



REDCROWN

RedCrown Ultrasonic Cleaner

Keep Providing ultrasonic cleaner solution to assist scientific research for worldwide

Hotline: +86-760-86637782 website: www.redcrown.top

Address: 8th Floor, No.4 block, Pengteng Science Park, Tan-zhou town, Zhongshan city, Guangdong province, China

whatsapp: +86-15819350633 email: sales@redcrown.top

Ce, Rohs, ISO13485, EN13060, FDA



Redcrown Ultrasonic Industrial Co.,Ltd

Guanadong Redcorwn Ultrasonic industry Co., td, is professional ultrasonic solution provider in worldwide,we focus-
es on the field of life science insruments. Our main products include multi-frequency, constant temperature silent
medical ultrasonic cleaning machines, cell disruptors, vibrators, commerncial benchtop ultrasonic cleaner,industrial
ultrasonic cleaner,etc. We provide scientific ultrasonic instrument solutions for universities,institute of research moni-
toring, medical and health, biotechnology, food and pharmaceutical, chemical chemistry,pathology science, inspedi-
on and quarantine, environmental soil, new material research and commercial & industrial fields. Our instruments
redefine and empower the fields of biological science extraction, dispersion, and emulsification. with the aim of
dedicating to laboratory analysis and providing scientific instrument solutions,Redcrown Instrument provides high
quality products and services for laboratory users and various application for commerical and industrail fields. On the
road of biological science instrument wil continue to assist scientific research and go furher!

CONTENTS

Enterprise introductiton

Honor Cert.
Application

Ultrasonic Cleaner

SN-H Constant Temperature Ultrasonic Cleaner	1
SN-J Desktop Slient Ultrasonic Cleaner	2
SN-Y Medical Ultrasonic Cleaner	3
SNY-LZ Vacuum Medical Ultrasonic Cleaner	4
SN-S Lab Ultrasonic Cleaner	5
SN-FB Explosion-proof Ultrasonic Cleaner	6
SN-D Laboratory Ultrasonic Cleaner	7-8
SN-HD Low Temperature constant Cleaner	9
SN-PF No contact Ultrasonic cell disrupter	10
SN-P Single channelcel ultrasonic disrupter	11
SN-PTD multi-channel ultrasoic disrupter	12
SN-PS Hand held cell ultrasonic disrupter	13-14

SN-C Gathering energy constant Temperature cell disrupter	15
---	----

Plasma Ultrasonic-cleaner	16
---------------------------	----

SN-ZP Atmospheric pressure plasma cleaning machine	17
--	----

SN-ZK Vacuum plasma ultrasonic cleaner	18
--	----

Customized	19
------------	----

Our partner	20
-------------	----

Commercial Benchtop Ultrasonic Cleaner

Desktop commercial ultrasonic cleaner is designed for high-efficiency cleaning in professional and industrial settings. It is widely used to remove contaminants, grease, oil, dirt, and debris from delicate or complex item

[illegible]

Model:SN-JX07 Desktop Silent Ultrasonic Cleaner

Hot



Model No	SN-JX07
Capacity	7L
Ultrasonic Power	200W
Heating power	500W
Temperature	Constant 90°C
Frequency	40KHz
Inner tank size	300*150*150mm
Operation	Manual
In-outlet drainage	Manual
External dimensions	420*315*400MM

SN-HT07Desktop constant temperature ultrasonic cleaner

Hot

Model No	SN-HT07
Capacity	7L
Ultrasonic Power	240W
Heating power	500W
Temperature	5-90°C
Frequency	40KHz
Inner tank size	300*150*150mm
Operation	Manual
In-Out drainage	Manual
Cooling power	400W
Heating Power	500W
in-out let pipe size	4'



CERTIFICATE OF HONOR

220+

Apply for patents and copyrights

Our business activities have been carried out in an orderly manner, achieving excellent business performance and receiving full recognition from relevant departments at all levels and all sectors of society. It has successively obtained the dozens of honorary qualifications awarded by the high level as a specialized, refined, and new enterprise, and multiple research and development projects have been supported by the department of science and technology.

15+

Patent of invention

50+

Utility patent

50+

ID design patent

45+

software copyright

10+

Copyright of writings



Application



Laboratory

Ultrasonic cleaning equipment ensures high purity and repeatability of experiment vessels such as test tubes, culture dishes, beakers, etc. Cell disrupters play a key role biological and molecular biology research. They provide the precision and controll ability required for in-depth research. Our Instrument provides strong suppoifor scientific research in universities.



Medical and Health Care

Faced with the challenges brought by the strictest standards in the medical industry, our vacuum medical cleaning equipment can easily handle the cleaning of processing or recycle. The high-frequency waves generated by ultrasonic oscillation can efficiently remove dirt and microorganisms on the surface of the equipment, ensuring that medical devices meet the cleanliness requirements of industry standards.



Bioengineering

Bioengineering is crucial for the development of society, as it has spurred scientific innovation and propelled progress in the biomedical field. Our ultrasonic cleaning equipment is used for cleaning and purifying experimental vessels and biological samples, as well as cleaning cell culture equipment. The application of cell disrupters in fields such as biological research, pharmaceuticals, and gene editing contributes to the advancement of cell fragmentation



Environmental Engineering

In environmental engineering, ultrasonic cleaning machine and cell disrupters play a crucial role in ensuring the reliability and accuracy of data. Ultrasonic cleaning instruments ensure the cleanliness of samples and equipment, while cell disrupter device are used to extract key biomolecules and help monitor microorganisms and biomarkers. Not only does it provide efficient analytical methods, but it also ensures the reliability of environmental data, which contributes to the protection and improvement of ecosystems



Food Engineering

Our ultrasonic cleaning device efficiently removes dirt, microorganisms, and residues from the surface of food through high-frequency vibration of ultrasonic waves, ensuring food hygiene and safety. The cell disruptor utilizes the mechanical effect of ultrasound to effectively rupture cell walls and structures, releasing useful biomolecules such as enzymes and proteins for food processing and analysis. This improves the efficiency and quality of food engineering, reduces waste generation, and promotes sustainable food production.

Ultrasonic Cleaner

Product description

Ultrasonic cleaner is a device that utilizes the principle of ultrasonic vibration to rapidly form and rupture tiny bubbles in the cleaning solution, generating strong impact force and micro flow, thereby achieving efficient and thorough cleaning of the surface and micro pores of the workpiece. Its working principle is to vibrate the solvent molecules in the cleaning solution at high frequencies through ultrasonic oscillation, forming tiny bubbles soaking in liquid continuously expands and ruptures, releasing enormous impact energy to remove dirt and deposits from the surface of the workpiece.

Customized frequency: Dual frequency, tri frequency, quad frequency, penta frequency, or various high and low single frequencies can be customized. The ultrasonic frequency can be customized within the range 15-1000KHZ.

Working principle

The ultrasonic cleaning device converts the ultrasound energy of the power frequency source into mechanical vibration through a transducer, and radiates the ultrasonic waves into the cleaning solution in the cleaning tank. The microbubbles in the cleaning solution are rapidly enlarged and ruptured by ultrasonic waves, generating high-strength shear forces on the sample to achieve cleaning, extraction, emulsification, accelerated dissolution, crushing, dispersion and other effects

Functions Efficient Cleaning

The ultrasonic machine especially effectively Clean the pollutants that cannot be thoroughly cleaned by ordinary water-based cleaning equipment which only works on the surface and can not come into the interior, such as organic matter, oxides, and trace oil stains on metals, residual glue residue after laser welding, and removal of residual rosin after welding in the industrial field.

Accelerated reaction

The vibration of ultrasound can accelerate the rate of chemical reactions because it can promote better contact between reactants and provide more favorable reaction conditions. This is particularly important in chemical synthesis and drug synthesis.

Material handling

Ultrasonic cleaning equipment can be used to process various materials, including metals, ceramics, plastics, etc.It can effectively clean and treat both the surface and interior of materials.

Emulsification and dispersion

The action of ultrasound can form tiny emulsion droplets in liquids, which helps with the emulsification process. In addition, in particle dispersion, ultrasound can effectively disperse particles, prevent their agglomeration, and improve dispersibility.

Extract

Ultrasonic cleaning equipment can increase the mass transfer rate between solvent and sample during the extraction process, thereby improving the extraction efficiency. This is very useful for extracting compounds or drugs from raw materials such as plants and animals.

Degassing

Ultrasonic cleaning equipment can be used to remove bubbles from liquids to achieve the effect of degassing. This is very useful in experiments or preparation processes that require precise environments.

Gentle treatment

Ultrasonic cleaning is usually a gentle treatment method that is more conducive to maintaining the original properties of materials compared to some intense physical or chemical treatment methods.

Experimental control

Advanced ultrasonic cleaning equipment is usually equipped with precise temperature and vibration control systems, which can provide more accurate experimental conditions and better experimental control.

Model: SN-H Constant Temperature Ultrasonic Cleaning Device

PRODUCT DESCRIPTION >>

The constant temperature ultrasonic cleaning instrument is a specialized instrument developed for temperature controlled and ultrasonic chemical reactions, chemical synthesis, biopharmaceutical synthesis, biomaterial degradation, recombination, traditional Chinese medicine extraction, and precision instrument component temperature controlled cleaning. This instrument is easy to use with adjustable ultrasonic power, time, reaction temperature, full touch screen control, intelligent protection, memory storage and other functions, which can meet the different experimental requirements of experimenters.

Product Features>>

- 1.Exquisite appearance: streamlined integrated body, SPCC steel plate and nano coating, beautiful, wear-resistant and easy to clean;
- 2.Residual free inner liner: SUS304 stainless steel, smooth inner liner without liquid residue, corrosion-resistant, durable;
- 3.Power outage protection: automatic memory of working parameters with automatic protection function;
- 4.Flexible parameters: Time/power can be flexibly set;
- 5.Refrigeration function: The high-pressure refrigeration compressor can quickly cool down from 90 ℃ to 5 ℃;
- 6.Heating function: using PID algorithm module, precise control of heating, heating temperature can reach 90 ℃;
- 7.LCD screen: 5 inch color touch screen, real-time display of cleaning process data;
- 8.Cooling system: active three-dimensional cooling system, louver structure comprehensive protection;
- 9.Excellent silence: can achieve a silent state of 55-65 decibels during work;
- 10.Ultrasonic system: precision vibration head, 360 ° all-round wave transmission, durable and strong;
- 11.Safety protection: automatic temperature detection, grounding, voltage and current protection, etc;
- 12.Temperature control protection: high-precision heating element, constant temperature system, temperature difference within $\pm 0.5^{\circ}\text{C}$;
- 13.Pulse degassing: intermittent frequency modulation pulse work, discharge bubbles, improve ultrasonic cavitation effect;
- 14.Liquid level monitoring: contactless module, real-time monitoring of liquid level, Protection of low liquid level



Technical parameters

Model	Capacity	Ultrasonic Power	Temp	Frequency	Inner Tank Size	Cool Power	Heating Power
SN-H10	10L	360W	5-90℃	40KHz	300*240*150mm	500W	700W
SN-H15	15L	480W	5-90℃	40KHz	300*240*200mm	500W	700W
SN-H22	22L	720W	5-90℃	40KHz	500*300*150mm	1800W	1400W
SN-H30	30L	840W	5-90℃	40KHz	500*300*200mm	1800W	1400W
SN-H38	38L	960W	5-90℃	40KHz	500*300*250mm	1800W	3000W
SN-H54	54L	1200W	5-90℃	40KHz	600*300*300mm	2400W	3000W
SN-H72	72L	1400W	5-90℃	40KHz	600*400*300mm	3500W	4500W
SN-H90	90L	1800W	5-90℃	40KHz	600*500*300mm	3500W	4500W
SN-H108	108L	2100W	5-90℃	40KHz	600*600*300mm	7000W	6000W

Model: SN-J Desktop Silent Cell Ultrasonic Cleaner

PRODUCT DESCRIPTION>>

Benchtop silent ultrasonic cleaning equipment has been widely used in scientific research, petroleum, chemical, light industry, metallurgy, machinery, transportation, national defense and other industries. It is currently the most ideal high-efficiency and high-precision cleaning equipment for deep cleaning of instruments, meters, electronic devices, circuit boards, semiconductor silicon wafers, magnetic materials, electroplated parts, hardware parts, optical lenses and spare parts, audio heads, polyester filter cartridges, spinnerets, latex molds, medical equipment, glassware, jewelry, clock parts, precision hardware parts, bearings, oil nozzles, oil pumps and complex geometric components in mechanical manufacturing, especially for cleaning dirt on deep holes, blind holes, concave and convex surfaces

Product Feature>>

- 1.Exquisite appearance: streamlined integrated body, SPCC steel plate and nano coating, beautiful, wear-resistant and easy to clean;
- 2.Residual free inner liner: SUS304 stainless steel, smooth inner liner without liquid residue, corrosion-resistant, durable;
- 3.Power outage protection: automatic memory of working parameters with automatic protection function;
- 4.Flexible parameters: Time/power can be flexibly set;
- 5.Heating function: using PID algorithm module, precise control of heating, heating temperature can reach 95 ℃;
- 6.LCD screen: 5-inch color touch screen, real-time display of cleaning process data;
- 7.Ultimate silence: can achieve a silent state of 55-63 decibels during work;
- 8.Ultrasonic system: precision vibration head, 360 ° all-round wave transmission, durable and strong;
- 9.Safety protection: automatic temperature detection, grounding, voltage and current protection, etc;
- 10.Temperature control protection: The high-precision heating element is matched with the constant temperature system, and the temperature is precisely controlled within $\pm 1^{\circ}\text{C}$ range;
- 11.Pulse degassing: intermittent frequency modulation pulse work, discharge bubbles, improve ultrasonic cavitation effect;
- 12.Liquid level monitoring: contactless module, real-time monitoring of liquid level, low liquid level protection;



Technical parameters

Model	Capacity	Ultrasonic Power	Temp	Frequency	Inner tank size	External size	Heating Power
SN-J03	3L	120W	20-95 ℃	40KHz	240*135*100mm	450*360*415mm	400W
SN-J05	5L	180W	20-95 ℃	40KHz	300*150*100mm	540*380*410mm	400W
SN-J07	7L	240W	20-95 ℃	40KHz	300*150*150mm	540*380*460mm	500W
SN-J10	10L	360W	20-95 ℃	40KHz	300*240*150mm	540*470*510mm	500W
SN-J15	15L	480W	20-95 ℃	40KHz	300*240*200mm	540*470*560mm	500W
SN-J22	22L	720W	20-95 ℃	40KHz	500*300*150mm	710*506*510mm	1000W
SN-J30	30L	840W	20-95 ℃	40KHz	500*300*200mm	710*506*560mm	1500W
SN-J38	38L	960W	20-95 ℃	40KHz	500*300*250mm	710*506*610mm	1500W

Model:SN-Y: Medical Ultrasonic Cleaner machine

PRODUCT DESCRIPTION>>

Medical ultrasonic cleaning machines utilize the physical and chemical effects generated by high-frequency ultrasound to effectively clean and disinfect medical equipment and devices. Its working principle is to remove dirt, bacteria, and pollutants through ultrasonic oscillation and solution action, ensuring thorough cleaning of the surface of medical devices.

Product Feature>>

- 1.Exquisite appearance: Integrated round body, beautiful and easy to clean;
- 2.Residual free inner liner: made of SUS304 stainless steel, with no liquid residue and corrosion resistance;
- 3.Power outage protection: working parameter memory, automatic protection function;
- 4.Adjustable time: 1-960 minutes of working time setting, for long-term continuous work;
- 5.Adjustable power: 0% -100% linear stepless adjustment;
- 6.Heating function: PID algorithm control, up to 95 ° C;
- 7.LCD screen: 7-inch intelligent touch screen, clear display, convenient operation;
- 8.Ultrasonic system: professional grade shock head, 360 ° all-round wave transmission, precise and durable;
- 9.Safety protection: temperature control, grounding, overvoltage, overcurrent, air switch protection;
- 10.Temperature control protection: high-precision PID control, temperature difference within $\pm 1^{\circ}\text{C}$;
- 11.Pulse degassing: intermittent frequency modulation pulse work, discharge bubbles, improve ultrasonic cavitation effect;
- 12.Liquid level monitoring: contactless monitoring, low liquid level protection, real-time liquid level monitoring;
- 13.Intelligent storage: 20 sets of operation program data storage;
- 14.Visual electronic control flip cover: The flip cover has a transparent visual window, an electronic control operation slot cover, can be controlled by touch screen, and can be operated by foot kicking at the bottom;
- 15.Flexible anti pinch: The electric control door adopts a flexible soft drive structure, which can prevent the flip cover from applying additional clamping force in case of misoperation;
- 16.Electric control drainage: It adopts a hand electric integrated control of the inlet and outlet ball valves, making it convenient to quickly execute the inlet and outlet, with two modes of execution.



Technical parameters

Model	Capacity	Ultrasonic Power	Temperature	Frequency	Inner Groove Size	Time Control	Heating Power
SN-38Y-40	38L	900W	20-95 C°	40KHz	500X300X250mm	0-960min	1.5KW
SN-53Y-40	53L	1500W	20-95 C°	40KHz	500X350X300mm	0-960min	1.5KW
SN-77Y-40	77L	1800W	20-95 C°	40KHz	550X400X350mm	0-960min	3KW
SN-99Y-40	99L	2400W	20-95 C°	40KHz	550X450X400mm	0-960min	3KW
SN-96Y-40	96L	2400W	20-95 C°	40KHz	800X300x400mm	0-960min	3KW
SN-135Y-40	135L	3000W	20-95 C°	40KHz	600X500X450mm	0-960min	4.5KW
SN-175Y-40	175L	3600W	20-95 C°	40KHz	700X500X500mm	0-960min	6KW
SN-264Y-40	264L	4500W	20-95 C°	40KHz	800X600X550mm	0-960min	6KW
SN-360Y-40	360L	5400W	20-95 C°	40KHz	1000X600x600mm	0-960min	9KW
SN-540Y-40	540L	7500W	20-95 C°	40KHz	1000X900x600mm	0-960min	18KW
SN-960Y-40	960L	10800W	20-95 C°	40KHz	1200X1000x800mm	0-960min	24KW

Model:SNY-LZ Vacuum Medical Ultrasonic Cleaning Machine

PRODUCT DESCRIPTION >>

The vacuum medical ultrasonic cleaning device adopts the most advanced digital circuits and integrated circuits internationally. The product features novel structure, advanced circuits, reliable operation, high efficiency, low noise, and high cleanliness, and is widely used in operating rooms, laboratories, testing rooms, supply rooms, dentistry, disinfection centers, and other departments of medical institutions such as hospitals. It is equipped with fully effective multi enzyme cleaning agents, lubricants, pure water, etc. Special medical cleaning agents are suitable for cleaning various medical surgical instruments, scissors, tweezers, dressing bowls, beakers, bottles and other medical equipment.

Product Feature >>

- 1.Thickened inner liner: High strength SUS304 stainless steel, thick and corrosion-resistant, can withstand vacuum pressure of 100Kpa;
- 2.Power outage protection: automatic memory of working parameters with automatic protection function;
- 3.Flexible parameters: Time and power can be flexibly set;
- Heating function: using PID algorithm module, precise control of heating, heating temperature can reach 90 ° C;
- 4.LCD screen: inch color touch screen, real-time display of cleaning process data;
- 5.Ultrasonic system: imported medical grade transducer, precise and durable, 360° all-round cleaning, multifunctional medical equipment cleaning;
- 6.Safety protection: automatic temperature detection, grounding, voltage ,current protection, etc;
- 7.Precise temperature control: High precision heater with PID algorithm, temperature difference control within $\pm 2^{\circ}\text{C}$;
- 8.Reduced pressure degassing: using a reduced pressure vacuum pump to remove bubbles and improve cleaning efficiency;
- 9.Intelligent storage: supports 20 groups operation program data storage;
- Visual electronic control panel: transparent window, observation of cleaning conditions, multiple control modes, flexible and easy to use;
- 10.Flexible anti-pinch: The electric control door adopts a flexible soft structure, which can prevent the flip cover from applying additional clamping force in case of misoperation;
- 11.Electric control drainage: Electric control inlet and outlet ball valve, convenient and easy operation;
- 12Automatic liquid addition: Built in multiple liquid circuit systems, programs can be set according to requirements;
- 13.One-click fully automatic cleaning: multi process automatic cleaning, sound and light alarm reminder;
- 14.Data printing: Real time printing of work data for easy viewing;
- 15.Data storage: Long term record cleaning data for easy traceability.



Technical parameters

Model	Capacity	Ultrasonic Power	Control Mode	Frequency	Inner Groove Size	Opening Method	Power	Vacuum
SNY-LZ90	90L	1500W	PLC	40KHz	650*400*350mm	electric	12KW	-85kpa
SNY-LZ110	110L	1800W	PLC	40KHz	680*430*380mm	electric	15KW	-85kpa
SNY-LZ130	130L	2400W	PLC	40KHz	700*450*400mm	electric	18KW	-85kpa

Model:SN-S Laboratory ultrasonic cleaning machine

PRODUCT DESCRIPTION >>

Laboratory ultrasonic cleaning machine is a specialized equipment for cleaning medical equipment, laboratory vessels, industrial parts. Its characteristic is that it has a single cleaning tank, which is filled with cleaning solution. The ultrasonic generator generates high-frequency ultrasonic waves, causing the cleaning solution to produce dense small bubbles and rupture, generating impact force and micro flow. It can efficiently remove dirt, bacteria and pollutants from the surface and microstructure of items, ensuring thorough cleaning and disinfection.

Product Feature >>

- 1.Exquisite appearance: sturdy and square body, beautiful and easy to clean;
- 2.Residual free inner liner: Made of SUS304 stainless steel, the inner liner is smooth, liquid free, and corrosion-resistant;
- 3.Power outage protection: working parameter memory, automatic protection function;
- 4.Adjustable time: 1-960 minutes of working time setting, long-term continuous work;
- 5.Adjustable power: Linear adjustment of 0% -100%;
- 6.Heating function: PID algorithm control, heating temperature can reach up to 95° C;
- 7.LCD screen: inch intelligent touch screen, clear display;
- 8.Ultrasonic system: professional grade transducer, capable of emitting waves in all directions;
- 9.Safety protection: temperature control, grounding, overvoltage, overcurrent, air switch protection;
- 10.Temperature control protection: high-precision PID control, temperature difference within ±2 °C;
- 11.Pulse degassing: intermittent frequency modulation pulse work, discharge bubbles, improve ultrasonic cavitation effect;
- 12.Intelligent storage: 10 groups operation program data storage.



Technical Parameter

Model	Capacity	Ultrasonic Power	Temperature	Frequency	Inner Groove Size	Time Control	Heating Frequency
SN-38S	38L	600W	20-95 C°	40KHz	500*300*250mm	0-960min	1.5KW
SN-53S	53L	900W	20-95 C°	40KHz	500*350*300mm	0-960min	1.5KW
SN-77S	77L	1200W	20-95 C°	40KHz	550*400*350mm	0-960min	3KW
SN-99S	99L	1500W	20-95 C°	40KHz	550*450*400mm	0-960min	3KW
SN-96S	96L	1500W	20-95 C°	40KHz	800*300*400mm	0-960min	3KW
SN-135S	135L	1800W	20-95 C°	40KHz	600*500*450mm	0-960min	4.5KW
SN-175S	175L	2400W	20-95 C°	40KHz	700*500*500mm	0-960min	6KW
SN-264S	264L	3000W	20-95 C°	40KHz	800*600*550mm	0-960min	6KW
SN-360S	360L	3600W	20-95 C°	40KHz	1000*600*600mm	0-960min	9KW
SN-540S	540L	5400W	20-95 C°	40KHz	1000*900*600mm	0-960min	18KW
SN-960S	960L	7200W	20-95 C°	40KHz	1200*1000*800mm	0-960min	24KW

Model:SN-FB Explosion Proof Ultrasonic Cleaner

PRODUCT DESCRIPTION >>

The explosion-proof ultrasonic cleaning device consists of explosion-proof control electrical box, explosion-proof generator, explosion-proof sleeve, explosion-proof switch, sealed vibration plate and other explosion-proof components above the national standard BT4 level. Make the product suitable for various high-risk explosive locations, safe and reliable, durable, and widely used in flammable and explosive pharmaceutical factories, nuclear industry, polymer material experiments, petrochemical industry, aerospace, high-risk flammable and other places

Product Feature >>

- 1.Explosion proof design: using explosion-proof electrical cabinets to block flammable and explosive gases and electrical equipment the contact possibility of unit ;
- 2.Safety and Explosion proof: Composed of national standard explosion-proof electrical boxes and other explosion-proof accessories, it is safe and reliable;
- 3.Strong adaptability: can be directly used with solvents such as alcohol, kerosene, hydrocarbons, ethanolanes, etc;
- 4.Module design: The entire machine adopts modular design for various functions, which can be fully explosion-proof, partially explosion-proof, refrigeration and constant temperature, flexible matching and easy maintenance;
- 5.Optional functional modules:
 - *Ultrasonic cleaning: explosion-proof generator, explosion-proof control electrical box;
 - *Refrigeration and Heating Constant Temperature: Explosion proof Refrigerator, Explosion proof Heating Tube, Explosion proof Sensor, Explosion proof Control electrical box;
 - *Filtering and cleaning: explosion-proof water pump, explosion-proof liquid level sensor, explosion-proof control electrical box;
 - *Throwing lifting: explosion-proof motor, explosion-proof sensor, explosion-proof control box



Technical Parameter

Model	Capacity	Ultrasonic Power	Temperature	Frequency	Inner Groove Size	Time Control	Explosion Proof Section	Heating Frequency
SN-FB38S	38L	600W	20-95 C°	40KHz	500X300X250mm	0-960min	Control box/generator	1.5KW
SN-FB53S	53L	900W	20-95 C°	40KHz	500X350X300mm	0-960min	Control box/generator	1.5KW
SN-FB77S	77L	1200W	20-95 C°	40KHz	550X400X350mm	0-960min	Control box/generator	3KW
SN-FB99S	99L	1500W	20-95 C°	40KHz	550X450X400mm	0-960min	Control box/generator	3KW
SN-FB96S	96L	1500W	20-95 C°	40KHz	800X300X400mm	0-960min	Control box/generator	3KW
SN-FB135S	135L	1800W	20-95 C°	40KHz	600X500x450mm	0-960min	Control box/generator	4.5KW
SN-FB175S	175L	2400W	20-95 C°	40KHz	700X500X500mm	0-960min	Control box/generator	6KW
SN-FB264S	264L	3000W	20-95 C°	40KHz	800X600x550mm	0-960min	Control box/generator	6KW
SN-FB360S	360L	3600W	20-95 C°	40KHz	1000X600X600mm	0-960min	Control box/generator	9KW
SN-FB540S	540L	5400W	20-95 C°	40KHz	1000X900X600mm	0-960min	Control box/generator	18KW
SN-FB960S	960L	7200W	20-95 C°	40KHz	1200X1000X800mm	0-960min	Control box/generator	24KW

Model:SN-D Laboratory ultrasonic cleaning machine

PRODUCT DESCRIPTION >>

The laboratory ultrasonic cleaning machine can be used for: ultrasonic cleaning, sample pretreatment, ultrasonic water bath, ultrasonic oscillation, emulsification, mixing, extraction, dispersion, elimination, degassing, cell crushing catalytic reaction, and assistance functions such as dissolution, acceleration of chemical reactions, viscosity reduction of adhesive liquids, semiconductor silicon wafers, new materials and energy, scraper extraction, high-speed magnetic materials for smoke and other applications.

Product Feature >>

- 1.Panel control: Inch LCD color screen; AUTO touch button operation, sensitive control, no failure;
 - 2.Material structure: The whole machine is made of SUS304 stainless steel laser cutting integrated molding, easy to clean and easy to discharge;
 - 3.Electric energy design: using German Infineon IGBT core memory chip, with frequency sweep degassing function, high frequency stability, and low energy consumption;
 - 4.Exquisite appearance: Made of nano black titanium stainless steel material, anti fingerprint technology, the whole machine adopts experimental instrument style design, streamlined exterior view design;
 - 5.Ultrasonic design: Each ultrasonic transducer has a rated transmission power of 50W and a frequency of 40KHZ. The power can be adjusted arbitrarily by 0-100%,Circuit sound energy conversion efficiency;
 - 6.Temperature control design: using PT100 high-precision temperature controller, accurate temperature, real-time water temperature display; Heating uses ceramic heating plates to increase the temperature fast and uniform;
 - 7.Safety design: adopting automatic buffering protection during startup, temperature control protection, over current and over voltage protection, anti-static grounding protection system, etc.
- Dual frequency optional: can choose to convert 28KHz, 45KHz (optional 45KHz, 80KHz)



Technical Parameter

Series	Model	Inner Groove Size	Capacity	Ultrasonic Power	Time Setting	Ultrasonic Frequency	Power
28kHz low frequency	JM-03D-28	240*135*100mm	3.2L	0-120W	1-999min	28khz	400W
	JM-05D-28	300*150*100mm	4.5L	0-180W	1-999min	28khz	400W
	JM-07D-28	300*150*150mm	6.5L	0-180W	1-999min	28khz	500W
	JM-10D-28	300*240*150mm	10L	0-240W	1-999min	28khz	500W
	JM-15D-28	300*240*200mm	14.5L	0-360W	1-999min	28khz	500W
	JM-16D-28	330*300*150mm	15L	0-360W	1-999min	28khz	600W
	JM-20D-28	330*300*200mm	20L	0-480W	1-999min	28khz	600W
	JM-23D-28	500*300*150mm	22.5L	0-480W	1-999min	28khz	800W
	JM-30D-28	500*300*200mm	30L	0-600W	1-999min	28khz	1000W
	JM-38D-28	500*300*250mm	38L	0-720W	1-999min	28khz	1000W
40kHz intermediate frequency	JM-03D-28	240*135*100mm	3.2L	0-120W	1-999min	40khz	400W
	JM-05D-28	300*150*100mm	4.5L	0-180W	1-999min	40khz	400W
	JM-07D-28	300*150*150mm	6.5L	0-180W	1-999min	40khz	500W
	JM-10D-28	300*240*150mm	10L	0-240W	1-999min	40khz	500W
	JM-15D-28	300*240*200mm	14.5L	0-360W	1-999min	40khz	500W
	JM-16D-28	330*300*150mm	15L	0-360W	1-999min	40khz	600W
	JM-20D-28	330*300*200mm	20L	0-480W	1-999min	40khz	600W
	JM-23D-28	500*300*150mm	22.5L	0-480W	1-999min	40khz	800W
	JM-30D-28	500*300*200mm	30L	0-600W	1-999min	40khz	1000W
	JM-38D-28	500*300*250mm	38L	0-720W	1-999min	40khz	1000W

Series	Model	Inner Groove Size	Capacity	Ultrasonic Power	Time Setting	Ultrasonic Frequency	Power
80KHz high frequency	JM-03D-80	240*135*100mm	3.2L	0-120W	1-999min	80khz	400W
	JM-05D-80	300*150*100mm	4.5L	0-180W	1-999min	80khz	400W
	JM-07D-80	300*150*150mm	6.5L	0-180W	1-999min	80khz	500W
	JM-10D-80	300*240*150mm	10L	0-240W	1-999min	80khz	500W
	JM-15D-80	300*240*200mm	14.5L	0-360W	1-999min	80khz	500W
	JM-16D-80	330*300*150mm	15L	0-360W	1-999min	80khz	600W
	JM-20D-80	330*300*200mm	20L	0-480W	1-999min	80khz	600W
	JM-23D-80	500*300*150mm	22.5L	0-480W	1-999min	80khz	800W
	JM-30D-80	500*300*200mm	30L	0-600W	1-999min	80khz	1000W
	JM-38D-80	500*300*250mm	38L	0-720W	1-999min	80khz	1000W
28KHz/45KHz Dual Frequency Series Low Frequency	JM-03D-28/45	240*135*100mm	3.2L	0-120W	1-999min	28/45khz	400W
	JM-05D-28/45	300*150*100mm	4.5L	0-180W	1-999min	28/45khz	400W
	JM-07D-28/45	300*150*150mm	6.5L	0-180W	1-999min	28/45khz	500W
	JM-10D-28/45	300*240*150mm	10L	0-240W	1-999min	28/45khz	500W
	JM-15D-28/45	300*240*200mm	14.5L	0-360W	1-999min	28/45khz	500W
	JM-16D-28/45	330*300*150mm	15L	0-360W	1-999min	28/45khz	600W
	JM-20D-28/45	330*300*200mm	20L	0-480W	1-999min	28/45khz	600W
	JM-23D-28/45	500*300*150mm	22.5L	0-480W	1-999min	28/45khz	800W
	JM-30D-28/45	500*300*200mm	30L	0-600W	1-999min	28/45khz	1000W
	JM-38D-28/45	500*300*250mm	38L	0-720W	1-999min	28/45khz	1000W
45KHz/80KHz Dual Frequency Series High Frequency	JM-03D-45/80	240*135*100mm	3.2L	0-120W	1-999min	45/80khz	400W
	JM-05D-45/80	300*150*100mm	4.5L	0-180W	1-999min	45/80khz	400W
	JM-07D-45/80	300*150*150mm	6.5L	0-180W	1-999min	45/80khz	500W
	JM-10D-45/80	300*240*150mm	10L	0-240W	1-999min	45/80khz	500W
	JM-15D-45/80	300*240*200mm	14.5L	0-360W	1-999min	45/80khz	500W
	JM-16D-45/80	330*300*150mm	15L	0-360W	1-999min	45/80khz	600W
	JM-20D-45/80	330*300*200mm	20L	0-480W	1-999min	45/80khz	600W
	JM-23D-45/80	500*300*150mm	22.5L	0-480W	1-999min	45/80khz	800W
	JM-30D-45/80	500*300*200mm	30L	0-600W	1-999min	45/80khz	1000W
	JM-38D-45/80	500*300*250mm	38L	0-720W	1-999min	45/80khz	1000W

Model:SN-HD Constant low temperature water bath machine

PRODUCT DESCRIPTION >>

A constant temperature low-temperature water bath, also known as a constant temperature low-temperature bath, is a constant temperature source that integrates cooling and heating functions, providing a uniform and constant temperature test environment. Its precise temperature control technology and efficient refrigeration and heating system ensure that the set temperature remains stable within a temperature fluctuation range of 0.2 ℃. Easy to operate, using LCD display and touch sensitive buttons, and equipped with multiple safety protection devices to ensure the safety of the experimental process..

Product Feature >>

- 1.High temperature control accuracy: With advanced temperature control technology and sensors, the temperature control is precise;
- 2.Wide temperature range: covering a temperature range of -5 ℃ to 100 ℃;
- 3.Good stability: efficient refrigeration and heating systems, maintaining a stable set temperature;
- 4.Easy to operate: LCD screen and touch button operation, convenient for users to set parameters and monitor the experimental process;
- 5.Safe and reliable: Multiple safety protection devices ensure the safety of the experimental process;
- 6.Magnetic stirring: equipped with multi-stage speed regulating magnetic stirring device, flexible adjustment;
- 7.Temperature control: Temperature fluctuation range ± 0.2 ℃.



Technical Parameter

Model	Capacity	Temp Accuracy	Refrigeration Capacity	Temperature	Power	Inner Size	Cover	Inlet And Outlet Water	Tank	Power Supply Parameters
SN-HD10	10L	±0.2℃	500W	-5-100℃	500W	300X240X150	Insulated flip cover	hand	Handheld spring tank	220V 50Hz
SN-HD15	14.4L	±0.2℃	700W	-5-100℃	700W	300X240X200	Insulated flip cover	hand	Handheld spring tank	220V 50HZ
SN-HD22	22L	±0.3℃	1500W	-5-100℃	1400W	500X300X150	Insulated flip cover	automatic	Handheld spring tank	220V 50HZ
SN-HD30	30L	±0.3℃	1800W	-5-100℃	1400W	500x300x200	Insulated flip cover	automatic	Handheld spring tank	220V 50HZ
SN-HD38	38L	±0.3℃	1800W	-5-100℃	3000W	500X300X250	Insulated flip cover	automatic	Handheld spring tank	220V 50HZ

Model: SN-PF No contact ultrasonic Cell disrupter

Product Description>>

The non-contact cell disrupter is an automatic frequency tracking cell disruptor, also known as a cup disruptor, used for aseptic fragmentation. It can break chromosomes and cells through a centrifuge tube. Specially designed for the pre-treatment of second-generation sequencing DNA samples and chromatin immunoprecipitation experimental samples, compared to traditional probe contact ultrasonic cell disruptors, non-contact samples can be crushed in a sealed container without producing infectious flying mist. The ultrasonic probe does not come into contact with the sample to avoid cross contamination. The non-contact ultrasonic crusher can achieve unparalleled quality, efficiency, and safety compared to traditional ultrasonic methods.

Product Features>>

- 1.Exquisite appearance: streamlined body, high-quality SPCC steel plate combination nano coating process, wear-resistant and beautiful;
- 2.Flexible parameters: Time/power can be flexibly set;
- 3.LCD screen: 7-inch intelligent color touch screen, clear display;
- 4.Ultrasonic system: energy gathering high-energy transducer, digital drive board,
- 5.capable of quickly processing various types of cells and samples;
- 6.Mode options: Multiple modes are available for automatic and manual jogging;
- 7.Intelligent storage: Create and store 20 sets of operating programs;
- 8.Automatic frequency tracking: real-time adjustment of output frequency;
- 9.Program module: MCU core component, digital tracking, providing dual protection;
- 10.Safety protection: automatic temperature detection, grounding, voltage and current protection, etc;
- 11.Double layered cavity: transparent container interlayer for temperature control and visual operation;
- 12.Zero contamination of samples: Non contact elimination of cross contamination risks and traditional probe wear and debris phenomena;
- 13.High throughput fragmentation: Large area die, large ultrasonic radiation surface, efficient processing of multiple samples;
- 14.Rotating crushing design: The bracket is connected to a rotating motor, which uniformly receives ultrasonic impact and improves the crushing quality.



Technical Parameter

Model	Frequency	Display Mode	Power	Run Time Adjustment	Duty Cycle	Capacity Of Crushing Chamber	Temperature Alarm	Interval Time	Broken Rotating Bracket
SN-PF1	20KHz	7-inch touch screen	1000W	0-960min	0.1-99.9%	1L	0-99.9℃	0-9S	(0.1-2ml) * 6 wells
SN-PF2	20KHz	7-inch touch screen	1000W	0-960min	0.1-99.9%	2L	0-99.9℃	0-9S	(1-2ml) * 16 wells

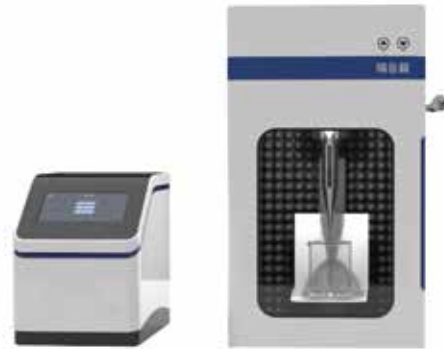
Model :SN-P Single-Channel Ultrasonic Cell disruptor

PRODUCT DESCRIPTION >>

Single channel cell disruptor is an ultrasonic device used in laboratories and small batch liquid processing, which can safely process various organic and inorganic materials. Typical applications include nanotechnology (production of nanoparticle materials and graphene dispersions), cell disputer, sample preparation, homogenization, ChIP analysis, emulsification, depolymerization, and applications in the field of biochemical treatment. This product has won the French Design Award

Product Feature >>

- 1.Exquisite appearance: streamlined body, high-quality SPCC steel plate combination nano coating process, wear-resistant and beautiful;
- 2.Power outage protection: working parameters power-off memory, automatic protection, data storage;
- 3.LCD screen: 7-inch LCD touch screen, clear operation, real-time display of broken data;
- 4.Flexible parameters: Time/power can be flexibly set;
- 5.Ultrasonic system: High energy ultrasonic system for rapid processing of cells and samples;
- 6.Safety protection: automatic temperature detection, grounding, overvoltage and overcurrent protection, etc;
- 7Automatic frequency tracking: self-developed automatic sweep frequency tracking control scheme, real-time adjustment of output frequency;
- 8.Intelligent storage: capable of creating and storing 20 sets of operating programs;
- 9.Noise reduction design: fully enclosed wrapped with noise reducing cotton;
- 10.Program module: MCU core component, digital tracking, providing dual protection;
- 11.Electric lifting: Electric lifting base with precise positioning.



Technical Parameter

Model	Frequency	Display Mode	Power	Standard amplitude rod	Optional variable amplitude pole	Disrupter capacity	temperature alarm	Run time adjustment	Interval output time adjustment	Duty cycle
SN-P150	20-25KHz	7-inch touch screen	150W	6mm	3mm	10-100ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P250	20-25KHz	7-inch touch screen	250W	6mm	3mm	10-200ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P650	20-25KHz	7-inch touch screen	650W	6mm	2/3/10/12/15mm	0.5-500ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P900	20-25KHz	7-inch touch screen	900W	6mm	2/3/10/12/15mm	0.5-600ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P1000	20-25KHz	7-inch touch screen	1000W	6mm	6/10/12/15/20mm	10-700ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P1200	20-25KHz	7-inch touch screen	1200W	10mm	8/12/15/20mm	10-800ml	0-99.9°C	0-960min	0-9S	0.1-99.9%
SN-P1500	20-25KHz	7-inch touch screen	1500W	15mm	12/20mm	10-1000ml	0-99.9°C	0-960min	0-9S	0.1-99.9%

Model:SN-PTD Multi-channel ultrasonic cell disrupter

PRODUCT DESCRIPTION>>

The multi-channel cell disruptor is an ultrasonic device used for simultaneous processing of laboratory and small batch liquids, which can safely process various organic and inorganic materials. Typical applications include nanotechnology (Production of nano particle materials and graphene dispersions), cell lysis, sample preparation, homogenization, ChIP analysis, emulsification, depolymerization, and applications in the field of biochemical treatment.

Product Features>>

- 1.Exquisite appearance: streamlined body, high-quality SPCC steel plate combination nano coating process, wear-resistant and beautiful;
- 2.Energy gathering and frequency equalization: using an energy gathering amplification amplitude rod to uniformly amplify ultrasonic energy;
- 3.Flexible parameters: Time/power can be flexibly set;
- 4.LCD screen: 7-inch LCD touch screen, clear operation, real-time display of broken data;
- 5Automatic frequency tracking: self-developed scanning frequency tracking scheme, real-time frequency modulation based on liquid state;
- 6.Electric lifting: button control, precise positioning;
- 7.Intelligent storage: capable of creating and storing 20 sets of operating programs;
- 8.Ultrasonic system: High energy ultrasonic system for rapid processing of cells and samples;
- 9.Safety protection: automatic temperature detection, grounding, voltage and current protection, etc;
- 10.Noise reduction design: fully enclosed wrapped with noise reducing cotton;
- 11.Program module: MCU core component, digital tracking, providing dual protection;
- 12.High throughput fragmentation: Multiple conversion die heads for efficient processing of multiple samples.



Technical Parameter

Model	Frequency	Display Mode	Power	Number Of Amplitude Rods	Variable Amplitude Pole Diameter	Crushing Capacity	Time Adjustment	Temperature Alarm	Run Time Adjustment
SN-P4TD	20KHz	7-inch touch screen	650W	4	φ6	1-20ml	0-9S	0-99.9°C	0-960min
SN-P6TD	20KHz	7-inch touch screen	1000W	6	φ6	1-20ml	0-9S	0-99.9°C	0-960min
SN-P8TD	20KHz	7-inch touch screen	1800W	8	φ6	1-20ml	0-9S	0-99.9°C	0-960min
SN-P16TD	20KHz	7-inch touch screen	2400W	16	φ6	1-20ml	0-9S	0-99.9°C	0-960min
SN-P24TD	20KHz	7-inch touch screen	2400W	24	φ5	0.5-5ml	0-9S	0-99.9°C	0-960min
SN-P48TD	20KHz	7-inch touch screen	2400W	48	φ3	0.5-4ml	0-9S	0-99.9°C	0-960min

Model:SN-PS Handheld Ultrasonic Cell disrupter

PRODUCT DESCRIPTION>>

Handheld cell disrupter is an ultrasonic processing instrument used in laboratories and multiple scenarios. It is compact in size, easy to carry, and convenient for temporary processing work. It can safely process various organic and inorganic materials. Typical applications include nanotechnology (production of nano particle materials and graphene dispersions), cell lysis, sample preparation, homogenization, ChIP analysis, emulsification, depoly merization, and applications in the field of biochemical treatment.

Product Features>>

- 1.Exquisite appearance: streamlined body, high-quality SPCC steel plate combination
- 2.nano coating process, wear-resistant and beautiful;
- 3.Flexible parameters: Time/power can be flexibly set;
- 4.LCD screen: 7-inch LCD touch screen, clear and operable data, real-time display of fragmentation process;
- 5.Ultrasonic system: energy gathering high-energy transducer, digital drive board, capable of quickly processing various types of cells and samples;
- 6.Mode options: Multiple modes are available for automatic and manual jogging;
- 7.Intelligent storage: capable of creating and storing 20 sets of operating programs;
- 8Automatic frequency tracking: self-developed automatic sweep frequency tracking control scheme, real-time adjustment of output frequency;
- 9.Program module: MCU core component, digital tracking, providing dual protection;
- 10.Safety protection: automatic temperature detection, grounding, voltage and current protection, etc;
- 11.Portable and mobile: Adopting high-density integrated control design, the whole machine is compact and easy to carry.



Technical Parameter

Model	Frequency	Display Mode	Power	Variable Amplitude Pole Diameter	Disrupter Capacity	Interval Time	Control Mode	Run Time Adjustment
SN-PS250	20KHz	5-inch touch screen	250W	Φ6	100ul-10ml	0-9S	Auto/Manual	0-960min

Ultrasonic Cell disruptor

PRODUCT DESCRIPTION >>

The ultrasonic cell disruptor utilizes the principle of high-frequency and high-intensity ultrasonic oscillation to efficiently and thermally break down cells, tissues, or biomolecules, releasing internal biomolecules such as proteins, nucleic acids, etc. This device has the advantages of high crushing efficiency and easy operation, and is suitable for experiments and research in fields such as biology and biochemistry. The product line includes single/multi-channel, handheld, and non-contact ultrasonic cell disruptors. Customizable die size, die shape, and ultrasonic frequency (15-40KHz)

Working Principle >>

Based on the cavitation effect of ultrasound in liquid, the transducer generates high-intensity shear force in the liquid at the top of the tool head through the amplitude lever, forming high-frequency alternating water pressure, causing the cavity to expand and explode, and shattering the cells. Ultrasonic waves have a "cavitation" effect on fluid media, causing the formation of voids and bubbles in the liquid. When they rupture, a strong pressure peak is generated. In addition, the dispersion of polymers is achieved by utilizing the shock wave generated by the cavitation effect of ultrasound acting on liquids.



Technical Parameter

Variable Amplitude Pole Model	Frequency	Power Range	Crushing Capacity
Φ2	20-25KHz	20-250W	0.5-5ml
Φ3	20-25KHz	30-400W	3-10ml
Φ6	20-25KHz	60-650W	10-100ml
Φ8	20-25KHz	80-800W	50-150ml
Φ10	20-25KHz 19.5-20.5KHz	100-950W	100-200ml
Φ12	20-25KHz	100-950W	100-200ml
Φ15	20-25KHz 19.5-20.5KHz	200-950W	200-500ml
Φ20	19.5-20.5-25KHz	400-1200W	500-1000ml
Φ25	19.5-20.5-25KHz	800-1800W	500-1200ml
Φ28	19.5-20.5-25KHz	1000-1800W	500-1500ml

Product Feature >>

- 1.Portable design, easy to move and carry.
- 2.High safety with temperature detection display and over-temperature alarm function.
- 3.Optional modes: Automatic and manual (foot pedal) two working modes;
- 4.Wide sope of application: supports direct processing of samples in enzyme plates and test tubes,with a maximum sample voluem of 10ml
- 6.Independent lithium batter equipped with independent lithium bater,supporting 4 hours of continuous operation(up-250s);
- 7.Flexible parameters: power and ultrasonic time are flexibly adjustable
- Simple operation ,hand-held point control of ultrasound. Imported titanium alloy material, durable and available in multiple models, with different amplitude rods for different host devices.

Model: SN-C Energy gathering constant temperature ultrasonic extractor

Product Description>>

The energy gathering constant temperature ultrasonic extractor is a new type of extraction equipment that combines modern ultrasonic technology and intelligent low-temperature constant temperature system. It uses the cavitation effect of ultrasonic waves to increase the frequency and speed of material molecules, thereby increasing the penetration of solvents and improving the dissolution rate of extracted components. Meanwhile, the secondary effects of its ultrasound, such as thermal and mechanical effects, can also accelerate the diffusion of the extracted components and fully mix with the solvent, thereby achieving efficient and rapid extraction processes.

Product Features>>

- 1.Ultrasonic technology: high-frequency vibration waves enhance the interaction between solvents and extracted molecules, improving extraction efficiency;
- 2.Intelligent low-temperature constant temperature system: The extraction process maintains a constant temperature, ensuring optimal temperature conditions for extraction;
- 3.Touch screen integrated control: easily set data, store data, and control work status;
- 4.Intelligence: Automatically track frequency to ensure the stability and reliability of ultrasonic transmission power;
- 5.Flexible parameters: Adjust ultrasound power, time, and reaction temperature according to different extraction requirements;
- 6.Uniform temperature stirring: DC brushless stirring system ensures maximum reaction and radiation conduction of the liquid during the extraction process;
- 7.High and low temperature reaction: a device for forced cooling and heating, which can be turned on under high or low temperature conditions to achieve temperature difference impact



Technical Parameter

Model	Frequency	Display Mode	Power	Standard Amplitude Rod	Disrupter Capacity	Interval Output Time Adjustment	Mixing Function	Heating Power	Refrigeration Capacity
SN-C650	20-25KHz	7-inch touch screen	650W	6mm	250ml	0-9S	Magnetic stirring	1000W	700W
SN-C1000	20-25KHz	7-inch touch screen	1000W	10mm	500ml	0-9S	Magnetic stirring	1000W	700W
SN-C1200	20-25KHz	7-inch touch screen	1000W	15mm	800ml	0-9S	Magnetic stirring	1000W	700W

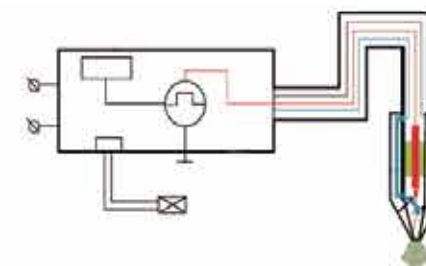
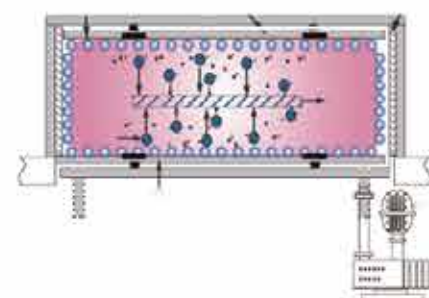
Plasma cleaning equipment

Product Description>>

Plasma cleaning machine is an efficient washing equipment that uses plasma technology to clean, remove impurities and pollutants. Plasma is a gas state composed of charged particles generated by ionization of atoms or molecules in a gas, and has high chemical activity. The plasma cleaning machine utilizes the physical and chemical effects of plasma to efficiently and thoroughly clean and decontaminate the surface of workpieces. Our plasma cleaning machine includes two series of products: vacuum plasma cleaning machine and atmospheric pressure plasma cleaning machine.

Working principle

Both types of plasma cleaning machines rely on plasma to generate high-energy charged particles, which interact with surface pollutants on the workpiece through physical or chemical means to achieve the effect of cleaning and removing pollution. The vacuum plasma cleaning machine operates in a vacuum environment and is suitable for cleaning with advanced cleanliness requirements; The atmospheric pressure plasma cleaning machine works at atmospheric pressure and is suitable for for general cleaning and large-scale cleaning.



Function Introduction>>



Clean

Physical cleaning: Using high-energy particles and photons generated by plasma, it can effectively remove dirt, grease, dust, etc. attached to the surface.
Chemical cleaning: Chemical cleaning is carried out by introducing appropriate gases (such as oxygen, nitrogen, etc.) to remove organic and inorganic pollutants from the surface.



Activate

Surface activity: By using plasma technology to alter the chemical properties of an object's surface, surface activity is increased, making it easier to react with other substances. Surface modification: Used to modify the surface of an object to improve its performance, adhesion, and other characteristics.



Sterilization and disinfection

The reactive oxygen species and other active substances generated by plasma can be used to kill bacteria, viruses, and other microorganisms, and have the function of sterilization and disinfection.



Remove the oxide layer

Clean and activate the metal surface, remove the oxide layer, and improve the adhesion and conductivity of the metal surface

Model：SN-ZP Atmospheric pressure plasma cleaning machine

Product Description>>

The atmospheric pressure plasma cleaning machine uses compressed air to ionize through two sets of electrodes, forming a plasma. The ejected plasma is used to treat the surface of the material, and then quickly and effectively clean the surface of the product. Various module mechanisms can also be combined to achieve surface treatment work in various complex working conditions.

Product Features>>

- 1.Full bridge digital power supply: using PFC full bridge digital plasma power supply, stable output power, strong anti-interference ability, and fast response;
- 2.Flexible adaptation: Multiple types of plasma spray guns and nozzles can be selected, suitable for different occasions, meeting various product and processing environments;
- 3.Portable and compact: The device has a small size, making it easy to carry and move, saving customers space;
- 4.Strong practicality: Strong operability, fully automated operation of equipment, high time control, can be installed in customer equipment production lines in an In line manner, reducing customer investment costs;
- 5.Durable and long-lasting: Long service life, low maintenance and repair costs, easy for customers to control costs;
- 6.Environmental safety: does not cause environmental pollution, and cleanliness will not be subject to secondary pollution;
- 7.High efficiency: capable of surface treatment of small parts, plastic sheets, non-woven fabrics, etc Enhance the compressive strength of the adhesive;
- 8.Significant results: can improve the actual effect of material spraying;
- 9.Time saving: can quickly complete surface treatment, with a large production volume;
- 10.Low cost: The cleaning process is controllable and can effectively save production costs.
- 11.Customized design: Customizable rotating nozzle, single point straight nozzle, linear nozzle, customizable automated flexible moving mechanism, capable of completing various complex surface treatment tasks.



Technical Parameter

Model	Action	Frequency	Power	External Dimensions	Weight	Nozzle	Spray Gun Size
SN-ZP-1000D	Direct inject on type	40KHz	1000W	260*200*360mm	30kg	10mm direct spray nozzle	200*Φ 50mm
SN-XZ-1000D	rotary type	40KHz	1000W	365*165*460mm	40kg	40mm rotating nozzle	200*Φ 50mm

Model：SN-ZK Vacuum plasma cleaning machine

Product Description>>

Under certain vacuum conditions, a vacuum plasma processor applies energy to a gas to transform it into a plasma state. The "active" components of the plasma include ions, electrons, atomic active groups, excited state nuclides (metastable states), photons, etc. By utilizing the properties of these active components, surface dirt and organic matter at the micro and nano levels can be efficiently cleaned. By using plasma to treat the surface of the sample, the purpose of surface cleaning and modification is achieved. Finally, pollutants are converted into a gaseous state and discharged through a continuous airflow using a vacuum pump.

Product Features>>

- 1.Original powerful power supply: Original high-voltage power supply, high-density plasma, excellent cleaning;
- 2.Comprehensive safety protection: temperature, overload, short circuit, misoperation protection;
- 3.Unique discharge technology: special discharge device structure, ensuring stable and uniform plasma;
- 4.Excellent sealing design: high vacuum chamber, powerful vacuum pump;
- 5.High quality product components: using high-quality components from both domestic and international sources to ensure superior equipment performance;
- 6.Ultra low temperature cleaning: meets different temperature requirements without affecting the temperature of the cleaning product;
- 7.Cleaning complex shapes: uniform cleaning of the inner wall of the inner hole, suitable for a variety of complex products;
- 8.Customization service: Chinese, English, and Russian human-machine interface can be customized according to requirements, vacuum pump: oil pump can specify brand; Dry pumps can be specified by brand.



Technical Parameter

Model	Cavity Capacity	Cavity Size	Frequency	Power	Dimensions	Number Of Electrode Layers	Weight (KG)
SN-ZK05D-40	5L	Φ 150*D260	40KHz	200W	W415*D600*H450	1	45
SN-ZK05D-13	5L	Φ 150*D260	13.56MHz	100W	W415*D600*H450	1	45
SN-ZK08D-40	8L	W180*D260*H160	40KHz	200W	W415*D600*H450	1	45
SN-ZK08D-13	8L	W180*D260*H160	13.56MHz	100W	W415*D600*H450	1	45
SN-ZK20D-40	20L	W260*D300*H260	40KHz	500W	W650*D800*H1750	1	200
SN-ZK20D-13	20L	W260*D300*H260	13.56MHz	300W	W650*D800*H1750	1	200
SN-ZK35D-40	36L	W300*D400*H300	40KHz	500W	W650*D800*H1750	1	220
SN-ZK35D-13	36L	W300*D400*H300	13.56MHz	300W	W650*D800*H1750	1	220
SN-ZK60D-40	60L	W400*D400*H400	40KHz	1000W	W750*D800*H1750	1	280
SN-ZK60D-13	60L	W400*D400*H400	13.56MHz	500W	W750*D800*H1750	1	280
SN-ZK100D-40	100L	W400*D500*H500	40KHz	1500W	W750*D800*H1750	1	320
SN-ZK100D-13	100L	W400*D500*H500	13.56MHz	500W	W750*D800*H1750	1	320

Non standard customized products

Product Introduction>>

We series products provide professional solutions for laboratory instrument and equipment needs, seeking customized non standardized experimental instruments to achieve the goal of meeting special conditions for experimental projects. A professional team of engineers with rich experience in developing non-standard customized products in various industries, comprehensive understanding of the latest technological trends, and customized professional solutions to meet the needs and difficulties of users.

Water bath constant temperature oscillator



Intelligent cell ultrasonic disrupter



Stepped Extractor



Industrial cell ultrasonic pulverizer



High-speed disperser



Ultrasonic extraction machine



Continuous flow ultrasonic cell grinder

Our Partner

COOPERATIVE ENTERPRISES



Quality Assurance

