

Homogenizer



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Intelligent ultrasonic homogenizer

Applicable to the processing of different capacity versions (select corresponding models and probes according to different volumes). It can break all kinds of animal and plant tissues, cells, bacteria, and can be used for emulsification, separation, dispersion, extraction, cleaning, and acceleration of chemical reactions. Widely used in the fields of life science, material science and environmental protection.

Product Features

- High security
- With over-temperature, overload and time alarm functions
- Intuitive process
- External transparent front door
- Save Space
- Up and down stacking design, saving laboratory space
- Flexible parameters
- Ultrasonic time, power continuously adjustable, good stability
- Wide processing range
- Different models of instruments can be adapted to the needs of different customers



Technical Parameters

Model	HX-650	HX-1000	HX-1200	HX-1800
Item No	1008015001	1008016001	1008018001	1008020001
Power	6.5~650W adjustable	10~1000W adjustable	12~1200W adjustable	18~1800W adjustable
Mixing capacity	0.1-500ml	0.1-700ml	0.1-1000ml	1-1200ml
Display	7inch Touch Screen			
Single ultrasonic time	0.1-99.9S			
Ultrasonic Gap	0.1-99.9S			
Total working time	1min-99H59M59S			
Frequency	20-25Khz			
Temperature Control	0~100°C			
Alarm function	Temperature,time,overload,no load, Over temperature			
Optional Horns	Φ2, 3, 6, 8, 10, 12	Φ2, 3, 6, 8, 10, 12, 15	Φ3, 6, 8, 10, 15, 22, 25	Φ8, 6, 8, 10, 15, 20, 22, 25, 28
Standard Horn	Φ6(do 10~100ml capacity)		Φ20 (do 10~100ml capacity)	Φ22(do 10~100ml capacity)
Data Storage	20sets			
Voltage	220V/110V/50Hz/60Hz			
Ultrasonic Host Dimension	427*340*168mm			
Ultrasonic host weight	11	12	15	16
(Ultrasonic horn +Transducer) Weight	2	2	2.5	2.5
Ultrasonic host Packing Dimension	500*400*320mm			
Soundproof box Packing dimension	320*320*520mm			
Soundproof box Weight	13kg			
Working voice alarm &Fault indication	Support			
Ultrasonic Time pulse width data	Support			
Ultrasonic Power simulation data	Support			
Password protection function	Support			
Ultrasonic host material	Aluminum alloy+ABS			
Soundproof box material	Anti Corrosive +ABS			

Intelligent ultrasonic homogenizer

The intelligent ultrasonic homogenizer supply network control, and remote printing conforms to the modern humanized design concept. In order to improve the safety of the biological environment, this product adds ultraviolet sterilization function to reduce the risk of personnel infection and sample cross-contamination. It can be used for the processing of samples of different volumes (corresponding models and probes can be selected according to different volumes), and is widely used in the cracking, emulsification, homogenization and crushing of samples in the fields of life sciences, pharmaceuticals and material chemistry.

Features

- High security, with over-temperature, overload and time alarm functions, with user password protection, UV sterilization and door lock functions;
- Intuitive process, external transparent front door, built-in LED light;
- Can only store, can create up to 20 groups of operating procedures;
- Stack up and down design, save laboratory space;
- Flexible parameters, ultrasonic time, continuously adjustable power, good stability;
- Remote control, the host computer is equipped with a remote monitoring communication interface, which can realize the functions of network control and remote printing;
- The electric lift seat adjusts the position of the base through the up and down buttons, eliminating the tedious manual operation;
- Wide processing range, different types of instruments can be adapted to the needs of different customers.



Lifting remote control



UV lamp



Bright lights

Technical Parameters

Model	HX-650E	HX-1000E	HX-1200E	HX-1800E
Item No	1008008002	1008017001	1008019001	1008014002
Power	6.5~650W adjustable	10~1000W adjustable	12~1200W adjustable	18~1800W adjustable
Mixing capacity	0.1-500ml	0.1-700ml	1-1000ml	1-1200ml
Display	7inch Touch Screen			
Single ultrasonic time	0.1-99.9S			
Ultrasonic Gap	0.1-99.9S			
Total working time	1min-99H59M59S			
Frequency	20-25Khz			
Temperature Control	0~100°C			
Alarm function	Temperature,time,overload,no load, Over temperature			
Optional Horns	Φ2. 3. 6. 8. 10. 12	Φ2. 3. 6. 8. 10. 12. 15	Φ3. 6. 8. 10. 15. 22. 25	
Standard Horn	Φ6	Φ6	Φ20	Φ22
Data Storage	20sets			Φ3. 6. 8. 10. 15. 20. 22. 25. 28
Voltage	220V/110V/50Hz/60Hz			
Ultrasonic Host Dimension	427*340*168mm			
Ultrasonic host weight	11	12	15	16
(Ultrasonic horn +Transducer) Weight	2	2	2.5	2.5
Ultrasonic host Packing Dimension	500*400*320mm			
Soundproof box Packing dimension	320*320*520mm			
Soundproof box Weight	13kg			
Working voice alarm &Fault indication	Support			
Ultrasonic Time pulse width data	Support			
Ultrasonic Power simulation data	Support			
Password protection function	Support			
Ultrasonic host material	Aluminum alloy+ABS			
Soundproof box material	Anti Corrosive +ABS			
Soundproof box Chamber inside lighting	Yes			
Soundproof box Sterilization	Yes			
Remote electric lifting	Yes			

MINI Ultrasonic homogenizer

The mini ultrasonic homogenizer is a sample pretreatment instrument with an integrated structure design that uses ultrasonic waves to generate cavitation effects in liquids. It is mainly used for the dispersion of nanomaterials, cell wall-breaking extraction and pulverization, homogenization and mixing, chemical synthesis, oil-water emulsification etc.

Features

- It is suitable for dispersion of nanomaterials, cell wall-breaking extraction and pulverization, homogenization and mixing, chemical synthesis, oil-water emulsification, etc;
- A variety of horn specifications are available, with a wide processing range, up to 300ml. The horns made of titanium alloy material, which has high strength, strong corrosion resistance, high heat resistance and long service life;
- Frequency tracking and amplitude compensation adopt automatic mode, with stable load and high electro-acoustic conversion rate;
- It can be hand-held or can be fixed with an optional bracket. It can be used in a variety of ways, especially for the ultrasonic treatment of trace or small amount of samples.



The Technical Parameters

Model	HX-MINI300
Item No	1008021001
Power	7-100W
Capacity	0.1-300ml
Single ultrasound time	<30min
Operation mode	Continuously
Ultrasound frequency	30KHZ
Standard horn	6mm
Optional horn	1/5/2/3/6/8mm
Horn Material	TC4 titanium alloy
Input Voltage	100-230V /AC 12-24V/DC
Control mode	Press Button (Blue Light)
Voice alarm and Prompt function	Power indicator blinks
Optional	Support
NW	0.4kg
GW	0.8kg
Exterior Dimension	320*40*47mm
Packing Dimension	470*330*200mm

Optional accessories

Item No	Horn Size	Capacity
20080037	Φ1.5	0.1~5
20080038	Φ2	0.1~10
20080039	Φ3	0.1~100
20080040	Φ6	0.1~200
20080047	Φ8	0.1~300

Portable Ultrasonic homogenizer

Ultrasonic Homogenizer is a kind of multi-functional and multi-purpose instrument which uses strong ultrasound to produce cavitation effect in liquid and to deal with substances. It can be used to break up many kinds of animal and plant cells and virus cells. It can also be used for emulsification, separation, extraction, defoaming, degassing, cleaning and accelerating chemical reactions.

The instrument with LCD Screen, with automatic and manual (use foot) working modes, ultrasonic time, power stability, sample temperature detection display, frequency automatic tracking and other functions, suitable for small volume samples.

Features

- The integrated design of the probe and the host, small size, large processing capacity, compact structure, the integrated design of the ultrasonic vibration system has the advantages of high efficiency, energy saving, portability, etc;
- Ultrasound can be controlled manually or with clamps, especially suitable for micro or small sample processing;
- The horn is made of titanium alloy material, which has the characteristics of high strength, high speed of sound, good corrosion resistance and high heat resistance, so as to prolong the service life of the instrument.



Technical parameters

Model	UP-250	UP-400
Item No	1008009001	1008010001
Power(w)	2.5-250 Continuous	4-400 Continuous
Crushing capacity (ml)	0.1-150(With optional horns)	0.1-300(With optional horns)
Optional horns (mm)	Φ2、3、5、6	Φ2、3、5、6
Standard horn (mm)	Φ5	
Single ultrasound time (s)	0.1-99.9	
Single stop time(s)	0.1-99.9	
Total time (ultrasound + gap)	1-99H59M59S	
Frequency range (kHz)	20-30	
Temperature control range(℃)	0-100	
Alarm function	Time, overload, no load, over temperature	
Display mode	Touch Screen display	
Data storage	20 sets	
Power supply (Optional 110 v)	220V/110V/ 50Hz/60Hz	
Net size of instrument (mm)	410*225*290	
Optional features	Computer communication + data printing + sound proof +sterilization	
Control mode	Single chip +TFT touch control	
Other functions	Voice alarm and prompt	

Soundproof box

- Reduce the noise level, the incision in the back can connect the gas or perform an inflow reaction;
- Acrylic door for process control, stainless steel box, attenuation of 20 dB;
- Soundproof material waterproof, easy to clean, with rod, swivel clamp and clipto adjust the height of sample container;
- Entrainment is used for the safe fixation of sample containers of different specifications, as well as for ultrasonic treatment of glass containers samples with round bottom or inlet on the bottom .



Soundproof box



Soundproof box chamber with lifting platform

Lab Ultrasonic homogenizer

- Single chip microcomputer technology + 4.3-inch TFT capacitive touch screen control (optional choice- 7 inches), other optional functions such as computer communication or data printing;
- High degree of intelligence, centralized control of the central computer, ultrasonic time, power can be set from 1%-100%;
- Sample temperature detection display, frequency microcomputer automatic tracking, fault automatic alarm;
- With overload protection function and if the horn not immersed in the liquid will automatically protect the luffing rod from damage;
- Can realize fault, over temperature or operation error caused by voice alarm function, more humanized.



Technical parameters

Suitable for small volume sample ultrasonic cell crushing apparatus

Model	JY96-IIN	JY88-IIN	JY92-IIN	JY92-IIDN
Item No	1008001001	1008002001	1008003001	1008004001
Power (w)	1.5-150 Continuous	2.5-250 Continuous	10-650 Continuous	10-900 Continuous
Crushing capacity (ml)	0.1-150	0.1-300	0.1-500	0.1-600
	With optional horns			
Optional horns (mm)	Φ2、 3、 6、 8、 10	Φ2、 3、 6、 8、 10	Φ2、 3、 6、 8、 10、 12	Φ2、 3、 6、 8、 10、 12、 15
Ultrasonic setting time (s)	0.1-99.9			
Single stop time (s)	0.1-99.9			
Total time (ultrasound + gap)	1-99H59M59S			
Frequency range (kHz)	20-25			
Temperature control range (°C)	0-100			
Alarm function	Time, overload, no load, over temperature			Temp, time, overload, no load, over temperature
Standard horns (mm)	Φ6			
Display mode	Touch screen display			
Data storage	20 sets			
Power supply	220V/110V/ 50Hz/60Hz			
Net size (mm)	410*225*290			
Optional features	Computer communication + data printing + sound proof +sterilization			
Control mode	Single chip +TFT touch control			
Other functions	Voice alarm and prompt function			

Suitable for big volume sample ultrasonic cell crushing apparatus

Model	HX-IID	JY98-IIDN	JY99-IIDN
Item No	1008007001	1008005001	1008006001
Power (w)	10-1000 Continuous adjustable	20-1200 Continuous adjustable	50-1800 Continuous adjustable
Crushing capacity (ml)	0.1-750	1-1000	1-1200
	With optional horns		
Optional horns (mm)	Φ2、 3、 6、 8、 10、 12、 15、 22	Φ3、 6、 8、 10、 15、 20、 22、 25	Φ6、 8、 10、 15、 20、 22、 25
Standard horns (mm)	Φ6	Φ20	Φ22
Single ultrasound time (s)	0.1-99.9		
Single ultrasound time (s)	0.1-99.9		
Total time (ultrasound + gap)	1-99H59M59S		
Frequency range (kHz)	19.5-20.5		
Temperature control range(°C)	0-100		
Alarm function	Temperature, time, overload, no load, over temperature		
Display mode	True color touch screen display		
Data storage	20 group		
Power supply	220V/110V/ 50Hz/60Hz		
Net size (mm)	410*225*290		
Optional features	Computer communication + data printing + sound insulation lighting or sterilization		
Control mode	Single chip +TFT touch control		
Other functions	Voice alarm and prompt function		

Industry Ultrasonic homogenizer

The industrial ultrasonic Homogenizer is a new equipment developed by our company on the basis of laboratory use to adapt to the preparation of nano-materials and strengthen ultrasonic cleaning, bacterial treatment, used in factory pilot test and so on. It is the most ideal ultrasonic crushing equipment.

Product features

- Overload protection
- The overload protection function and the horn will not work if they are not intrude into the liquid, so as to protect the horn from damage;
- High purity titanium alloy
- High purity titanium alloy luffing rod can be continuously ultrasonic for more than one hour without damaging the luffing rod;
- Integrated injection design
- Use integrated injection molding technology design, streamlined shape;
- Alcoa 7075
- The metal part is made of Alcoa 7075 material, which last longer. and is safe and not easy to be damaged.



Technical parameters

Model	HX-3000W
Power(w)	1000-3000 Continuous
Crushing capacity (ml)	500-5000(With optional horns)
Optional horns (mm)	Φ20、 38、 40
Ultrasonic setting time (s)	0.1-99.9
Single stop time (s)	0.1-99.9
Total time (ultrasound + gap)	1-99H59M59S
Frequency range (kHz)	19.5-20.5
Temperature control range (°C)	0-100
Alarm function	overload, no load, over temperature
Standard horns (mm)	Φ40
Display mode	Temperature, time, overload, no load, over temperature
Data storage	20 sets
Power supply	220V/110V/ 50Hz/60Hz
Net size (mm)	510*225*290
Optional features	Computer communication + data printing + sound proof +sterilization
Control mode	Single chip +TFT touch control
Other functions	Voice alarm and prompt function

Stainless steel reaction vessel

- Suitable for continuous dispersing and crushing of large volume of samples.
- Can be directly installed and connected from the chamber to the horn.
- The sample can be directly pumped into the cavity from the bottom inlet to enter the most effective ultrasonic crushing area of the crushing head.
- After effective crushing, the sample can be set aside from the top outlet.
- The sample can be cooled at a constant temperature with its own cooling jacket, and the maximum overpressure is < 2 bar.

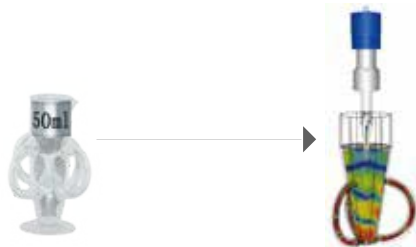




Horns	Diameter (mm)	Item No	Processing (ml)	Power ratio (%)	Optional horns											
					JY96-IIN JY98-IIN	HX-IID	JY92-IIDN	JY92-IIN	JY98-IIIDN	JY99-IIDN	UP-250 UP-400	HX-3000W	HX-650 HX-650E	HX-1000 HX-1000E	HX-1200 HX-1200E	HX-1800 HX-1800E
①	Φ2	20080010 20080034	0.2-5	1-35	✓	✓	✓	✓					✓	✓		
②	Φ3	20080011 20080035	3-10	1-45	✓	✓	✓	✓	✓				✓	✓	✓	✓
③	Φ5	20080029	5-100	1-60								✓				
④	Φ6	20080012 20080036	10-100	1-70	✓	✓	✓	✓	✓				✓	✓	✓	✓
⑤	Φ8	20080013	20-200	1-85	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
⑥	Φ10	20080002	30-300	1-90	✓	✓	✓	✓					✓	✓		
⑦	Φ10	20080001	30-300	1-70					✓	✓					✓	✓
⑧	Φ12	20080003	50-600	10-90		✓	✓	✓					✓	✓		
⑨	Φ15	20080004	50-750	10-90			✓	✓						✓		
⑩	Φ15	20080005	50-500	10-80					✓	✓					✓	✓
⑪	Φ20	20080006	100-1000	10-90					✓	✓		✓			✓	✓
⑫	Φ22	20080007	200-1200	20-95					✓	✓					✓	✓
⑬	Φ25	20080008	300-1200	30-95					✓	✓					✓	✓
⑭	Φ28	20080009	300-1200	30-95												✓
⑮	Φ38	20080028	500-2000	Automatic-ally adjust									✓			
⑯	Φ40	20080026	1000-5000	Automatic-ally adjust									✓			

Mixing Vessel

Due to the pressure generated by the ultrasonic vibration, the sample will be pressed from the bottom of the dispersing cup into the side wall of the circulation. If the dispersing mixing vessel is put into the coolant or crushed ice, the sample will be effectively cooled, because the crushing cup has the function of self-circulating heat transfer and increased surface area.



Intensity of distribution
(Distance between probe tip and vessel bottom = 3cm) Reference: Beuth Hochschule Berlin

Thermostatic Vessel

With cooling jacket for constant temperature of samples during continuous crushing, samples are pumped in from the bottom inlet, with top outlet for natural return to the external container, which can be used for homogeneous crushing of large samples.



	Mixing Vessel			Thermostatic Vessel						
Capacity (ml)	50	150	600	50	100	250	500	1000	2000	5000
Item No	20080014	20080015	20080016	20080017	20080018	20080019	20080020	20080021	20080022	20080023

Hand held homogenizer

HR-6B is a handheld/stand-supported small, fast tissue homogenizer, dispersion and emulsifier, suitable for 0.2-50mL, 1-150ml liquid/liquid, liquid/solid samples with different dispersion heads, up to 35000rpm. Applied in biopharmaceutical, gene research, tissue fragmentation, cytoplasmosis, pathological analysis, oil-water emulsification, nanomaterial dispersion, dairy homogenization, polymerization reaction, daily cosmetics, Ink coating, fine chemicals, pesticides, mineral exploration, environmental protection, energy and other fields.

Product features

- The design is light and portable, which can be operated with one hand;
- Reusable, easy to remove, easy to clean;
- High quality 316L stainless steel dispersion head, corrosion resistance, high temperature disinfection;
- Dispersion head easy to disassemble, easy to clean;
- High speed and high efficiency motor, double insulation protection, ensure safety;
- Can be mixed, dispersed, emulsified, homogenized and other operations;
- Suitable for batch processing of fluid materials in small container, such as muscle, viscera, fiber, etc.



Technical Parameters

Model	HR-6B
Host Item No	1004008001
Set Item No	1004008000
Voltage	220V
Frequency	50HZ
Power	120W
Capacity	0.2-150ml
Viscosity	2000mpas
Process type	Micro batch processing
Speed range	1000-35000rpm
Speed adjust	0-6gears
Standard working head	HR6P-10G-M2V
Optional working heads	Check the optional working heads on P010
Sample touch material	SUS316L
Bearing s material	PTFE
Stand	Single stand(Support)
Packing list	Aluminum carrying case
Host size	185*55cm
Host weight	2kg
Host packing GW	3.3Kg
Set packing GW	6kg

Product packaging

Double Layers Firm



Outside Color carton packing



Inside High-end aluminum alloy packaging

Stand options

Single column stand
Item No: 20040013



Portable homogenizer

HR-10B is an portable device with imported motor , with optional dispensing head can deal with 0.2 -150ml capacity sample.Stand is optional accessories ,not selling in a set.It is apply for outdoor or laboratory ,with rechargeable lithium battery ,v-ery convenient to work.



Product features

- One-hand control, humanized operation, exquisite motor contains super power, the experimental effect is more ideal;
- Double insulation protection, give you safety protection;
- All parts of working head contacting materials are made of high quality stainless steel with good corrosion resistance;
- Portable operation, light and convenient, large capacity battery, suitable for outdoor or laboratory mobile operation;
- Suitable for animal and plant tissue breakage, homogenization, medical diagnosis, microdispersive emulsification and homogenization.

Technical Parameters

Model	HR-10B
Host item No	1004009001
Set item No	1004009000
Input voltage	220-240V
Output voltage	12VDC 3A
Frequency	50-60Hz
Capacity	0.2-150ml
Viscosity	100ml
Process type	Micro batch processing
Speed range	5000-30000rpm
Adjust mode	0-6 gears
Speed control	Stepless
Standard working head	HR6P-10G-M2V
Optional working heads	Check the optional working heads on P010
Sample touch material	SUS316L
Bearing s material	PTFE
Stand	Single stand(Support)
Packing list	Aluminum carrying case
Host size	240*60mm
Host weight	2.1kg
Host packing GW	3.5kg
Set packing GW	6.2kg

Optional tool head (applicable to HR-6B, HR-10B)

Working head	Item No	Specifications	Maximum linear Speed (m/sec)	Capacity (ml)	Length of working head(mm)	Working head material (mm)	apply to
	20040016	HR6P-6G-M2V	6	0.2-50	100	5	HR-6B/10B
	20040017	HR6P-6GST-S2V	6	0.2-50	100	5	HR-6B/10B
	20040018	HR6P-8G-M2V	8	10-60	500	8	HR-6B/10B
	20040019	HR6P-8GST-S2V	8	10-60	500	8	HR-6B/10B
	20040020	HR6P-10G-M2V	10	30-150	2000	10	HR-6B/10B
	20040021	HR6P-10GST-S2V	10	30-150	2000	10	HR-6B/10B

High shear homogenizing emulsifier

High-shear homogeneous emulsifier is flexible and convenient. It can be operated by hand. More than 20 kinds of working heads are available for selection, with optional vacuum working head, which can realize vacuum operation and easily meet various high requirements of dispersing, emulsifying and homogenizing experiments. It can be used in the fields of biomedicine, gene research, tissue breakage, cytoplasm, pathological analysis, oil-water emulsification, nanomaterial dispersion, dairy homogenization, polymerization reaction, daily cosmetics, ink coating, fine chemical industry, pesticide, mineral exploration, environmental protection, energy and so on.

Product features

- Imported original motor, stable operation, less noise, long time operation, safe and reliable design;
- All parts of working head contacting materials are made of high quality stainless steel with good corrosion resistance;
- The working head is connected with the driving motor by a coupling, which is easy to disassemble and assemble;
- The stepless governor uses the speed regulating frame, which is convenient for speed regulation and stable operation;
- The speed is adjustable in 6 gears continuously to ensure good dispersion effect.



Technical parameters

Model	HR-500	HR-500D
Host item No	1004010001	1004011001
Set item No	1004010000	1004011000
Type	Basic	Digital
Voltage	220V	220V
Frequency	50-60Hz	50-60Hz
Power	500W	500W
Speed range	8000-30000rpm	12000-30000rpm
Adjust mode	Graduate	Graduate
Speed mode	Stepless	Digital
Capacity	0.2-7000ml	0.2-7000ml
Standard working head	HR25P-25G-S2V	HR25P-25G-S2V
Sample touch material	SS316L	SS316L
Bearings material	PTFE	PTFE
Proper temperature	≤120°C	≤120°C
Allowable ambient temperature	5-40°C	5-40°C
Allowable ambient humidity	80%	80%
Host Size	275*65mm	275*65mm
Host packing size	470*340*205mm	470*330*200mm
Host NW	3kg	3kg
Host GW	4kg	4kg

Lab Homogenizer Emulsifier

ANTITECK LIFE SCIENCES LIMITED has developed a technological breakthrough in the development of carbon-free direct brush motors for homogeneous emulsifiers, which has broken through the domestic status quo of the carbon brush motor. The carbon-free DC motor greatly reduces the working noise of the equipment. Can work for a long time while providing a toner-free environment, ensuring the risk of toner contamination of samples.



Product Features (Brushless DC Motor)

- A variety of working heads of different specifications to meet the processing capacity requirements of 2-10000ml;
- Stepless speed regulation function, the speed can reach up to 30000rpm, the acceleration is stable, and the basic model has 1-6 gears with adjustable speed;
- Digital HR-25D, the speed can be set arbitrarily from 3000-26000 rpm, with 0-999min timing function, the instrument automatically stops after the operation is over;
- The whole machine is compact in structure and beautiful in shape, and provides a linear speed of 27m/s for sample homogenization;
- Two-way support rod design combined with double-hole fixing clips to form an integrated lifting and adjusting system to make your experiments more reliable and safer;
- The digital HR-25D can be equipped with a temperature sensor to measure the humidity of the sample in real time. When it reaches the set value, it will automatically stop running, which can better protect the sample and make the experiment safe and secure.

Optional accessories:



Temperature sensor
Item No: 20040201



Double column bracket
Item No: 20040012

Technical Parameters

Model	HR-25	HR-25D
Host item no	1004023001	1004022001
Set item no	1004023000	1004022000
Machine type	Basic	Digital
Rated voltage	200-240V	200-240V
Frequency	50-60HZ	50-60HZ
Input Power	1500W	1050W
Output power	1250W	750W
Motor type	DC Brushless motor	DC Brushless motor
Speed range	7500-30000RPM	3000-26000RPM
Speed accuracy	/	±100
Speed display	/	LCD
Adjust mode	Gear adjust	Knob adjust
Capacity	2-10000ml	2-10000ml
Timer range	/	0-999min
Time display	/	LCD
Temperature testing range	/	-10 -199℃
Set standard	Host+working head +stand	Host+working head +stand
Standard working head	HR25P-25G-S2V	HR25P-25G-S2V
Host exterior dimension	410*(D)90	365*(D)90
Host packing dimension	470*340*205mm	470*340*205mm
Host NW	2.6kg	2.5kg
Host GW	3kg	2.9kg
Set NW	7kg	6.5kg
Set GW	8kg	9kg

Nomenclature of working heads

For example HR25P-25G-M2V



HR25P-6G-M2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040022	6	0.2-10	100	6	HR-25/25D/500/500D

HR25P-8G-M2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040023	8	1-60	100	8	HR-25/25D/500/500D

HR25P-10G-M2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040024	10	10-150	200	10	HR-25/25D/500/500D

HR25P-18G-S2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040025	18	50-1500	3000	19	HR-25/25D/500/500D

HR25P-18F-S6S

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040026	18	100-1500	2000	19	HR-25/25D/500/500D

HR25P-20G-S2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040027	20	50-1500	3000	19	HR-25/25D/500/500D

HR25P-20F-S6S

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040028	20	50-1500	3000	19	HR-25/25D/500/500D

HR25P-25GST-S2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040063	25	100-5000	5000	27	HR-25/25D/500/500D

HR25P-25G-S2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040031	25	100-5000	5000	27	HR-25/25D/500/500D

HR25P-25F-S6S

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040032	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25DG-S2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040033	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25DF-S6S

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040034	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25JX-IOQ

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040035	25	100-5000	5000	35	HR-25/25D/500/500D



HR25P-25JQ-QOQ

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040036	25	100-5000	5000	35	HR-25/25D/500/500D



HR25P-25T1-O3X

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040037	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25T2-O1I

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040168	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25T3-M2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040038	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25T4-W2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040039	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25T5-M2V

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040040	25	100-5000	5000	27	HR-25/25D/500/500D



HR25P-25T6-Z6Z

Item No	Stator diameter mm	Capacity ml	Viscosity CP	Max line speed m/s	Suit for models
20040041	25	100-5000	5000	27	HR-25/25D/500/500D

Timing digital display high shear homogeneous emulsifier

HR-500DGDigital High shear homogenizer use high quality motor ,operate more stable and less noise. Can long time continuously working ,more working heads for options ,Easily meet the experimental requirements of high requirements for dispersion, emulsification, and homogeneity.

Product features

- Use high-quality motors, stable operation, lower noise, safe and reliable design;
- All parts of the working head contacting materials are made of high-quality stainless steel with good corrosion resistance;
- The working head is connected with the drive motor by a coupling, which is easy and flexible to disassemble and assemble;
- The base of the governor adopts a stepless governor, which is convenient for speed regulation and stable operation.



Technical Parameters

Model	HR-500DG
Item No	1004018001
Speed Range	2000-23000rpm
Optional working head	12G/18G/28G/36G
Frequency	50Hz/60Hz
Input Power	850
Output Power	500
Rated Torque	17.1N.cm
Working mode	S1(Intermittent)
Operation mode	Control buttons when combined
Working Voltage	220V
Speed control	Stepless
Speed display	LED
Time Control Range	99h59min59s
Working head material	SS304
Exterior Dimension	215*310*720mm
The motor weight	8.7kg
Allowable ambient humidity	≤80%
Allowable ambient temperature	≤40°C
Exterior Dimension	215*310*720mm
NW	8.7kg
Rated Voltage	AC220V
Motor Type	Carbon brush motor

Working head parameters

Working head				
Item No	20040119	20040118	20040117	20040116
No	12G	18G	28G	36G
Capacity	30-800	50-1500	100-8000	150-13000
Suitable viscosity	1000	2000	6000	7000
Rotor linear speed	11	15	19	27
Immersion height	25/85	30/120	60/155	60/160
Stator diameter	Φ12	Φ18	Φ28	Φ36
Length of working head	150	190	235	240
Operating temperature	120	120	120	120
Work head material	SS304	SS304	SS304	SS304
Work head bearing material	PTEE	PTEE	PTEE	PTEE

FJ series High speed dispersing homogenizer

FJ high speed dispersing homogenizer is driven by compact series excited micro high speed motor, which is suitable for crushing experimental materials in liquid in laboratory further dispersion and homogeneity in the medium. It is composed of high density die-casting aluminum alloy as the driving machine, high quality stainless steel refined dispersive homogeneous working head and speed regulating machine stand. It has the characteristics of high driving speed, high output power, convenient loading and unloading of working head and easy operation of experiment.

Product features

- The driving motor adopts series micro-motor with large output power and compact structure, which is safe and reliable in design;
- All parts of working head contacting materials are made of high quality stainless steel with good corrosion resistance;
- The working head is connected with the driving motor by a coupling, which is easy to disassemble and assemble;
- The stepless governor was used with the speed regulating frame, which is convenient for speed regulation and stable operation.



Technical parameters

Model	FJ200	FJ200-SH (Digital display)	FJ300-SH (Digital display)
Item No	1004003001	1004004001	1004005001
Speed range (r/min)	300-23000	300-23000	300-18000
Capacity (ml)	30-1500	30-1500	100-13000
Input power (w)	280	280	510
Output power (w)	200	200	300
External dimension (mm)	250x350x600	250x350x600	250x350x600
Working head configuration (mm)	Φ12, Φ18	Φ12, Φ18	Φ28, Φ36
Working methods	Intermittent	Intermittent	Intermittent
Power supply	AC 220 V 50 Hz	AC 220 V 50 Hz	AC 220 V 50 Hz
Rated torque (N. cm)	83	68	68

Working head parameter

Work head				
Item No	20040005	20040006	20040007	20040008
Working head specification	12G	18G	28G	36G
Capacity (ml) (H ₂ O)	30-800	50-1500	100-8000	150-13000
Suitable for viscosity (mPa·s)	1000	2000	6000	7000
Rotor linear velocity (s/m)	11	15	19	27
Invasion liquid height (mm)	25/85	30/120	60/155	60/160
Stator diameter (mm)	Φ12	Φ18	Φ28	Φ36
Working head length (mm)	150	190	235	240
Ambient temperature (°C)	120	120	120	120
Working head material	SS304	SS304	SS304	SS304
Working head bearing material	PTEE	PTEE	PTEE	PTEE

JRJ Series High Shear dispersing homogenizer

JRJ high speed shear dispersing emulsifier is driven by series excited micro high speed motor with compact structure. It is suitable for mixing low to medium and high viscosity liquid and pulverizing granular materials in liquid medium for shear emulsification. The machine is composed of high density die-casting aluminum alloy as the driving motor, high quality stainless steel refined shear emulsification working head and speed regulating controller, etc.

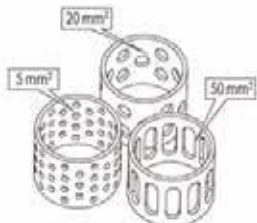
Product features

- Stepless governor is adopted in the operation state controller, and touch structure is adopted in the digital display type, which makes the speed regulation convenient and the data correct;
- The driving motor with allity large output power and compact structure, which is safe and reliable in design;
- Shear emulsification mixing head is made of high quality stainless steel with good corrosion resistance and easy dismantling of interchangeable stator;
- The working head is connected with the driving motor with shaft joint, running stably at high speed.



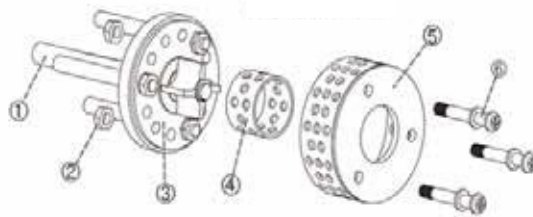
Technical parameters

Model	JRJ300-D-1	JRJ300-SH (Digital display)
Item No	1004001001	1004002001
Speed range (r/min)	200-11000	200-11000
Maximum stirring capacity (L)	40	40
Input power (w)	510	510
Output power (w)	300	300
External dimension (mm)	250x650x720	250x650x720
Rated torque(N. cm)	34.1	34.1
Working head diameter (mm)	Φ70	Φ70
Stator configuration (mm ²)	5, 20, 50	5, 20, 50
Use Power supply	AC 220 V 50 Hz	AC 220 V 50 Hz
NW	17.2Kg	10.8Kg



Standard Stator

Stator change as the photo shows



The operation process of changing the stator
First unscrew the three nuts^② with the supplied wrench, remove the three screws^⑥ remove the outer stator ring^⑤ from the step of the stator base^③ of the working head, remove the stator^④ that is not suitable, and then apply the appropriate The stator is inserted, and then the outer ring and the screw are installed, the three nuts are evenly synchronized and slightly tightened, and the drive shaft^① is moved by hand, and there should be no periodic looseness.

Paddle sterilize homogenizer

Paddle Blender, also known as sterile homogenizer, can be used to directly extract bacteria from solid samples. Just put the original sample (large need to cut into 10 x 10 mm block) and diluent into the sterile sample bag, then put the sample bag into slapping type homogenizer, passes through the blade flapping hammer pressure, causing oscillation, accelerate mix, so as to achieve microbial composition is in a state of uniform distribution in the solution, can complete the processing of the sample. Effectively separate homogeneous samples of microorganisms contained within and on the surface of solid samples, ensuring that all samples are mixed in sterile bags. Application: food microbiology, analysis of animal tissues, biological samples, homogenization treatment of cosmetics, meat, fish, vegetables, fruits Processing; Drug, clinical, molecular, toxin and bacteria detection and other fields.



HX-4/HX-4GM

Disinfection wavelength of 253.7(nm)



HX-4

Product features

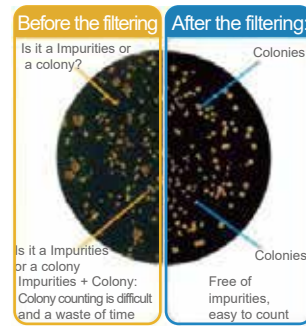
- Large LCD, Easy operation and can store multiple working programs;
- Intelligent control, uniform speed and time can be controlled;
- Transparent glass window, easy to observe, full open door, easy to clean;
- There is no contact between the sample and the homogenizer. If there is no sample leakage, no need cleaning;
- Soft homogeneity, no pollution, no damage, no heating, no need to sterilize, no need to wash utensils;
- With strong sound insulation function.

Technical parameters

Model	HX-4	HX-4M	HX-4GM
货号	1005001002	1005002002	1005003002
Control mode + parameter storage	Microcomputer control +8 section combination programming		
Temperature control range (°C)	No	No	At room temperature to 60
Disinfection function	No	Disinfection wavelength of 253.7(nm)	Disinfection wavelength of 253.7(nm)
Weight (kg)	24	24.5	25
Power supply/power (v/w)	220/200	220/250	220/500
Display mode	Large LCD display		
Padding time	0.1 to 99 minutes and 59 seconds or continuous operation		
Flap speed (times/second)	3-12		
Effective volume (ml)	3-400		
Sterile bag size (cm)	17x30		
Paddle Material	Stainless steel + anticorrosive spray		
Panting distance	0 to 50 mm adjustable		
Start mode	Soft start		
Pause function	Yes		
Power supply/power (v/w)	With automatic stop anti-pinch function		
Anti-pinch function	Removable window + toughened glass safety door		
Other	460x250x330		
External dimension (mm)			

Sterilization bag

Why use sterilization bags?



Sample homogenization and filtration at the same time, rapid filtrate absorption, no particles, no waiting for precipitation, no clogging pipette.

During the homogenization process, the filter blocked the Impurities, and the concentration of bacteria on both sides of the filter remained consistent, which not only increased the accuracy, but also accelerated the counting speed.

Proper use of sterile homogenizer is as follows:

1. Put the samples to a sterilization bag;
2. Open the homogenizer door and clamp the sterile bag opening before closing the homogenizer door;
3. Set the usage program (such as tapping speed, tapping time, etc.) to execute the work of tapping homogenization;
4. After the experiment, open the homogenizer door and take samples.



Storage operations can be easily performed in a stand:



Polyolefin and adult samples for homogenizer



Only for vertical operation

Sampling and homogenization are performed in the same bag:



Name: Water tray

Item No: 20050003

Material: Stainless steel



Name: 304 stainless steel brack

Item No: 20050002

Usage: Can put 10 samples

Size: 33 * 21.5 * 17 cm



Name: Metal spraying brack

Item No: 20050001

Usage: Can put 5 samples



Name: Sterilization bag

Item No: 20050004

Specification: 17*30cm, 100pcs/packet



Name: Sterilization bag

Item No: 20050005

Specification: 17*30cm, 100pcs/packet



Name: Sterilization bag

Item No: 20050006

Specification: 19*30cm Capacity 400mL 50 PCS/packet

