D-160 Handheld Homogenizer



Features

- Portable, lightweight with ergonomic design ideal for manual operations
- Processing volumes from 0.1-50mL or 1-250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- Interchangeable shafts for easy dismantling and cleaning

Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.

Technical Parameter

Model	D-160
Speed range	8000-32000rpm
Max linear velocity	6.3、10、14 m/sec
Speed level	10 stage
Working volume [H20]	0.1-50mL (Dispersing shaft DS-160/5)
	1-150mL (Dispersing shaft DS-160/7)
	1-250mL (Dispersing shaft DS-160/10)
Max. viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Noise Level	72 dB(A)
Protection class	IP20
Voltage,Frequency	110-120V/60Hz220-240V/50-60Hz
Power	160W
Motor Type	AC carbon brush motor
Dimension [WxDxH]	45mm x 55mm x 190mml
Permissible ambient temperature and humidity	0-40°C, 85%RH

DS-160/5	DS-160/7	DS-160/10
Volume 0.1-50mL	Volume 1-150mL	Volume 1-250mL
Max. Circum. Speed 6.3m/sec	Max. Circum. Speed 10m/sec	Max. Circum. Speed 14m/sec
Material: 316L stainless steel	Material: 316L stainless steel	Material: 316L stainless steel
Application: small amounts of solid liquid mixed	Application: small amounts of solidliquid mixed	Application: small amounts ofsolid liquid mixed
Function: dispersing tool for solid/liquid media	Function: dispersing tool forsolid/liquid media	Function: dispersing tool forsolid/liquid media

D-200 Benchtop Digital Display Homogenizing Emulsifier





Features

- Operational mode allows for continuous operation for approximately 15 minutes.
- Equipped with a DC motor, which offers excellent performance, high speed, low heat generation, long lifespan, and lower energy consumption.
- Capable of homogenizing and mixing tissues of various animals and plants.
- Able to rupture cell membranes and separate them, as well as break DNA strands into small molecules at different speeds.
- Digital speed display for intuitive reading.

Application

- This instrument is primarily used for the efficient homogenization and emulsification of two immiscible liquids, as well as the extraction of trace organic compounds, lipids, and organic solvent-soluble substances in water.
- It is widely used as a laboratory instrument in universities, environmental protection, health and epidemic prevention, chemical industry, water supply, and medical units.

Technical Parameters

Model	D-200
Speed Range	2000-20000rpm
Motor Power	200W
Processing Volume	20-1200mL
Adjustment Method	Knob Infinitely Variable Speed Control
Protection Rating	IP20
Maximum Viscosity	5000mpas
Set 1: Small Capacity Blade	Diameter 12mm,Length 15cm,Processing Capacity: 20-1000mL
Set 2: Large Capacity Blade	Diameter 18mm,Length 16cm,Processing Capacity: 20-1200mL
Material of Contact Substance	Stainless Steel and Polytetrafluoroethylene (PTFE)
Power	110-120V/60HZ,220-240V/50-60Hz
Dimensions (LxWxH)	360mm × 320mm × 600mm
Motor	Direct Current High-Speed Motor
Weight	4KG
Permissible Ambient Temperature and Humidity	0-40°℃,85%RH

D-500 High Shear Homogenizer



Features

- High quality 316L stainless steel with corrosion and autoclave resistance
- Rotor with simple design can be dismounted, cleaned, and sterilized conveniently
- 6 speed levels
- Applicable for sample with viscosity up to 10000mPa.s
- Replaceable rotors and stators sharing the same shaft, cost-effective
- Automatic overload protection mechanism maximizes the working life of motor.
- Smooth motor start, stable acceleration without spillage risk

Applications

Widely applied for histocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, diary product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

Technical Parameter

Model	D-500
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa·s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75x75x280mm
Permissible ambient temperature and humidity	0-40℃, 85%RH

DS-500/1
Solid and liquid dispersion Volume 10-5000mL Max. circum. Speed 22.7m/sec General purpose Emulsion granularity range 1-10μm Suspension granularity range 10-50μm
DS-500/2
Emulsion Volume 10-5000mL Max. circum. Speed 22.7m/sec General emulsion purpose Emulsion granularity range 1-10μm Suspension granularity range 10-50μm
DS-500/5
Small amounts of solid and liquid dispersion Volume 1-50mL Max. circum. Speed 5.8m/sec Compatible with 5mm stator and 3.8mm rotor Special design for 1-50mL tissue homogenization, mixing and suspension in Eppendorf tube, tube strip and centrifuge tubes for clinical and diagnostic application

FSF-HS10 High Speed Homogenizers



Features

High speed, light weight, no need for transformer and free movement. The standard 316L stainless steel dispersing head 10MM can be dismantled without tools. The washing is fast and convenient, and the quick joint is adopted to replace the dispersing head easily.

Technical Parameter

Model	FSF-HS10
Voltage	AC220V- 50HZ/60HZ
Power	160W
Speed	5000-30000rpm
Speed Display Mode	6 speed
Speed Regulation Mode	Stepless speed regulation
Capacity	1ml-250ml
Tip	10mm
N/W:KG	1Kg
Mini Capacity(water)	1ML
Max Capacity(Water)	250ML
Maximum Viscosity	5500MPAS
Noise	＜50DB(A)
Protection Mode	IP30

AE500S-H (70G) Homogenizer



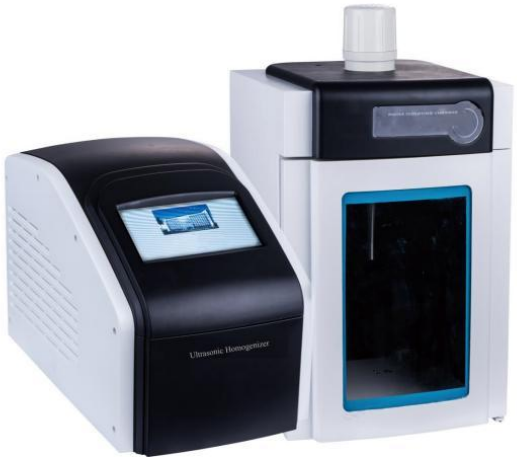
Features

The high shear dispersing emulsifying machine is driven by a compact series micro high speed motor,which is suitable for mixing low to medium and high viscosity liquid in laboratory or pilot plant, crushing granular materials and shearing emulsifying them in liquid medium.

Technical Parameter

Model	AE500S-H(70G)
Rated Voltage	AC220V
Rated frequency	50/60HZ
Input Power	850W
Output Power	500W
Rated Torque	34.1N.cm
Working System	S1 (Continuity)
Operation Control Method	Combined Control Knob
Speed Control Type	Infinity
Speed Regulation Range-No Load	2000-14000rpm
Running Dynamic Display	LED
Maximum Torque Of Working Head	34N.cm
Maximum Linear Speed Of Motor	20.5m/s
Working Head Material	SS316L Stainless steel
Working Head Diameter	70mm
Maximum/Minimum Immersion Height	50/236mm
Treatment Capacity (H2O)	500-40000ml
Maximum Processing Viscosity	8000mPa.s
Timing Control Range	1-1000min
Machine Size	215*310*720mm
Weight	9.2kg

F98-IIIDN Ultrasonic Homogenizer



Feature

- LCD big touch display new type
- Centralized controlled by microprocessor
- Step less regulation of the ultrasonic power
- Set the ultrasonic time and pause time, temperature accord to requirement
- Real-time temperature, frequency monitoring
- 10 programmer can be saved
- Noise reduction 35db
- Have Sound chamber
- Power 220-240V 50 or 60Hz
- Programmable timer 999 minutes and adjustable pulse on/off 1 second to 10 seconds
- Have temperature alarm function

Technical Parameters

Model	F98-IIIDN
Ultrasonic Frequency	20-25KHZ
Ultrasonic Power	1200W
Treatable Capacity	50-1000ml
Duty Ratio	0.1-99.9%
Titanium Tip	Φ20
Host Size	580mm*390mm*465mm
Sound Chamber Size	80mm**480mm*570mm
GW	29kg
Optional Titanium Tip	Φ15，Φ25

Standard Accessories

1	Ultrasonicator	1PC
2	Ultrasonic oscillating system(transducer)	1PC
3	Noise isolating box	1PC
4	Cross clamp	1PC
5	Tube clamp	1PC
6	Plug wire	1PC
7	Wrench	1 Set
8	Fuse	4PCS
9	Manual instruction	1PC

Ultrasonic Homogenizer/Ultrasonic Cell Disruptor

Feature

- 4.7 inch large screen LCD touch screen display.
- Microcomputer control, which can store 20 sets of work data.
- Ultrasonic time, ultrasonic power can be set.
- Automatic detection of ultrasonic power to prevent the change of ultrasonic power as the temperature of the sample is changed.
- Integrated temperature control to prevent sample overheating.
- Automatic frequency tracking, automatic fault alarm.
- Single ultrasound time: 0.1-99.9S.
- Single interval time: 0.1-99.9S.
- Total working time: 1S-99H59M59S（touch type to 99hours）.
- Mode of work: clearance or continuity.
- Can select computer online function.



Technical Parameters

Model	Ultrasonic Frequency (KHZ)	Maximum Power	Optional Probe (Φ mm)	Crusher Capacity	Sample Temperature Monitor
FUH-150W	20-25	0-150 W	2,3,6	0.1-150ml	Yes
FUH-250W	20-25	0-250 W	2,3,6,8	0.1-250ml	Yes
FUH-500W	20-25	0-500 W	2,3,6,8,10,	0.1-400ml	Yes
FUH-650W	20-25	0-650 W	2,3,6,,10,12,	0.1-500ml	Yes
FUH-900W	20-25	0-900 W	2,3,6,8,10，12	0.1-600ml	Yes
FUH-950W	20-25	0-950 W	2,3,610,12,15	0.1-700ml	Yes
FUH-1200W	19.5-20.5	0-1200 W	3,6,1015,20,22	5-1000ml	Yes
FUH-1500W	19.5-20.5	0-1500 W	10,15,20,22,25	20-1200ml	Yes
FUH-1800W	19.5-20.5	0-1800 W	15,20,22,25	50-1500ml	Yes
FUH-2000W	19.5-20.5	0-2000 W	15,20,22,25	50-1800ml	Yes
FUH-2200W	19.5-20.5	0~2200W	15,20,22,25	50-2000ml	Yes

Portable Ultrasonic Processor

Model	FUH-P01
Frequency (KHZ)	20-25
Sample Handling Capacity (ml)	0.1-100
Optional Probe (Φ mm)	2, 3, 6
Ultrasonic Power (W)	150
Power Supply	AC220V±10%，50/60HZ
Optional	Support Frame



Constant Temperature Ultrasonic Homogenizer



Description

The Constant Temperature Ultrasonic Extractor is a new type of ultrasonic extraction and extraction device that uses modern ultrasonic technology and combines an intelligent low-temperature constant temperature system. The ultrasonic secondary effect of the instrument is more conducive to the full mixing and smooth reaction of the reactants than general phase transfer catalysis and mechanical stirring, and can also meet the reaction temperature requirements of different customers. Ultrasonic technology is gradually entering chemical laboratories as a physical catalytic means, and is currently widely used in the pharmaceutical industry, chemical industry, colleges and universities, and scientific research laboratories.

Principle

The cavitation effect of ultrasound is used to increase the movement frequency and speed of the molecules of the substance, thereby increasing the penetration of the solvent and improving the dissolution rate of the extracted components. In addition, the secondary effects of ultrasound,such as thermal effects and mechanical effects, can also accelerate the diffusion of the extracted components and fully mix them with the solvent,which is also beneficial to the extraction.

Features

- Intelligent : According to the reaction environment, the best ultrasonic effect can be achieved automatically through automatic frequency tracking.
- High Efficiency : Ultrasonic technology combined with constant temperature control system makes the reaction more complete.
- Flexible Parameters : Ultrasonic power, time and reaction temperature are adjustable.
- Optional Mode : High-power ultrasonic and constant temperature system can be used in combination or separately.
- Simple Operation : Special multi-mouth reaction bottle can meet the requirements of filling various gases to participate in the reaction, and can also be continuously added.
- Intelligent Storage : Data can be set, stored and working status can be controlled.
- High Safety : It has fault self-diagnosis and alarm prompt functions.

Applications

- Diffuse various salt solutions in the soil to promote plant absorption;
- Allow titanium oxide to fully diffuse and blend in water or solution;
- Ultrasonic technology to extract organic halides from textiles;
- Research on auxiliary extraction of effective ingredients of traditional Chinese medicine;
- Fully diffuse and extract various granular agents;
- Preparation of nanomaterials;
- Research on the properties of grain storage fumigants;

Technical Parameters

Model	FSF-1000UC	FSF-500UC	FSF-250UC
Ultrasonic Power MAX	1800W	900W	650W
Reaction Bottle Volume	1000ml	500ml	250ml
Probe Diameter	Φ20mm	Φ10mm	Φ6mm
Adjustable Power Range	30%-100%	15%-100%	5%-100%
Ultrasonic Frequency	20±1KHz	22±1KHz	22±1KHz
Ultrasonic Total Time	1-999min		
Ultrasonic Time	1-99S		
Interval Time	1-99S		
Compressor Power	500W		
Heating Power	1000W		
Temperature Control Method	PID automatic temperature control		
Temperature Measurement Method	Dual-channel temperature measurement, monitoring the real-time temperature of the reaction system and the constant temperature working tank.		
Temperature Control Range	0-99℃		
Temperature Control Fluctuation	≦±1℃		
Constant Temperature Volume	6L		
Abnormal Alarm Function	Yes, the device has fault self-diagnosis and alarm prompt functions		
Operation Record Method	The device has a working curve screen, which records the temperature and other parameter changes during operation		
Equipment Control Method	7-inch TFT touch screen and single-chip integrated control.		
Equipment Operation Method	Direct operation on the touch screen to set parameters such as temperature, power, time, etc.		
USB Communication Port	The device has a USB communication port, plug in a USB flash drive, and save the curve and other information in the form of pictures to the USB flash drive		
Remote Communication Serial Port	This function is optional, and users who need it can purchase it (including the host computer software) and connect it to the computer.		
Reaction Bottle	The conventional bottle is a four-mouth bottle, and users who need it can purchase a five-mouth bottle.		

High Pressure Homogeniser



Description

Our High-Pressure Homogenizer is a miniaturized bench-top biological sample processing unit. The machine has a built-in cooling circulation system to directly cool the homogenizing head, and homogenizing valves for different applications can be purchased. It is characterized by high pressure, small volume, easy operation, high processing efficiency and large sample output. It is the standard equipment for R&D and production in bioengineering and biopharmaceutical industries

Principle

Material from the material cup through the one-way valve into the high-pressure warehouse, through the pump body telescopic pressurization so that the sample to reach the regulated control of high pressure, through a specific width of the limited flow gap instantaneous release of the formation of micro-jet impact on the impact of the valve or homogenizing valve, in turn, through the cavity, impact, shear to achieve the emulsification of materials dispersed and the cell crusher purpose.

Features

- High crushing efficiency: The material particle size can be uniformly refined to below 100nm, with a crushing rate of over 95%.
- Versatile options: Diamond crushing valve or Stellite emulsifying valve.
- High sanitary grade: Made of 316L stainless steel material that meets food and pharmaceutical requirements.
- Temperature controllable: The inlet and outlet of the cooling connector are connected with the constant temperature tank. which can effectively control the temperature rise of homogenized material.
- Adjustable flow rate: Frequency conversion flow control system that can adjust flow rate as needed.
- Adjustable pressure: Homogenization pressure adjustable from 0 to 150Mpa.
- Online exhaust: Simple operation and automatic restoration of regulated pressure after venting.
- Zero Residue: Built-in venting valve structure for material discharge.
- Invention Patent: Built-in cooler structure design.

Applications

Bioengineering

Handling of microbial samples and fragmentation of algal cells; Study of the effect on the functionality of plant proteins under different homogenization conditions.

Food industry

Research on the effects of different homogenization conditions on the physicochemical properties of food and beverages.The application of non-thermal sterilization technology in liquid food products.

Materials Engineering

Application in ultrafine powder processing and handling of pigments and dyes; Optimization of cosmetic (nanoparticle emulsion, liposome) processes

Biopharmaceuticals

Optimization of extraction and preparation of active pharmaceutical ingredients (fat emulsions, nanosuspensions, lipid nanoparticles, liposomes, flavonoids).

Sample Examples

Plant proteins: soy protein, peanut protein, sweet potato protein, etc;

Plant tissues: psyllium sprouts, hawthom leaves, loquatleaves, ginger plantrhizomes, etc;

Algal cells: Spirulina cells, hairy Candida cells, Chlorella cells, etc;

Microorganisms: yeast, E. coli, fission kettle bacteria, etc;

Liquid food: food and beverages, dairy products, fruit juices, etc;

Paint screed: carbon black paint screed, phthalocyanine green paint screed,phthalocyanine blue paint screed, violet 23 paint screed, etc;

Technical Parameters

Model	FHP-150(150PS)	FHP-150A(150APS)
Power supply	220V/50Hz	Three-phase four-wire system 380V/50Hz
Flow rate	6-12 liters/hour	12-25liters/hour
Suction times per minute	approx. 140	approx. 140
Maximum working pressure	1500bar	1500bar
Maximum product viscosity	2000cP	2000cP
Motor power	1.5KW 8stages	3.0KW 8stages
Overall size	L800*W460*H450mm	L840*W620*H540mm
Maximum product humidity	90℃	90℃
Maximum vapor humidity	121℃	121℃
Maximum feed particles	<500 microns	<500 microns

Ultra High Pressure Homogenizer



Description

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Principle

Material from the material cup through the one-way valve into the high-pressure warehouse, through the pump body telescopic pressurization so that the sample to reach the regulated control of high pressure, through a specific width of the limited flow gap instantaneous release of the formation of micro-jet impact on the impact of the valve or homogenizing valve, in turn, through the cavity, impact, shear to achieve the emulsification of materials dispersed and the cell crusher purpose.

Features

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- Adjustable pressure: Homogenization pressure adjustable from 0 to 150Mpa.
- Online exhaust: Simple operation and automatic restoration of regulated pressure after venting.
- Zero Residue: Built-in venting valve structure for material discharge.
- Invention Patent: Built-in cooler structure design.

Applications

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Handling of microbial samples and fragmentation of algal cells; Study of the effect on the functionality of plant proteins under different homogenization conditions.

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Research on the effects of different homogenization conditions on the physicochemical properties of food and beverages.The application of non-thermal sterilization technology in liquid food products.

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Application in ultrafine powder processing and handling of pigments and dyes; Optimization of cosmetic (nanoparticle emulsion, liposome) processes

Biopharmaceuticals

Optimization of extraction and preparation of active pharmaceutical ingredients (fat emulsions, nanosuspensions, lipid nanoparticles, liposomes, flavonoids).

Sample Examples

Plant proteins: soy protein, peanut protein, sweet potato protein, etc;

Plant tissues: psyllium sprouts, hawthom leaves, loquatleaves, ginger plantrhizomes, etc;

Algal cells: Spirulina cells, hairy Candida cells, Chlorella cells, etc;

Microorganisms: yeast, E. coli, fission kettle bacteria, etc;

Liquid food: food and beverages, dairy products, fruit juices, etc;

Paint screed: carbon black paint screed, phthalocyanine green paint screed,phthalocyanine blue paint screed, violet 23 paint screed, etc;

Technical Parameters

Model	FHP-207A
Maximum design pressure	2070bar/207Mpa/30015psi
Maximum working pressure	1800bar/180Mpa/26100psi
Maximum sample throughput	15L/H
Minimum sample throughput	15ml
Motor power	3.0kW/220V/50Hz
Maximum feed particles	<500microns
Flow control	Free flow adjustment
Sensors	Imported high-precision sensors
Built-in cooler	Equipped with a cooler to control homogenization temperature without consuming material
Accessories	Standard chiller
Exhaust method	In-line exhaust
Electrical Controls	Industrial PLC Controller
Screen and Display	7inch industrial touch screen+pressure and temperature integrated digital display+ pressure real-time curve
Net weight	95kg
Exterior Dimensions	(L*W*H)1100*310*460mm

Bioprep Series Homogenizer

Features

- Available to lysis most of biological samples and preserve the integrity of biomolecule (DNA, RNA and protein) and pharmaceutical molecule.
- Choose different programs and grinding beads according to different samples.
- Disposable tubes ensure no cross-contamination or sample degradation.
- Equip with open lid protection and emergency braking function. Device will be stop running automatically when the lid open or program error for the safety operation.
- Multiple material and diameter beads for the choice of different type of samples.



Bioprep-6 Homogenizer

Bioprep-6 is an individual type homogenizer, gathered the up-to-date percussion force technology and rotational speed control technology. It has extraordinary power for animal and plant tissues, bacteria, fungi and other processing hard lysis samples, such as spores, hair, bones, feces, soil, etc. Rotor for 6x2.0 mL grinding tube and 2x5.0 mL grinding tube can be chosen.

- No need to process the sample by liquid nitrogen, just put the grinding tube with sample into device, it will be ground automatically
- Process 6 x 2 mL samples or 2 x 5 mL samples simultaneously
- Disposable tubes ensure no cross-contamination



Bioprep-24 Homogenizer

Bioprep-24 is a fast and high-thoughput homogenizer with function of grinding, lysis and homogenizing by three-dimensional vibration and the coordination of the grinding beads (glass beads, silica beads, metal beads etc.). With the use of relevant kits, it can quickly, efficiently and steadily extract DNA / RNA /protein from samples in bulk, and preserve the integrity of biomolecule.

- No need to process the sample by liquid nitrogen, just put the grinding tube with sample into device, it will be ground automatically
- Process 24 x 2 mL samples or 12 x 5 mL samples simultaneously
- Disposable tubes ensure no cross-contamination



Bioprep-24R Refrigerated Homogenizer

Bioprep-24R refrigerated homogenizer has internal compressor which is upgraded on the basis of Bioprep-24 homogenizer. The sample will change to crisper which can be homogenized easily and efficiently at low temperatures. Thus, Bioprep-24R refrigerated homogenizer plays an important role in the extraction progress of RNA, DNA and the protein activity determination.

- Sealed grinding chamber, the lowest temperature reach to -10℃
- Builtin eddy fan to let the temperature difference ≤2℃ in the grinding chamber, and make the consistent homogenization effect
- Refrigeration by fluorine-free compressors, non-pollution
- Available for both dry grinding and wet grinding function

Consumable Comparison



Holder for Bioprep-6



Tray of 6×2.0 mL tubes



Tray of 2×5.0 mL tubes



24×2.0 mL Rotor



12×5.0 mL Rotor

Rotor for Bioprep-24 (R)

Technical Parameters

Model	Bioprep-6	Bioprep-24	Bioprep-24R
Temperature range	-	-	-10 °C-40 °C
From RT. to 0 °C	-	-	<30 min
Temperature uniformity	-	-	≤±2 ℃
Display	LCD	OLED	OLED
Speed range (m/s)	4.00 m/s-7.00 m/s, increment 0.05 m/s	4.00 m/s-7.00 m/s, increment 0.05 m/s	4.00 m/s-7.00 m/s, increment 0.05 m/s
Speed range (rpm)	2500 rpm - 4350 rpm, increment 10 rpm	2430 rpm - 4260 rpm, increment 10 rpm	2430 rpm - 4260 rpm, increment 10 rpm
Cycle duration	1 s - 90 s, increment 1 s	1 s - 90 s, increment 1 s	1 s - 90 s, increment 1 s
Pause time	1 s - 90 s, increment 1 s	1 s - 120 s, increment 1 s	1 s - 120 s, increment 1 s
Cycle	10	10	10
Stored program	1	50	50
Sample volume	6x2 mL/1.5 mL or 2x5 mL	24x2 mL/1.5 mL or 12x5 mL	24X2 mL/1.5 mL or 12x5 mL
Acceleration time	<2 s	<4 s	<4 s
Deceleration time	<2 s	<4 s	<4 s
Noise	<65 db	<70 db	<70 db
Wearing part	No	No	No
Rotor	Rotor for 2 mL / 5 mL (standard)	Rotor for 2 mLx24 (standard)	Rotor for 5 mLx12 (optional)
Power	150 W	500 W	1000 W
Dimension (WxDxH)	354 x218 x206 mm	280 x360 x385 mm	330 x520 x400 mm
Weight (kg)	8.9 kg	25.0 kg	40.0 kg
Power supply	AC100-240 V, 50/60 Hz	AC100-240 V, 50/60 Hz	AC100/AC240 V, 50/60 Hz

MX-S+ Digital Vortex Mixer

Feature

- LCD screen displays real-time speed and time foreasy adjustment and monitoring.
- Adjustable speed ranges from gentle to vigorousmixing to suit various needs.
- Stable with pressure-mounted accessories to prevent slippage and splashing.
- Brushless DC motor for high stability andmaintenance-free operation.
- Sturdy base ensures stability during operation for safety.
- Includes various accessories for different sizes and types of tubes and plates.
- Low noise for a quiet working environment.





Technical Parameters

Model	MX-S+
Speed	100-3000 rpm
Display	LCD
Amplitude	4 mm
Operating Modes	Touch, Continuous
Time Range	1s- 99 min 59 s
Motor Type	Brushless DC Motor
Dimensions (LXWXH)	160x146x115mm
Weight	3.4kg
Power Supply	100-240 V, 50/60 Hz
Input Voltage	24V
Power Consumption	25W
Ambient Temperature & Humidity	5-40°C, 80% RH
Enclosure Protection	IP21

VT2.3	VT2.5
Universal top plate, compatiblewith VT1.3.1-VT1.3.12 Tube Adapter 	Erlenmeyer flask attachment(100mL -250mL), Operating speed:0-1500rpm 
VT2.4	**VT2.2**
Ampule/Tube Attachment, 4pc ampule/tube (0.2mL-15mL) 	Flat Rubber Sleeve (Standard) 
VT2.1	**VT2.6**
Top cup, Suitable for MX-S+ 	Snap-in Universal top plate, compatible with VT1.3.1-VT1.3.12 Tube Adapter 
VT2.6.1	**VT2.6.2**
Tube Adapter, 25 holes ×1mL Test Tube 	Tube Adapter, 21 holes ×2mL Test Tube 
VT2.6.3	**VT2.6.4**
Tube Adapter, 16 holes ×5mL Test Tube 	Tube Adapter, 8 holes ×15mL Test Tube 
VT2.6.5	**VT2.7.1**
Tube Adapter, 4 holes×50mL Test Tube 	Horizontal Plastic Clamp,24×1.5mL Test Tube 
VT2.7.2	**VT2.7.3**
Horizontal Plastic Clamp,12×15mL Test Tube 	Horizontal Plastic Clamp,6×50mL Test Tube 
PS2.1	**PS2.2**
Microplate clamp, Suitable for workboards (full skirt PCR plates, cell culture plates, enzyme-linked immunosorbent assay plates, deep well plates, etc. Half skirt/ no skirt PCR plates need to be used with rectangular foam,which is already included) 	Snap-in Microplate clamp,Suitable for workboards (full skirt PCR plates, cell culture plates, enzyme-linked immunosorbent assay plates, deep well plates, etc. Half skirt/no skirt PCR plates need to be used with rectangular foam, which is already included) 

XH-D Vortex Mixerr



Feature

- Adapted to re-suspension particles, extract drugs and vortex cell suspensions.
- Mixing tissue sample.
- And also can be used to ELISA reaction and RIA Tests.
- Multiple plates available, can be used for various kinds of test tubes and small containers.
- High performance & low noise AC motor to make rapid and thorough mixing.
- Continuous and Inching model available, Easy to operate, Knob design makes it easy carry out stepless speed regulating.
- Reasonable design, compact structure and stable performance.

Technical Parameters

Model	XH-D
Operation method	Circling
Circling diameter	4.4mm
Rating speed	1000-2800rpm
Running mode	Constant, Inching
Working plate size	-
Input voltage(frequency)	AC 220V±10%(50/60Hz)
Permissible relative moisture	80%
Output power	30W
Protective class	IP21
Permissible ambient temperature	5-50℃
Dimensions	180×120×180mm
Net. Weight	4.5Kg

MS10-H500-Pro

LCD Digital Magnetic Hotplate Stirrer
With 10 Inch Ceramic Plate



Feature

- Large volume: Up to 30L of liquid on 10-inch hot plate with powerful magnetic stirring
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting ,the temperature sensor (PT1000) with an accuracy at±0.2°C
- Digital speed control of 100 ~ 1500rpm
- Max. heating plate temperature 500℃
- The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.

Technical Parameters

Specifications	MS10-H500-Pro
Work Plate Dimension [W x D]	254x254mm（10 inch）
Work Plate Material	Glass ceramic
Motor Type	Brushless DC motor
Stirring Positions	1
Max. Stirring Quantity, [H2O]	30L
Max. Magnetic Bar[length]	80mm
Speed Range	100-1500rpm，resolution±1rpm
Speed Display	LCD
Temperature Display	LCD
Heating Temperature Range	Room Temp.-500℃, increment 1℃
Temperature Control Accuracy	±1℃(<100℃)±1%(>100℃)
Overheating Protection	540℃
Temperature Display Accuracy	±0.1℃
External Temperature Sensor	PT1000(accuracy ±0.2℃)
"Hot" Warning	50℃
Data Connector	SD card
Protection Class	IP20
Motor Rating Input	18W
Motor Rating Output	10W
Power	1700W
Heating Output	1500W
Voltage,Frequency	100-120/200-240V，50/60Hz
Dimension [WxDxH]	328x424x138mm
Weight	7.2kg
Timer Function	1min-99h59min
Permissible Ambient Temperature & Humidity	5-40℃,80%RH

MS-H280-Pro Magnetic Hotplate Stirrer

Feature



- Digital temperature control with maximum temperature up to 280°C
- Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy at ±0.2° C
- LED display shows temperature and stirring speed "HOT" warning flashes if work plate temperature is above 50°C

Technical Parameters

Model	MS-H280-Pro
Work plate Dimension [W x D]	Ø135mm（5 inch）
Work plate material	stainless steel cover with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Max. stirring quantity, [H2O]	3L
Max. magnetic bar[length]	50mm
Speed range	200-1500rpm
Speed display	LED
Temperature display	LED
Heating temperature range	Room Temp-280℃
Heating liquid temperature control accuracy	±1℃ (<100℃) ±1% (>100℃)
Overheating temperature protection	320℃
Temperature display accuracy	±1℃
External temperature sensor	PT1000 (accuracy±0.2℃)
"Hot" warning	50℃
Data connector	-
Protection class	IP42
Timer function	-
Motor rating input	5W
Motor rating output	3W
Power	515W
Heating output	500W
Voltage,Frequency	100-120/200-240V，50/60Hz
Dimension [WxDxH]	150x260x100mm
Weight	1.8kg
Permissible ambient temperature and humidity	5-40℃,80%RH

MS-H380-Pro Magnetic Hotplate Stirrer

Feature



- Maximum heating temperature is 380°C
- High resolution LCD displays actual temperature and speed
- Brushless DC motor is maintenance free
- Aluminum ceramlc coating work plate, allowing immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital speed control with maximum speed up to 1500rpm
- Maximum stirring quantity of H20 at 5L

Technical Parameters

Model	MS-H380-Pro
Work plate Dimension [W x D]	140x140mm
Work plate material	Aluminum cover with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Max. stirring quantity, [H2O]	5L
Max. magnetic bar[length]	50mm
Speed range	200-1500rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	Room Temp-380℃
Heating liquid temperature control accuracy	±1℃(<100℃) ±1%(>100℃)
Overheating temperature protection	420℃
Temperature display accuracy	±0.1℃
External temperature sensor	PT1000 (accuracy±0.2℃)
"Hot" warning	-
Data connector	-
Protection class	IP21
Timer function	-
Motor rating input	2.4W
Motor rating output	1.8W
Power	510W
Heating output	500W
Voltage,Frequency	100-120/200-240V，50/60Hz
Dimension [WxDxH]	320x180x108mm
Weight	2.2kg
Permissible ambient temperature and humidity	5-40℃,80%RH

MS-H340-S4

LCD 4-Channel Digital Magnetic Hotplate Stirrer



Feature

- Independent heating and stirring control for each position
- LCD display shows real-time temperature and speed
- PID controller ensures a precise and stable heating process (maximum temperature up to 340℃)
- Brushless DC motor is quiet, reliable & maintenance free, and provides more powerful speed control
- External temperature sensor (PT1000) with accuracy 0.2℃Overheating protection temperature at 420℃
- Stainless steel work plate with ceramic coating provides good chemical resistance
- Wide variety of accessories available to choose from.

Technical Parameters

Model	MS-H340-S4
Work plate dimension	Ø135mm(5inch) x4
Plate material	Stainless steel with ceramic coating
Motor type	Brushless DC motor
Stirring positions	4
Max. stirring quantity of single position (H2O)	10L x 4
Max. magnetic bar	40mm
Speed range	200-1500rpm
Speed display	LCD
Temperature display	LCD
Control accuracy of sensor	±20rpm
Temperature range	25-340℃
Over temperature protection	420℃
Temperature display accuracy	±0.1℃
External temperature sensor	PT1000(accuracy±0.2℃)
IP Protection class	IP20
Motor input power	1.8Wx4
Power	515Wx4
Heating Power	500Wx4
Voltage,Frequency	100-120V,60Hz; 200-240V,50 Hz
Dimensions[WxDxH]	698x270x128mm
Weight	9.5kg
Permissible ambient temperature	5~40℃
Permissible relative humidity	Permissible relative humidity

Magnetic Hotplate Stirrer





Feature

- LCD displays actual temperature & speed; (MS7-H550-S is LED display)
- Built-in PID controller， with overheating protection;
- Maximum heating plate temperature up to 550°℃;
- Glass ceramic work plate is resistant to corrosion and is easy to clean;
- Connecting temperature sensor(PT1000) with an accuracy of ±0. 2°C;
- Digital speed control with maximum range of 1500rpm;
- Outstanding brushless DC motor offers more stirring power;
- Knob adjustment;
- Automatic alarm when the working temperature is higher than 50 degrees;
- Remote function provides PC control and data transmission.

Technical Parameters

Model	MS7-H550-Pro	MS7-H550-S
Work plate Dimension [W x D]	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Shaded pole motor
Motor rating input	18W	15W
Motor rating output	10W	1.5W
Power	1050W	1030W
Heating output	1000W	1000W
Voltage	100-120/200-240V 50/60Hz	100-120/200-240V 50/60Hz
Stirring positions	1	1
Max. stirring quantity, [H2O]	20L	10L
Max. magnetic bar[length]	80mm	80mm
Speed range	0-1500rpm, resolution ±1rpm	0-1500rpm
Speed display	LCD	Scale
Temperature display	LCD	LED
Heating temperature range	RT.~550°C, increment 1°C	RT.~550°C, increment 5°C
Temperature control accuracy	±1 °C (<100°C) ±1%(>100°C)	±10°C
Overheating protection	580°C	580°C
Temperature display accuracy	±0.1°C	±1°C
External temperature sensor	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)
"Hot" warning	50°C	50°C
Data connector	RS232	
Protection class	IP21	IP21
Dimension [WxDxH]	215x360x112mm	215x360x112mm
Weight	5.3kg	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH