

Henan Shuyu Technology Co. 河南蜀豫科技有限公司

Henan Shuyu Technology Co., Ltd. is located in Zhengzhou City, Henan Province, is a dynamic industry

and trade as one of the company, our company can OEM, the company specializes in the production of General laboratory instruments, Optical instruments, Analytical instruments , Agricultural ecologica linstruments, Life science instruments, Other equipment and consumables

The company has a long history of production, strong

technical force, excellent production equipment, testing equipment, product quality is reliable, stable performance, complete specifications. The company has a long history of production, strong technical force, excellent production equipment, complete testing equipment, reliable product quality, stable performance, complete specifications, and is known for its exquisite design, novel modeling, exquisite craftsmanship, and superior quality













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01

Analytical Instrument

GC-MS 3250Gas Chromatography-Mass Spectrometer —01 GC-MS 3200 Gas Chromatograph-Mass Spectrometer —01 GC-MS 3100 Gas Chromatograph-Mass Spectrometer —02 GC-MS 3110 Vehicle-Mounted Gas Chromatography-Mass Spectrometer —02 GCxGC TOF MS Model 3300 Full 2D Gas Chromatography-Time of Flight Mass Spectrometer —03 PTR-QMS 3500 Proton Transfer Reaction Mass Spectrometer —03 Ebio Reader 3700/Ebio Reader 3700 Plus Time-of-Flight Mass Spectrometers —04 AA-7090 Atomic Absorption Spectrophotometer —05 AA-7050 Atomic Absorption Spectrophotometer —05 AA-7020 Atomic Absorption Spectrophotometer —06 AA-7003 Atomic Absorption Spectrophotometer —06 AA-7001 Atomic Absorption Spectrophotometer —06 XD-8010 Energy Dispersive X-ray Fluorescence Spectrometer —07 AF-7550 Dual-Channel Hydride Generation - Atomic Fluorescence Spectrometer —08 AF-7500/AF-7500B Dual Channel Hydride-Atomic Fluorescence Photometer —08 ICP-7700 Inductively Coupled Plasma Emission Spectrometer —09 GC-4200 Gas Chromatograph —10 GC-4100 Gas Chromatograph —10 GC-4100A Gas Chromatograph —11 LC-5510 Liquid Chromatograph —12 LC-5520 Liquid Chromatograph —12 IC-2800 Ion Chromatograph —12

02

Laboratory Boxes

Product Accessories —14

EW-500HG High Purity Hydrogen Generator —13

YQX-IIAnaerobic Incubator —16
YW Airflow Salt Spray Corrosion Tester Series —17
WJ-A/B Carbon Dioxide Incubator Series —18
GZX-III Light Incubator Series —20
GZX-LC Light Incubator Series —21
QHX-III Artificial Climate Chamber Series —22
HPX-N Constant Temperature and Humidity Box Series/MJ-N Mold Incubator Series —23
SPX-F Biochemical Incubator Series/MJ-F Mold Incubator Series —25
SPX-IIBiochemical Incubator Series —26
MJ-II/III Mold Incubator Series —27
Constant Temperature (Full Temperature) Culture Shaker Series —28
Constant Temperature (Full Temperature) Large Capacity Culture Shaker Series —30
DZF Vacuum Drying Box Series —31

DNP-III Electrothermal Constant Temperature Incubator Series —32

GNP-III Waterproof Type Electric Thermostatic Incubator Series —33

DHG-III Electrothermal Constant Temperature DrumDrying Oven Series 300 Degrees —34

DHG-III Electrothermal Constant Temperature DrumDrying Oven Series 200 Degrees —35

H·SWX Electric Thermostatic Water Temperature Box Series /DK Three- Hole Electric

Thermostatic Water Tank —36

HH·S Electric Thermostatic Water Bath Series —37

SW-CJ Purification Workbench Series —38

03

Ultrasonic Device/Crushing Instruments

Intelligent All-in-One Ultrasonic Cell Breaker —39

UVF Liquid Crystal Ultra Silent Series Ultrasonic Cleaner —41

JXFSTPRP-24L Automatic Sample Rapid Grinder —42

Liquid Nitrogen Frozen Grinder JXFSTPRP-II Series —43

JXFSTPRP-CLN Cryo Mill —44

JX-ZLN Series Vacuum Centrifugal Concentrator —45

JX-CKSM-WK Series Single Cell Suspension Preparation System —47

JXNANO Series High Pressure Homogenizer —49

JXCL-6K Three-dimensional Centrifugal Freezer Grinder —51

TISS-24 High Speed Tissue Grinder —52

04

Centrifuge

TG16 Benchtop High Speed Centrifuge —53
TG16.5 Benchtop High Speed Centrifuge —55
TGL-16.5M Benchtop High Speed Freezing Centrifuge —57
TGL-20.5M Benchtop Large-capacity High-speed Refrigerated Centrifuge —59
TGL-21M Benchtop Large Capacity High Speed Freezing Centrifuge —62
TG10K/TD6K/TD4K Mini Centrifuge —65
H17.5R Benchtop High Speed Refrigerated Centrifuge —66
H18.5/H17.5 Benchtop High-Speed Centrifuge —68
H18.5B Benchtop High Speed Centrifuge —71
L580R Benchtop Low-Speed Large-Capacity Refrigerated Centrifuge —73
L580 Benchtop Low Speed Large Capacity Centrifuge —77
TD5Z Multi-tube Rack Automatic Balancing Centrifuge —80

Microscopy

05

Biological Microscope —84 Orthogonal Fluorescence Microscope —85

Analytical Instrument

Mass Spectrometer Series



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

GC-MS 3100 Gas Chromatograph-Mass Spectrometer

-Ion source: E source, independent heating system 120 ~350 controllable.

-Mass number: 1.5amu~1024amu

-Limit of detection: 1pg octafluoronaphthalene S/N 100:1

-Scanning speed: fully adjustable, up to 10,000amu/sec.

-Detector: with high-pressure conversion to play the pole electron multiplier.

-Vacuum system: turbomolecular pump.

-Chromatographic configuration: GC-4000A series, capillary split /non-split sampling system, fully automated gas circuit (EPC) and purge trapping, thermal resolution.

-Used in conjunction with purge and trap, thermal resolver, headspace and other pretreatment equipment for environmental testing; used in conjunction with an autosampler to further increase the degree of automation of the instrument; optional direct injection rod for the direct detection of high boiling point, difficult to vaporize substances.



GC-MS 3110 Vehicle-Mounted Gas Chromatography-Mass Spectrometer

- -High degree of automation, EPC electronic flow control of the gas path.
- -Configurable international common spectral library, such as NIST, WILEY, DRUG, etc., to realize automatic and rapid search.
- -Respond to on-site emergency monitoring in accordance with the General Technical Requirements for Mobile Laboratory Instruments and Equipment.
- -Mass number range: 1.5amu-800amu expandable to 1024amu.
- -Mass resolution (defined by half peak width) : 1.5M-2M.
- -Scanning speed: fully adjustable, up to 6000amu/sec (digital scanning, 0.1u per step).
- -Mass accuracy: ±0.2u
- -Mass stability: ±0.15u/24h
- -Sensitivity: 1pg octafluoronaphthalene (S/N>30:1).
- -Interface of the coupler: directly connected to the capillary column, ammonia flow rate 1 mL/min-vehicle-mounted vibration system design, dedicated gas source, dedicated power supply system.



Mass Spectrometer Series



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Laboratory Equipment Manufacturing Specialis

GCxGC TOF MS Model 3300 Full 2D Gas Chromatography-Time of Flight Mass Spectrometer

- -Disturbance elimination modulator develops GCxGC dist urbance elimination four-orifice modulator with independent intellectual property rights, which avoids the interference of hot and cold modulators on the market to the column temperature box. This core modulator solves the hot, difficult and key issues in the development of the industry. Independent temperature-controlled dual-column temperature box adopts t he structure of independent temperature-controlled dual-column temperature box, which makes the instrument control mo re flexible and applicable to a wider range, and the technology makes the instrument as a whole has reached the international leading level. Time-of-flight mass analyzer has completely independent intellectual property rights, resolution, sensi t ivity, acquisition speed have reached the international level, with selective removal of background ions.
- -Hardware, software, database interactive integration, to pr ovide a complete solution for the analysis of trace organics in all components and complex matrices.
- -Chromatography, modulator, mass spectrometry and elect rical components integration, system integration and operation control.



PTR-QMS 3500 Proton Transfer Reaction Mass Spectrometer

- -Low-pressure micro-glow discharge ion source with high electron density, high efficiency, anti-pollution and easy mai ntenance.
- -High-quality quadrupole mass spectrometry system, ensur ing stable and reliable data.
- -The lowest detection limit can reach tens of pptv.
- -Fast online real-time analysis of VOCs.
- -High efficiency soft ionization technology, reagent ion pu rity can reach 99.8% or more.
- -Rapid and simple analysis of samples without sample con centration.
- -Choice of fixed mass monitoring and full range scanning monitoring two ways.
- -Full-parameter auto-tuning program for fast optimization of instrument parameters.
- -Fast vacuum valve switching, no need to stop to change the reaction reagents.
- -Multi-functional embedded control system is safe and reli able
- -4~20mA, MODBUS protocol for remote data transmission.
- -Compact structure, reliable installation can be used for vehicle, convenient for field monitoring.



Atomic Absorption Series



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Laboratory Equipment Manufacturing Specialist

AA-7090 Atomic Absorption Spectrophotometer

- -The original imported transverse heating graphite furnace, the use of longitudinal AC Seeman and deuterium lamp double background correction mode.
- -The AC Seeman background correction field is continuously adjustable from 0.6T to 1.1T, which effectively meets the analytical needs of different users.
- -The AC Seeman background correction field is continuously adjustable from 0.6T to 1.1T, which effectively reduces the inversion effect on the analytical sensitivity.
- -Cross-current Seeman background correction field is continuously adjustable from 0.6T to 1.1T, which effectively reduces the influence of inversion effect on analytical sensitivity.
- -Graphite furnace visualization system for better positioning of the injection needle, observation of the sample in the graphite tube and optimization of the graphite furnace temperature program.
- -Graphite Furnace Gas Saving Mode maximizes the effective utilization of protective gas, extends gas usage time, and reduces operating costs.
- -The graphite furnace is equipped with two protective gas circuits.
- -Graphite furnace with dual protective gas circuits to further extend the life of the graphite tube by controlling the internal and auxiliary gas circuits.
- -Ink tube life is further extended by controlling the inner and auxiliary gas lines.
- -8 lamp holders with coded lamps for automatic identification of elemental lamps and recording of lamp life.
- -Highly automated software for elemental lamp selection, wavelength selection, slit selection, combustion head height and flow rate setting, auto-ignition, atomizer switching, deuterium lamp circuit switching, graphite furnace power switching and other functions.
- -Deuterium lamp fine-tuning mechanism, can maximize the deuterium lamp line and elemental lamp line overlap.



Equipped with laughing gas safety lock and related safety mechanism to ensure safer use of laughing gas acetylene flame.

AA-7050 Atomic Absorption Spectrophotometer

- -Automatic turret for 8 lamp holders.
- -Burning head automatic lifting, automatic adjustment of fl ame height.
- -Light-controlled temperature increase, maximum temperature increase rate 3000/s
- -Graphite furnace visualization system, greatly simplifying the development of graphite furnace methods.
- -Graphite furnace gas saving mode.
- -Graphite tube temperature correction.
- -Graphite Furnace Dual Internal Gas Circuit, adding an auxiliary gas in addition to the protective gas to help ashing of samples for better results.
- -Intelligent frequency conversion, the software can intelligently recognize the power supply frequency, and automatically match to the frequency of work.
- -Equipped with multi-element analysis function, can be configured with AS-600 autosampler, to realize the automatic determination of a variety of elements.



Atomic Absorption Series



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

AA-7020 Atomic Absorption Spectrophotometer

- -Optical system suspension design, vibration, ambient tempe rature changes do not affect the stability of the instrument.
- -Flame/graphite furnace two seconds to realize automatic fas t switching, no need to adjust the optical path after switching.
- -Safe and reliable control and alarm devices ensure overcurr ent protection of the hollow cathode lamp, gas/protective gas u nderpressure protection, gas leakage alarm, overheating protect ion of the graphite furnace, and protection of abnormal flame st ate, etc., which enhance the safety of the instrument's use.
- -It can be equipped with hydride generator, (integrated) auto sampler, laughing gas/acetylene gas system. Optional combusti on head automatic lifting, water seal automatic protection funct ion, etc., to ensure the accuracy and reliability of the analysis results.



AA-7003 Atomic Absorption Spectrophotometer

- -All titanium atomized combustion system, corrosion resistance, oxidation resistance, high temperature resistance, long service life, can be added to the laughing gas / acetylene flame system, the expansion of the analysis of more than 30 kinds of high-temperature elements, with the flame emission measurement function.
- -Temperature control program: the maximum 20-order heating program; ladder, slope, keep three ways of heating, heating rate 2000 / S.
- -Rising temperature mode: power heating, optical heating (optional).



AA-7001 Atomic Absorption Spectrophotometer

- -Advanced Graphite Furnace Power Supply.
- -Can be equipped with graphite furnace autosampler, analyzing work more easily.
- -Long-life graphite tubes for long -term use at 2000°C.
- -Automatic graphite furnace programmed temperature increase, up to $20\ \mathrm{steps}.$
- -Unique design of background deduction, so that high salinity, high background samples (such as soy sauce, food, etc.) can also get accurate analytical results.



Gas Chromatography Series



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Laboratory Equipment Manufacturing Specialis

GC-4200 Gas Chromatograph

- -Operating system developed with Linux kernel.
- -Monitoring and control of the instrument can be realized t hrough PC, tablet PC and cell phone.
- -Adopting 10-inch color touch screen: beautiful interface, i ntuitive and convenient finger operation, good interactivity and simplified human-machine interface.
- -Liquid autosampling installation platform, compatible wit h dual-tower autosampler.
- -The column temperature box adopts double rear door desi gn, equipped with high-precision temperature control system, which can realize rapid and accurate temperature rise and fall operation, and the temperature control performance reaches the international advanced level.
- -New electronic gas control system, equipped with high-pr ecision EPC, can realize the whole EPC control of the whole gas circuit.
- -Network communication between the mainframe and com puter, more stable and reliable.
- -Two liquid autosamplers can be equipped at the same time t_0 realize dual-tower sampling.



GC-4100 Gas Chromatograph

- -The gas circuit realizes high-precision EPC electronic flow control automatically, equipped with inverse control works tation as standard.
- -Thermal conductivity detector dead volume is small, fast s tabilization time, the use of antioxidant components, the average temperature of the constant hot wire bridge mode power supply, high sensitivity, long service life; six consecutive detection of benzene in toluene, RSD is less than 2.5%, chromat ographic half-peak width is narrow.
- -Electron capture detector performance has been improved, the micro ECD cell size is small, stable baseline, can be adapted to the capillary column analysis; sensitivity has been significantly improved, the detection limit of up to 2×10^{17} g/m(Lly-666).



Liquid Chromatography\Ion Chromatography Series

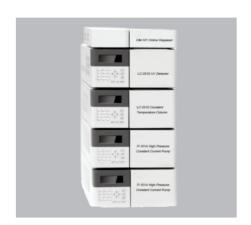


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Laboratory Equipment Manufacturing Specialis

LC-5510 Liquid Chromatograph

- -Double plunger parallel pump, with high-precision steady f low performance, high-pressure infusion pump up to 50 mL/min flow rate.
- -Variable wavelength UV detector with microcomputer inverse wavelength scanning.
- -Patented pulsation buffer ensures the best pulsation buffer effect.
- -Highly efficient on-line degassing device to ensure stable baselines.
- -Upgradeable to a binary gradient chromatography system.
- -Software programmable for dual-pump gradient elution.
- -Equipped with autosampler to improve working efficiency and sampling precision.
- -Equipped with autosampler to improve working efficiency and sampling precision. Optional self-developed evaporative light scattering detector that can be used with any brand of liquid phase. Optional fluorescence detector, also compatible with a variety of detectors.



LC-5520 Liquid Chromatograph

- -Patented oscillometric refraction suppression technology fo r extremely low noise and drift.
- -Extra-long 20 mm optical cell for high detection sensitivity. New optical design, concave holographic grating, high stab ility.
- -The three-dimensional column oven makes the installation and replacement of columns more user-friendly, and takes into account the installation needs of semi-preparative columns.
- -Advanced semi-conductor cooling for low-temperature sep aration of biological and pyrolytic samples.
- -Rapid interchangeability between analytical and semi-prepa rative liquid phases.
- -Post-column derivatization, compatible with a wide range of detectors.



IC-2800 Ion Chromatograph

- -Specially designed continuous automatic regeneration electrochemical suppressor (anionic and cationic) with large suppression capacity, low background conductivity, small dead volume, fast equilibrium, good reproducibility, simple operation, no maintenance and so on.
- -Double-plunger, low-pulsation infusion pump made of all PEEK materials, with wide flow rate range and stable operation.
- -All PEEK flow system, avoid metal contamination, high pressure resistance, strong acid, alkali and compatible with organic solvents.
- -EG-100 Lysate Generator can automatically produce OH and other lysates required for analysis without the need for an additional degassing unit.



Product Accessories



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Laboratory Equipment Manufacturing Specialis

Accessories for Atomic Absorption Spectrophotometers



AS-200 Atomic Absorption Flame Autosampler



AS-500 Atomic Absorption Graphite Furnace Autosampler



AS-600 type flame graphite furnace autosampler all-in-one machine



HG-01 Hydride Generator



EW-320AC Oil-Free and Low-Noise Air Compressor



EW-900CH Cooling Water Circulating Device



Pure Titanium Burner Head



Elemental Lamp



Furnace

Gas Chromatograph Accessories



Six-Way Valves / Twelve-Way Valves



Filling Columns



Capillary Device



EW-101AG Automatic Air Source

Product Accessories

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EW-103AG Automatic Air Source



EW-300HG Hydrogen Generator



EW-500HG Hydrogen Generator



EW-501HG Hydrogen Generator



EW-301HG Hydrogen Generator



EW-3TD Thermal Resolver

Ion Chromatograph Accessories



Gas Chromatography-Mass Spectrometer Accessories



EG-100 Drench Liquid Generator

Liquid Chromatograph Accessories



AS-405 Autosampler



EL-100 Evaporative Light Scattering Detector



DM-101 Online Degasser



PCRM-120 Post-Column Derivatization Device

Laboratory Boxes

YQX- Anaerobic Incubator



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Laboratory Equipment Manufacturing Specialis

Overview of Applications

This product is a specialized device that can be used for bacterial culture and operation in an anaerobic environment. It can cultivate anaerobic organisms that cannot grow in the atmosphere, and it can avoid the danger of death of anaerobic organisms that used to be exposed to oxygen when operated in the atmosphere.

Structural Features

- -The product consists of a culture room, a sampling room, a gas and circuit control system, and a catalytic deoxidizer.
- -The product uses advanced scientific means to achieve high precision in anaerobic environment, which is convenient for the operator to operate and cultivate anaerobic bacteria in anaerobic environment.
- -The temperature control system adopts microcomputer PI.D intelligent controller, high-precision digital display, which can correctly and intuitively reflect the actual temperature inside the incubation room, coupled with effective temperature-limiting protection device (overtemperature sound and light alarm), safe and reliable; the incubation room is equipped with lighting and ultraviolet sterilization device, which can kill the harmful bacteria in the dead corners of the room, and can effectively avoid bacterial contamination. The gas circuit device can adjust the flow rate arbitrarily, which can effectively control the input of different flow rates of safety gas. The operation room is made of high quality stainless steel plate. The observation window is made of high strength special glass. Special gloves are used for operation, which are reliable, comfortable, flexible and easy to use, and the operating chamber is equipped with a deoxidizing catalytic converter.



Serial Number	Item	Technical Parameter
1	Model	YQX-II
2	Temperature control range	Room temperature +3-60°C
3	Temperature resolution	0.1°C
4	Temperature fluctuation	±0.2°C
5	Temperature uniformity	±1°C
6	Working power supply	AC 220V 50Hz
7	Power	1500W
8	Working time	1-9999 minutes timer or continuous
9	Workshop size mm	820×550×660
10	Overall dimension mm	1200×730×1360
11	Sampling room anaerobic state time	<5 minutes
12	Time to form anaerobic state in operation room	<1 hour
13	Maintenance time of anaerobic environment	>12 hours when the operation chamber stops replenishing trace gas

WJ-A/B Carbon Dioxide Incubator Series



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Laboratory Equipment Manufacturing Specialis



Overview of Applications

Carbon dioxide incubator is a device for cell, tissue and microorganism cultivation. It simulates the growth environment of living organisms and provides a clean space for in vitro cultivation, with suitable temperature, humidity, CO₂ concentration, acidity and alkalinity (pH) to support the growth of cells and tissues. They are widely used in immunology, oncology, genetics, pathology, cellular dynamics, production of antigens and antibodies, and drug screening.

Structural Features

- The inner liner is made of 304 mirror stainless steel, with rounded corners for quick cleaning and no dead angle;
- Double-door structure, the outer door using magnetic door seal, sealing effect is good, can reduce the loss of gas in the cavity; with door temperature control and open the door to detect the function, can effectively prevent moisture condensation; inner door is a high-quality toughened glass door, open the outer door can be convenient to observe the sample situation, the inner door opens automatically shut down the fan and stop the heating and gas supply, and effectively prevent the temperature in the cavity and the concentration of CO₂ rushing; the use of humidification tray humidification (independent humidification tray can be removed or placed according to demand), to provide high humidity sample culture environment; one-piece humidification tray can be taken out or put in according to demand, to provide high humidity; one-piece sample culture environment. Humidifying tray (independent humidifying tray can be taken out or put in according to the demand), to provide a high humidity sample culture environment; one-piece perforated shelves with anti-dislodgement and anti-tipping push-pull design, can be disassembled and cleaned without tools.
- Adopts 5-inch high-resolution color touch screen, multi-group data a screen display, easy to operate, with a screen password lock function, Chinese and English interfaces can be selected; with sound, visual alarm function, while the screen menu has the appropriate prompts; intelligent fuzzy PID control, high control accuracy, fixed value and the program is free to set up a multi-segment operation; three levels of authority management function;
- The original imported infrared (IR) CO₂ concentration sensor, infrared dual-beam technology, built-in temperature and pressure compensation, high-temperature-resistant design, long product life.
- Heating system: six-side direct heat, PID. control, each surface of the chamber is efficiently and evenly heated; airflow is gentle to prevent rapid evaporation of the culture medium, improve the temperature recovery speed, to ensure a uniform and stable culture environment:
- Provide one-key UV sterilization function to provide a sterile environment for cell culture.
- Real-time curve view and historical data storage and export function, data storage time 1 minute-999 minutes can be set, up to 180,000 operating data and event records can be stored; data can be viewed, monitored and can be exported through the USB interface, the historical data can not be changed, and the original data can be truly and effectively traced.

WJ-A/B Carbon Dioxide Incubator Series



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Serial Number	Item	Technical Parameters				
1	Model	WJ-80A	NJ-160A	NJ-80B	NJ-160B	
2	Volume	80L	160L	90L	180L	
3	Control method		P.I.D fuzzy	logic control		
4	Heating method	Gas jac	ket type	Water ja	cket type	
5	HEAP Filter	optional equipment	optional equipment	standard equipment	standard equipment	
6	Temperature control range		Room tempera	ture +5°C-65°C		
7	Temperature display resolution		0.1	°C		
8	Temperature fluctuation	±(0.1°C (ambient temperatu	are 25°C, set 37°C, no loa	ad)	
9	Temperature uniformity	≤0	0.3°C (ambient temperatu	are 25°C, set 37°C, no loa	ad)	
10	CO ₂ control range		0-20	0%		
11	CO ₂ control precision		0.1	1%		
12	CO ₂ supply pressure value	Recomm	nended Pressure Reducin	g Valve Pressure Value	0.05Mpa	
13	Relative humidity		≥90% (humidification	by humidifying tray)		
14	Temperature recovery time	≤5min(open the	door for 30 seconds, am	bient temperature 25°C,	set value 37°C)	
15	CO ₂ concentration recovery time		5 min(open the door for	30 seconds, set value 59	%)	
16	Power consumption	400W	600W	600W	800W	
17	Timing range	1 m	inute-999 hours and 59 i	minutes can be slowed d	own	
18	Power supply voltage		AC 220V	50/60HZ		
19	Stainless steel shelf		Standard 2 layer	rs (can be added)		
20	Workshop size mm	400x400x500	500x500x650	445×385×540	545×485×690	
21	Overall dimension mm	550x610x810	665x690x960	550×555×870	650×655×1020	

GZX-III Light Incubator Series



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Laboratory Equipment Manufacturing Specialist

Overview of Applications

This product is suitable for plant seed germination, seedling cultivation, bacteria, microorganisms culture and preservation, small animals, insect rearing; product quality testing and other uses of light, constant temperature experiments, is the biology, medicine, agriculture, animal husbandry, forestry, environmental science and other production and scientific research departments of the ideal test equipment.

Structural Features

- -The inner liner is made of high-quality stainless steel, with corrosion-resistant, acidresistant, easy to clean, no rust and other characteristics.
- -Microcomputer intelligent temperature controller, PID control, stable temperature control, high accuracy, 12-bit LED high brightness digital display, intuitive and clear, with good control and anti-interference ability. Double temperature insurance device: temperature controller with automatic tracking, over-temperature alarm device; once over-temperature immediately cut off the heating system, and at the same time in the working chamber is equipped with a temperature insurance device to ensure the safety of the cultures in the working chamber.
- -Unique air duct design in the working chamber, the wind speed is gentle, to ensure the uniformity and accuracy of the temperature inside the box.
- -Three-side illumination design, five-level adjustable illumination, simulating the day and night environment.
- -Double-door structure: when the outer door is opened, the temperature will not be affected by observing the experimental condition of the working chamber through the inner door made of high-strength tempered glass.
- -The height of the shelves in the working room can be adjusted at will.
- -The compressor of international famous brand is used, and the environmentally friendly non-fluorocarbon refrigerant.









Serial Number	Item		Technical Parameters				
1	Product model	GZX-150BSH-III	GZX-250BSH-III	GZX-300BSH-III	GZX-400BSH-III		
2	Volume	150L	250L	300L	400L		
3	Heating/cooling method	St	ainless steel electric heater / he	ermetic fluorine-free compress	sor		
4	Temperature control range		With light 5 °C -60 °C v	vithout light 0 °C -60 °C			
5	Temperature resolution		0.1	$^{\circ}$ C			
6	Temperature fluctuation		± 0.5	5 ° C			
7	Luminance	0-10000Lx	0-15000Lx	0-20000Lx	0-25000Lx		
8	Working environment		20±	±5°C	•		
9	Number of shelves		3 pi	eces			
10	Refrigerant		404A(Fluorine-free envir	onmental protection type)			
11	Working time		1-999 minutes	s or continuous			
12	Power	900W	1000W	1400W	1900W		
13	Working power		AC 220	V 50Hz			
14	Studio size mm	500×400×800	570×500×850	570×540×950	700×550×1020		
15	Exterior size mm	700×625×1470	770×735×1530	780×780×1670	920×825×1770		

QHX-III Artificial Climate Chamber Series



Precision Precision Precision

Laboratory Equipment Manufacturing Specialist

Overview of Applications

This product is suitable for seed germination of plants, seedling cultivation, culture and preservation of bacteria and microorganisms, rearing of small animals and insects; quality testing of products and other uses of light, constant temperature and humidity test, which is the ideal test equipment for the production and scientific research departments of biology, medical science, agriculture, animal husbandry, forestry, and environmental science.





Structural Features

the working chamber.

which is corrosion-resistant, acid-resistant, easy to clean and rust-free.

-Microcomputer intelligent temperature controller, PI.D. control, stable temperature control, high precision, 11-bit LED high-brightness digital display, intuitive and clear, with good control ability and anti-interference ability. Double temperature insurance device: the temperature controller has automatic tracking and over-temperature alarm device; once over-temperature immediately cut off the heating system, at the same time, the temperature insurance device is equipped in the working chamber, which can ensure the safety of the cultures in

-The inner liner is made of high-quality mirror stainless steel material,

- -Unique air duct design in the working chamber, with soft wind speed to ensure the temperature uniformity and accuracy inside the chamber.
- -Three-side lighting design, five-level adjustable illumination, simulating the day and night environment.
- -Double door structure: when the outer door is opened, the temperature and humidity are not affected by observing the experimental situation in the studio through the inner door made of high-strength tempered glass.
- -Working room shelves made of stainless steel material, can be adjusted at will height.
- -Selecting international famous brand compressor, environmentally friendly non-fluorine refrigerant.

Serial Number	Item	Technical Parameters				
1	Product Model	QHX-250BSH-III	QHX-300BSH-III	QHX400BSH-III		
2	Volume	250L	300L	400L		
3	Heating/cooling method	Stainless steel	electric heater / hermetic fluorine-f	ree compressor		
4	Temperature control range	Wit	h light 5°C-50°CWithout light 0°C-5	50°C		
5	Temperature resolution		0.1°C			
6	Temperature fluctuation	±0.5°C(heati	ng operation state)±1°C(cooling op	eration state)		
7	Humidity control range	50-95% hu	midity control fluctuation ±5%RH ((25°C-40°C)		
8	Humidification mode		External ultrasonic humidifier			
9	Illumination	0-15000Lx	0-20000Lx	0-25000Lx		
10	Working environment		20±5°C			
11	Number of partitions		3 pieces			
12	Refrigerant	404A (1	non-fluorine environmental protection	on type)		
13	Working time		1-99 hours or continuous			
14	Power	1400W	1750W	1850W		
15	Working power supply	AC 220V 50Hz				
16	Workshop size mm	570×500×850 570×540×950 700×550×1020				
17	Overall size mm	770×735×1560	780×780×1700	920×825×1800		

SPX-F Biochemical Incubator Series/MJ-F Mold Incubator Series



Precision Precision

Laboratory Equipment Manufacturing Specialis

Overview of Applications

This product has cold and hot thermostatic control equipment, widely used in medical treatment, drug testing, health epidemic prevention, environmental protection and other scientific research departments. It is a kind of thermostatic equipment for cell, mold, microorganism culture protection and plant cultivation, breeding and other tests.

Structural Features

- -This product is novel and beautiful in shape. Studio is made of high quality 304 stainless steel, four corners arc design, easy to clean; shell made of high quality cold rolled steel plate, surface electrostatic spraying treatment, strong corrosion resistance; double door structure, the inner door is a high quality toughened glass door, you can directly observe the test inside the studio without affecting the internal temperature; unique air duct design, to ensure that the studio temperature uniformity and stability; stainless steel shelves, the height of the freely adjustable. The height of the stainless steel shelf can be adjusted freely.
- -True color LCD touch screen, temperature, time real-time display, with manmachine interface, easy to operate, more humanized; can view the instrument history data.
- -Adopts intelligent operating system, fuzzy PI.D intelligent control, fixed value/program multi-run can be set freely. Equipped with large-capacity memory, can store 250,000 data records and 16,000 event records.
- -With Chinese and English menu switching function.
- -User rights hierarchical management: administrator can create up to 5 sub-users and assign different rights, which can realize multi-level management.
- -Automatically record the operation data, operation log and alarm log of the device, and can export the original file or unchangeable PDF file through the instrument U disk interface.



- -Screen password lock function, can prevent non-experimental personnel to operate at will.
- -Built-in high brightness LED lighting, UV germicidal lamp (limited to MJ-N series); box with a test hole (50mm), convenient for data verification.
- -Frequency conversion refrigeration system, energy saving and power saving, small temperature fluctuation, open the door to recover quickly, and to ensure that the equipment in the non-extreme conditions of long-term frost-free operation; selection of international famous brand compressor, environmentally friendly non-fluorine refrigerant.
- -Call recovery mode is optional: stop, restart operation, continue operation.

Serial Number	Item	Technical Parameters				
1	M 11	SPX-160F	SPX-250F	SPX-350F	SPX-510F	
1	Model	MJ-160F	MJ-250F	MJ-350F	MJ-510F	
2	Volume	160L	250L	350L	510L	
3	Control Method/Program	PI.D fuz	zy logic control fixed value	e / program control fuzzy	operation	
4	Temperature control range		-5°C-70°C(-20°C-100°	C can be customized)		
5	Resolution		0.1	$^{\circ}\mathrm{C}$		
6	Temperature fluctuation		<u>≤±0</u>	.3°C		
7	Temperature uniformity		<u>≤±0</u>	.8°C		
8	Number of stainless steel shelves		Standard 3 layer	s (can be added)		
9	Wattage	1150W	1380W	1850W	2150W	
10	Power supply voltage	AC 220V 50/60Hz				
11	Overall dimensions(mm)	640×745×1470 700×810×1600 750×910×1660 850×990×1810				
12	Studio size(mm)	505×420×785	565×485×920	615×585×980	715×665×1070	

SPX-II Biochemical Incubator Series



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Laboratory Equipment Manufacturing Specialist

Overview of Applications

This product is widely used in medical treatment, drug testing, health epidemic prevention, environmental protection and other scientific research departments. It is a kind of thermostatic equipment for cell, mold, microorganism culture protection and plant cultivation, breeding and other tests.

Structural Features

- -The inner liner material is made of high-quality mirror stainless steel material, which is corrosion-resistant, acid-resistant, easy to clean, not rusty and so on.
- -Microcomputer intelligent temperature controller, PI.D. control, stable temperature control, high precision, 7-bit LED high brightness digital display, intuitive and clear, with good control and anti-interference ability. Double temperature insurance device: temperature controller with automatic tracking, over-temperature alarm device; once over-temperature immediately cut off the heating system, while the temperature insurance device is installed in the working chamber, which can ensure the safety of the cultures in the working chamber.
- -Double-door structure: after the outer door is opened, the temperature is not affected by observing the experimental situation of the working room through the inner door made of high-strength tempered glass.
- -The working chamber is equipped with fluorescent lamps for lighting; BOD socket (150L and above only); the shelves in the working chamber can be adjusted in height at will.
- -Working time setting range: 1 minute-99 hours and 59 minutes.





Serial Number	Item	Technical Parameters				
1	Product Model	SPX-80BSH-II	SPX-150BSH-II	SPX-250BSH-II	SPX-300BSH-II	
2	Volume	80L	150L	250L	300L	
3	Heating/cooling method	Stainless	steel electric heater / hern	netic fluorine-free compr	essor	
4	Temperature control range		0°C-60	°C		
5	Temperature resolution		0.1℃			
6	Temperature fluctuation	±0.5°C(heating operation state)±1	.0°C(cooling operation st	ate)	
7	Number of shelves		2 pieces 3 j	pieces		
8	Refrigerant	R1	34a (non-fluorine environ	mental protection type)		
9	Operating time		1 minute-99 hours 59 mi	nutes or continuous		
10	Power	300W	400W	500W	700W	
11	Working power supply	AC 220V 50Hz				
12	Workshop size mm	440×320×520 480×390×780 570×500×850 570:			570×540×950	
13	Overall dimension mm	570×545×1120	610×625×1435	700×715×1500	700×735×1600	

Constant Temperature (Full Temperature) Culture Shaker Series



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Laboratory Equipment Manufacturing Specialist





Overview of Applications

Constant temperature culture shaker (also known as constant temperature shaker), widely used in bacterial culture, fermentation, hybridization and biochemical reactions and enzymes, cell tissue research, etc., which have high requirements for temperature and shaking frequency. It has a wide range of applications in biology, medicine, molecular science, pharmaceutical, food, environmental protection and other research fields.

Structural Features

- -Integrates biochemical constant temperature incubator and oscillator into one, featuring multi-purpose, less investment, small area and multi-function.
- -Three-dimensional self-balancing eccentric wheel drive mechanism, running more balanced and free.
- -Intelligent sound and light alarm, with operating parameters memory storage function, to avoid cumbersome operation.
- -Large screen backlit liquid crystal display, can display the set temperature and the actual temperature, accuracy of \pm 0.1 °C. Adopt microcomputer intelligent temperature control instrument, PI.D. control, stable temperature control and high precision.
- -High-precision rotational speed control system, the display can directly show the set rotational speed and actual rotational speed, the accuracy is \pm 1rpm.
- -Equipped with timing function, the incubation time can be set arbitrarily between 1-999.9 hours, the display shows the timing time and the remaining time, and at the end of timing, the equipment automatically stops and issues sound and light alarms. Adopting DC motor, featuring wide speed regulation, constant torque, constant speed and maintenance-
- -Adopt famous brand non-fluorine compressor (limited to QYC series). The inner liner and rocking plate are made of high-quality mirror stainless steel; various specifications of stainless steel flask clamps can be disassembled and freely combined.

Serial Number	Item	Technical Parameters					
1	Product Model	KYC-100	CKYC-100B	QYC-200	QYC-2102C	KYC-1102C	
2	Rotating frequency			40-300rpm			
3	Frequency Accuracy		±1rpm				
4	Oscillation amplitude			26(mm)			

Constant Temperature (Full Temperature) Culture Shaker Series



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5	Maximum capacity	100ml×9 or 250ml×6	100ml×16 or 250ml×12 or 500ml×9 or 1000ml×4	100ml×20 or 250ml×16 or 500ml×12 or 1000ml×6	100ml×48 or 250m	nl×30 or 500ml×24
6	Size of rocker plate mm	290×250	400×370	450×400	500:	×350
7	Standard configuration	100ml×9	500ml×3, 250ml×3100ml×8	500ml×3, 250ml×4100ml×1 0	250n	nl×24
8	Timing range			1 minute-999.9 hours	3	
9	Temperature control range	RT+5~60°C 4~60°C			4~60°C	RT+5-60°C
10	Temperature control precision		0.1°	C(constant temperate	ure)	
11	Temperature Fluctuation			±0.5°C		
12	Number of shaking boards		1 piece		2 pi	eces
13	Workshop size mm	330×300×190	420×450×310	500×450×300	600×460	×620mm
14	Overall dimension mm	540×450×390 620×600×520 740×700×520 700×5			700×590:	×1250mm
15	Wattage	350W 400W 600W 900W			900W	600W
16	Power supply	AC 220V 50Hz				

DZF Vacuum Drying Box Series



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Laboratory Equipment Manufacturing Specialism









2XZ-2 vacuum pump

2XZ-4 vacuum pump

Structural characteristics

- -Temperature control system adopts microcomputer PI.D. intelligent controller, digital tube display, after setting the temperature, the instrument controls the heating power required by itself and displays the heating status, precise and stable temperature control, over-temperature audible and visual alarm and automatically cut off the power supply.
- -The operation panel is placed in the upper part of the box (6020, 6030, 6050), which is different from the left side of the box, making the operation easy and convenient for observation.
- -Observation window adopts double glass, sealed glass door for more than 15mm high-quality tempered glass, the outer layer of 3mm bullet-proof glass.
- -The 6050 box door is equipped with a switch tension adjustment device, and the mouth of the working room adopts an integral one-time molding silicone sealing ring.
- -The mouth of the working chamber adopts the integral one-time molding silicone sealing ring.
- -The inner liner is made of high quality stainless steel material, with corrosion resistance, acid resistance, easy to clean and so on.
- -The heaters of 6210, 6090, 6030 and 6020 are located on the shelves in the box, which can greatly reduce the heat loss.

Overview of Applications

For various factories and mining enterprises, universities and colleges, scientific research and all kinds of laboratories, etc. in the vacuum conditions of the goodsfor drying treatment.

Serial Number	Item	Parameters Technical					
1	Product model	DZF-6020	DZF-6020 DZF-6030 DZF-6050 DZF-6090 DZF-6210				
2	Volume	24.75L	30.72L	52.9L	91.13L	215L	
3	Heating method		Stair	nless steel electric h	eater		
4	Vacuum degree			<133pa			
5	Temperature control range room temperature	Room temperature +10° C -250° C					
6	Temperature resolution			0.1			
7	Temperature fluctuation			± 0.5			
8	Working time		1-9999	minutes timed or co	ntinuous		
9	Power	300W	400W	1400W	1350W	2050W	
10	Working power			AC 220V 50Hz			
11	Workshop size mm	300×300×275	320×320×300	415×370×345	450×450×450	560×640×600	
12	Exterior size mm	460×430×570	490×500×595	570×510×655	615×590×1270	725×730×1460	

DNP-III Electrothermal Constant Temperature Incubator Series



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Laboratory Equipment Manufacturing Specialis



Structural characteristics

- -Double-door structure: open the door, the inner door is made of high-quality thermal insulation tempered glass, easy to observe the situation inside the working room, and does not affect the internal temperature.
- -Double temperature insurance device: temperature controller with automatic tracking, over-temperature alarm device; once the over-temperature immediately cut off the heating system, and at the same time in the working chamber is equipped with a temperature insurance device to ensure the safety of the cultures in the working chamber.
- -Microcomputer intelligent temperature control instrument, PI.D control, with self-tuning function, LED bright digital tube display, clear and intuitive. After setting the temperature, the instrument will judge the power needed for heating and display the heating status, without the disadvantage of temperature overshoot, precise and stable temperature control. With power failure automatic recovery memory function.
- -The inner liner is made of high-quality mirror stainless steel, rounded shape, with corrosion resistance, acid resistance, easy to clean and so on.
- -Workshop shelves can be adjusted to any height according to the user's needs.
- -Working mode: continuous or 1-9999 minutes timer function.

Overview of Applications

This product is widely used in medical and health care, pharmaceutical industry, biochemistry and agricultural science and other scientific research and industrial production departments for bacterial culture, fermentation and other constant temperature test.

Serial Number	Item		Technical Parameters					
1	Product model	DNP-9052BS-III	DNP-9082BS-III	DNP-9162BS-III	DNP-9272BS-III			
2	Volume	50L	80L	160L	270L			
3	Heating method		Electric heating wire / th	nree-dimensional heating	5			
4	Temperature control range		Room tempe	erature +5~65				
5	Temperature resolution		0.1°C					
6	Temperature fluctuation		±0.	2°C				
7	Temperature uniformity		±0.	5°C				
8	Number of shelves		2 pi	eces				
9	Working hours		1-9999 minute	s or continuous				
10	Power	200W	200W	440W	440W			
11	Operating power	AC 220V 50Hz						
12	Studio size mm	350x350x410 400x400x500 500x500x650 600x600x750						
13	Overall dimensions in mm	515x515x700 550x570x790 650x670x935 765x770x1035						

GNP-III Waterproof Type Electric Thermostatic Incubator Series



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Laboratory Equipment Manufacturing Specialis



Structural characteristics

- -Double-door structure: open the door, the inner door is made of high quality heat preservation tempered glass, easy to observe the situation inside the studio, and does not affect the internal temperature.
- -Water jacket structure (the incubator water jacket is made of high-quality stainless steel material argon arc welding): the temperature is uniform, and the constant temperature can be maintained for a long time after the power failure.
- -Double temperature insurance device: temperature controller with automatic tracking, over-temperature alarm device; once over-temperature immediately cut off the heating system, while the temperature insurance device is installed in the working chamber to ensure the safety of cultures in the working chamber.
- -Microcomputer intelligent temperature control instrument, PI.D control, with self-tuning function, LED bright digital tube display, clear and intuitive. After setting the temperature, the meter judges the power needed for heating and displays the heating status, without the disadvantage of overshooting temperature, precise and stable temperature control. With power failure automatic recovery memory function.
- -The inner liner is made of high-quality mirror stainless steel, rounded shape, with corrosion resistance, acid resistance, easy to clean and so on.
- -Working mode: continuous or 1~9999 minutes timer function.

Overview of Applications

This product is widely used in medical and health care, pharmaceutical industry, biochemistry and agricultural science and other scientific research and industrial production departments for bacterial culture, fermentation and other constant temperature test.

Serial Number	Item	Technical Parameters				
1	Product model	GNP-9050BS-III	GNP-9080BS-III	GNP-9160BS-III	GNP-9270BS-III	
2	Volume	50L	80L	160L	270L	
3	Heating method		Electric heating wire / th	nree-dimensional heating		
4	Temperature control range		Room tempe	erature +5~65		
5	Temperature resolution		0.1	°C		
6	Temperature fluctuation		±0.	2°C		
7	Temperature uniformity		±0	5°C		
8	Number of shelves		2 pi	eces		
9	Working hours		1-9999 minute	s or continuous		
10	Power	500W	800W	1200W	1500W	
11	Operating power	AC 220V 50Hz				
12	Studio size mm	350x350x410 400x400x500 500x500x650 600x600x750				
13	Overall dimensions in mm	515x515x700	550x580x780	650x680x935	765x750x1035	

DHG-III Electrothermal Constant Temperature DrumDrying Oven Series 200 Degrees



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Laboratory Equipment Manufacturing Specialism



Overview of Applications

For scientific research units, universities and colleges, medical institutions, industrial and mining enterprises and other units,

departments for a variety of tests, such as drying, disinfection, sterilization, curing and other applications.

Structural characteristics

- -Microcomputer intelligent PI.D. controller, after setting the temperature, the instrument controls the heating power by itself and displays the heating status, the temperature control is accurate and stable.
- -Over-temperature sound and light alarm and automatically cut off the heating power.
- -Built-in stainless steel shelf, height can be freely adjusted.

Material:

- -Box body is made of high-quality cold-rolled steel plate, surface electrostatic spraying, the coating is hard and firm, with strong anti-rust ability. The working chamber is made of high-quality 304 mirror stainless steel, rounded corners inside the box, smooth and smooth, very easy to clean. Shelf bracket can be freely loaded and unloaded.
- -Low noise special fan, can be in the high temperature for a long time stable operation; adjustable new air inlet, control the air volume in and out of the box.

Serial Number	Item	Technical Parameters				
1	Product Model	DHG-9033BS-III	DHG-9053BS-III	DHG-9073BS-III	DHG-9143BS-III	DHG-9243BS-III
2	Volume	30.4L	51.6L	72L	121L	207L
3	Heating method		Stair	nless steel electric he	aters	1
4	Temperature control range		Room	temperature +5 °C-2	200 °C	
5	Temperature resolution			0.1°C		
6	Temperature fluctuation			±0.2°C		
7	Number of shelves			2 pieces		
8	Working hours		1-9999	minutes timed cont	inuous	
9	Power	700W	900W	1050W	1650W	2050W
10	Operating power	AC 220V 50Hz				
11	Studio size mm	320x280x340	380x340x400	450x350x450	550×400×550	600×460×750
12	Overall dimensions in mm	580x450x520	640x505x580	705x520x630	800×580×730	850×630×930

H·SWX Electric Thermostatic Water Temperature Box Series /DK Three-Hole Electric Thermostatic Water Tank



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Laboratory Equipment Manufacturing Specialis

Overview of Applications

This product is used for distillation drying, concentration and constant temperature heating of chemicals, biological manufacturing, checking serum biochemical experiments, constant temperature cultivation as well as for boiling sterilization of syringes and small surgical instruments.

Structural characteristics

The shell of H.SWX series products is made of high-quality coldrolled steel plate spraying plastic. The inner liner and the upper cover are made of stainless steel plate, and the outer shell is filled with high-quality thermal insulation material between the inner liner, the overall structure is reasonably designed, and the modeling is beautiful and generous. The temperature control system adopts digital microcomputer intelligent control. Strong thermal sensibility, high sensitivity, in the use of the range can be arbitrarily adjusted. The heating device adopts closed heater, directly immersed in the water, less heat loss.DK-8D three-hole electric thermostatic sink shell is made of high-quality cold-rolled steel spray molding. The inner liner and top cover are made of stainless steel, with novel and beautiful modeling; the temperature is controlled independently by three holes; the temperature control instrument adopts high-speed and high-performance CPU processing chip, highly sensitive and high-precision platinum resistance sensor, with sound and light tracking alarm of over-temperature, so that the samples can be reliably protected.





Serial Number	Item	Technical Parameters					
1	Product Model	H-SWX-420BS H-SWX-600BS DK-8D					
2	Volume	11.3L	34.2L	2L×3			
3	Heating method	Enclo	osed stainless steel electric	heater			
4	Temperature control range	Room temperature +5°C-100°C					
5	Temperature resolution	0.1°C					
6	Constant temperature fluctuation	±0.5°C					
7	Working time	1-99	99 minutes timed or contin	uous			
8	Power	Power 1000W 1500		300W×3			
9	Working power supply	AC 220V 50Hz					
10	Studio size	420×180×150mm 600×300×190mm 120~55×105mm					
11	Overall dimension	570×220×275mm 750×345×315mm 480×250×320mm					

HH·S Electric Thermostatic Water Bath Series



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis



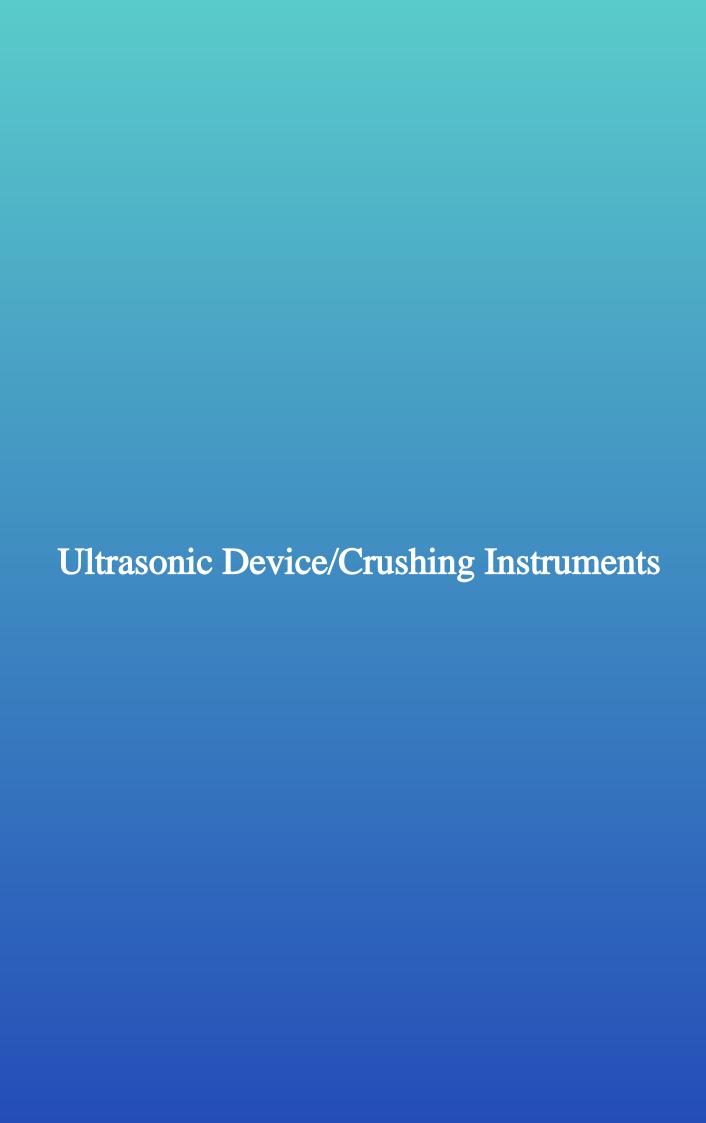
Overview of Applications

For colleges and universities, industrial and mining enterprises and scientific research units for precision constant temperature and auxiliary heating.

Structural characteristics

- -Using one-piece molding stamping stainless steel liner, four corners arc design, easy to liner cleaning work.
- -Beaker hole can be arbitrarily changed size, hole cover is made of silicone, anti-scald effect is good, can better protect the glass beaker.
- -Microcomputer intelligent temperature control instrument, with setting, measuring temperature double digital display and PLD. self-tuning function, accurate and reliable temperature control.
- -Double column 8-hole standard with low water level alarm function.
- -Water bath stainless steel cover hole inner diameter of 125mm, silicone cover for the four circles of a cover, each circle of the inner diameter were: 97mm, 77mm, 59mm and 38mm.

Serial Number	Item	Technical Parameters						
1	Product Model	HH-S11-2-S HH-S21-4-S HH-S21-6-S HH-S						
2	Heating method		Enclosed stainless	steel electric heaters				
3	Temperature control range	Room temperature +5°C-100°C						
4	Temperature resolution	0.1°C						
5	Temperature fluctuation	±0.5°C						
6	Working hours	1-9999 minutes timed or continuous						
7	Power	600W	800W	1200W	1800W			
8	Operating power	AC 220V 50Hz						
9	Studio size mm	305×160×140 305×305×140 470×305×140 620×30						
10	External dimensions mm	450×200×220	450×345×220	620×345×220	780×345×220			



Intelligent All-in-One Ultrasonic Cell Breaker



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Laboratory Equipment Manufacturing Specialist



Product Introduction

All-in-one series ultrasonic cell crusher (pulverizer) is a new product independently developed by our company. It has full functions, novel appearance and reliable performance. The instrument adopts large screen liquid crystal display; the control adopts centralized control of the central microcomputer, ultrasonic output, gap time, ultrasonic power, temperature can be set arbitrarily, the sample temperature detection and display, automatic frequency tracking, fault automatic alarm.

Application Areas

Biochemistry, Microbiology, Medicinal Chemistry, Surface Chemistry, Physical Chemistry, Zoology.

Working Principle

This instrument is a kind of multi-functional and multi-purpose instrument that uses strong ultrasound to produce cavitation effect in liquid and ultrasonic treatment of material, which can be used for crushing of animal and plant tissues, cells, bacteria, bacillus strains, and at the same time, it can be used for emulsifying, separating, dispersing, homogenizing, extracting, degassing, cleaning, and speeding up the chemical reaction, and so on. It is widely used in biochemistry, microbiology, pharmaceutical chemistry, surface chemistry, physical chemistry, zoology and other fields. This machine consists of ultrasonic generator (power supply), transducer assembly and sound-proof box, which is connected by cable.

Superior Performance

The new all-in-one ultrasonic cell crusher with reliable ultrasonic technology is superior in cell crushing, material dispersion protein extraction DNA fragmentation sample emulsification and so on. It can handle a minimum of $0.1\mu L$ and a maximum of 3000ML to meet different experimental needs.

New technology with higher performance: a new generation of ultrasonic generator using integrated digital circuit, it excitation mode of operation, with automatic frequency tracking and automatic power compensation; by the user's feedback ultrasonic operation is stable, the ultrasonic power output is uniform and consistent, the experimental repeatability is good. Experiments have proved that we compared with traditional ultrasound, continuous ultrasound, no-load ultrasound, gap ultrasound, as well as ultrasound probe service life has a certain degree of superiority.

The ultrasonic probe is made of high purity titanium alloy with TC4 material of American standard, probe shape: conical, whip joint shape, wave generation form: vertical ultrasound.

Manufactured in China

- Appearance design: shell ABS injection molding, streamlined appearance, ergonomic operating platform, the host and soundproof box is integrated, the whole machine is beautiful and generous
- Using digital integrated circuits, the instrument can be no-load ultrasound, continuous ultrasound
- Ultrasonic probe is small and exquisite, transducer using Germany IBDI product piece, high ultrasonic efficiency, not easy to generate heat

- •7-inch TFT medical-grade touch screen, each parameter intuitive display
- •Soundproof box intelligent design: different from traditional built-in sandwich soundproof cotton, the box internal PVC soft material, the whole mold manufacturing, experiments no longer need to worry about the solution spilled to the soundproof cotton breeding bacteria, while taking into account a better sound insulation effect
- •Configuration of automatic lifting platform, UV sterilization ozone disinfection, lighting and other functions

Intelligent All-in-One Ultrasonic Cell Breaker



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Product Parameters

Model	XM-650DT	XM-900DT	XM-1000DT	XM-1200DT	XM-1500DT						
Output power	65-650W(10-100% adjustable) Note: can be set to step 1%	90-900W(10-100% adjustable) Note: can be set to step 1%	100-1000W(10-100% adjustable) Note: can be set to step 1%	120-1200W(10-100% adjustable) Note: Can be set to step 1%	150-1500W(10-100 % adjustable) Note: can be set to step 1%						
Working Frequency	20-35KHz frequency automatic tracking										
Processing volume	0.1-500ml (need to choose the corresponding probe)	0.1-800ml (with optional probe) 0.1-900ml (with optional probe)		1-1500ml (with optional probe)	1-2500ml (with optional probe)						
Timing		0-9999M99.9S can be set									
Ultrasonic pulse time adjustment		0.1-99.9s adjustable (ultrasonic on/ultrasonic off)									
Temperature control		Sample temperature control (0°C-100°C, optional thermostat)									
Alarm		Fault, Temperature, Time									
Input mode + display mode	7	inch TFT touch control -	+ intuitive true color med	lical grade resistive scree	n						
Display content		Frequency,	temperature, power and t	ime display							
Protection device	Prog	gram automatic error corr	rection, overload, over-te	mperature protection disp	play						
Password		Wi	th user password protecti	ion							
The instrument can be equipped with optional amplitude change lever	2, 3, 6, 8, 10, 13	2, 3, 6, 8	10, 13, 15	3, 6, 10, 1:	3、 15、 20、 22						
Borosilicate thermostatic cups are optional	50ml、100ml、 250ml、500 ml 50ml、100ml、250ml、500 ml、1000 ml										
Power supply AC	220V±5%/50Hz(110V 60Hz can be customized)										

Probe Parameters

Amplitude Transforme r mm	2	3	6	8	10	13	15	20	22
Treatment Capacity ml	0.1-5	2-10	10-100	20-150	30-300	50-500	50-800	50-1200	50-1500
power ratio 1-100%	10-45%	10-65%	10-100%	10-100%	10-100%	10-100%	10-100%	10-100%	10-100%

UVF Liquid Crystal Ultra Silent Series Ultrasonic Cleaner



Precision Precision Precision

Laboratory Equipment Manufacturing Specialist



Product Introduction

Silent design, completely to solve the user encountered in the use of the pain points and design of an ultra-quiet ultrasound equipment, 40kHz frequency is a high degree of versatility.

Model suppl	Power	Overall Dimension	Cleaning tank size	Capacity	Ultrasonic input power	Ultrasonic frequency	Heating power	Time range	Temperatur e range
	supply rated voltage	Length* Width*Height mm	Length*Width *Height mm	L	W	KHz	W	Min	°C
XM- 2200UVF	220V	264×162×242	240x145x100	3.5	100W	40	200	1-999/ Normally Open	RT-80
XM- 3200UVF	220V	325x175x292	300x150x150	6	150W	40	200	1-999/ Normally Open	RT-80
XM- 5200UVF	220V	328x266x292	300x240x150	10	200W	40	300	1-999/ Normally Open	RT-80
XM- 250UVF	220V	328x266x292	300x240x150	10	250W	40	300	1-999/ Normally Open	RT-80
XM- 300UVF	220V	328x266x292	300x240x150	10	300W	40	300	1-999/ Normally Open	RT-80
XM- 400UVF	220V	355x326x292	330x300x150	15	400W	40	400	1-999/ Normally Open	RT-80
XM- 500UVF	220V	530x328x292	500x300x150	22.5	500W	40	500	1-999/ Normally Open	RT-80
XM- 600UVF	220V	530x328x292	500x300x150	22.5	600W	40	500	1-999/ Normally Open	RT-80
XM- 700UVF	220V	530x328x292	500x300x150	22.5	700W	40	500	1-999/ Normally Open	RT-80
XM- 800UVF	220V	530x328x342	500x300x200	30	800W	40	500	1-999/ Normally Open	RT-80

Liquid Nitrogen Frozen Grinder JXFSTPRP-II Series



Precision Precision

Laboratory Equipment Manufacturing Specialist

Product Introduction

Microorganisms, rubber, plastics, food, pharmaceuticals, coal, oil shale, wax products, PE, PS, textiles, resins, etc. and substances that are tough and difficult to pulverize at room temperature. Liquid Nitrogen Frozen Grinder is to freeze the above substances below the embrittlement point first, and then grind them to the required fineness in the grinder, and the original components will not be destroyed. In addition, substances that are flammable and explosive at room temperature can also be crushed at low temperature, which has a more significant effect.

Product Benefits

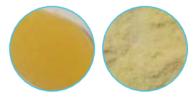
- Automatic liquid nitrogen delivery system for high safety
- Automatic pre-cooling of sample and grinding tank, low liquid nitrogen consumption.
- Convenient, efficient and fast sample handling
- Samples are always at ultra-low temperature during the grinding process.
- The grinding process is fully enclosed, eliminating sample loss and contamination.



RNA/DNA detection in biochemistry, analysis of polymer structures, determination of trace elements, food analysis, mineral research, testing of the properties of drugs used as aids in medical and surgical procedures, and identification of textile constituents.



Comparison Chart











Cowgirls

Plastic

Teeth

Product Name	Automatic Liquid Nitrogen Freezing and Grinding Machine	Semi-Automatic Liquid Nitrogen Freezing and Grinding Machine
Model	JXFSTPRP-II-01	JXFSTPRP-II-02
Sample Characteristics	Hard, medium hard, soft, brittle, elastic, containing fiber	Hard, medium hard, soft, brittle, elastic, containing fiber
Feeding Size	≤8mm	≤8 mm
Discharge Size	0-5μm	0-5μm
Grinding Jar	1.5mL/2mL/5mL/10mL/25mL/50mL, customized	1.5mL/2mL/5mL/10mL/25mL/50mL, customized
Grinding tank material	Stainless steel, PTFE, Teflon, carbide steel, etc	Stainless steel, PTFE, Teflon, carbide steel, etc
Liquid Nitrogen Operation Method	Full-automatic	Semi-automatic

JXFSTPRP-CLN Cryo Mill



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Laboratory Equipment Manufacturing Specialist

Product Introduction

An efficient, fast, cooling grinding system. It can grind, pulverize, mix and cell break samples such as soil, plant and animal tissues/organs, bacteria, yeast, fungi, spores, paleontological specimens, etc. in a very short time.

Product Benefits

- Highly reproducible grinding results
- Touch screen operation, 20 parameters can be stored
- Effective inhibition of nucleic acid degradation and retention of protein activity.
- Grinding is completely closed, no cross contamination, low noise.
- Easily handle hard-to-grind samples such as high-toughness plastics, high-strength plastics, resins, etc.
- Equipped with safety cover and safety lock, no need to involve liquid nitrogen operation, high safety.



Application Areas

RNA/DNA detection in biochemistry, analysis of polymer structure, determination of trace elements, food analysis, mineral research, detection of the properties of medicinal and surgical aids, and identification of textile components.

Comparison Chart











Bones



Pills

Technical Parameter

Plastic

Compatible Sample Volume Maximum capacity 50mL steel tank, other specifications adapter according to the host model selection corresponding to a variety of adapters		Final Discharge Size	~5µm	
Maximum feed size	No requirement, adjustable according to the adapter	Fastening device	Fastening device with automatic center positioning	
Cooling Function Yes, adjustable from -50°C to room temperature		Grinding method	Wet grinding, dry grinding, low temperature grinding	
Lid Opening Method	Intelligent startup	Adapter material	PTFE or alloy steel	
Adapter type	0.2mL, 0.5mL, 2mL, 5mL, 10mL, 15mL, 25mL, 50mL, etc	Grinding kit material	Hardened steel, PTFE, Teflon, zirconium oxide	

JX-ZLN Series Vacuum Centrifugal Concentrator



Precision Precision

Laboratory Equipment Manufacturing Specialist

Product Introduction

Vacuum centrifugal concentration is a process in which a solvent is evaporated to concentrate or dry a biological (non-biological) sample. A combination of centrifugal force, vacuum and heat is used to rapidly evaporate the solvent from the sample to achieve centrifugal concentration of the sample.

Application Areas

DNA/RNA research, biochemistry, bioanalysis, immunoscreening, food safety, residue analysis, environmental testing, life sciences, molecular biology, academic research, forensic science, drug analysis, HPLC high-performance liquid chromatography, synthesis and isolation of organic substrates, toxicology identification, forensic identification, SPE solid-phase extraction, and general-purpose laboratory concentration.

Working Principle

As the pressure decreases, the boiling point of the solvent decreases. When the pressure drops to a certain level, the solvent begins to boil. In order to avoid evaporation and cross-contamination of the sample, high-speed centrifugal spinning technology is used to ensure that the sample is in the sample tube will not be sprayed out. The centrifugal chamber has a temperature control module for controlling the temperature inside the centrifugal chamber. Choosing the right temperature can increase the concentration efficiency while keeping the sample safe.

The vacuum pump maintains a high vacuum inside the system, lowering the boiling point of the solvent and accelerating the concentration rate. Solvent vapors are pumped out of the centrifugal chamber by the vacuum pump, and the pumping speed of the vacuum pump will limit the concentration speed, which requires a cold trap that can effectively condense solvent vapors. The cold trap can quickly condense solvent vapors before they reach the vacuum pump, keep the vacuum degree of the whole system, thus accelerating the concentration speed, and protect the vacuum pump from solvent vapors corrosion.

Product Features

- •Magnetic levitation motor: motor with almost no noise, smooth starting, maintenance-free design
- •Humanized design: one-healthy operation, safe and convenient, the operation panel (touch screen/keys) can set the centrifugal speed, running time, heating temperature, and can real-time display of the vacuum value and other parameters
- •Less loss: ultra-low temperature concentration, safer samples, no cross-contamination, less sample loss (vacuum holes are designed in the middle of the centrifugal chamber, the pumping airflow will not cause liquid to fly out, avoiding contamination and sample loss).
- •High throughput: large capacity, can handle dozens to hundreds of samples at the same time, can provide high volume of small volume sample concentration
- •Centrifugal imaging function: enables observation of sample concentration without stopping the machine.
- •Practical rotors: a wide range of practical rotor capacities are available for a wide range of scientific applications
- •High efficiency and adjustable temperature: High concentration efficiency and high retention of sample activity. The temperature can be set to ensure safe and effective concentration of a wide range of samples.
- •High safety: New electromagnetic drive system and corrosion-resistant materials ensure safe operation.





JX-ZLN Series Vacuum Centrifugal Concentrator



Precision Precision Precision

Laboratory Equipment Manufacturing Specialist

	JX-ZLN-A	JX-ZLN-AL	JX-ZLN-B	JX-ZLN-C	JX-ZLN-D	JX-ZLN-E	JX-ZLN-EL	JX-ZLN-F				
Name	Basic model (keypad)	Basic model (touch screen)	Freezing model	Regular model	Ultra-low temperature	Acid & Alkali Resistant		Integrated one -piece model				
Features	Fully automatic vacuum control system		Low- temperature concentratio n for safer samples	External vacuum pump (optional built-in vacuum pump)	Cold trap temperature can reach - 110°C	Anti-corrosion treatment of the whole machine, acid and alkali resistant, organic solvent resistant design		Maximize space saving: integrated design of built -in vacuum pump and cold trap				
Temperat ure control range	Room temperature~100°C		-10°C~100° C	Room temperature ~100°C	Room temperature ~100°C	Room temperature ~100°C	-10°C~100 °C	Room temperature~ 100°C				
Maximu m centrifug al force		550xg										
Sample bottle/ rotor	60*4ml /32*8ml bottle/132*1.5ml /132*2ml/72*5ml/12*10ml /12*15ml/6*50ml/8*50ml /90*2ml*228*(10ml-15ml)/8 *100ml/4*250ml etc. Rotor can be selected (customized)											
Cold trap		Ultra-low temperature (-110°C), other conventional cold traps -50°C/-65°C/-70°C optional										
Ultimate vacuum value				≤0	3mbar							
Timing range				0-99	h59min							
Centrifug al imaging function		Yes										
Maximu m speed		100-2000r/min										
Power supply	_	AC220V 50/60Hz 10A										
Noise value		65dB										
Vacuum pump		Optional (variable frequency diaphragm / two-stage rotary vane)										
Program group	9 groups Earnest can set up a total of 48 groups of programs, can be selected to run 8 groups of programs at the same time for gradient settings											

JX-CKSM-WK Series Single Cell Suspension Preparation System



Precision Precision

Laboratory Equipment Manufacturing Specialist

Product Introduction

Temperature-controlled automatic single-cell suspension instrument is a new generation of cell suspension preparation equipment integrating metal bath digestion and gentle shear tissue, applied to flow cytometry/single-cell sequencing/primary cell culture and other experiments, featuring small amount of starting tissue, short time, high cell yield and high cell activity. Adopting international DIN method design, low noise, easy to use, stable performance, the digestion process of the sample is always in a constant temperature.

Working Principle

Samples are mixed with high-density zirconia shear beads and digestive enzymes, digested at a constant temperature, and the tissues are sheared to obtain a highly concentrated suspension of viable cells. Subsequent steps such as digestion termination, filtration and washing, and erythrocyte lysis if necessary, result in millions to millions of viable cells, with cell yields of over 90% for different tissues.

Sample Range

- •Human and mouse tumor tissue
- Human and mouse normal tissues
- •Mammalian soft tissues
- •Plant Healing and Root Tip Tissues

Application Areas

- Oncology Research
- ·Cardiovascular Research
- Stem Cell Research
- Immunology research
- Neuroscience research

Product Application

- Single-Cell RNASeq
- Multicolor Flow Cytometry
- Mass Cytometry
- Primary Cell Isolation And Culture
- Cell Therapy CAR-T

Product Features

- Simple operation, fully automated preparation process, only 30min to obtain a large number of single-cell suspensions
- Automatic temperature control to protect the viability of the sample, the cell activity can reach more than 85%.
- Multiple digestion programs, different programs for different samples, and exclusive kits for different tissues.
- •For clinical puncture samples, the utilization rate of the tissue can reach 100%, and the cell yield can reach more than 100,000 cells.
- For primary cell culture samples, complete the process of tissue to single cell within 15min, reduce the time of cell adversity and improve cell survival rate.
- •For tissue single-cell sequencing, fast completion of single-cell processing, to obtain high yield and viability of more than 85% of single cells, taking mouse tissue as an example.





JX-CKSM-WK Series Single Cell Suspension Preparation System



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Technical Parameter

Product Model	JX-CKSM-4WK (Temperature controlled)	JX-CKSM-6WK (Temperature Control)	JX-CKSM-8WK (Temperature control)	JX-CKSM- 12WK (Temperature control)	JX-CKSM- 48WK (Temperature controlled)
Temperature range		22°C-56°C(Adjustable)			
Sample volume	4*2ml/2*5ml	6*2ml/3*5ml	8*2ml/5*5ml	12*2ml/6*5ml	48*2ml/24*5ml
Stable reproducibility	Same approximation with the same preparation program				
Programs	6 preset programs (upgradeable)				
Noise level	<50dB				
Sample volume rotation speed	5mg-1000mg				
Rotation speed	0-4000 rpm				
Working time	20-300min				
No wearing parts design, electromagnetic locking protection					
Full aluminum alloy CNC inner cavity, durable					

JXNANO Series High Pressure Homogenizer



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Basic Introduction

Homogenization is to make the suspension (or emulsion) system in the dispersion of particles, homogenization of the treatment process, this treatment at the same time play a role in reducing the scale of the dispersion and improve the uniformity of distribution of the dispersion.

Application Areas

- Preparation of fat granules, drug-carrying emulsions, liposomes, nanosuspensions and microcapsules for the pharmaceutical industry.
- •Cell fragmentation, extraction and homogenization of intracellular substances for bioengineering products.
- Production and preparation of carbon nanotubes, graphene, conductive and resistive pastes for fine chemicals.
- Homogenization and dispersion of lipid nanoparticles in personal care products.
- Homogenization and emulsification of food and industrial products to improve product stability.



Working Principle

When the high pressure pump head assembly works, the material will be sucked into the pump cavity through the check valve, and the fluid material will be rowed into very high pressure between the pump cavity and the homogenizing valve seat under the force of the plunger.

High-pressure material through the homogenizing valve assembly, resulting in the following three homogenizing effects:

- ① Shear effect, the gap between the homogenizing valve seat and spool is very small, and it produces shear effect on the material particles.
- ② cavitation effect, high-speed extrusion of the material instantaneous loss of pressure, and ultimately achieve the purpose of homogenizing the material.
- 3 Collision effect, high-speed extrusion of materials with very high speed impact to the collision ring

Collision, high-speed extruded materials with very high speed impact on the collision ring, resulting in impact crushing

Product Features

- •Structural features: single ceramic plunger drive, precise control of discharge flow. Optional plunger lubrication device, longer sealing life.
- Homogenizing pressure: Maximum design pressure 2000bar/200MPa/29000psi, use sanitary digital diaphragm pressure gauge.
- •Homogenizing flow rate: minimum sample size 15ml, especially suitable for expensive pharmaceutical production. Automatic suction without feeding equipment.
- •Component technology: homogenizing valve seat assembly can be made of zirconia, tungsten steel, diamond, stellite, etc., single/double-sided processing, double-sided use, double the service life. The secondary valve disperses the emulsification to make the material distribution more uniform and consistent.
- •Energy-saving technology: equipment frequency control, access to 220V utility can be used, imported brand components equipment more stable, lower energy consumption, higher energy efficiency ratio.

JXNANO Series High Pressure Homogenizer



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Technical Paramete

Model	JXNANO-5	JXNANO-15	JXNANO-30	GSL-5	GSL-15	GSL-30
Design Flow Rate (L/H)	5~8	12-15	25-30	5~8	12-15	25-30
Design Maximum Pressure(MPa/bar/ psi)	200/2000/29000	200/2000/29000	150/1500/21750	200/2000/29000	200/2000/29000	170/1700/24650
Operating Pressure (MPa/bar/psi)	180/1800/26100	180/1800/26100	120/1200/17400	180/1800/26100	180/1800/26100	150/1500/21750
Operation Mode	Pushbutton			Touch screen/Keypad		
Voltage(V)	220	220	220	220	220	220
Plunger quantity (pcs)	1	1	1	1	1	2
Rated power(KW)	1.5	2.2	2.2	1.5	2.2	3
Main Functions	Homogenization, wall-breaking, refinement (optional chiller temperature control)					
Minimum processing capacity(mL)	15	25	45	15	15	45
Product process viscosity	2000ср					
Maximum feed particle size	≤100µm					
Working Pressure Display	Pressure gauge			Pressure sensor	· (7-inch touch screen	/digital display)
Control mode	Manual operation					
Maximum product feed temperature	90°C					
Weight (KG)	110	120	150	140	140	/

Centrifuge

TG16.5 Benchtop High Speed Centrifuge



Precision Precision

Laboratory Equipment Manufacturing Specialist

Main Technical Parameter

Model	TG16.5
Maximum speed	16500r/min
Maximum relative centrifugal force	23669xg
Maximum capacity	4x100ml
Speed accuracy	±30r/min
Time setting range	1s-99min59s
Noise of the whole machine	<65dB(A)
Power supply	AC220V 50Hz 10A
Power	750W
Dimension(LxWXH)	330mmx420mmx280mm
Packing Size(LxWXH)	430mmx520mmx390mm
Net weight	20Kg
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Product Introduction

Widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugal separation in all levels of hospitals, scientific research units and colleges and universities.

Main Technical Performance

- -Microcomputer control, DC brushless motor drive, stable operation, low noise, high accuracy of speed.
- -Touch panel, programmable operation, host operating parameters can be set according to demand and automatically stored.
- -LCD screen display, humanized interface, easy and convenient operation.
- -Real-time rpm/RCF reading conversion and setting, convenient and quick.
- -Equipped with electronic door lock, with door cover protection, overspeed and other protection functions; fault automatic alarm function, safe and reliable.
- -Adopts food-grade silicone rubber monolithic sealing ring, in line with GMP certification. Centrifuge obtains FDA certification.
- -With 9 programs of speed up curve/10 programs of speed down curve, speed up/down time can be set as needed.

Rotor Parameters



Rotor capacity: 12x1.5m/2.2ml Maximum speed: 16500r/min Maximum relative centrifugal

force: 18930xg

Adapter: 0.2ml, 0.5ml



Rotor capacity: 10x5ml Maximum speed: 13000r/min Maximum relative centrifugal

force: 11400xg

Adapter: 0.5ml, 1.5ml



Rotor capacity: 12x5ml Maximum speed: 13000r/min Maximum relative centrifugal

force: 11400xg

Adapter: 0.5ml, 1.5ml



Rotor capacity: 12x10ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 14800xg Adapter: 1.5ml, 5ml

TG16.5 Benchtop High Speed Centrifuge



Rotor Parameters



Rotor capacity: 8x15ml pointed bottom Maximum speed: 12000r/min

Maximum relative centrifugal

force: 14800xg Adapter: 1.5ml, 5ml



Rotor capacity: 6x50ml Maximum speed: 11000r/min Maximum relative centrifugal

force: 13000xg Adapter: 15ml, 20ml



Rotor capacity: 4x100ml Maximum speed: 10000r/min Maximum relative centrifugal

force: 11570xg Adapter: 10ml, 20ml



Rotor capacity: 2x48-well

enzyme marker

Maximum speed: 3000r/min Maximum relative centrifugal

force: 1400xg



Rotor capacity: 24x1.5m/2.2ml Maximum speed: 13200r/min Maximum relative centrifugal

force: 16110xg Adapter: 0.2ml, 0.5ml



Rotor capacity: 36x0.5ml Maximum speed: 16000r/min Maximum relative centrifugal

force: 23669xg



Rotor capacity: 48x0.5ml Maximum speed: 16000r/min

Maximum relative centrifugal force: 23669xg



Maximum speed: 15000r/min

force: 13800xg



Rotor capacity: 48×1.5ml/2.2ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 15696xg

Adapter: 0.2ml, 0.5ml



Rotor capacity: 4x10ml Maximum speed: 6000r/min Maximum relative centrifugal

force: 3200xg



Maximum relative centrifugal

TGL-20.5M Benchtop Large-capacity Highspeed Refrigerated Centrifuge



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Parameter

Model	TGL-20.5M
Maximum speed	20500r/min
Maximum relative centrifugal force	29200xg
Maximum capacity	4×750ml
Speed Accuracy	±10r/min
Time setting range	1min-99hh59min
Temperature setting range	-20°C~+40°C
Temperature control accuracy	±1°C
Compressor	Imported high-performance compressor, environmental protection refrigerant R404a
Noise of the whole machine	<65dB(A)
Power supply	AC220V50Hz20A
Power of the whole machine	1.5kW
Dimension(LxWXH)	734mm×620mm×445mm
Packing Size(LxWXH)	910mm×720mm×620mm
Net weight	100kg



Product Introduction

Widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugal separation in hospitals, scientific research units and colleges and universities at all levels.

Main Technical Performance

- -Microcomputer control, high-definition large screen LCD display, intuitive controls to simplify the operation.
- -Touch panel, programmable operation, host operating parameters can be set according to demand and automatically stored.
- -Adopts food-grade silicone rubber monolithic sealing ring, in line with GMP certification. Centrifuge obtains FDA certification.
- -With 9 programs of speed up curve/10 programs of speed down curve, to realize the readings between rpm/RCF conversion and setting, convenient and quick.
- -With a number of protection functions such as overspeed, imbalance, over temperature, door cover, etc. to ensure the safety and reliability of the instrument.
- -Large-capacity centrifugal chamber, space-saving design, rich rotor specifications, realizing multi-purpose.
- -Adopts imported high-performance compressor, non-fluorine refrigerant R404A, after opening the door cover and the machine standby can be delayed off the compressor refrigeration, after closing the door cover can be delayed open the compressor refrigeration, energy-saving and environmentally friendly.

TGL-20.5M Benchtop Large-capacity Highspeed Refrigerated Centrifuge



Rotor Parameters



Rotor capacity: 12x1.5ml/2.2ml Maximum speed: 20500r/min Maximum relative centrifugal

force: 29200xg Adapter: 02ml, 05ml



Rotor capacity: 12x5ml Maximum speed: 16500r/min Maximum relative centrifugal

force: 19175xg Adapter: 0.5ml, 1.5ml



Rotor capacity: 6x30ml Maximum speed: 15000r/min Maximum relative centrifugal

force: 23120xg



Rotor capacity: 12x10mV8x15ml

pointed bottom

Maximum speed: 15000r/min Maximum relative centrifugal

force: 23120xg Adapter: 1.5ml, 5ml



Rotor capacity: 6x50ml Maximum speed: 13500r/min Maximum relative centrifugal

force: 19166xg



Rotor capacity: 24x1.5ml/2.2ml Maximum speed: 16500r/min Maximum relative centrifugal

force: 26050xg

Adapter: 0.2ml, 0.5ml



Rotor capacity: 6x85ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 15805xg

Adapter: 50ml, 15ml, 20ml



Rotor capacity: 6x100ml Maximum speed: 10000r/min Maximum relative centrifugal

force: 11960xg

Adapter: 10ml, 20ml can be customized upon request



Rotor capacity: 48x1.5ml/2.2ml Maximum speed: 15500r/min Maximum relative centrifugal

force: 26307xg

Adapter: 0.2ml, 0.5ml



TGL-20.5M Benchtop Large-capacity Highspeed Refrigerated Centrifuge





Rotor capacity: 4x750ml Maximum speed: 4000r/min Maximum relative centrifugal

force: 3780xg



750ml Hanging Cup





4x21x1.5ml



4x24x5ml/7ml vacuum tube



4x37x5ml/7ml



4x20x10m1 small cap tube



4x3x100ml



 $4 \times 15 \times 15 m$



 $4x7 \times 50ml$



750ml centrifuge bottle



 $4x14\times15ml$

4×250ml



4x12x20m



 $4 \times 5 \times 50 m$





4x2x96 wells Enzyme plate hanging basket For thickness ≤15.2mx2



4 x 24 x 7ml vacuum tubes



4x37x7ml immunization tubes



Rotor capacity: 4x500ml Maximum speed: 4000r/min

Maximum relative centrifugal force: 3040xg



Square Hanging Basket



4x25x1.5ml



4x28x5ml vacuum tube



4x20x10ml small cap tube



4x10x15ml



4x4x50ml



4x250ml



500ml hanging cup



4x19x5ml/7ml vacuum tubes



4x9x15ml



4x7x20m1



4x14x10ml



500ml centrifuge bottle



4x3x50m1



4x100ml



4x250ml

TG10K/TD6K/TD4K Mini Centrifuge



Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Parameter

Model	TG10K	TD6K	TD4K	
Input Power	AC 100-250V/50/60Hz			
Input Power	25W 18W		12W	
Motor	DC24V/DC permanent magnet motor			
Control mode	PI power direct drive			
Power fuse	PPTC/resettable fuse/no need to replace			
Rotor capacity	Angle rotor: 2ml/1.5ml/0.5mV0.2ml×8 wells PCR row rotor: 0.2ml×8 wells×4 rows Compound rotor: 1.5ml×6 wells+0.5ml×6 wells+0.2ml×8 wells×2 rows			
Maximum speed	10000r/min	7000r/min	4000r/min	
Maximum relative centrifugal force	5610xg	2910xg	990xg	
Dimensions: L×W×H	155mm×168mm×118mm			
Weight		1.1kg		
Noise at maximum speed (=)	≤48dB(A)	≤43dB(A)	≤40dB(A)	
Maximum acceleration time	≤3s			
Maximum deceleration time	≤3s			
Protection class	IP20			
Permissible ambient temperature/relative humidity	+5-40 Celsius/80%			
Interference suppression standard	EN61010-1,EN 61010-2-020,EN 61326-1,EN 61010-3-2		EN 61010-3-2/A2	



Main Technical Performance

- -Adopts advanced and reliable PI high-frequency full-range wide-range power control program, which conforms to AC100-250V/50/60Hz input power supply, and can control the voltage, current, rotational speed and relative centrifugal force more accurately to ensure that its constant speed will not change with the change of voltage or load.
- -Unique rotor head snap-in installation design, without any tools that can be convenient to replace the rotor head, so that the experimental staff to replace the rotor head more convenient and fast.
- -High-strength host and rotary head material, can resist various chemical corrosion, rotary head with high temperature sterilization function.
- -Adopts high-efficiency DC permanent magnet motor, RSS material shock absorption, running more smoothly, the rotating space is 360 ° arc, no angle, small wind resistance, small temperature rise, ultra-quiet.
- -Faster acceleration/deceleration rate, in a shorter period of time to complete the experiments required, acceleration within 3 seconds to reach 95% of the rated speed; deceleration of more humanized sub-two, press the door button that is free to stop (≤ 15 seconds), open the cover all open that is, the brakes decelerate (≤ 3 seconds); -Adopt food-grade silicone rubber whole body to reduce the speed of the rotating space.
- -Adopt food-grade silicone rubber integral sealing ring, in line with GMP certification. The centrifuge obtains FDA certification.

Rotor Parameters



1.5ml/2ml×8 wells
PP round/cone bottom
with cap



0.2ml×8 wells×4 rows PP cone bottom with cap



1.5ml×6 wells+0.5ml×6 wells +0.2ml×8 wells×2 rows PP cone bottom with cap



Adapter 0.5ml×8



Adapter 0.2ml×8

H18.5B Benchtop High Speed Centrifuge



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Parameter

H18.5B
18500r/min
23797×g
4×100ml
±10r/min
1s-99min59s/1min-99h59min
<65dB(A)
AC 220V 50Hz 10A
700W
340mm×460mm×330mm
440mm×560mm×380mm
32kg



Product Introduction

Widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is the necessary equipment used for centrifuge separation in hospitals at all levels, scientific research units and institutions of higher learning.

Main Technical Performance

- -5 inch HD true color touch screen control, easy to operate, intuitive display, setup parameters and real-time operating parameters can be displayed on the same screen.
- -Large capacity data storage in the fault record and other information, can store more than 5000 history records, convenient for users to track the operation of historical data information, can be exported via USB data.
- -Users can customize the naming and editing of 99 ladder centrifugation programs, each ladder centrifugation program has a total of 10 segments of centrifugation process, to meet the needs of diversified experiments.
- -With program mode, curve mode and preset program calling function, three-level password control function ensures the safety and reliability of the applicable instruments and facilitates fine management. The system can record the speed, temperature and speed curve of the last run.
- -With 9 programs of speed up curve and 10 programs of speed down curve, the time of speed up and down can be set according to the need, so that the centrifugal effect can reach the best.
- -Part of the rotor can realize fast rise and fall.
- -With rotor identification function, 16 different rotors are automatically identified to prevent users from setting wrong rotor number parameters.
- -Equipped with adsorption type door lock, easy to close the door cover and lock the centrifugation safely.
- -Equipped with various protection functions such as door cover protection and overspeed protection to ensure the safe operation of the instrument.

H18.5B Benchtop High Speed Centrifuge



Rotor Parameters



Rotor capacity: 12×1.5ml/2.2ml Maximum speed: 18500r/min Maximum relative centrifugal

force: 23797xg Adapter: 0.2ml, 0.5ml



Rotor capacity: 12×5ml Maximum speed: 13000r/min Maximum relative centrifugal

force: 11400xg Adapter: 0.5ml, 1.5ml



Rotor capacity: 10×5ml Maximum speed: 13000r/min Maximum relative centrifugal

force: 11400xg Adapter: 0.5ml, 1.5ml



Rotor capacity: 12×10ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 14800xg Adapter: 1.5ml, 5ml



Rotor capacity: 8×15ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 14800xg Adapter: 1.5ml, 5ml



Rotor capacity: 6×50ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 13000xg Adapter: 15ml, 20ml



Rotor capacity: 4×100ml Maximum speed: 12000r/min Maximum relative centrifugal force:

13000xg

Adapter: 10ml, 20ml can be customized according to requirements



Rotor capacity: 6×50ml pointed

bottom

Maximum speed: 11000r/min Maximum relative centrifugal

force: 13000xg Adapter: 15ml, 20ml



Rotor capacity: 36×1.5m/2.2ml Maximum speed: 13000r/min Maximum relative centrifugal

force: 16211xg Adapter: 0.2ml, 0.5ml



Rotor capacity: 24×1.5ml/2.2ml Maximum speed: 15000r/min Maximum relative centrifugal

force: 21083xg Adapter: 0.2ml, 0.5ml



Rotor capacity: 36×0.5ml Maximum speed: 16000r/min Maximum relative centrifugal

force: 23669xg



Rotor capacity: 48×0.5ml Maximum speed: 16000r/min Maximum relative centrifugal

force: 23669xg



Rotor capacity: 48×1.5ml/2.2ml Maximum speed: 13000r/min

force: 18525xg Adapter: 0.2ml, 0.5ml

Maximum relative centrifugal



Rotor capacity: 6PCR tubes $\times 8 \times 0.2$ ml

Maximum speed: 13000r/min Maximum relative centrifugal

force: 16020xg



Rotor capacity: 2 × 48-well

enzyme marker

Maximum speed: 3000r/min Maximum relative centrifugal

force: 1400xg



Rotor capacity: 12×15ml Maximum speed: 12000r/min Maximum relative centrifugal

force: 13527xg

TD5Z Multi-tube Rack Automatic Balancing Centrifuge



Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Parameter

Model	TD5Z
Maximum speed	5000r/min
Maximum relative centrifugal force	5030xg
Maximum capacity	4x500ml
Speed Accuracy	±10r/min
Time setting range	1min~99min59s
Noise of the whole machine	<65dB(A)
Power supply	AC220V 50Hz 10A
Power of the whole machine	750W
Dimension(LxWxH)	465mmx560mmx380mm
Packing Size(LxWXH)	560mmx650mmx470mm
Net weight	51kg



Product Introduction

It is widely used in clinical medicine, biochemistry, genetic engineering, immunology and other fields. It is a necessary instrument for centrifugal separation in hospitals at all levels, scientific research units and institutions of higher learning.

Main Technical Performance

- -Microcomputer control, large torque AC frequency conversion motor drive, stable operation, low noise, high speed accuracy.
- -Touch panel, programmable and storing user's commonly used programs, convenient for users to call at any time.
- -Large LCD screen, humanized interface, easy and convenient operation.
- -Real-time RPM/RCF reading conversion and setting, convenient and quick.
- -Unique air inlet and exhaust system to ensure the temperature rise of the specimen and low noise of the whole machine.
- -Equipped with electronic feedback door lock to realize automatic door opening, safe and reliable.
- -With multiple protection and self-diagnosis functions such as unbalance, overspeed, door lock, over-current and over-voltage.
- -Adopts international advanced foam sealing ring for better sealing and sound insulation.
- -The centrifuge obtains U.S. FDA certification.
- -Optional three-axis gyro imbalance detector, with high sensitivity of imbalance detection, high reliability of detection, can be adjusted according to the different centrifuge damper detection control valve, fast response speed, can be adjusted on-line valve, easy to adjust, long service life, good performance of shock and vibration resistance and other advantages.

TD5Z Multi-tube Rack Automatic **Balancing Centrifuge**



Rotor Parameters











4x25x1.5ml

4x28x5ml vacuum tube

4x4x50m1





4x20x10m small cap tubes

4x10x15ml

4x250ml















4x19x5ml/7mlvacuum tubes

4x9x15ml

4x7x20m1

4x14x10ml

500ml centrifuge bottle

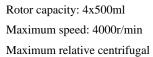












force: 3040xg



 $4{\times}14{\times}5ml7ml$ vacuum tube/airtight hanging cups



 $4\times19\times5m/7ml$ Vacuum tube/gastight hanging cup



 $4 \times 24 \times 7 ml$ Vacuum tube



Enzyme plate hanging basket 4X2X96 wells Suitable for thickness ≤15.5mmx2



Rotor capacity: 4x250ml Maximum speed: 4000r/min Maximum relative centrifugal

force: 3200xg



250ml Hanging Cup



4x9x1.5ml



4x7x5ml



4x9x5/7ml vacuum tube



4x7x10mlsmall cap tube



250ml centrifuge bottle



4x5x15ml



4x4x20ml



4x50ml



4x100ml

TD5Z Multi-tube Rack Automatic Balancing Centrifuge



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Rotor capacity: 4x500ml(tip) Maximum speed: 4000r/min Maximum relative centrifugal

force: 3310xg



500ml test cup 4x500ml tip bottom



4x500ml tip



4x250ml tip



4x4x50ml tip



4x7x15ml tip



Rotor capacity: 4x250ml(tip) Maximum speed: 4000r/min Maximum relative centrifugal

force: 3310xg



250ml test cup 4x250ml tip bottom



4x50ml tip



4x4x15ml tip



Rotor capacity: 8x50ml Maximum speed: 5000r/min Maximum relative centrifugal force: 5030xg Adapter: 8x2x1.5ml Adapter: 8x5ml/7ml Vacuum Tube

Adapter: 8x5ml Adapter: 8x10ml Adapter: 8x15ml Adapter: 8x20ml



4x2x50ml tube rack



Maximum speed: 4000r/min Maximum relative centrifugal force: 3200xg



Adapter: 4x4x15ml tube racks Adapter: 1.5ml Adapter: 5ml Adapter: 5ml/7ml Vacuum Tube



4x6x15ml tube rack Adapter: 1.5ml Adapter: 5ml Adapter: 5ml/7ml Vacuum Tubes



4x8x15ml tube rack Adapter: 1.5ml Adapter: 5ml Adapter: 5ml/7ml Vacuum Tubes

TD5Z Multi-tube Rack Automatic Balancing Centrifuge



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Rotor capacity: 4x18x7ml(72 wells)/decap (optional) Maximum speed: 4000r/min Maximum relative centrifugal force: 3200xg



4x18x7ml hanging basket



Rotor capacity: 2x2x96 wells Maximum speed: 4000r/min Maximum relative centrifugal force: 2200xg



2x2x96 wells
Enzyme plate hanging
Suitable for thickness ≤70mm



Maximum speed: 4000r/min Maximum relative centrifugal force: 3200xg



4x12x7ml decap (optional)



4x6x15ml hanging basket



4x9x15ml hanging basket



4x9x7ml decap hanging basket



4x50ml hanging basket



4x2x50ml hanging basket



4x100ml hanging basket

Microscopy

Biological Microscope



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Performance

- -Compact appearance, equipped with large field of view eyepieces and achromatic objective lenses, large and clear field of view.
- -Coarse and fine adjustment coaxial focusing mechanism, coarse and loose adjustable, with locking and limiting device, fine movement grid value: 2μm. 3W LED illumination, pre-centered, continuously adjustable brightness, orthogonal fluorescence microscope.

Product Introduction

Biological microscope series ML11 is equipped with achromatic objective lens and large field of view eyepiece, featuring clear imaging, wide field of view, easy operation, etc. It can be widely used in biology, industry, agriculture and other fields, and is an ideal instrument for teaching, scientific research and other units.



Main Technical Parameter

Item	Specifications	
Eyepieces	WF10X/18	
Eyepiece barrel	30°tilt, hinged trinocular viewing head, pupil distance adjustment: 50mm-75mm,single side visual adjustment, fixed beam splitting ratio R:T:80:20	
	30°tilt, hinged binocular viewing head, pupil distance adjustment: 50mm-75mm, unilateral visual adjustment (optional)	
	Achromatic Objective 4X/0.10, working distance: 37.5mm	
Okinatina	Achromatic objective lens 10X/0.25, working distance: 6.55mm	
Objective	Objective achromatic objective 40X/0.65,working distance:0.669mm	
	Achromatic objective 100X/1.25, working distance: 0.198mm	
Objective converter	Internal positioning four-hole converter	
Carrier stage	155mmx142mm double-layer composite mechanical moving platform, moving range: 76mmX50mm; accuracy 0.1mm	
Focusing Mechanism Low hand coarse and micro coaxial, coarse adjustment stroke 25mm, micro-adjustment on 002mm, with anti-slip adjustment elastic device and mechanical upper limit of the coarse and micro coaxial, coarse adjustment stroke 25mm, micro-adjustment on the coarse and micro coaxial, coarse adjustment stroke 25mm, micro-adjustment on the coarse and micro coaxial, coarse adjustment stroke 25mm, micro-adjustment on the coarse and micro coaxial, coarse adjustment on the coarse and micro coaxial, coarse and micro coaxial, coarse adjustment on the coarse adjustment on the coarse adjustment on the coarse adjustment on the coarse adjustment of the coarse adjustment on the coarse adjustment of the coarse adjustment on the coarse adjustment of		
Transmitted Illumination	3W LED illumination, pre-centered, brightness continuously adjustable	
System	Abbe type condenser, numerical aperture N.A. 1.25, with variable aperture diaphragm	
Camera interface	1XC (0.5X optional)	
Power cord	External wide voltage adapter, input 100V-240V-AC50/60HZ, output DC12V2A	

Orthogonal Fluorescence Microscope



Precision Precision

Laboratory Equipment Manufacturing Specialism

Product Introduction

- -Optional eyepieces, objective lenses and spotting lenses increase the flexibility of the microscope.
- -Expandability, can meet the bright field, fluorescence, phase contrast, dark field, DIC and other observation modes.
- -High-power broad-spectrum LED fluorescent illumination system, highintensity fluorescence brightness, to meet the demand for long life.
- -Also suitable for traditional imported mercury lamp light source, can be installed with 6 fluorescent filter blocks.
- -Coaxial coarse/fine focus knob can be operated from the left or right side. A limit device eliminates the risk of damage to the objective lens due to improper operation.
- -Light intensity manager can pre-set the brightness level, eliminating the need to manually adjust the intensity of each objective lens, humanized design, easy to operate, high efficiency.



Main Technical Performance

Research grade orthogonal fluorescence microscope MF43-N adopts excellent infinite optical system, 6-hole carousel fluorescence module design, fluorescence replacement and removal of convenient, independent and easy to replace the desired fluorescence excitation block, "one machine, multi-color" from now on is not a dream. Fluorescence can be selected from a wide variety of high brightness, wide range of applications, can be expanded in the field of FISH, FRET, CTC detection field. Superior optics combined with true-color LED illumination enables first-class color reproduction. Efficient and compact frame design has low power consumption and high expressiveness to meet various functional needs. The Falling Fluorescence Microscope System adopts a modular design concept that allows safe and quick adjustment of the illumination system and switching of the fluorescent filter assembly. Equipped with flat-field semi-complex achromatic fluorescence objective lens and large field of view eyepiece, it is applied to fluorescence microscopic observation in the fields of biopharmaceuticals, medical testing, disease prevention, etc., and can also be used for microscopic observation in pathology and cytology.

Main Technical Parameter

Item	Specifications	
Eyepieces	Large Field of View 10X/25,Diopter Adjustable	
Eyepiece Barrel	Hinged Trinocular Viewing Barrel, High Eye Point, 30° Tilt, Pupil Adjustment 50-75mm	
Converter	5-aperture objective converter	
Carrier stage	Highly abrasion-resistant ceramic-covered carrier stage with right-hand, low-position coaxial drive selector, stroke: 80mm x 50mm, 1mm/space, accuracy 0.1mm	
Transmission illumination system	Warm-white LEDs, continuously adjustable in brightness	
Transmission illumination system	Abbey Spotting Scope, N.A.1.1	

Orthogonal Fluorescence Microscope



Precision Precision Precision

Laboratory Equipment Manufacturing Specialis

Main Technical Parameter

	Standard:	Optional:	
Flat-field semi-complex objective	M-UPLFLN 4X/0.13;WD:17.15mm	M-UPLFLN 20X	
	M-UPLFLN 10X/0.3;WD:7.68mm	Plan Fluor 4X/10X	
	M-UPLFLN 40X/0.75;WD:0.78mm	Plan Fluor 20X/40X	
	M-UPLFLN 100X/1.30 Oil;WD:0.15mm	Plan Fluor 100X Oil	
	Multi-band LED light source MG-100 (standard); mercury lamp (optional)		
	MG-100 power control box		
Falling-fluorescence Illumination System	Vacant falling fluorescence illuminator FL-43 (6-hole turntable)		
	Excitation block	Bands	
	FB-U-M	EX:375/30nm;DM:415nm;EM:460/50nm	
	FB-B-M	EX:475/30nm;DM:505nm;EM:530/40nm	
	FB-Y-M	EX:560/40nm;DM:600nm;EM:610nmLP	