



Chongqing Drawell Instrument Co., Ltd & Shanghai Drawell Scientific Instrument Co.,Ltd via Drawell International Technology Limited is a professional manufacturer and exporter of laboratory equipment and scientific instruments, founded in 1999. Drawell has over 50 employees in total, including 5 departments: Sales Dept. Operation Dept. Supply Chain. Finance Dept. Design Dept. and Administration Dpet. For us, the top priority is to provide our customers with the best service.

Therefore, all our employees are highly qualified after rigorous product training and working principles learning.

Drawell is specialized in R&D research. Our products include laboratory and medical instruments, such as Spectrophotometer, Refractometer, Microscope, Centrifuge, Chromatograph, Incubator, Drying Oven, Polarimeter, Balance, Homogenizer, AAS, Autoclave, Deep Freezer, XRF, XRD, Ultrasonic Cleaner, Freeze Dryer, Elisa Reader, Lab Furniture, FTTR, Water Bath, and etc. They are widely used in Pharmaceutical and food QC, Educational research, Environmental science, Chemical industry and other areas.



To keep sharp on the international market, we are committed to attending overseas

exhibitions, such as Arablabs, PICCTON, Analytica Russia, Lab Africa, Analytica Munich, Analytica Latin America, Lab Thailand and etc. Now Drawell already has established business relationships with customers from more than 50 countries, and enjoyed a good reputation through reliable quality, competitive price and good service. Speaking of service, for all cooperated customers, we provide online installation guide, training and operation instructions to our customers. We're also capable of sending our professional engineers to customers' offices or factories to give local support, as our aim is to build and maintain long-term partnerships.

Drawell always warmly welcome your visit!

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DW-IID Ultrasonic Homogenizer

As a new type of ultrasonic homogenizer, it enjoys complete functions, novel appearance and reliable performance. It has a large-screen display and concentrated control by a central computer. The ultrasonic time and power can be set accordingly. Besides, such functions as sample temperature display, actual frequency display, computerized tracking and automatic trouble warning can all be displayed in the large LCD screen.



Parameters

MODEL No	DW-IID
Frequency	20-25KHz
Power	20-1000W Adjustable
Display	7" TFT Touch display
Temperature alarm range	0-99.9℃
Timer	1-999 minutes
Accessories (Φ)	Φ6
Working method	Interval /continue
Alarm items	Time, temperature, overload
Optional Tip (Φ)	Φ2、3、10、15
Crushing Capacity	100μl -600ml
Duty Ratio (%)	0.1-99.9%
Data storage	20 groups
Display items	Time, power, temperature
Host size& wight	430mm*245mm*300mm&9.9Kg
Sound chamber size &weight	345mm*345mm*535mm &12kg

JY92-IIN Ultrasonic Homogenizer



Parameters

MODEL No	JY92-IIN
Frequency	20-25KHz auto tracking
Power	650W (1%- 100%)
Display	7'' TFT Touch display
Temperature alarm range	0-99.9℃
Timer	0-999 minutes
Accessories (Φ)	Φ6mm
Working method	Interval /continue
Alarm items	Time, temperature, overload
Optional Tip (Φ)	Φ2mm, 3mm, 10mm
Crushing Capacity	100μl -500ml
Duty Ratio (%)	0.1-99%
Supply	220/110Y 50Hz/60Hz
Host size& wight	430mm*245mm*300mm &9.5Kg
Sound chamber size &weight	345mm*345mm*535mm &12kg

JY92-IIDN Ultrasonic Homogenizer



Parameters

MODEL No	JY92-IIDN
Frequency	20-25KHz
Power	900W (1%- 100%)
Display	7'' TFT Touch display
Temperature alarm range	0-99.9℃
Timer	0-999 minutes
Accessories (Φ)	Φ 6mm
Working method	Interval /continue
Alarm items	Time, temperature, overload
Optional Tip (Φ)	Φ2mm,3mm,10mm,12mm,15mm
Crushing Capacity	100μl -600ml
Duty Ratio (%)	0.1-99.9%
Supply	220/110Y 50Hz/60Hz
Host size& wight	430mm*245mm*300mm &9.6Kg
Sound chamber size &weight	345mm*345mm*535mm &12kg

JY98-IIIDN Ultrasonic Homogenizer



Parameters

MODEL No	JY98-IIIDN
Frequency	19.5-20.5KHz
Power	1200W (1%- 100%)
Display	7'' TFT Touch display
Temperature alarm range	0-99.9℃
Accessories (Φ)	Φ 20mm
Working method	Interval /continue
Alarm items	Time, temperature, overload
Optional Tip (Φ)	Φ15mm, 25mm
Crushing Capacity	50- 1000ml
Duty Ratio (%)	0.1-99.9%
Supply	220/110V 50Hz/60Hz
Host size& wight	430mm*245mm*300mm &11.6Kg
Sound chamber size &weight	345mm*345mm*535mm &12kg

JY99-IIDN Ultrasonic Homogenizer



Parameters

MODEL No	JY99-IIDN
Frequency	19.5-20.5KHz
Power	1800W (1%- 100%)
Display	7" TFT Touch display
Temperature alarm range	0-99.9℃
Accessories (Φ)	Φ25
Working method	Interval /continue
Alarm items	Time, temperature, overload
Optional Tip (Φ)	Φ15mm, 28mm
Crushing Capacity	50-1200ml
Duty Ratio (%)	0.1-99.9%
Supply	220/110V 50Hz/60Hz
Host size& wight	430mm*245mm*300mm &11.8Kg
Sound chamber size &weight	345mm*345mm*535mm &12kg

JY88-IIN、 JY96-IIN Ultrasonic Homogenizer

JY88-IIN、 JY96-TIN Ultrasonic Homogenizer, also known as ultrasonic emulsification machine, ultrasonic dispersion machine, should not be dealing with micro-sample



Parameters

MODEL	JY88-IIN	JY96-IIN
Frequency	20-25 KHz	20-25 KHz
Power	250 W (1%- 100%)	150 W (1%- 100%)
Accessories (Φ)	Φ 6mm	Φ6mm
Optional Tip (Φ)	Φ 3mm	Φ 3mm
Crushing Capacity	10-200 ml	10- 100 ml
Temperature alarm range	0-99.9℃	0-99.9℃
Alarm items	Time, temperature, overload	Time, temperature, overload
Duty Ratio (%)	1-99 %	1-99 %
Supply	220/110V 50Hz/60Hz	220/110V 50Hz/60Hz
Power supply chassis Size and Weight	430*245*300mm; 8.5Kg	430*245*300mm; 8.4Kg
Sound chamber size&weight	345*345*535mm; 12kg	345*345*535mm; 12kg

DW08-II

Uncontact Ultrasonic Cell Crusher

Product manual

Non-contact ultrasonic crusher, also called cup crusher, is used for aseptic crushing. It can break chromosomes and crush cells through a centrifuge tube. It is tailor-made for the pretreatment of second-generation sequencing DNA samples and chromatin immunoprecipitation experiments. Compared with the traditional probe contact ultrasonic cell crusher, non-contact samples can be broken in a sealed container without infectivity. Fly fog, the ultrasonic probe does not contact the sample to avoid cross-contamination. The non-contact ultrasonic pulverizer can obtain the unparalleled quality, efficiency and safety of the traditional ultrasonic method.



Performance characteristics

- Sample pollution-free: non-contact type eliminates the risk of cross-contamination and the phenomenon of traditional probe wear and slag
- Safe and reliable: Closed environment enhances biological safety (such as mycobacteria, viruses, etc.)
- Small sample loss: can be used to process small samples, as small as 5pi
- Wide range of applications: suitable for various standard containers, and can handle a variety of samples
- High repeatability: adjustable parameters, precise control of the sample processing process, high repeatability of results
- Isothermal treatment: optional cooling water circulation system to avoid damage to samples caused by excessive temperature

Parameters

Model	DW08-II
Frequency	40 KHz
Power	1800W, adjustable 1-99%
Timing	1-999min
Duty cycle	0.1-99.9%
Tank volume	1.5L
Temperature display	Yes
Broken bracket	1-2ml*16 holes, 5-15ml*8 holes, 10-15ml*8 holes
Power supply	220/110V±0.5 50Hz/60Hz

DW08-III

Uncontact ultrasonic cell crusher

Product manual

Non-contact ultrasonic crusher, also called cup crusher, is used for aseptic crushing. It can break chromosomes and crush cells through a centrifuge tube. It is tailor-made for the pretreatment of second-generation sequencing DNA samples and chromatin immunoprecipitation experiments. Compared with the traditional probe contact ultrasonic cell crusher, non-contact samples can be broken in a sealed container without infectivity. Fly fog, the ultrasonic probe does not contact the sample to avoid cross-contamination. The non-contact ultrasonic pulverizer can obtain the unparalleled quality, efficiency and safety of the traditional ultrasonic method.

Performance characteristics

- Sample pollution-free: non-contact type eliminates the risk of cross-contamination and the phenomenon of traditional probe wear and slag
- Safe and reliable: Closed environment enhances biological safety (such as mycobacteria, viruses, etc.)
- Small sample loss: can be used to process small samples, as small as 5µl
- Wide range of applications: suitable for various standard containers, and can handle a variety of samples
- High repeatability: adjustable parameters, precise control of the sample processing process, high repeatability of results
- Isothermal treatment: optional cooling water circulation system to avoid damage to samples caused by excessive temperature



Parameters

Model	DW08-III
Frequency	40 KHz
Power	2200W, adjustable 1-99%
Timing	1-999min
Duty cycle	0.1-99.9%
Tank volume	3L
Temperature display	Yes
Broken bracket	1-2ml*32 holes, 5ml*20 holes, 10-15ml*17 holes
Power supply	220/110V±0.5 50Hz/60Hz

DW-150(-PS)/ DW-150A(-PS)

Experimental Ultra-high Pressure Homogenizer

Product Description

The DW-150(-PS)/DW-150A(-PS) high-pressure homogenizer launched by Drawell Scientific is a A miniaturized desktop biological sample processing device. The instrument has a built-in cooling circulation system that directly cools the homogenizing head. And optional homogenizing valves for different applications are available. It has high pressure, small volume, easy operation, high processing efficiency and high output.

Large sample size and other characteristics. It is a standard equipment for R&D and production in bioengineering, biopharmaceutical and other industries.



Performance characteristics

1. High crushing efficiency: the material particle size can be uniformly refined to less than 100nm, and the crushing rate is greater than 95%
2. Multifunctional options: diamond crushing valve or Stellite emulsifying valve
3. High level of hygiene: Made of 316L stainless steel material that meets food and drug requirements
4. Temperature controllable: The inlet and outlet of the cooling joint are connected with the constant temperature bath to effectively control the temperature rise of homogeneous materials.
5. Adjustable flow: variable frequency flow control system can adjust the flow according to needs
6. Adjustable pressure: homogeneous pressure 0~1500bar can be adjusted at will
7. Online exhaust: easy to operate, automatically restores pressure adjustment after exhaust
8. Zero residue: built-in drain valve structure can drain materials
9. Invention patent: built-in cooler structural design

Specifications

Model	DW-150(150PS) /DW-150A(150APS)
Power supply	220V/50Hz /three-phase four-wire 380V/50Hz
Flow rate	6-12 L/h / 12-25 L/h
Number of puffs per minute	about 140
Maximum working pressure	1500bar
Maximum product viscosity	2000cP
Motor power	1.5KW 8- level /3.0KW 8-level
Overall dimensions	L800*W460*H450mm /L840*W620*H540mm
Maximum product temperature	90°C
Maximum steam temperature	121°C
Maximum feed particle size	<500 microns

DW-207A Ultra High Pressure Homogenizer

DW-207A ultra-high pressure homogenizer is a miniaturized desktop biological sample processing device, which can realize cell crushing or material homogenization in biological laboratories and small-scale production. Different samples are crushed, emulsified and dispersed by controlling pressure, flow, cavitation, impact, shear and process duration. There is also a cooling circulation system interface, which can effectively control the temperature with a constant temperature bath to improve the homogenization effect. Applicable to universities, research institutes, and enterprise R&D laboratories in the fields of pharmaceuticals, biotechnology, cosmetics, food and beverage, and graphene.



Parameters

MODEL No	DW-207A
Maximum design pressure	2070bar/207Mpa/30015psi
Maximum working pressure	1800bar/180Mpa/26100psi
Maximum sample throughput	15L/H
Minimum sample throughput	15ml
Material residue	0ml (no residue)
Maximum Feed Particles	<500 microns
Flow control	Freely adjust the flow
Sensor	Imported high precision sensor
Built-in cooler	Equipped with a cooler, no consumption of materials, and control of homogeneous temperature
Accessories	Chiller
Exhaust method	Online exhaust
Electrical control	Industrial grade PLC controller
Screen and display	7-inch industrial-grade touch screen + integrated digital display of pressure and temperature + real-time display of pressure
Net weight	95kg
Dimensions	1100*310*460mm

DW-04 Sterile Homogenizer/Stomacher Blender

Product Manual

Aseptic homogenizer, also known as flapping / flapping homogenizer, can make the process of extracting bacteria from solid samples very simple. Just add the sample and diluent to the aseptic sample bag (the maximum sample volume can be processed is 400ml), and then put the sample bag into the flapping homogenizer to complete the sample processing. The products are widely used in microbiological testing of food and drugs, animal tissues and biological samples. Users are widely distributed in hospitals, disease control, commodity inspection, quality inspection, environment, cosmetics, animal husbandry and veterinary systems.

Performance Characteristics

- Visual observation of homogenization process with transparent glass window
- The homogenization time and times are flexible and adjustable
- Seal the liquid overflow prevention system and add disposable consumables without washing utensils
- 10 groups of parameters are saved to facilitate user call
- The sample processing capacity ranges from 3ml to 400ml, which can meet the needs of different customers
- Samples and machines are not in direct contact, bacteria are not damaged, and cross infection is avoided

Instrument Parameters

1. Model: DW-04
2. Display mode: 5-inch touch screen
3. Timing: 30s, 180s, 600s or ∞
4. Tapping speed: 6~9 times / S (in steps of 0.1 times / s)
5. UV disinfection: None
6. Temperature control: None
7. Parameter storage: None
8. Liquid leakage protection: Yes
9. External stroke adjustment: 0-20mm
10. Quick release clapboard: Yes
11. Effective volume: 3-400ml
12. Tapping box: stainless steel
13. Maximum power: 150W
14. Dimension: 430 * 245 * 280mm



DW-09 Sterile Homogenizer/Stomacher Blender

Product Manual

Aseptic homogenizer, also known as flapping / flapping homogenizer, can make the process of extracting bacteria from solid samples very simple. Just add the sample and diluent to the aseptic sample bag (the maximum sample volume can be processed is 400ml), and then put the sample bag into the flapping homogenizer to complete the sample processing. The products are widely used in microbiological testing of food and drugs, animal tissues and biological samples. Users are widely distributed in hospitals, disease control, commodity inspection, quality inspection, environment, cosmetics, animal husbandry and veterinary systems.

Performance Characteristics

- Visual observation of homogenization process with transparent glass window
- The homogenization time and times are flexible and adjustable
- Seal the liquid overflow prevention system and add disposable consumables without washing utensils
- 10 groups of parameters are saved to facilitate user call
- The sample processing capacity ranges from 3ml to 400ml, which can meet the needs of different customers
- Samples and machines are not in direct contact, bacteria are not damaged, and cross infection is avoided

Instrument Parameters

1. Model: DW-09
2. Display mode: 5-inch touch screen
3. Timing: 0~8 hours
4. Tapping speed: 3 ~ 12 times / S (in steps of 0.1 times / s)
5. UV disinfection: None
6. Temperature control: None
7. Parameter storage: 10 groups
8. Liquid leakage protection: Yes
9. External stroke adjustment: 0-20mm
10. Quick release clapboard: Yes
11. Effective volume: 3-400ml
12. Tapping box: stainless steel
13. Maximum power: 150W
14. Dimension: 430 * 245 * 280mm



DW-11 Sterile Homogenizer/Stomacher Blender

Product Manual

Aseptic homogenizer, also known as flapping / flapping homogenizer, can make the process of extracting bacteria from solid samples very simple. Just add the sample and diluent to the aseptic sample bag (the maximum sample volume can be processed is 400ml), and then put the sample bag into the flapping homogenizer to complete the sample processing. The products are widely used in microbiological testing of food and drugs, animal tissues and biological samples. Users are widely distributed in hospitals, disease control, commodity inspection, quality inspection, environment, cosmetics, animal husbandry and veterinary systems.

Performance Characteristics

- Visual observation of homogenization process with transparent glass window
- The homogenization time and times are flexible and adjustable
- Seal the liquid overflow prevention system and add disposable consumables without washing utensils
- 10 groups of parameters are saved to facilitate user call
- The sample processing capacity ranges from 3ml to 400ml, which can meet the needs of different customers
- Samples and machines are not in direct contact, bacteria are not damaged, and cross infection is avoided

Instrument Parameters

1. Model: DW-11
2. Display mode: 5-inch touch screen
3. Timing: 0~8 hours
4. Tapping speed: 3 ~ 12 times / S (in steps of 0.1 times / s)
5. UV disinfection: Yes
6. Temperature control: RT-50C Adjustable
7. Parameter storage: 10 groups
8. Liquid leakage protection: Yes
9. External stroke adjustment: 0-20mm
10. Quick release clapboard: Yes
11. Effective volume: 3-400ml
12. Maximum power: 300W
13. Dimension: 430 * 245 * 280mm

