			
Package Size(W*D*H)	600*440*380mm/4			
Gross Weight	68kg			

252

High Performance Liquid Chromatography

Features:

- * Highly integrated ARM microcontroller SPI, I2C technology
- * Accurate automatic wavelength positioning and excellent wavelength accuracy
- * Plunger floating design, more stable output
- * Intelligent sequence analysis and batch processing
- * Chromatography workstation software meets 21 CFR Part 11



Technical Parameters:

Model	BK-LC15100	BK-LCG5100	BK-LCQL5100
Type	Isocratic Pump	Gradient Pump	Quaternary Low Pressure Pump
Flow Rate Range	0.001~10.000mL/min, in 0.001mL increments		
Flow Accuracy	±0.2% (1.00mL/min, H ₂ O, R.T., 8.5MPa)		
Flow Precision	RSD±0.06% (1.00mL/min, H ₂ O, R.T., 8.5MPa)		
Maximum Pressure	63MPa		
Pressure accuracy	±0.01%		
Pressure pulsation	≤0.1MPa		
Composition range	/	0~100%	0~100%
Composition precision	/	±0.2%RSD	±0.3%RSD
Wavelength Range	190~800nm		
Wavelength Repeatability	±0.1nm		
Wavelength Accuracy	±1.0nm		
Band Width	6nm		
Response Time	0.0s-5s		
Baseline Noise	±0.25×10 ⁻¹ AU (empty cell, 254nm, 1.0s)		
Drift	±0.5×10 ⁻¹ AU/h (empty cell, 254nm, 60min)		
Path length	10 mm (analytical cell)		
Light Source	Deuterium Lamp and Tungsten Lamp		
Data-processing Workstation	<ul style="list-style-type: none"> ◆ Sequence tables for any set of samples ◆ Internal and external standard calculation methods ◆ Automatically displays, prints, exports and starts other programs after the completion of a measurement. ◆ Comply with the requirements of the 21 CFR Part 11 directive of the FDA 		
5100 System Kits	1 Set		
5100 System Manager	Integrated A/D converters		Integrated A/D converters Integrated vacuum degasser, 4 channel
Power Supply	AC110/220V±10%, 50/60Hz		
Optional Accessory	Solvent bottle, Column, Column Oven, Auto-sampler, DAD512 Detector, Refractive Index Detector, Evaporative Light Scattering Detector, Fluorescence Detector, PC		
Package Size(W*D*H)	700*570*310mm; 700*570*350mm; 710*583*500mm; 730*450*440mm; 600*440*380mm; 770*450*700mm		
Gross Weight	156kg		

Optical Columns:

Column name	Model	Granularity (μm)	Specification (mm)	Column name	Model	Granularity (μm)	Specification (mm)
Supersil ODS2	31113001	5	2.1*150	Supersil 120A SCX	31113078	5	4.6*150
	31113002	5	4.6*150		31113079	5	4.6*200
	31113003	5	4.6*200		31113080	5	4.6*250
	31113004	5	4.6*250		31113081	5	4.6*300
	31113005	5	4.6*300		31113082	5	4.6*150
	31113065	3	4.6*50	Supersil 300A SCX	31113083	5	4.6*200
	31113066	3	4.6*100		31113084	5	4.6*250
	31113067	3	4.6*150		31113085	5	4.6*300
	31113068	3	2.1*50		31113057	5	4.6*150
	31113069	3	2.1*100		31113058	5	4.6*200
Supersil ODS-B	31113034	5	2.1*150	Supersil AQ-C18	31113059	5	4.6*250
	31113043	5	4.6*100		31113060	5	4.6*300
	31113039	5	4.6*150		31113094	5	2.1*150
	31113040	5	4.6*200		31113086	5	4.6*150
	31113041	5	4.6*250	Supersil Phenyl	31113087	5	4.6*200
	31113042	5	4.6*300		31113088	5	4.6*250
	31113044	5	4.0*100		31113089	5	4.6*300
	31113035	5	4.0*150		31113074	5	4.6*150
	31113036	5	4.0*200	Supersil NH2	31113075	5	4.6*200
	31113037	5	4.0*250		31113076	5	4.6*250
	31113038	5	4.0*300		31113077	5	4.6*300
Supersil C8	31113053	5	4.6*150		31113090	5	4.6*150
	31113054	5	4.6*200	Supersil NH2-S	31113091	5	4.6*200
	31113055	5	4.6*250		31113092	5	4.6*250
	31113056	5	4.6*300		31113093	5	4.6*300
Supersil 120A C4	31113061	5	4.6*150		31113070	5	4.6*150
	31113062	5	4.6*200	Supersil CN	31113071	5	4.6*200
	31113063	5	4.6*250		31113072	5	4.6*250
	31113064	5	4.6*300		31113073	5	4.6*300
	31113049	5	4.6*150		31113045	5	4.6*150
Supersil 300A C4	31113050	5	4.6*200	Supersil SiO2	31113046	5	4.6*200
	31113051	5	4.6*250		31113047	5	4.6*250
	31113052	5	4.6*300		31113048	5	4.6*300

Note: we have more columns, and the listed models are for your reference.

Gas Generator

Pure Water Hydrogen Generator



Laboratory Type



Breathing Type (iron shell)



Breathing Type (plastic shell)

Features:

- * SPE technology.
- * No corrosion and pollution.
- * High purity hydrogen (99.999%) (for Laboratory type).
- * Suitable for all kinds of GC(Gas chromatography).
- * Stable output flow, safe and convenient to operate, various alarm devices (over pressure alarm, water shortage alarm, water accumulated alarm).
- * The electrolytic cell adopts imported ionic membrane, which has the characteristics of resistance, durability and long life (for Breathing Type (plastic shell)).
- * The output flow of electrical automatic control system is stable and the fluctuation is small. (for Breathing Type (plastic shell)).

Technical Parameters:

Model	HGC-200	HGC-300	HGC-300T	HGC-300S	HGC-600	HGC-600T	HGC-600S
Type	Laboratory type	Laboratory type	Breathing Type (iron shell)	Breathing Type (plastic shell)	Laboratory type	Breathing Type (iron shell)	Breathing Type (plastic shell)
Output Flow (ml/min)	0~120	0~160	0~230	0~230	0~360	0~500	0~500
Output Pressure	0.4MPa/0.02~0.7MPa (under stable pressure)	0.4MPa/0.02~0.7MPa (under stable pressure)	0.2MPa	0.2MPa	0.4MPa/0.02~0.7MPa (under stable pressure)	0.2MPa	0.2MPa
Hydrogen Purity	>99.999%	>99.999%	99.99%	99.99%	>99.999%	99.99%	99.99%
Silicon tube	Yes	No	Yes	No	Yes	No	No
Pressure stability	<0.001MPa						
Consumption	120W	150W			300W		
Power Supply	AC 110V/220V±10%, 50/60Hz						
External Size (W*D*H)	350*220*380mm	350*220*380mm	400*270*430mm	400*270*430mm	350*220*380mm	400*270*430mm	400*270*430mm
Package Size (W*D*H)	500*370*540mm	500*370*540mm	500*370*550mm	560*420*600mm	500*370*540mm	500*370*550mm	560*420*600mm
Net Weight	11kg	11kg	9kg	8kg	13kg	9.5kg	9kg
Gross Weight	12kg	12kg	10.5kg	9.5kg	14kg	11kg	10.5kg

Nitrogen Generator



General type (NG-300, NG-500)



High purity type (NG-300H, NG-500H)

Features:

- * Safe and convenient.
- * Compact structure. Take up very little laboratory space.
- * Nitrogen generators supply ideal ultra pure nitrogen for GC(Gas Chromatography), LC/MS(Liquid Chromatography/Mass Spectroscopy) and Thermal Analyzer.
- * Continuously generate ultra pure nitrogen through Pressure Swing Adsorption (PSA) technology.
- * No longer need to use inconvenient and dangerous high pressure nitrogen cylinders in laboratory.

Technical Parameters:

Model	NG-300	NG-300H	NG-500	NG-500H
Output Flow	0~300 ml/min		0~500 ml/min	
Output Pressure	0~0.4 MPa			
Purity	99.99%	99.999%	99.99%	99.999%
Surrounding Requirement	0~40℃, no dust and corrosive gas			
Consumption	<680 W		<700 W	
Power Supply	AC 110V/ 220V±10%, 50/60Hz			
External Size(W*D*H)	520*286*700mm	520*286*700mm	520*286*700mm	520*286*700mm
Package Size(W*D*H)	650*450*950mm	630*390*870mm	650*450*950mm	630*390*870mm
Net Weight	50kg	50kg	50kg	50kg
Gross Weight	58kg	60kg	58kg	60kg

Nitrogen & Hydrogen & Air Generator



Features:

- It can replace traditional high pressure cylinders. N₂, H₂ and air are generated separately or together, intermittently or continuously. The purity of gas will not decay for long time use.
- Easy to operate, switching power on to produce gas, regular output flow, completely automatic tracking equipment.
- Generate nitrogen through world's leading Pressure Swing Adsorption (PSA) technology, which replaces the traditional electrolyte separation technology.
- It is safe and convenient to operate, has no corrosion toward instrument and supplies gas for 24 hours.
- Generate hydrogen through hydrogen production technology.
- It's powered by whole sealing silent air compressor. After purification, water, oil, dust and impurities are removed. Through pressure stable system, pure and silent air is finally produced under stable pressure.

Technical Parameters:

Model	NHA-300		
Gas Type	N ₂	H ₂	Air
Output Flow	0-300ml/min	0-300ml/min	0-1000ml/min
Output Pressure	0-0.4MPa		
Purity	99.99%	99.999%	Three-level Purification, CO ₂ : 0.039%, Oil: 0.54ppm
Consumption	<350W		
Power Supply	AC110/220V±10%, 50/60Hz		
External Size(W*D*H) mm	440*440*475		
Package Size(W*D*H) mm	600*600*630		
Net Weight(kg)	55		
Gross Weight(kg)	65		

Oxygen Generator(Oxygen Concentrator)



Application:

Oxygen generators(concentrators) typically use pressure swing adsorption (PSA) technology and are widely used for oxygen provision in healthcare applications, especially where liquid or pressurized oxygen is too dangerous or inconvenient, such as in homes or in portable clinics. Oxygen generators(concentrators) are also used to provide an economical source of oxygen in industrial processes, where they are also known as oxygen gas generators or oxygen generation plants.

Features:

- French imported molecule sieve, long life and more efficiency.
- Adopts american PSA technology, use Physical method to separate pure oxygen from air.
- Brand-new design, Small size and nice looking.
- Compact structure design, light weight, easy to move.
- Advanced oil-free compressor, save 30% power energy.
- Big LCD Screen easy to operate.
- Displaying the oxygen concentration in real time.
- Optional rebuylizer and oxygen purity alarm function.
- Power off alarm, abnormal voltage alarm.

Technical Parameters:

Model	OG-1000	OG-3000A	OG-3000B	OG-3000C	OG-3000D	OG-5000A	OG-5000B
Oxygen Flow(ml/min)	1000-5000	1000-3000				1000-5000	
Oxygen Concentration	30%-90%	≥93%±3%					
Output Pressure(KPa)	30-70						
Noise(dB)	≤43	≤47	≤46	≤47	≤53		
Maximum Spray Rate	≥150(ml/min)						
Input Consumption(VA)	≤180	≤330			≤500		
Power Supply	AC110/220V±10%, 50/60Hz						
Package Size(W*D*H)mm	442*265*405	505*335*515		560*395*700	560*395*700	550*400*700	
Net Weight(kg)	11	16	22	26	28		
Gross Weight(kg)	13	18	26				

257

258

Homogenizer



Application:

Homogenizer is widely used in fields of Biotechnology, Human and veterinary medicine/ clinical medicine, Pharmaceutical industry, Cosmetics industry, Food industry, Petrochemistry, Paint and lacquer industry etc.

Features:

- For D-160: light weight and ergonomic design, ideal for handheld operation.
- Safety switch for emergency stop, overload protection, smooth motor drive.
- All dispersing shafts are interchangeable for easy dismantling and cleaning.
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions.

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	BK-H010	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	D-160
Item No.	8034111000
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)	290*240*220 mm
Gross Weight	4kg

259

260

Stomacher Blender

Application:

Sterile homogenizer is also called flapping homogenizer or stomacher blender, widely used in homogenization treatment for animal tissue, biological samples, etc.
It plays an important part in food, medicine, cosmetics, clinical, molecular, toxin and bacteria test, especially in microorganism testing sample preparation.

Features:

- * 4.3 inch touch screen display, microcomputer control.
- * Intelligent program control, able to set the flapping time and speed.
- * Adjustable flapping spacing, easy to process samples with different amount.
- * Disposable sterile bag guarantees hygiene and safety.
- * Toughened glass window, easy to observe.
- * With anti-pinch function and pause function.



Technical Parameters:

Model	BK-SHG04	BK-SHG05
Flapping Time	0.1-99min 50s or continuous operation	
Flapping Speed	3-12 times/s	
Flapping Spacing	0-50mm adjustable	
Effective Capacity	3-400ml	
Program Setting and Storage	8 groups	8-12 groups
Temp Control Range	/	RT-60°C
Disinfection Function	/	UV lamp disinfection
Sterile Bag	17*30cm, standard 100 pcs	
Start Mode	Soft start	
Consumption	200W	500W
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)	470*250*330mm	
Package Size(W*D*H)	570*340*460mm	
Net Weight	19kg	
Gross Weight	22kg	

261

Jacketed Glass Reactor

Application:

Jacketed glass reactors are designed for synthetic reaction of different types of materials in a controlled temperature and vacuum environment. Each reactor features adjustable stirring speeds and a constant pressure feeding funnel that allows you to add material to the vessel at a uniform and controlled speed. The built-in condenser makes it possible to recover some materials, also at a controlled rate of speed.



Features:

- * GG17 high borosilicate glass, with good chemical and physical properties.
- * The evaporation and back-flow of reaction material can be controlled.
- * The heat of reaction could be taken away quickly through water, cycling in the jacketed glass.
- * The design of large bottle mouth, easier to clean.
- * It can be used as a distillation syntheses device.
- * The sealing performance is 0.098 Mpa.
- * LCD display, easier and more convenient to measure temperature.

Optional Equipment:

- * Circulating water vacuum pump: (JGR-1L-5L, recommend mode SHZ-DIII, JGR-10L-100L, recommend model SHZ-95B)
- * Refrigerated Circulator
- * Circulating water bath

Technical Parameters:

Model	JGR-1L	JGR-2L	JGR-3L	JGR-5L	JGR-10L	JGR-20L	JGR-30L	JGR-50L	JGR-100L
Reaction Flask Capacity	1L	2L	3L	5L	10L	20L	30L	50L	100L
Stirring Power	60W				120W			180W	
Stirring Speed	0-600rpm(Max.1300 customized)								
Stirring Shaft Diameter	12mm				14mm		16mm		18mm
Motor Torque(g/cm)	2000	2400	4800		1000	1200	1500		3000
Power Supply	AC110/220V, 50/60Hz								
Package Size (W*D*H)	1250*550*550mm			1330*550 *550mm	1300*550 *600mm	1520*600 *680mm	1620*600 *680mm	1950*820 *900mm	
Gross Weight	40kg			45kg	91kg	95kg	110kg	116kg	160kg

262

Jar Tester

Application:

It's a testing instrument used to carry out the jar test during procedure of water treatment. It is used to simulate the process of adding agent, reaction, coagulation and settling which happen during the procedure of water treatment (including purification of drinking water and sewage treatment), widely used in scientific research, water supply plant and sewage treatment plant, colleges and universities, water treatment agent manufacturer etc.



BJT-4

BJT-6

Features:

- * LCD display
- * Synchro run, independent run
- * Store 12 groups of programs
- * Automatic calculating G & GT value
- * Automatic agent dosing and elevating

Technical Parameters:

Model	BJT-4(Portable)	BJT-6(Desktop)
Beakers	4pcs	6pcs
Acrylic Beaker	Round, 0.6L Φ95*130mm	Round, 1.0L Φ110*180mm Square optional, 1.5L 110*110*170mm
Speed Range	10-1000rpm, stepless speed regulation	
Speed Accuracy	±0.5%	
Speed Gradient(G value)	10-1000/s. Just for round beaker	
Running Time	Each step: 0-99min, 10 steps each program	
Measurement Temp. Range	0-50°C	
Measurement Temp. Accuracy	±1°C	
Consumption	80W	180W
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)	550*390*210mm	1080*350*400mm
Package Size(W*D*H)	610*450*270mm	950*480*530mm
Gross Weight	11kg	33kg

263

Automobile Exhaust Analyzer

Applications:

Used to measure vehicle emissions of gas concentration.



Features:

- * With built-in printer
- * With a high-brightness digital display
- * Automatic zero, linear automatic data processing, auto-alarm when the gas line blocking

Technical Parameters:

Model	BK-EA201	BK-EA301	BK-EA401	BK-EA501
Measuring Range	HC: 0-10000*10 ⁻⁶ (ppm)/vol CO: 0-10*10 ⁻¹ (%)vol CO ₂ : 0-5000*10 ⁻⁶ (ppm)/vol	HC: 0-10000*10 ⁻⁶ (ppm)/vol CO: 0-10*10 ⁻¹ (%)vol CO ₂ : 0-20*10 ⁻¹ (%)vol NO _x : 0-5000*10 ⁻⁶ (ppm)/vol	HC: 0-10000*10 ⁻⁶ (ppm)/vol CO: 0-10*10 ⁻¹ (%)vol CO ₂ : 0-20*10 ⁻¹ (%)vol O ₂ : 0-25*10 ⁻¹ (%)vol	HC: 0-10000*10 ⁻⁶ (ppm)/vol CO: 0-10*10 ⁻¹ (%)vol CO ₂ : 0-20*10 ⁻¹ (%)vol NO _x : 0-5000*10 ⁻⁶ (ppm)/vol
Indicating Error	HC±12*10 ⁻⁶ (ppm)/vol CO±0.06*10 ⁻¹ (%)vol CO ₂ ±25*10 ⁻⁶ (ppm)/vol	HC±12*10 ⁻⁶ (ppm)/vol CO±0.06*10 ⁻¹ (%)vol NO _x ±25*10 ⁻⁶ (ppm)/vol	HC±12*10 ⁻⁶ (ppm)/vol CO±0.06*10 ⁻¹ (%)vol CO ₂ ±0.5*10 ⁻¹ (%)vol O ₂ ±1*10 ⁻¹ (%)vol	HC±12*10 ⁻⁶ (ppm)/vol CO±0.06*10 ⁻¹ (%)vol CO ₂ ±0.5*10 ⁻¹ (%)vol NO _x ±25*10 ⁻⁶ (ppm)/vol
Stability	Moment drift±3%			
Repeatability	±2%			
Response Time	95% response is not more than 10 seconds			
Preheating Time	8min (preheating 3min emergency detection)			
Power Supply	AC110/220V±10%, 50/60Hz, Optional DV12V			
Package Size(W*D*H)	610*415*295mm			
Gross Weight	13kg			

264

Portable Pulse Oximeter



BK-PO1



BK-PO2

Features:

- * Monitor SpO₂, Pulse Rate & Temperature.
- * Audio and visual alarm when the parameter range is exceeded or the sensor is off.
- * Common AA alkaline batteries, support 7 consecutive working hours (only for BK-PO1).
- * Built-in rechargeable Li-ion battery, up to 15-hour running time (only for BK-PO2).
- * Bluetooth wireless is very convenient to realize reviewing the measurements in big screen via connecting PC and to upload history data to PC for review, printing or storage (only for BK-PO2).
- * Unique software for remote monitoring via synchronous data transfer (only for BK-PO2).

Technical Parameters:

Model	BK-PO1	BK-PO2
Display	LED	LCD
SpO ₂	Patient range: adult, child and neonate	
	Measurement range: 35%~99%	0%~100%
	Resolution: 1% Accuracy: 2% (70%~99%); unspecified (0%~69%)	
Pulse Rate	Measurement range: 30bpm~250bpm	0bpm~250bpm
	Resolution: 1bpm	
	Accuracy: 2bpm	
Temperature (only for BK-PO2)	Channel: 1	
	Input: body surface thermal-sensitive resistor temperature sensor	
	Range: 0°C~50°C	
	Resolution: 0.1°C Accuracy: 0.2°C	
Power Supply	Common 1.5V AA alkaline batteries (only for BK-PO1) D.C: 3.7V/3000mAh Li-ion rechargeable battery (only for BK-PO2)	
Standard Accessories	Oximeter main unit, Adult finger SpO ₂ sensor	Oximeter main unit, Adult finger SpO ₂ sensor, Skin surface skin TEMP probe, USB communication cable, Bluetooth radio, VSDV/Guardian/Bluetooth software disk
Package Size(W*D*H)	220*150*70mm	
Gross Weight	1.0kg	

265

Refractometer

Refractometer

Application:

BK-R670 Automatic Refractometer includes high-performance CCD light-sensitive part, can accurately and efficiently process sample analysis tests through unique signal acquisition, analysis and processing technology.



Features:

- * Cloud service system, connecting cloud database with instruments;
- * 7" LCD touch screen and innovative WINDOWS software interface
- * 2 USB ports, RS232 port and internet port for connecting printer or internet, U disk and SD card port for data exporting.
- * Perfect measuring prism
Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable
- * Ultra long life light source
It adopts High brightness LED lights with service life exceeding 10000 hours
- * Auto temperature control system
It adopts Peltier temperature control system, make sure the whole testing with accuracy and constant temperature.

Technical Parameters:

Model	BK-R670
Refractive Index Measuring Range	1.30000~1.70000nD
Measuring Error	±0.0001nD
Measuring Resolution	0.0001/0.00001nD(Optional)
Brix Measuring Range	0~100%
Measuring Error (Brix)	±0.1%
Measuring Resolution (Brix)	0.1%/0.01%(Optional)
Temperature Control Mode	Peltier temperature controller
Temperature Display Range	10~85°C
Temperature Control Range	5~70°C
Temperature Control Accuracy	±0.05°C
Interface	RS232, USB, Ethernet interface
Data Storage Capacity	4G
Display	7" TFT LCD touch screen
Consumption	45W
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)	365*300*150mm
Package Size(W*D*H)	480*410*310mm
Gross Weight	10kg

266

ABBE Digital Refractometer

Features for BK-RZT:

- * Full automatic measuring
- * Touch Screen
- * LCD temperature display, automatic correction and saving the data
- * Standard RS232 and USB interface



BK-RZT

Features for BK-R2S:

- * Hard glass prism
- * Standard RS232 interface
- * Measure the Brix of sugar solution
- * Visual aim and LCD display
- * Automatic correcting of the effect of temperature on the Brix
- * Measuring refractive index nD of transparent or translucent liquid and solid substances.



BK-R2S

Technical Parameters:

Model	BK-RZT	BK-R2S
Measuring Range	1.30000~1.70000nD Brix: 0~100%	1.3000~1.7000nD Brix: 0~100%
Measuring Resolution	±0.00001nD Brix: ±0.01%	±0.0001nD
Measuring Accuracy	±0.0002nD Brix: ±0.1%	±0.0002nD Brix: ±0.1%
Test Mode	8	/
Temperature Control Range	0~60°C	0~50°C
Temperature Resolution	0.1°C	
Temperature Accuracy	0.5°C	
Interface	RS232, USB	RS232
Display	7" LCD touch screen	LCD
Prism	Hard glass	
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)	340*200*110mm	210*110*310mm
Package Size(W*D*H)	500*330*220mm	370*240*470mm
Gross Weight	9kg	12kg

267

Portable Refractometer

Application:

Low Range: fruit juice, tomato juice, cola and most kinds of beverage
Middle Range: concentrated fruit juice, canned food, sugar solution
Inclusions, sauce, ketchup, seasoning and many kinds of industry fluids
High Range: liquid sugar, honey etc.



They can be used for industry fluid testing, such as for vegetable oils, industry, and many other chemical liquids or laboratory use fluids

Technical Parameters:

	Model	Range	Minimum Scale	Package Size(W*D*H)	Gross Weight
Brix	BK-PR5	0~5%	0.1%	155*25*40mm	0.15kg
	BK-PR10	0~10%	0.1%		
	BK-PR18	0~18%	0.1%		
	BK-PR20	0~20%	0.1%		
	BK-PR32	0~32%	0.2%		
	BK-PR50	0~50%	0.5%		
	BK-PR60	0~60%	0.5%		
	BK-PR82	28~62%	0.2%		
	BK-PR82	45~82%	0.5%		
	BK-PR92	58~92%	0.2%		
Honey	BK-PR80	0~80%(1 ranges)	0.5%	155*25*40mm	0.15kg
	BK-PR90	0~90%(1 ranges)	0.5%		
	BK-PRN3	58~92% Brix 38~43 oBe° 12~27% Water	0.5% Brix 0.5 oBe° 1% Water		
Salinity	BK-PRA1	0~100‰	1‰		
	BK-PRA2	1.000~1.070	0.005		
	BK-PRA3	0~28%	0.2%		
	BK-PRA4	0~40 PPT	1‰		
	BK-PRS1	0~100% Salinity	1‰		
		1.000~1.070	0.005		
		0~10% Brix	0.1%		
	BK-PRS2	0~28% Salinity	0.2%		
		0~32% Brix	0.2%		

268

Portable Digital Refractometers



PDR-series



PDR-F series

Features:

- * Wide choice-over 20 models available
- * Automatic temperature compensation
- * Automatic power management
- * With IP65 verification of waterproof and dustproof (only PDR-F series)

Technical Parameters:

Model	Scale	Range	Min. Reading	Accuracy	Temp. Range	Temp. Precision	Power Supply	Packing Size (W*D*H)mm	G.W. (kg)
PDR-35	Brix (%)	0-35%	0.1	±0.2	0°C-40°C (32°F-104°F)	±0.5°C(1°F)	2 x AAA (1.5V)	135*66*40	0.3
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					
PDR-45	Brix (%)	0-45%	0.1	±0.2					
	Refractive Index	1.3330-1.4098	0.0001	±0.0005					
PDR-55	Brix (%)	0-85%	0.1	±0.5					
	Refractive Index	1.3330-1.5100	0.0001	±0.0003					
PDR-62	Brix (%)	58-92%	0.1	±0.2					
	Refractive Index	1.4370-1.5233	0.0001	±0.0003					
PDR-HN1	Brix (%)	58-92%	0.1	±0.2					
	"B, e	38-43	0.1	±0.2					
	Water (IHC2002)	13-25	0.1	±0.2					
	Refractive Index	1.4370-1.5233	0.0001	±0.0003					
PDR-HN2	Brix (%)	58-92%	0.1	±0.2					
	"B, e	38-43	0.1	±0.2					
	Water (IHC2002)	17-27	0.1	±0.2					
	Refractive Index	1.4370-1.5233	0.0001	±0.0003					
PDR-A1	Salinity	0-28%	0.1	±0.2					
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					
PDR-S1	Brix (%)	0-35%	0.1	±0.2					
	Salinity	0-28%	0.1	±0.2					
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					

Technical Parameters:

Model	Scale	Range	Min. Reading	Accuracy	Temp. Range	Temp. Precision	Power Supply	Packing Size (W*D*H)mm	G.W. (kg)
PDR-R1	SERUM P. (g/dl)	1.000-1.050	0.001	±0.001	0°C-40°C (32°F-104°F)	±0.5°C(1°F)	2 x AAA (1.5V)	135*66*40	0.3
	URINE SP G	0-12g/dl	0.1	±0.1					
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					
PDR-R2	SERUM P. (g/dl)	0-14g/dl	0.1	±0.1					
	URINE SP G (dog)	1.000-1.080	0.001	±0.001					
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					
PDR-R3	SERUM P. (g/dl)	0-14g/dl	0.1	±0.1					
	URINE SP G (cat)	1.000-1.080	0.001	±0.001					
	Refractive Index	1.3330-1.3900	0.0001	±0.0003					
PDR-L1	Alcohol	0-60%w/v	0.1	±0.3					
PDR-L2	Alcohol	0-60%w/v	0.1	±0.5					
	Brix (%)	0-35%	0.1	±0.2					
PDR-FWN1	VOL AP (%)	0-22%	0.1	±0.2					
	Oe (Germany)	30-150	1	±1					
	KMW	0-25	0.1	±0.2					
PDR-FWN2	Brix (%)	0-35%	0.1	±0.2					
	VOL AP (%)	0-22%	0.1	±0.2					
	Oe (Germany)	30-150	1	±1					
	KMW	0-25	0.1	±0.2					
PDR-FWN3	Brix (%)	0-35%	0.1	±0.2					
	VOL AP (%)	0-22%	0.1	±0.2					
	Oe (Switzerland)	0-150	1	±1					
	KMW	0-25	0.1	±0.2					
PDR-FK1	Soybean milk concentration	0-35%	0.1	±0.3					
	Glycol	32-50°F	0.1°F	±1°F					
PDR-FC1	Propanediol	32-50°F	0.1°F	±1°F					
	Battery fluid	1.00-1.50sg	0.01 sg	±0.01 sg					
	Glass water	32-40°F	0.1°F	±1°F					
PDR-FC2	Glycol	0-50°C	0.1°C	±1°F					
	Propanediol	0-50°C	0.1°C	±1°F					
	Battery fluid	1.00-1.50sg	0.01 sg	±0.01 sg					
	Glass water	0-40°C	0.1°C	±1°C					

269

270

Polarimeter

Polarimeter



Features:

- * Automatic calibration function, to calibrate optical rotation via five standard points(BK-P810A, BK-P850A).
- * Peltier temperature control, temperature range: 15-30°C, temperature accuracy: ±0.3°C (BK-P850, BK-P850A).
- * 5.6" color touch screen for displaying and operating. WINDOWS operating interface.
- * Wide measuring range: optical rotation: ±89.99°, optical specific rotation: 250°Z.

Technical Parameters:

Model	BK-P810	BK-P810A	BK-P810Pro	BK-P850	BK-P850A	BK-P850Pro
Light Source	LED lamp					
Measuring Range	±89.99°, 259°Z					
Wavelength	589.3nm					
Readable Accuracy	0.001°					
Measuring Accuracy	0.02°					
Repeatability	0.002°					
Sample Transmittance	> 0.1%					
Temp. Control Range	\ Built in Peltier, 15 -30°C, ±0.3°C					
Test Mode	Optical rotation, optical specific rotation, concentration, sugar scale Z					
Display	5.6" color touch screen; (8" color touch screen for BK-P810Pro/850Pro)					
Data Storage Capacity	1000sets. (8GB for BK-P810Pro/850Pro)					
Interface	RS232 or USB; Excel format and "Blue Ocean" format; (Wi-Fi for BK-P810Pro/850Pro)					
Atlas Duration	4 Hours only for BK-P810Pro/850Pro					
Power Consumption	250W					
Power Supply	AC220V±10%, 50Hz					
External Size(W*D*H)	708*330*287mm					
Package Size(W*D*H)	840*455*445mm					
Gross Weight	30kg			40kg		
* "A" in BK-P810A and BK-P850A mean automatic calibrate optical rotation.						

Automatic Polarimeter



BK-P1/2



BK-P3

Features:

- * LCD Display
- * Photoelectric test and microcomputer control.
- * Preheating is not needed. (Only for BK-P1 and BK-P2 Model).
- * Dark-colored sample can be measure. (Only for BK-P1 and BK-P2 Model).
- * Automatic repetition-measurement for 6 times, and calculation of average value and means square root.
- * Sample chamber adopts constant temperature designing in order to reduce the temperature heating influence.

Technical Parameters:

Model	BK-P1	BK-P2	BK-P3
Light Source	LED lamp		Sodium lamp
Measuring range	±45°(optical rotation) ±120° Z(sugar)		
Wavelength	589nm		
Readable Accuracy	0.001°(optical rotation)		0.001°(optical rotation) 0.01°Z(sugar)
Measuring Accuracy	±0.01°(-15°s optical rotations +15°)		±(0.01+measurement value*0.05°)(optical rotation)
Repeatability	0.002°(optical rotation)		±0.003°(optical rotation)
Sample Transmittance	> 1%		/
Temperature Control Range	/		15-30°C
Temperature Accuracy	±0.5°C		/
Test Mode	Optical rotation, specific rotation, concentration, sugar degree		
Test Tube	200mm, 100mm	200mm, 100mm, 100mm (Constant Temperature tube)	200mm, 100mm
Interface	USB/RS232		RS232
Power Supply	AC110/220V±10%, 50/60Hz		/
External Size(W*D*H)	680*370*280mm		570*350*280mm
Package Size(W*D*H)	850*500*470mm		730*480*470mm
Gross Weight	38kg		36kg

271

272

BK-P2S Digital Automatic Polarimeter

BK-P2B Automatic Polarimeter



Features:

- * LCD Display
- * Storage of three times results and calculation of average values
- * Dark-colored sample can be measured
- * Photoelectric test and automatic servomechanism control

Technical Parameters:

Model	BK-P2S	BK-P2B
Light Source	LED lamp	
Measuring Range	$\pm 45^\circ$ (optical rotation) $\pm 120^\circ$ Z (sugar)	$\pm 45^\circ$ (optical rotation)
Wavelength	589nm	
Readable Accuracy	0.001° (optical rotation) 0.01° Z (sugar)	0.002° (optical rotation)
Measuring Accuracy	$\pm (0.01 \times \text{measurement value} + 0.05\%)$ (optical rotation) $\pm (0.03 \times \text{measurement value} + 0.05\%)$ Z (sugar)	$\pm (0.01 \times \text{measurement value} + 0.05\%)$
Repeatability	$\leq 0.002^\circ$ (optical rotation)	$\leq 0.01^\circ$ (optical rotation)
Test Mode	Optical rotation, sugar degree	Optical rotation
Test Tube	200mm, 100mm	
Sample Transmittance	> 1%	> 10%
Interface	RS232	
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz	
External Size(W*D*H)	570*350*280mm	
Package Size(W*D*H)	730*480*470mm	
Gross Weight	36kg	

273

Disc Polarimeter

Features:

- * Visual aim
- * Manual measure
- * Easy to operate



Technical Parameters:

Model	BK-P4
Light Source	Sodium lamp / LED
Wavelength	589.44nm
Measuring Range	$-180^\circ \sim +180^\circ$
Division Value	1°
Venire Readable Accuracy	0.05°
Magnifying Factor of the Magnifying Glass	4 X
Test Tube	200mm, 100mm
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz
External Size(W*D*H)	440*110*230mm
Package Size(W*D*H)	600*220*400mm
Gross Weight	7.6kg

Optional Polarimeter Accessories

* Micro Tube

With sample loading capacity less than 0.8ml and length of 50mm, suitable for BK-P2S, BK-P1 automatic polarimeter.

* Heated Tube

Dedicated to BK-P2, BK-P3 for the length of about 100mm, the sample loading is 1.98ml; for length of 50mm, sample loading is about 0.99ml, and the non-corrosive type is optional to purchase.

* Standard Quartz Tube

The only calibration equipment for standard polarimeter and optical Brix; with stable performance, less influence by the environment, and easy-to-use features. The loading of quartz tube includes $\pm 1^\circ$, $\pm 5^\circ$, $\pm 7^\circ$, $\pm 34^\circ$ and $\pm 68^\circ$, for customer to choose accordingly.



274

Melting Point Apparatus

Colorless and color Sample Manual Melting Point Apparatus

Application:

This machine is used to determine the melting point of a substance. It is widely used in the chemical industry and pharmacy research. Such as measurement of spices, dyes and measurement of other organic crystal substances.

Features:

- * 8-inch LCD touch screen.
- * 720P HD camera, 8X optical zoom.
- * Linear heating rate 0.10 °C-20.00 °C adjustable.
- * With USB interface can connect to a printer.



Technical Parameters:

Model	BMP420
Temperature range	50~300°C
Temperature accuracy	0.4°C (<200°C), 0.7°C ($\geq 200^\circ\text{C}$)
Temperature resolution	0.1°C
Temperature repeatability	0.2°C at 0.5°C/min
Linear heating up rate	0.1 to 20°C/min
Display	8 inch LCD touch screen
Standard capillary diameter	Internal dia. 1.0mm; External dia. 1.4mm
Capacity per batch	4 pcs
Interface	USB, Wire or wireless
Power consumption	150W
Power supply	AC220V $\pm 10\%$, 50/60Hz; AC110V $\pm 10\%$, 60Hz
External size(W*D*H)	340*200*200mm
Package size(W*D*H)	475*345*390mm
Gross weight	8kg

275

Digital Melting Point Apparatus



BMP-2C/1C



BMP-1B

Features for BMP-2C/1C:

- * PID & PWM controller.
- * LCD touch screen for BMP-2C/BMP-1C.
- * USB & RS232 interface.
- * The melting curve can be recorded automatically.
- * It can calculate average value of initial and final melting points automatically.

Features for BMP-1B:

- * Photoelectric test.
- * LCD display.
- * RS232 interface.
- * Real time melting curve.

Technical Parameters:

Model	BMP-2C	BMP-1C	BMP-1B
Measuring Range	RT~360°C	RT~400°C	RT~320°C
Resolution	0.1°C		
Linear heating-up Rate	0.1°C~20°C/min		0.2, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0°C/min
Temperature Accuracy	0.4°C ($\leq 200^\circ\text{C}$), 0.7°C ($> 200^\circ\text{C}$)		
Repeatability	0.3°C		
Capillary Size	$\phi 1.4\text{mm}$ (outside diameter), $\phi 1.0\text{mm}$ (inside diameter), 80mm (height)		
Sample Loading Height	3~5mm		>3mm
Data Storage	1000 sets		/
Optional Accessories	Printer		
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz		
External Size(W*D*H)	410*290*110mm	330*290*110mm	330*290*110mm
Package Size(W*D*H)	578*428*306mm	492*428*305mm	496*428*306mm
Gross Weight	13kg		11kg

276

Flash Point Tester

Open-Cup Flash Point Tester

Application:

It is applicable to all petroleum products with flash points above 79°C and below 400°C except fuel oils.



BK-FP3536



BK-FP3536A

Features:

- * BK-FP3536A Automatic Open-Cup Flash Point Tester.
- * It adopts special heating furnace to ensure the safety of test. * Stainless steel working table and furnace.
- * The instrument adopts desktop structure. Easy to operate. * LCD screen to display.
- * Automatically open the lid, detect the flash point and print test data. The test arm automatically rise up and lower down.

Technical Parameters:

Model	BK-FP3536	BK-FP3536A
Thermometer	-6°C~400°C. It is the same as thermometer ASTM 11C	
Ambient Temperature	-10°C~50°C	10°C~40°C
Relative Humidity	≤85%	
Consumption	650W	400W
Test Flame Applicator	It applies the test flame automatically.	
Heating Device	Quartz tube furnace heating, no naked fire, explosion prevented. The power is adjustable from 0W to 600W.	
Igniting Device	(1) Ignition source: coal gas (or civil gas) (2) Flame diameter is 3.2mm~4.8mm	Electric ignition. Gas flame diameter is 3.2mm~4.8mm
Flash Point Determination	\	Range: Ambient to 400°C, Repeatability: ≤2°C Reproducibility: ≤17°C, Accuracy: 0.1°C
Power Supply	AC220V±10%, 50Hz	
Dimension(W*D*H)	350*290*350mm	410*360*310mm
Package Size(W*D*H)	520*440*340mm	600*510*600mm
Gross Weight	12kg	25kg

277

Closed-Cup Flash Point Tester

Application:

It is used to make determination of the closed cup flash point of the petroleum products.

Features:

- * BK-FP261:
- * The heating power is adjustable and shown visually by voltmeter.
- * The structure is designed small and exquisite with stainless-steel table board.
- * BK-FP261A:
- * Simulation tracking displays function curves of heating up and test time.
- * Automatically calibrate the effect of atmospheric pressure to test the corrected value.
- * Differential coefficient detection. Automatically correct the system deviation.
- * Automatically open the lid, detect the flash point and print test data.
- * The test arm rises up and lowers down automatically.
- * Igniting with electric igniting gun, forced air cooling.



BK-FP261



BK-FP261A

Technical Parameters:

Model	BK-FP261	BK-FP261A
Ambient Temperature	≤30°C	≤40°C
Relative Humidity	≤85%	≤80%
Flash Point Determination	Mercury-in-glass thermometer. Specifications are as below: Scale -5°C~110°C, division 0.5°C Scale 20°C~150°C, division 1°C Scale 90°C~370°C, division 2°C	Range: Ambient to 300°C Repeatability: ≤3°C Reproducibility: ≤4°C Accuracy: 0.1°C
Oil Cup	Inner diameter: 50.7mm~50.8mm. Depth: 55.7mm~56.0mm The scribed line depth of capacity of testing oil: 33.9mm~34.3mm. Capacity of testing oil about 70ml	
Stirring Rate	Procedure A: (90~120)RPM, Procedure B: (250±10)RPM	
Igniting Device	Igniting source: gas (or other civilian fuels, the same below) Electric ignition. Gas flame diameter: 3.2mm~4.8mm	
Heating Device	The heating power is continuously adjustable from 0 W to 600W.	
Heating Rate	(1~12)°C/min. Controllable and adjustable	Procedure A: (5~6)°C/min Procedure B: (1~1.6)°C/min
Consumption	650W	500W
Power Supply	AC220V±10%, 50Hz	
Dimension(W*D*H)	340*320*450mm	520*360*310mm
Package Size(W*D*H)	470*400*410mm	600*510*600mm
Gross Weight	12.5kg	25kg

278

Pre-Processing of Bio-Samples

Homogenizer

Overview:



Typical Samples:

- * Human, animal, plant cells
- * Micro-organisms
- * Soil and sediments
- * Swabs and feces
- * Drugs, polymers, lotions, etc.



Features:

- * "3D Rotating High Speed Motion" for quick disruption of those fibrous tissues and resistant cells.
- * 50 Programmable memory settings and user optional condition settings.
- * A wide range of rotation speed settings from 4.0m/s to 7.0m/s, increment 0.05m/s.
- * Brushless motor realizing no brush particle generation and no brush replacement.
- * Easy to remove sample tube holder and easy to fix sample tubes with the turn of the central knob.
- * Easy to monitor the disruption process through the clear lid.
- * Disposable tubes ensure no threat of cross-contamination.
- * Most samples can be processed in 35 seconds or less.

Technical Parameters:

Model	HG-24
Speed Range	4.0 m/s~7.0 m/s (in steps of 0.05 m/s)
Cycle Duration	1~90 s (in step of 1 s)
Pause Time	1~90 s (in step of 1 s)
Acceleration	< 4s
Programmable	50
Number of Cycles	10
Display	OLED
Number of Samples	24*2ml / 1.5ml or 12*5ml
Tube Type	Grinding tube
Running Noise	< 70dB
Power Supply	AC110/220V±10%, 50/60Hz
External Size(L*D*H)	280*360*385mm
Package Size(L*D*H)	620*520*630mm
Net/Gross Weight	25kg/37kg

279

Semi Automated Plate Sealer

Features:

Safety

- * If a hand or objects stuck in the drawer when it's moving, the drawer motor will reverse automatically.
- * This feature prevents both user and the unit from injury.
- * Special and smart design on the drawer, it can be detached from the main device.

Power Save Mode

- * If the unit is left on but inactive for long periods, it will enter a power saving mode.
- * When the unit is inactive for 60min, it will switch into stand-by mode. Then the temperature will be reduced to 60°C to save power.
- * When the unit is inactive for 120min, it will switch into Power-Save mode. The display and heating element will be switched off. The user can awaken the unit by pressing any button.
- * Rapid heating (reaching 170°C in 300seconds)
- * Adjustable Sealing Temperature: 80°C~200°C
- * OLED display screen, high light.
- * Applicable for different micro plates and heat seals.
- * Precise temperature, timing and pressure for consistent sealing.



Technical Parameters:

Model	BK-PS1000
Display	OLED
Adjustable Sealing Temperature	80°C~200°C
Temperature Accuracy	±1°C
Seal Time	0.5s~10s (increment of 0.1s)
Seals Plate Heights	9~48mm
Compatible Plate Materials	PP(Polypropylene), PS(Polystyrene), PE(Polyethylene)
Compatible Plate Types	Standard Assay Plates Deep-well Storage Plates PCR Plates: skirted, semi-skirted, non-skirted
Power	300W
Compatible Sealing Film Types	Foil-polypropylene laminate Clear polyester-polypropylene laminate Clear polymer Thin clear polymer
Sealing Temperature	OFF, 80°C~200°C (increment of 1.0°C)
Temperature Uniformity	±1°C
Seal Plate Height	9~48mm
Voltage	AC110V or 220V/50-60Hz
Compact Footprint	178mm width*370mm depth
External Size (W*D*H)mm	370*178*330
Package Size (W*D*H)mm	420*270*460
Net/Gross Weight(kg)	12/13

Standard Blocks:

Number	Type
B01	Deep hole plate (ELISA plate) adapters
B02	96-hole microtiter plate adapter

Optional Blocks:

Number	Type
B03	384 hole microtiter plate adapter

280

Denaturation & Hybridization System



Features:

- * This instrument is adopted FISH processing step, which can reduce a lot of manual operating time and avoid the damage of harmful reagent.
- * Full touch screen operation, friendly human interface.
- * Support restart functionality runs an unexpected power outage, when power is restored can be scheduled to automatically back up and running.
- * Supporting automatic cooling function after running over.
- * Supporting automatic warm-up function.
- * Platform high precision of temperature control, low fluctuation.
- * Can deal with 12 slides.
- * Support 105 custom programs stored functions.
- * Integrated denaturation and hybridization, hybrid, multiple-step operation three modes of operation.

Technical Parameters:

Model	BK-DH2000
Temperature Control Range	RT+5°C~100°C
Temperature Setting Range	0°C~100°C
Capacity	12 Slides
Temperature Accuracy	±1°C
Temperature Uniformity	±1°C
Timing Range	1min~99h59min
Heating Time(37°C to 95°C)	≤2min
Cooling Time(95°C to 45°C)	≤6min
Power	350w
Power Supply	220V/50/60Hz
External Size(L*W*H) mm	440*220*120
Gross Weight	4.5kg

Thermo Shaker Incubator



Features:

- * LCD display. It is easy to setup and use.
- * Reliable design with inner extra temperature protection.
- * Each thermo shaker is equipped with lifter that is easy to replace different blocks.
- * Digital accuracy and convenience.
- * Precision wells for uniform thermal transfer.
- * Assorted blocks for a wide variety of tube sizes.
- * Brushless DC Motor: noiseless long service life maintenance-free.
- * Conform to CE safety standard.
- * Accurately control and display time, temperature and speed.

Technical Parameters:

Model	BK-TS110	Model	BK-TS110
Temperature Setting Range	0°C~100°C	Storage At 4°C	Yes
Temperature Control Range	RT~20°C~100°C	Auto Heating	Yes
Timing Range	1min~99h59min	Auto Resume To Run	Yes
Temperature Accuracy	±0.3°C	Power Supply	150w
Temperature Uniformity	±0.3°C	Fuse	250V 3A 55×20
Shaking Speed	200rpm~1500rpm	Heating Time	≤15min
Orbit	3mm	Cooling Time	≤15min(RT~RT-20°C); ≤10min (100°C~20°C)
Multi Point Running	Yes (Max 5points)	Voltage	AC110~220V/50~60Hz
Multi Cycle	Yes (Max 99times)	Dimension(mm)	260*195*150
Auto Running	Yes	Gross Weight	7.5kg

Optional Blocks:

Type	Test Tube Diameter	Type	Test Tube Diameter
B30	96*0.2ml	B36	24*5ml
B31	54*0.5ml	B37	15*10ml
B32	35*1.5ml	B38	12*15ml
B33	36*2.0ml	B38	6*50ml(round-shape bottom)
B34	15*0.5ml+20*1.5ml	B39-S	6*50ml(cone-shape bottom)
B35	96*0.2ml(elisa plate)	/	/

Features:

- * LCD display system status and parameters.
- * Stable and reliable shaking.
- * Easy to operate with one touch knob.
- * Automatic fault detection and buzzer alarm function.
- * 12-month warranty.



Technical Parameters:

Model	BK-TS100
Time Range	1min~99h59min
Mixing Orbit	3mm
Sample Capacity	4plates
Power Supply Voltage	AC110~240V, 50/60Hz
Speed Range	200~1600rpm
Speed Step Value	10rpm
Consumption	45W
Dimension(mm)	280*270*140
Weight	4.0kg

Dry Bath Incubator

Features:

- * Exceptional temperature uniformity and accuracy -- due to advanced temperature control combined with high quality, precision engineered block providing excellent thermal contact.
- * Wide range of interchangeable aluminum blocks.
- * Heat to 105°C, optional external temperature probe.
- * Blocks optional available as accessories for all applications - tubes, vials and microplates.
- * Block extraction tool is supplied, allowing blocks to be removed easily.

1. Specification for DBI-I Dry Bath Incubator:

- * Temperature Control Range: RT+5°C ~ 105°C
- * Stability at 100°C: ±0.5°C
- * Uniformity: within the block at 37°C: ±0.2°C
- * Heating time (25°C to 100°C): ≤20min
- * Display Accuracy / Display: 0.1°C / LED
- * Timing Range: 1min ~ 99h59min
- * Block Quantity: 1
- * External Size: 250*190*130mm
- * Package Size: 390*310*250mm
- * Net weight: 2.5kg, Gross weight: 4.1kg



DBI-I

2. Specification for DBI-II Dry Bath Incubator:

- * Temperature Control Range: RT+5°C ~ 105°C
- * Stability at 100°C: ±0.5°C
- * Uniformity: within the block at 37°C: ±0.2°C
- * Across similar blocks at 37°C: ±0.3°C
- * Heating time (25°C to 100°C): ≤20min
- * Display Accuracy / Display: 0.1°C / LED
- * Timing Range: 1min ~ 99h59min
- * Block Quantity: 2
- * External Size: 365*210*150mm
- * Package Size: 480*330*280mm
- * Net weight: 4.5kg, Gross weight: 6.2kg



DBI-II

3. Specification for Dry Bath Incubator DBI-III:

- * Temperature Control Range: RT+5°C ~ 100°C
- * Time required for temperature to increase from 20°C to 100°C: ≤15 min
- * Temperature control discrepancy: ±0.5°C
- * Display discrepancy: ±0.1°C
- * Homogeneity of block temperature: ±0.5°C
- * Maximum heating power: 100W
- * Maximum temp: 100°C
- * Time Range: 1min~99h59 min
- * External Size: 225*160*197mm
- * Package Size: 330*280*340mm
- * Net weight: 3kg, Gross weight: 6kg



DBI-III

4. Specification for Dry Bath Incubator DBI-IV:

- * Temperature Control Range: -10°C~100°C
- * Timing Range: 1min~99h59min
- * Temperature Control Accuracy: ±0.5°C
- * Display Accuracy: 0.1°C
- * Heating Time: ≤15min (from 20°C to 100°C)
- * Cooling Time: ≤15min (from 20°C to -5°C) If the room temperature is lower 30°C
≤15min (from 20°C to -10°C) If the room temperature is lower 25°C
- * External Size: 300*220*180 mm
- * Package Size: 480*380*330mm
- * Net weight: 5kg, Gross weight: 8kg



DBI-IV

5. Specification for DBI-V Dry Bath Incubator:

- * Temperature Control Range: from 5°C above ambient to 80°C
- * Timing Range: 1min~99min or 1sec~999sec
- * Temperature Control Accuracy: ±0.5°C
- * Display Accuracy: 0.1°C
- * Heating Time: ≤12 min (from 25°C to 80°C)
- * Heating Parts: Heating Film
- * External Size: 150*110*100mm
- * Package Size: 260*200*170mm
- * Net weight: 0.5kg, Gross weight: 2kg



DBI-V

6. Specification for DBI-VI Dry Bath Incubator:

- * Temperature Control Range: from 5°C above ambient to 150°C
- * Time required for temperature to increase from 40°C to 150°C: ≤30min
- * Temperature Control Discrepancy: ±0.5°C
- * Display Discrepancy: ±0.1°C
- * Homogeneity of Block Temperature: ±0.5°C
- * Maximum Heated power: 200W
- * Dimension: 280*240*110mm
- * Time Range: 1~99h59min
- * External Size: 280*240*110mm
- * Package Size: 470*370*330mm
- * Net weight: 4.5kg, Gross weight: 7kg



DBI-VI



Gel Card Incubator

Application:

Gel card incubator is matched with our gel cards centrifuge to use and holds 2 independent incubation zones with a capacity for 12 gel cards. It can be suitable for many types of gel cards from different manufacturers.



Features:

- * Keep 24-Gel Cards in temperature of 37 degree.
- * LED display, time can be set.
- * Audible programmable alarm to notify end of incubation period.
- * Microprocessor PID temperature control, accurate and stable.

Technical Parameters:

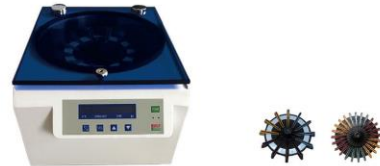
Model	BK-GC124
Capacity	24 cards
Temperature	37°C
Temperature Accuracy	<0.5°C
Temperature Uniformity	±0.5°C
Time Range	0-99min59s
Consumption	250W
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	280*390*140
Package Size(W*D*H)mm	445*335*190
Net/Gross Weight(kg)	6.2 / 8

285

Gel Card Centrifuge

Application:

Gel card centrifuge is used in blood serology, blood type routine test, erythrocyte washing, microcolumn agglutination, immunology and other tests.



Features:

- * DC Brushless motor, low noise.
- * Microprocessor control system & soft touch control panel.
- * LCD display: RCF, Speed, Time.
- * Electric lid interlock, over speed and imbalance protection.
- * 20 programs for standard and programmability are available.

Technical Parameters:

Model	BKC-GC12	BKC-GC24
Max. Speed	3000rpm	
Max. RCF	830xg	1080xg
Rotor	12 cards	24 cards
Speed Precision	±20rpm	
Time Range	0-99min	
Noise	≤55dB	
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)mm	483*320*265	528*370*280
Package Size(W*D*H)mm	560*380*330	610*435*340
Gross Weight(kg)	24	30

286

Sample Concentrator

Features:

- * High precision and wide range of temp control.
- * Blowing a large number of samples at one time.
- * Blowing each sample independently.
- * Amount of airflow can be adjusted.
- * Easy operation, safe and reliable to use.
- * 12-month warranty.

Technical Parameters:

Model	BK-SC100
Temp. Control Range	RT +5°C-160°C
Temp. Uniformity	±0.5°C
Display Accuracy	0.1°C
Heating Time	≤15min (from 25°C to 160°C)
Max Gas Usage	15L/min
Max Gas Pressure	0.02Mpa (Gas pins 16pcs), 0.03Mpa (Gas pins 16pcs)
Max Power	300W
Dimension(mm)	260x220x450
Temp. Accuracy	±0.5°C (@40°C)
Temp. Accuracy	±1°C (@120°C)
Timing Range	1-99h59min/∞
Max Vertical Travel	200mm
Needle Length	150mm
Block Quantity	1
Voltage	220V 50/60Hz
Weight(kg)	7.0



Optional Blocks:

Type	Test Tube Diameter	Capacity
B03	10mm	12
B04	12mm	12
B05	13mm	12
B06	15mm	12
B07	16mm	12
B08	18mm	12
B09	20mm	12
B10	25mm	8
B11	28mm	4
B12	40mm	3
B15	1.5ml (centrifuge tube)	24
B16	2.0ml (centrifuge tube)	24

Sample Concentrator(visible)

Features:

- * High precision and wide range of temp control.
- * Blowing a large number of samples at one time.
- * Blowing each sample independently.
- * Amount of airflow can be adjusted.
- * With special slotting-design block, surface location of.
- * Concentrated samples can be observed.
- * Easy operation, safe and reliable to use.

Technical Parameters:

Model	BK-SC400
Temp. Control Range	RT +5°C-160°C
Temp. Uniformity	±0.5°C
Display Accuracy	0.1°C
Heating Time	≤15min (from 25°C to 160°C)
Nitrogen Flow Rate	15L/min
Nitrogen Pressure	0.1Mpa
Max Power	500W
Dimension(mm)	280x220x475
Temp. Accuracy	±0.5°C (@40°C)
Temp. Accuracy	±1°C (@120°C)
Timing Range	1min-99h59min/∞
Needle Length	150mm
Block Quantity	1
Voltage	AC220V or AC110V, 50/60Hz
Weight(kg)	7.3



Optional Blocks:

Type	Diameter	Depth	Capacity
B02 027 001	10.5mm	50mm	12
B02 027 002	12.5mm	50mm	12
B02 027 003	13.5mm	50mm	12
B02 027 004	15.5mm	50mm	12
B02 027 005	16.5mm	50mm	12
B02 027 006	19.5mm	50mm	12
B02 027 007	20.5mm	50mm	12

Leakage Tester

Application:

Seal tester is used in food industry, beverage, pharmaceuticals, personal care etc.

By air compressor, seal tester's negative pressure is generated to test the hermetic sealing quality and performance of packaging bags, bottles and cans etc.



Features:

- * Microcomputer control, test parameters can be set, automatic testing process.
- * LCD screen display.
- * Sealed chamber is made of high quality plexiglass tubing with 15mm thickness.
- * Backflush automatically to unload pressure.

Technical Parameters:

Model	BK-ST134
Vacuum Degree Range	-90-0kPa
Vacuum Precision	0.1KPa
Resolution	0.1KPa
Indication of Changes	±1%
Vacuum Chamber Size	Φ270*210mm(standard). Note: customization is available for other sizes
Original Air Pressure	0.7MPa (Owned)
Original Air Connection	Φ6Polyurethane pipes
Control Method	Microcomputer control, automatic test procedure
Display	LCD display
Environmental Conditions	RT(20±10)°C, Relative humidity<85%
Power Supply	AC110/220V±10%, 50/60Hz
Optional Accessories	Vacuum Chamber: Φ360*H585mm Vacuum Chamber: Φ460*H330mm JW-032B Air Compressor
Dimensions	Sealed vacuum chamber: Φ300*350 mm Operation host (W*D*H): 320*420*120mm
Package Size(W*D*H)	400*620*600mm
Net Weight/Gross Weight	16kg/21kg

287

288

Soil Nutrient Tester

Application:

It is used to detect available nitrogen, available phosphorus, available potassium, organic matter, soil pH and soil salinity in soil, plant, chemical fertilizer.

Features:

- * LCD display.
- * Print testing date, sample number, sample items, sample contents, variety.
- * Large capacity storage (time, place, fertilizers), datum can be checked at any time.
- * Quickly test the N, P, K, organic matter, salinity, and pH in the soil, fertilizer and plants.
- * With the function of time display, can automatically record and save the time of tested sample.
- * Can set crop variety, crop yield, fertilizer variety, and automatically count the fertilizing amount.



Technical Parameters:

Model	BK-Y6A	BK-Y6PC	BK-Y7PC
Soil Nutrient	Stability	Absorbency of light drift < 0.003	
	Repeatability	Absorbency of light < 0.005	
	Linearity Errors	Red light for Copper sulfate, and blue light for potassium dichromate < 3.0%	
	Sensitivity	Red light $\pm 4.5^{*}10^{-1}$, Blue light $\pm 3.17^{*}10^{-1}$	
	Wavelength Range	Red light 620 \pm 5nm; Blue light 440 \pm 5nm	
PH	Anti-Knocking Performance	Qualified	
	Testing Range	1~14	
	Error	\pm 0.5%	
Salinity	Testing Range	0.01%~1.00%	
	Error	\pm 5%	
Function	Test N, P, K, organic matter, soil pH, soil salinity, with storage function, built-in the amount of nutrients needed for growth of 73 kinds of crops, can provide guidance for fertilizing amount according to needs, with printing function	On the basis of BK-Y6A, with a software, be able to connect to computer for data storage, tele-transmission and printing	Moisture: Moisture unit: %/(m/m) Accuracy: \pm 2% Resolution: 0.1% Testing range: 0~100% On the basis of BK-Y6PC, but can measure soil moisture
Power Supply		220V/110V \pm 10%, 50/60Hz	
Package Size(W*D*H)		670*385*215mm	
Gross Weight		9kg	

289

Portable Leaf Area Meter

Application:

Portable leaf area meter is mainly used for determination plant leaf, is a portable instrument can work in the field. The leaf area and related parameters of the leaves can be measured accurately, quickly and without damage, the area of the plant leaves and other flakes can also be measured. Widely used in agriculture, meteorology, forestry and other departments.



Technical Parameters:

Model	LAM-A/B
Unit	Millimeter, Square Centimeter
Precision	±2%
Resolution	0.01cm ²
Measuring Length	≤1000mm
Measuring Width	≤100mm
Thickness	≤8mm
Data Capacity	≥1000Groups
Packing Size(W*D*H)	390*230*220mm
Gross Weight	1.8kg

Features:

- * Easy to operate. With Micro-computer technology, LCD display.
- * Test many kinds of data, such as leaf area, average area, length of leaf, width of leaf, perimeter and ratio of length and width.
- * RS-232 link with computer by software, you can put the data into computer, and convert data to excel format and print. (only for LAM-B)

Portable Chlorophyll Meter

Application:

Chlorophyll Meter is able to measure chlorophyll content of plants and leaf temperature. Chlorophyll content and leaf nitrogen content have a very close relationship. Thus, chlorophyll content can reflect plants demand for nitro. Using the instrument can put nitrogen fertilizer reasonably, improve utilization of nitrogen and protect environment.

Features:

- * Enter the name of the plant, the standard nitrogen content and utilization, the standard fertilizer can be directly calculated.
- * Chlorophyll, leaf temperature are displayed on same screen at the same time, and can be stored at the same time.
- * USB interface can be connected to the computer to export the measured data, to facilitate the management and analysis of plant nutrients. (Only for CM-B)

Technical Parameters:

Model	CM-A/B
Measuring Area	3mm*2mm
Measuring Mode	2-wavelength concentration difference of optical methods
Sensors	Silicon semiconductor photodiode
Display Mode	Measuring value: 3 digits liquid crystal display Measuring times: 2 digits liquid crystal display
Min Measuring Interval	< 3s
Measuring Range	0.0~99.9 SPAD; -10~99.9°C
Accuracy	±1.0 SPAD; ±0.5°C
Repeat	±0.3 SPAD; ±0.2°C
Power Supply	4.2V~2000mAh rechargeable Li battery
Memory Capacity	30Kb, automatically calculate and show the average
Package Size(W*D*H)	270*210*140mm
Gross Weight	1.0kg



290

Titration

Potential Titrator

Features for BK-PT4B:

- * Large LCD screen
- * Integrated design of valve and burette
- * Built-in stirrer
- * Titration transmission device adopts linear motor design
- * With anti leakage device

Features for BK-PT2:

- * Preset potential to control titration endpoint
- * Pre-control potential is adjustable
- * Solenoid valve for controlling dropping liquid
- * Equipped with delay circuit of titration endpoint
- * Equipped with stirrer



Technical Parameters:

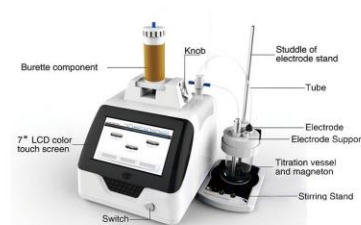
Model	BK-PT4B	BK-PT2
Measuring Range	pH: 0.00~14.00pH mV: -1800~1800.0mV Temp.: -5.0~105.0°C	pH: 0.00~14.00 Ph mV: ±1400mV
	pH: 0.01pH mV: 0.1mV Temp.: 0.1°C	pH: 0.01pH mV: 1mV
	pH: ±0.01pH±1bit mV: ±0.03% (full scale) Temp.: ±0.3°C	pH: ±0.03pH±1 bit mV: ±5mV
Burette Volume Accuracy	10ml burette: ±0.025ml 20ml burette: ±0.035ml	/
Burette Supplementary Speed	55±10s (when burette is full scale)	/
Repeatability Titration Analysis	0.2%	/
Repeatability Accuracy	±0.2mV	/
Stability	±0.3 mV±1bit/3h	±0.01pH/3h
Sensitive of Control Titration	±2mV	±5mV
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)	390*380*300mm	300*235*100mm
Package Size(W*D*H)	540*490*480mm	490*410*300mm
Gross Weight	8kg	5kg

291

Potential Titrator

Introduction:

BK-PT800 Automatic Titrator is a lab titration device with high analysis accuracy under the principle of potentiometric titration. It adopts modular design, consists of three parts: volume titration device, control device and measuring device. The titration methods include macro titration, micro titration, volume setting titration, EP, etc.



Details Display:



Features:

- * It adopts coil realize to magnetic stir.
- * Accurate closed-loop control for volume.
- * High-accuracy burette up to 0.005mm.
- * Simple design, discrete stirring unit, easy for disassembly.
- * LCD touch screen.

Technical Parameters:

Model	BK-PT800
Temperature Measuring Range	0~100°C
pH Measuring Range	0~14.00pH
mV Measuring Range	±1999mV
Resolution	0.01pH; 0.1mV; 0.1°C
Repeatability Accuracy	0.2%
Repeatability	±0.2mV
Buret Volume Accuracy	Burette 15ml ±0.025ml Burette 25ml ±0.035ml
Power Supply	AC110V/220V±10%, 50/60Hz
External Size(W*D*H)	530*455*280mm
Package Size(W*D*H)	610*435*370mm
Gross Weight	10kg

292

Ultrasonic Cell Disruptor

Application:

Widely used in the field such as biology, chemistry, microbiology, pharmacology, physics, zoology, agronomy, medical science, pharmacy for teaching, scientific research and production.

Features:

- * LCD touch screen.
- * Storage capacity: 20 groups of program data.
- * Temp. monitor: over-temperature protection.
- * Other functions: automatic tracking the frequency, fault alarm.



Technical Parameters:

Model	UCD -150	UCD -250	UCD -500	UCD -650	UCD -950	UCD -1200	UCD -1500	UCD -1800	UCD -2000
Frequency(KHz)	20-25	20-25	20-25	20-25	20-25	19.5-20.5	19.5-20.5	18.5-20.5	19.5-20.5
Crushing Capacity(ml)	0.1-150	0.1-300	0.1-400	0.1-500	0.1-700	1-1000	1-1500	1-1200	50-2000
Standard Amplitude-change Pole Ø (mm)	6					20	22	22	25
Optional Amplitude-change Pole Ø (mm)	2, 3, 6, 8, 10	2, 3, 6, 8, 10	2, 3, 6, 8, 10, 12	2, 3, 6, 8, 10, 12	2, 3, 6, 8, 10, 12, 15	10, 15, 20, 22, 25	10, 15, 20, 22, 25	10, 15, 20, 22, 25	10, 15, 20, 25
Consumption (W)	1.5-150					5-650	10-1000	12-1200	15-1500
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)					10-1500	18-1800	0-2000	
Package Size (W*D*H)	350*350*550mm(main body)								
Gross Weight	26kg					29kg			

Technical Parameter for Amplitude Pole:

Size	Crushing Capacity(ml)	Recommended power ratio	Frequency (KHz)	UCD -150	UCD -250	UCD -500	UCD -650	UCD -950	UCD -1200	UCD -1500	UCD -1800	UCD -2000
φ2mm	0.1-5ml	1-35%	20-25	√	√	√	√	√	√	×	×	×
φ3mm	3-10ml	1-45%	20-25	√	√	√	√	√	√	√	√	×
φ6mm	5-100ml	1-60%	20-25	×	×	×	×	×	×	×	×	×
φ10mm	10-100ml	1-70%	20-25	√	√	√	√	√	√	√	√	√
φ15mm	20-200ml	1-85%	20-25	√	√	√	√	√	√	√	√	√
φ20mm	30-300ml	1-90%	20-25	√	√	√	√	√	√	√	√	√
φ25mm	50-500ml	1-95%	19.5-20.5	×	×	×	×	×	×	×	×	×
φ30mm	100-1000ml	10-90%	20-25	×	×	√	√	√	√	×	×	×
φ40mm	200-2000ml	10-95%	20-25	×	×	×	×	×	×	√	√	×
φ50mm	500-5000ml	5-80%	19.5-20.5	×	×	×	×	×	×	×	×	×
φ60mm	1000-10000ml	10-90%	19.5-20.5	×	×	×	×	×	×	×	√	√
φ70mm	2000-20000ml	20-95%	19.5-20.5	×	×	×	×	×	×	×	√	√
φ80mm	3000-30000ml	30-95%	19.5-20.5	×	×	×	×	×	×	×	√	√

Continuous Flow Ultrasonic Cell Disruptor

Application:

It is suitable for the extraction of Chinese herbal medicine, cells, bacteria and emulsifying chemical nanometer material, suitable for small batch production or to provide accurate technical parameters for the future industrial production.

Features:

- * LCD Display
- * Automatic tracking the frequency
- * Storage capacity: 20 groups of program data.
- * It can test and control temperature of the sample
- * Function of automatic feeding and computer control can be optional equipped



Technical Parameters:

Model	UCD-4000W-II
Frequency	18.5-20.5KHz
Standard Amplitude-change Pole Ø	40mm
Optional Amplitude-change Pole Ø	38mm, 40mm, 50mm
Crushing Capacity/Once	500-10000ml
Crushing Capacity/Continuously	100L/Day
Max. Consumption	1000-4000W, Adjustable
Time set	Optional: Continuous/Pulse
Max. Working Time	99h59min59sec
Safety System	Over temperature, Time, Overload, No load
Standard Accessories	Main machine, energy converter, standard amplitude, sound proof box(or supporting frame)
Optional Accessories	Stainless steel reactor, energy converter, peristaltic pump, low temperature water tank
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)
Package Size(W*D*H)	675*305*450mm(main body); 450*415*730mm(soundproof box)
Gross Weight	32kg

Portable Ultrasonic Cell Disruptor

Features:

- * LCD Display
- * Temperature alarm setting range: 0-100°C
- * Ultrasonic time setting for on and off: 0.1-9.99s
- * Audible alarm for: Over temperature, over power, over time
- * Other optional accessory: Foot switch, sound proof box, Amplitude Pole (Ø 2, 3 or 6mm)



Technical Parameters:

Model	UCD-P01
Frequency(KHz)	20-30, frequency automatic tracking
Crushing Capacity(ml)	0.1-150ml (need to choose the corresponding horn)
Standard Amplitude Pole Ø(mm)	3 or 5
Optional Amplitude Pole Ø (mm)	2, 3, 5, 6
Consumption(W)	2.5-250W, adjustable
Power Supply	AC220V±10%, 50/60Hz(Standard); AC110V, 60Hz(Optional)
Package Size(W*D*H)	470*305*430mm(main body)
Gross Weight	16kg

Disintegrator

Plant Disintegrator

Features:

- * Grind by the action of rotating disk and fixed disk; the ideal equipment for grinding oiliness and fiber products.
- * Featured by lightweight, small volume, compact structure, continuous working time, attractive appearance and high efficiency. Space between blades is adjustable according to material fineness.



Technical Parameters:

Model	MPD-102
Mesh Size (mm)	0.5/1/1.5
Working Time	Continuous
Grinding (Mesh)	60-120
Speed (rpm)	1400rpm
Consumption	250W
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H) mm	300*185*280
Package Size(W*D*H) mm	350*240*290
Net Weight(kg)	15±0.5
Gross Weight(kg)	19.5

High-speed Universal Disintegrator



HSD-80



HSD-100/200



HSD-400A

Technical Parameters:

Model	HSD-80	HSD-100	HSD-200	HSD-400A
Speed (rpm)	10000	26000	26000	26000
Size of Grinding Room (mm)	Ø80*40	Ø100*40	Ø125*56	Ø150*80
Grinding (mesh)	40-200			
Input Quantity (sG/time)	50	100	200	400
Consumption	200W	800W	800W	1000W
Power Supply	AC220V, 50Hz			
External Size(W*D*H) mm	Ø110*210H	Ø160*320H	Ø160*360H	230W*190D*420H
Package Size(W*D*H)mm	255*185*190	220*220*400	220*220*420	285*235*466
Net Weight(kg)	1.5	3.1	3.4	9.5
Gross Weight(kg)	1.8	3.5	4	10.1

Middle-Size Disintegrator

Features:

- * Excellent air-tightness, stable performance, continuous working time, time and cost saving.
- * Casting steel grinding system, which is durable and efficient.
- * Convenient to clean, easy to operate, and reliable.



Technical Parameters:

Model	MD220
Speed (rpm)	5000
Diameter of Screen Mesh (mm)	Ø0.5, Ø1.0, Ø1.5
Grinding (mesh)	40-120
Output (Kg/H)	8-20
Consumption	3000W
Power Supply	380V, 50Hz
External Size(W*D*H) mm	700*380*700
Net Weight(kg)	99
Gross Weight(kg)	120

Ball Mill

Optional:

Selection of pot's material: Pot's material has no pollution to the grinding materials and no effect to the appearance of powder.

Technical Parameters:

Category & Request of Grinding Material	Reference for Mill Pots' Material Option
Soil and other Materials which impurities are not allowed to be brought.	Agate Pot
Metal and non-metal materials which impurities are not allowed to be brought.	Zirconia Pot
High hardness materials like diamond, hard alloy.	Hard Alloy Pot
Strong acid and strong alkali substances, and materials under high temperature.	PTFE Mill Pot
Iron and steel minerals, impurities are not highly sensitive materials.	304 Stainless Steel Mill Pot
Pigment material, and materials which can be processed at high temperature.	Nylon Mill Pot
Containing aluminum material like ceramic glaze.	Corundum Pot
Electronic material like lithium battery.	Polyurethane Mill Pot
Easily oxidized materials which need to be protected by special gas.	Vacuum Mill Pot



Nylon Mill Pot



PTFE Mill Pot



Zirconia Pot



Hard Alloy Pot



Polyurethane Mill Pot



Stainless Steel Mill Pot

Matching Ways for Mill Pots and Balls:

	Agate Grinding Ball	Zirconia Grinding Balls	Tungsten Carbide Balls	Stainless Steel Balls	Alumina Balls	Polyurethane core ball	Steel Ball
Agate Mill Pot	▲						
Zirconia Mill Pot		▲					
Hard Alloy Mill Pot			▲				
PTFE Mill Pot	▲						
Stainless Steel Mill Pot				▲			
Nylon Mill Pot		▲					
Corundum Mill Pot					▲		
Polyurethane Mill Pot						▲	

Remarks: ▲ Best Match

Best Match Ratio: Large-sized Ball: 20%; Medium-sized Ball: 50%; Small-sized Ball: 30%.



Stainless steel mill pot can be matched with stainless steel ball



Zirconia mill pot can be matched with zirconia balls



Corundum mill pot can be matched with alumina balls



Hard Alloy mill pot can be matched with zirconia balls



Nylon mill pot can be matched with zirconia balls



PTFE mill pot can be matched with agate balls



Polyurethane mill pot can be matched with Agate balls



Tempered nylon mill pot can be matched with agate balls



Agate mill pot can be matched with agate balls

Vertical Planetary Ball Mill(Semi-circle Type)

Application:

Planetary Ball Mill has four ball grinding tanks installed on one turntable. When the turntable rotates, the tank axis makes planetary movements, the balls and samples inside the tanks are impacted strongly in high speed movement, and samples are eventually ground into powder. Various kinds of different materials can be ground by the mill with dry or wet method. Minimum granularity of ground powder can be as small as 0.1μm.



Features:

- * 3D curve shape design.
- * Special gear with low noise.



Visual Window



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan

Technical Parameters:

Model	BKBM-V0.4	BKBM-V2
Capacity	0.4L	2L
Volume of Each Capacity	50-100ml	50-500ml
Pot Quantity	4 pcs	
Running Time Range	1-9999min	
Reciprocal Running Time	1-999min	
Adjustable Speed Revolution	45-435rpm	35-335rpm
Rotation	90-870rpm	70-670rpm
Noise	≤58dB	≤60dB
Speed Control Mode	Frequency Control	
Transmission Mode	Gear Drive	
Working Mode	2 or 4 pots can be used each time	
Max Volume of Each Pot	2/3	
Feed Size	Soft and Crispy material<10mm, Other materials<3mm	
Out-pot Granularity	Minimum Granularity can be reached to 0.1um	
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation	
Consumption	0.25KW	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)mm	530*300*340	730*430*560
Package Size(W*D*H)mm	595*360*485	820*530*720
Net Weight(kg)	26	74
Gross Weight(kg)	30	80

Vertical Planetary Ball Mill(Square Type)



Features:

- * 3D curve shape design.
- * Special gear with low noise.



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan



Pneumatic Rod

Technical Parameters:

Model	BKBM-V2S
Capacity	2L
Volume of Each Capacity	50-500ml
Pot Quantity	4pcs
Running Time Range	1-9999min
Reciprocal Running Time	1-999min
Adjustable Speed Revolution	35-335rpm
Rotation	70-670rpm
Noise	≤60dB
Speed Control Mode	Frequency Control
Transmission Mode	Gear Drive
Working Mode	2 or 4 pots can be used each time
Max Volume of Each Pot	2/3
Feed Size	Soft and Crispy material<10mm, Other materials<3mm
Out-pot Granularity	Minimum Granularity can be reached to 0.1um
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation
Consumption	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	770*470*570
Package Size(W*D*H)mm	820*540*680
Net Weight(kg)	93
Gross Weight(kg)	98

Light Horizontal Planetary Ball Mill



Features:

- * Horizontal structure of grinding pots.
- * Special gear with low noise.



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan



Pneumatic Rod

Technical Parameters:

Model	BKGM-H2L
Capacity	2L
Volume of Each Capacity	50~500ml
Pot Quantity	4 pcs
Running Time Range	1~9999min
Reciprocal Running Time	1~999min
Adjustable Speed Revolution	35~335rpm
Rotation	70~670rpm
Noise	<60dB
Transmission Mode	Gear Drive
Working Mode	2 or 4 pots can be used each time
Max Volume of Each Pot	2/3
Feed Size	Soft and Crispy material<10mm. Other materials<3mm
Out-put Granularity	Minimum Granularity can be reached to 0.1µm
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation
Speed Control Mode	Frequency Control
Consumption	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	700*570*520
Package Size(W*D*H)mm	800*610*670
Net Weight(kg)	105
Gross Weight(kg)	123

301

Water Activity Meter

Application:

Water activity meter, indicates the free water content when food is stable, measures the possibility of microbial proliferation. Food formulators use water activity to predict how much moisture migration will affect their product, so that to choose suitable package and storage method to reduce the usage of antiseptics.



BWA-3A



BWA-6

Features:

- * The measured object is unlimited, liquid solids and powder etc.
- * Printer output as standard accessory
- * Chemical resistant (only for BWA-6)

Technical Parameters:

Model	BWA-3A	BWA-6
Working Temp.	0~50℃	-10℃~50℃
Working Humidity	0~95%RH	
Display	LCD display	
Measuring Range	Temperature 0~50℃ Water Activity 0~0.980	-10℃~50℃ 0~1.000
Measurement Accuracy	Temperature ±0.5℃ Water Activity ±0.015 (@25℃)	±0.5℃ ±0.012 (@23℃±5℃)
Measurement Time	5~40min	
Measurement Points	1	1~4
Temperature Coefficient	±0.0005/℃	
Activity Repeatability	±0.015	±0.008
Print Function	a. Print at the end of the measurement	b. Real-time print
Correction Mode	Single-point calibration	Multi-point joint calibration, single-point calibration
Interface	1	RS232, USB
Standard Accessories	Micro printer, one sensor	Data cable, micro printer, one sensor
Consumption	15W	10W
Power Supply	AC110/220V±10%, 50/60Hz	
Package Size(W*D*H)mm	550*430*240	740*430*240
Gross Weight(kg)	11.5	15.5

302

Cooking Oil Tester

Features:

- * Waterproof design, class IP65.
- * Using AAA battery, 500 times measurement.
- * Adopting food-grade materials, safety and eco-friendly for probes.
- * 1Easy operation, field testing, suitable for a variety of testing conditions.
- * Special design for probe in order to reduce residual oil and easy for clean.
- * Fast measurement, getting result within 15 seconds with sound-light alarm.
- * Adopting streamlined design, according to Ergonomics, easy handing and preventing it to fall apart.



Technical Parameters:

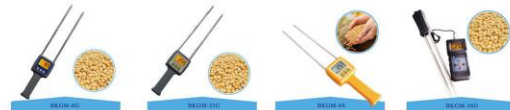
Model	COT-27A
Tempe. Measure Range	0~200.0℃
Temp. Resolution	±0.1℃
Temperature Accuracy	±1.0℃
TPM Measure Range	0.5~40%
TPM Accuracy	±2% (40.0~190.0℃)
TPM Resolution	±0.1%
Temperature Sensor	PTC Sensor
TPM Response Time	<15S
LED Status Alert	Green, Orange, Red
Operating Temperature	0~+50℃
Battery Life Below 20℃	About 25 hours of continuous use time (the corresponding measuring 500 times)
Packing Size(L*D*H)	420*160*85mm
Gross Weight	1.1kg

303

Grain Moisture Meter

Application:

It is used for fast and accurate measurement of moisture in the process of allotment, acquisition, storage, machining of packed grains.



Technical Parameters:

Model	BKGM-6G/6G11	BKGM-25G	BKGM-6S	BKGM-36G
Measuring Range	6~30%(professional)	6~30%(professional)	0~35%(general)	5~40%(professional)
Temp. Range of Measured Grain	-10~60℃			
Humidity Range	5~90%			
Resolution	0.1			
Accuracy	±0.5%			
Grains	6 types(For type 6G)	25 types	4 types	25 types
Grain Flour	11 groups (For type 6G11)	/	Flour and starch only	11 groups(standard)
Power Supply	4*Common AAA battery			
Package Size(W*D*H)	504*110*54mm			
Gross Weight	0.5kg	0.5kg	0.4kg	0.6kg

Model	Grain & Powder List
BKGM-6G	Wheat, Corn, soybean, rice paddy, rice, barley
BKGM-6G11	Wheat flour, rice powder, corn flour, semolina, soybean meal, barley powder, coffee powder, sorghum flour, flaxseed meal, pea meal, soft wheat flour
BKGM-25G	Wheat, corn, soybean, rice paddy, rice, barley, sorghum, buckwheat, peas, rapeseed, mustard seed, sunflower seed, beet seeds, coffee, coffee(green), cocoa beans, flaxseed, lentils, fruit with hard shell, rye grass seed, duck feather grass seed, clover(white seed), clover(black seed), canola, bean,
BKGM-6S	Wheat, rice, corn, soybeans, wheat flour
BKGM-36G	Wheat, corn, soybean, rice paddy, rice, barley, sorghum, buckwheat, peas, rapeseed, mustard seed, sunflower seed, beet seeds, coffee, coffee(green), cocoa beans, flaxseed, lentils, fruit with hard shell, rye grass seed, duck feather grass seed, clover(white seed), clover(black seed), canola, bean, wheat flour, rice powder, corn flour, semolina, soybean meal, barley powder, coffee powder, sorghum flour, flaxseed meal, pea meal, soft wheat flour

304

Viscometer

Digital Viscometer BDV-S and BDV-N Series



BDV-1S



BDV-9S



BDV-5S/8S



BDV-N Series

Features:

BDV-S series digital viscometer:

- * Central control circuit: 16 bit MCU.
- * Gearless driving, LCD display.
- * Optional accessories: Printer(BDV-5S and BDV-8S) and RTD temperature probe(not including BDV-1S).

BDV-N series digital viscometer:

- * Measurement is more larger than BDV-S series.
- * Rotating speed is improved to non-polar shift.
- * RTD temperature probe can timely monitor the temperature of the sample.
- * Optional software: Data Collecting, Analysis and Plot Software.

Technical Parameters:

Model	BDV-1S	BDV-9S	BDV-5S	BDV-8S	BDV-1N	BDV-2N	BDV-3N	BDV-4N
Measured Range (mPa.s)	100~100,000	100~6,000,000	20~100,000	20~2,000,000	20~600,000	12~6,000,000	160~80,000,000	50~10,000,000
Rotation Speed(rpm)	6, 12, 30, 60	0.1, 0.3, 0.6, 1.5, 3, 6, 12, 30, 60	6, 12, 30, 60	0.3, 0.6, 1.5, 3, 6, 12, 30, 60	1~60	0.1~99.9	0.1~99.9	0.1~200
Number of Spindle	4 types(L1~L4)				4 types(L1~L4)			4 types (21.27.28.29)
Measurement Accuracy	±5%(FS) (Newtonian Fluid)	±3%(FS) (Newtonian Fluid)	±1%(FS)(Newtonian Fluid)					
Repeatability	±0.5% (FS)(Newtonian Fluid)							
Power Supply	AC110/220V±10%, 50/60Hz							
Standard accessory	/	/	RS232 standard output interface		RTD temperature probe			
Optional accessory	/	RTD temperature probe	RTD temperature probe, Specially used printer		RS232 standard output interface, Specially used printer			
L0 Spindle is for Option Measured Range(mPa.s)	10~100	10~6000	1~100	1~2000	1~600	0.6~6000	6~6000	3~6000
Package Size (W*D*H)	470*400*230mm	470*395*245mm	400*350*360mm	400*350*360mm	400*350*360mm	400*350*360mm	400*350*360mm	400*350*550mm
Gross Weight	8.5kg	8.5kg	9kg	9kg	9kg	9kg	9kg	10.5kg

Digital Viscometer BDV Series

Features:

- * Central control circuit: 16 bit MCU.
- * RTD temperature probe can timely monitor the temperature of the sample.
- * LCD can display all information.
- * Optional software: DV Program Control Download Software & Data Collecting, Analysis and Plot Software.



Technical Parameters:

Series	BDV-1			BDV-2		
Model	BDV-1A	BDV-1B	BDV-1C	BDV-2A	BDV-2B	BDV-2C
Measured Range (mPa.s)	12~6M	80~40M	640~320M	6~6M	40~40M	320~320M
Rotation Speed(rpm)	0.1~99.9 non-polar shift			0.1~200 non-polar shift		
Number of Spindle	4 (L1~L4)	6 (R2~R7)	6 (R2~R7)	4 (L1~L4)	6 (R2~R7)	6 (R2~R7)
Measurement Accuracy	±1%(FS) (Newtonian Fluid)					
Repeatability	±0.5%(FS) (Newtonian Fluid)					
Power Supply	AC110/220V±10%, 50/60Hz					
Standard accessory	RS232 standard output interface, RTD temperature probe					
Optional accessory	Specially used printer					
L0 Spindle is for Option						
Measured Range (mPa.s)	0.6~6000	6~60000	50~500000	0.3~6000	3~60000	25~500000
R1 Spindle is for Option						
Measured Range (mPa.s)	/	20~100000	160~800000	/	10~100000	80~800000
Package Size(mm)	400*350*360	400*350*550	400*350*550	400*350*360	400*350*550	400*350*550
Gross Weight(kg)	9	10.5	10.5	9	10.5	10.5

Digital Viscometer BKU-1



Features:

- * LCD display
- * BKU-1 viscometer is specially applied to sample like paint, coating, etc.
- * Central control circuit: 16 bit MCU.
- * It can recyclingly show the units of KU, gm, and cP.

Technical Parameters:

Model	BKU-1
Measure Range	40~141KU 32~1099gm 27~5274cP
Measurement Accuracy	±1% (FS)(Newtonian Fluid)
Repeatability	±0.5%(FS)(Newtonian Fluid)
Rotation Speed	200rpm
Power Supply	AC110/220V±10%, 50/60Hz
Package Size(mm)	400*350*360
Gross Weight(kg)	10

Note: cP is for reference, not for calibration.

Water Purifier

Laboratory Water Purifier



Features:

- * Nano RO membrane filters tiny substances more efficiently.
- * Fully automatic control, one-key boot, simple operation.
- * With high pressure and low pressure protection, safer operation.
- * With consumable replacement alarm.
- * Compliance with national standard GB/T6682-2008 water requirements.
- * LCD display, display water quality information.

Technical Parameters:

Model	SCSJ-II-20L	SCSJ-II-30L	SCSJ-II-40L
Water Output Type	RO water (Optional), DI water (Standard)		
Water Output Speed	20 L/H	30 L/H	40 L/H
Purifying Procedure	PF+AC+RO+DI		
Water Supply Requirement	When working, the inlet water pressure is 0.1-0.3Mpa, and the water quality meets the requirements of GB5749, 15 ~ 35℃		
Environmental Requirements	Temperature 15 ~ 35℃ Relative Humidity ≤80%		
Purification System	10"PP filter*1, 10"active carbon filter*1 300GPD RO membrane*1 Deionization purification column*1		
DI Water Quality	Resistivity	10-18.25MΩ·cm	
	Conductivity	0.055-0.1μs/cm	
	Heavy metal	<0.1ppb	
	Particle	<1/ml	
	Bacteria	<0.1cfu/ml	
RO Water Quality	Ion rejection rate	96%-99%	
	Organic rejection rate	>99%	
	Particles and bacteria rejection rate	>99%	
Flow Rate	1750ml/min		
Consumption	110W		
Power Supply	AC220V±10%, 50Hz±5% (Standard); AC110V, 60Hz (Optional)		
Standard Configuration	Main body, 25L water tank, accessory pack		
Instrument Size(W*D*H)	403*325*950mm		
Package Size(W*D*H)	Instrument	460*420*1200mm	
	Accessory Box	670*400*260mm	
Gross Weight	40kg		

309

Laboratory Water Purifier



Features:

- * Nano RO membrane filters tiny substances more efficiently.
- * Fully automatic control, one-key boot, simple operation.
- * With high pressure and low pressure protection, safer operation.
- * With consumable replacement alarm.
- * Compliance with national standard GB/T6682-2008 water requirements.
- * LCD display, display water quality information.

Technical Parameters:

Model	SCSJ-II-60L		SCSJ-II-80L	SCSJ-II-100L
Water Output Type	RO water (Optional); DI water (Standard)			
Water Output Speed	60 L/H		80 L/H	100 L/H
Purifying Procedure	PF+AC+RO+DI			
Water Supply Requirement	When working, the inlet water pressure is 0.1-0.3Mpa, and the water quality meets the requirements of GB5749, 15 ~ 35℃			
Environmental Requirements	Temperature 15 ~ 35℃ Relative Humidity ≤80%			
Purification System	Precision filter*1; Deionization purification column*1 300GPD RO membrane*2 (SCSJ-II-60L, SCSJ-II-80L) 400GPD RO membrane*2 (SCSJ-II-100L)			
DI Water Quality	Resistivity	10-18.25MΩ·cm		
	Conductivity	0.055-0.1μs/cm		
	Heavy metal	<0.1ppb		
	Particle	<1/ml		
	Bacteria	<0.1cfu/ml		
RO Water Quality	Ion rejection rate	96%-99%		
	Organic rejection rate	>99%		
	Particles and bacteria rejection rate	>99%		
Flow Rate	2500ml/min			
Consumption	230W			
Power Supply	AC220V±10%, 50Hz±5% (Standard); AC110V, 60Hz (Optional)			
Standard Configuration	Main body, 50L water tank, accessory pack		Main body, 20L water tank (0.5 gallon pressure tank), accessory pack	
Instrument Size(W*D*H)	390*400*1000mm			
Package Size(W*D*H)	Instrument	490*480*1100mm		650*490*1100mm
	Tank	415*415*700mm		
Gross Weight	Accessory Box	680*400*230mm		767*395*230mm
		45kg		70kg

310

Laboratory Water Purifier



Features:

- * Nano RO membrane filters tiny substances more efficiently.
- * Fully automatic control, one-key boot, simple operation.
- * With high pressure and low pressure protection, safer operation.
- * With consumable replacement alarm.
- * Compliance with national standard GB/T6682-2008 water requirements.
- * LCD display, display water quality information.

Technical Parameters:

Model	SCSJ-II-120L	SCSJ-II-150L	SCSJ-II-200L
Water Output Type	RO and DI water		
Water Output Speed	120 L/H	150 L/H	200 L/H
Purifying Procedure	PF+AC+RO+DI		
Water Supply Requirement	When working, the inlet water pressure is 0.1-0.3Mpa, and the water quality meets the requirements of GB5749, 15 ~ 35°C		
Environmental Requirements	Temperature 15 ~ 35°C Relative Humidity ≤80%		
Purification System	20"PP filter*1, 20" granular active carbon filter*1, 20" compressed activated carbon filter*1, 400GPD RO membrane *2, Deionization purification column*2		
DI Water Quality	Resistivity	10-18.25MΩ·cm	
	Conductivity	0.055-0.1μs/cm	
	Heavy metal	<0.1ppb	
	Particle	<1/ml	
	Bacteria	<0.1cfu/ml	
RO Water Quality	Ion rejection rate	96%-99%	
	Organic rejection rate	>99%	
	Particles and bacteria rejection rate	>99%	
Pressure Bucket	Built-in	External	External
Consumption	230W		
Power Supply	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)		
Standard Configuration	Main body, pressure bucket, accessory pack		
Instrument Size(W*D*H)	750*600*1200mm		
Package Size(W*D*H)	Instrument	770*620*1350mm	
	Pressure tank	/	
Package Size(W*D*H)	Accessory	555*315*170mm	
		390*390*775mm	
Gross Weight	110kg	123kg	

311

Laboratory Water Purifier



Features:

- * Nano RO membrane filters tiny substances more efficiently.
- * Fully automatic control, one-key boot, simple operation.
- * With high pressure and low pressure protection, safer operation.
- * With consumable replacement alarm.
- * Compliance with national standard GB/T6682-2008 water requirements.
- * LCD display, display water quality information.

Technical Parameters:

Model		SCSJ-V-45L
Water Output Type		RO and DI water
Water Output Speed		45 LH
Purifying Procedure		PF+AC+RO+AC+DI+TF
Water Supply Requirement		When working, the inlet water pressure is 0.1-0.3Mpa, and the water quality meets the requirements of GB5749, 15 ~ 35℃
Environmental Requirements		Temperature 15 ~ 35℃ Relative Humidity ≤80%
Purification System		20"PP filter*1, 20" granular active carbon filter*1 , 20" compressed activated carbon filter*1, 300GPD RO membrane *1, Deionization purification column *1, T33 filter element *1, Capsule filter*1
DI Water Quality	Resistivity	10-18.25MΩ.cm
	Conductivity	0.055-0.1μs/cm
	Heavy metal	<0.1ppb
	Particle	<1/ml
	Bacteria	<0.1cfu/ml
RO Water Quality	Ion rejection rate	96%-99%
	Organic rejection rate	>99%
	Particles and bacteria rejection rate	>99%
Pressure Bucket	Built-in	
Consumption	120W	
Power Supply	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)	
Standard Configuration	Main body, built-in 4 gallon pressure water bucket*2, accessory pack	
Instrument Size(W*D*H)	650*540*1120mm	
Package Size(W*D*H)	770*620*1335mm	
Gross Weight	93kg	

312

Laboratory Water Purifier



Features:

- * Nano RO membrane filters tiny substances more efficiently.
- * Fully automatic control, one-key boot, simple operation.
- * With high pressure and low pressure protection, safer operation.
- * With consumable replacement alarm.
- * Compliance with national standard GB/T6682-2008 water requirements.

Technical Parameters:

Model	SCSJ-I-10L	SCSJ-I-15L
Water Output Type	RO and DI water	
Water Output Speed	10 L/H	15 L/H
Purifying Procedure	PF+AC+RO+DI	
Water Supply Requirement	When working, the inlet water pressure is 0.1-0.3Mpa, and the water quality meets the requirements of GB5749, 15 ~ 35°C	
Environmental Requirements	Temperature 15 ~ 35°C Relative Humidity ≤80%	
Purification System	10"PP filter*1, 10"active carbon filter*2 50GPD RO membrane*1 Deionization purification column*2	
DI water Quality	Resistivity	10-18.2MΩ.cm
	Conductivity	0.055-0.1µs/cm
	Heavy metal	<0.1ppb
	Particle	<1/ml
RO water Quality	Bacteria	<0.1cfu/ml
	Ion rejection rate	96%~99%
	Organic rejection rate	>99%
	Particles and bacteria rejection rate	>99%
Flow Rate	167ml/min	250ml/min
Consumption	46W	
Power Supply	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)	
Standard Configuration	Main body	
Instrument Size(W*D*H)	390*400*503mm	
Package Size(W*D*H)	500*520*650mm	
Gross Weight	27kg	

Water Purifier (Automatic RO/DI Water)



Technical Parameters:

Model	SCSJ-III 15	SCSJ-III 30
Display	LCD	
Water Output Type	RO and DI water	
Water Output Speed	15L/H	30L/H
Purifying Procedure	PF+AC+RO+DI	
Water Supply Requirement	Tap water: TDS<200ppm, 5~45°C, 1.0~4.0Kg/cm² (If inlet TDS>200ppm, extra pretreatment filter is recommended)	
Purification System	Pretreatment unit RO unit	200GPD RO membrane*1 200GPD RO membrane*1
Pure Water Quality	Subsequent unit	Deionization purification column (imported resin) *2 Deionization purification column (imported resin) *3
	Ion rejection rate	97%~99% (New RO membrane)
	Organic rejection rate	>99%, when MW>200 Dalton
	Particles and bacteria rejection rate	>99%
Control System	Resistivity	15~18.2MΩ.cm
	Conductivity	0.055~0.067µs/cm
	Automatic electronic pressure sensor controlling, RO membrane auto flushing.	
	Automatic stop when water supply shortage.	
Flow Rate	Automatic stop when water tank full.	
	Automatic cutting off water when pump stop.	
	24 hours non-stop work	
	2.0 L/min (when there is water in the water tank)	
Water Quality Monitor	TDS/conductivity test pen	
Consumption	72W	
Power Supply	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)	
Standard Configuration	Main body(include 1 set of purification column), 15L water tank, TDS/conductivity test pen, accessory pack	
External Size(W*D*H)	410*220*420mm	
Package Size(W*D*H)	600*490*580mm	
Gross Weight	35kg	

313

314

Water Purifier Medium Type (Automatic RO/DI Water)

Features:

- * Large LCD display, animation mode, show all the running state and parameters.
- * Automatic microcomputer control system, multi-menu operating.
- * Alarm function: Water quality, no water, full water, consumables life ending, Automatic diagnosis.
- * 3-way on-line sensor, detect the quality of feed water, RO water and DI water's quality timely.



Technical Parameters:

Model	SCSJ-V 45	SCSJ-V 63	SCSJ-V 94	SCSJ-V 125
Water Output Type	RO and DI water			
Water Output Speed	45L/H	63L/H	94L/H	125L/H
Purifying Procedure	PF+AC+RO+AC+DI+TF			
Water Supply Requirement	Tap water: TDS<200ppm, 5~45°C, 1.0~4.0Kg/cm² (If TDS>200ppm, extra pretreatment filter is recommended)			
Purification System	Pretreatment unit RO unit	20" PP filter*1, 20" granular active carbon filter*1, 20" active carbon block filter*1 300 GPD RO membrane*1	400 GPD RO membrane*1	600 GPD RO membrane*1
DI Water Quality	Subsequent unit	400 GPD RO membrane*1	600 GPD RO membrane*1	400 GPD RO membrane*2
	Organic matter purification column*1, 12L ultra-purified column (imported resin)*1, 0.2µm imported PES terminal filter*1			
	Resistivity	10-18.2MΩ.cm		
	Conductivity	0.1-0.055µs/cm		
Flow Rate	Heavy metal	<0.1ppb		
	Bacteria	<0.1cfu/ml		
	Particle(<0.2µm)	<1/ml		
	3.0 L/min (when there is water in the water tank)			
RO Water Quality	TDS(Total dissolved solid) of RO water(ppm)<TDS of inlet water*5%			
Consumption	120W			
Power Supply	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)			
Standard Configuration	Main body(include 1 set of purification column), 2 built-in 15 liters tank, accessory pack			
External Size(W*D*H)	640*540*1110mm			
Package Size(W*D*H)	650*750*1280mm			
Gross Weight	90kg			

Water Purifier Medium Type (Automatic RO Water)

Features:

- * Large LED display, show all the running state and parameters.
- * RO membrane clean automatically, High/Low pressure protection.
- * Alarm function: Water quality, no water, full water, consumables life ending, Automatic diagnosis.



Technical Parameters:

Model	SCSJ-IV 45	SCSJ-IV 63	SCSJ-IV 94	SCSJ-IV 125
Water Output Type	RO water			
Water Output Speed	45L/H	63L/H	94L/H	125L/H
Purifying Procedure	PF+AC+AC+RO			
Water Supply Requirement	Tap water: TDS<200 ppm, 5~45°C, 1.0~4.0Kg/cm² (If TDS>200ppm, extra pretreatment filter is recommended)			
Purification System	Pretreatment unit RO unit	20" PP filter*1, 20" granular active carbon filter*1, 20" active carbon block filter*1 300 GPD RO membrane*1	400 GPD RO membrane*1	600 GPD RO membrane*1
Pure Water Quality	Subsequent unit	400 GPD RO membrane*1	600 GPD RO membrane*1	400 GPD RO membrane*2
	Organic matter purification column*1, 12L ultra-purified column (imported resin)*1, 0.2µm imported PES terminal filter*1			
	Ion rejection rate	97%~99% (New RO membrane)		
	Organic rejection rate	>99%, when MW>200 Dalton		
Flow Rate	Particles and bacteria rejection rate	>99%		
	Rejection rate	<0.01cfu/ml (with optional 0.2µm PES terminal filter)		
	Bacteria	<1/ml (with optional 0.2µm PES terminal filter)		
	Particles(<0.2µm)	TDS meter, Online resistivity monitor(optional)		
Water Quality Monitor	120W			
Consumption	AC220V±10%, 50Hz±5%(Standard); AC110V, 60Hz(Optional)			
Power Supply	Main body (including 1 set of purification column), 2 built-in 15L water tank, TDS/conductivity test pen, accessory pack			
Standard Configuration	640*540*1110mm			
External Size(W*D*H)	650*750*1280mm			
Package Size(W*D*H)	650*750*1280mm			
Gross Weight	90kg			

315

316

Water Distiller

Electric-heating Water Distiller

Features:

- * Stainless steel material, adopt stamping and welding technology.
- * Corrosion and ageing resistance, easy to operate, safe and durable.



Technical Parameters:

Model	WD-5	WD-10	WD-20
Water Output	≥5L/H	≥10L/H	≥20L/H
Consumption	5KW	7.5KW	15KW
Power Supply	AC110/220V, 50/60Hz	380V, 50Hz	380V, 50Hz
External Size(Φ*H)	310*700mm	355*820mm	405*677mm
Package Size(W*D*H)	360*360*820mm	360*350*900mm	540*390*740mm
Gross Weight	7.5kg	8.5kg	11.5kg

Auto-control Electric-heating Water Distiller

Features:

- * Stainless steel material, adopt stamping and welding technology.
- * Water shortage and power-off alarm; automatically make up water and heat again.
- * Power, heating indicator and show water shortage.



Technical Parameters:

Model	WD-A5	WD-A10	WD-A20
Water Output	≥5L/H	≥10L/H	≥20L/H
Consumption	5KW	7.5KW	15KW
Power Supply	AC110/220V, 50/60Hz	380V, 50Hz	380V, 50Hz
External Size(Φ*H)	310*740mm	235*855mm	415*720mm
Package Size(W*D*H)	360*360*830mm	360*360*920mm	535*380*770mm
Gross Weight	8kg	9.5kg	13kg

Dental Chair



Features:

- * Combine ergonomics for structural design to make patients more comfortable during treatment.
- * Reliable performance, safe to use.
- * The various parts rotate flexibly, and the rotation range is large, which is convenient for doctors to perform various operations.
- * Three control points of main control, auxiliary control and foot control, which can realize four-handed operation.
- * Using silent DC motor, no noise.
- * Optional multiple colors.

Technical Parameters:

Model		
BKMD-A04	Operator Stool	1 set
Computer-controlled Dental Chair	1 set	High-speed oil phone connector and oil phone tube 2 sets
High Vacuum Suction & Saliva Ejector System	2 pcs	Low-speed oil phone connector and oil phone tube 1 set
Three-way Syringe (cold/hot)	1 set	24V DC mute motor 2 pcs
Operating Light	1 set	Detachable ceramic spittoon 1 set
X-ray Viewer	1 set	Water purification system 1 set
Automatic Bowl Rinsing & Cup Filling	1 set	Rotary auxiliary control system 1 set
Multi-function Tissue Holder	1 set	Package Size(L*W*H)mm 1750*1150*1330
Multi-function Pedal Switch	1 set	Gross Weight 300KG

Product Feature:



Independent R&D system:
With memory function, memory data will not lose, the dental chair is very smooth and soft during its lifting and supine process, without any shaking, extremely comfortable.



Aluminum alloy side box:
Concise and curved style combines with aesthetic appearance, environmentally friendly aluminum alloy material with high rigidity, the color will never change or fade.



Imported water and air pipes:
Imported from USA, the pipe is thicker and more resistant to acid and alkali, safe and reliable.



Rotary ceramic spittoon:
High temperature burning, it can be rotated inward or outward to facilitate spit and gargle.



Deluxe microfiber leather sofa:
Handmade wear-resistant leather, ergonomic design, more beautiful and comfortable.



Six bulbs LED operating light:
Induction adjustable brightness, with sensor, fashionable and convenient.



Rotary auxiliary control system:
It can be rotated out a large space for easy multi-hand operation.



Deluxe leather operator stool:
Wear-resistant leather with ergonomic design, noiseless, comfortable and adjustable.



Independent adjustment system for handpieces:
A handpiece corresponds to a knob, the operation is more accurate, more user-friendly and more flexible.

Optional Accessories:

Imported/Domestic high speed turbine hand piece	2 pcs	Intraoral camera system	1 set
Imported/Domestic low speed turbine hand piece	1 pcs	Multi-function auxiliary control panel	1 set
Built-in scaler	1 set	Halogen operating light	1 set
LED curing light	1 set	Oilless Air Compressor(BKHY-100 or BKHY-200)	1 set
Negative pressure suction system	1 set	BK-HY-100 can support one dental chair, BK-HY-200 can support two dental chairs.	

Optional Configuration:



Multi-function auxiliary control panel:
Multiple function keys have been added to the auxiliary control panel, which can facilitate the use of assistant.



Halogen operating light:
Closer to natural light, no glare, eye protection without irritation.



Top-mounted instrument tray:
The bars can be easily pulled out and put back without any traction force, easy for cleaning and operation.



Multi-function tissue holder:
can place paper cup, tissue and other items. One-piece design is very convenient and practical.