Industrial Thermostatic Ultra Sonicator with Continous Flow|

Industrail Thermostatic Ultrasonic Processor with Continous Flow

Model No.: BLC-4000w

Application

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The instrument has the functions of constant temperature, temperature control and continuous feeding, with strong expansibility. It is also suitable for the extraction of herbal medicine, the breaking of cell and bacteria, and the dispersion and emulsification of nano chemical materials. **It is suitable for small batch production or providing accurate technical parameters for industrial production in the future.**

It is especially suitable for emulsification and dispersion of various nano materials or pulp (such as graphene or carbon nanotubes) ;
It can also be used for volatile and non-volatile extraction media, various natural active ingredients and natural products ;
It is suitable for the extraction of agricultural and sideline products, melons and fruits, Chinese medicinal materials, terrestrial and marine animals, plants and microorganisms ;
It is suitable for the extraction of natural product ingredients needed by natural food additives, pigments, beverages, medicine, health products, etc .

Product Description

Ultrasonic dispersion equipment is a kind of equipment which is used to disperse the insoluble solid and liquid to form smaller particle mixture or suspension suspension. It can be used in the fields of new energy, medicine, cosmetics, etc. For example: catalyst, matting agent, pigment, graphite, paint coating, alumina, compound fertilizer, filler, herbicide, fungicide, powder emulsion, preparation of nano materials, food sample detection.

The core content of ultrasonic nanotechnology is how to solve the problem of nano particles agglomeration. It is very difficult to get single dispersed nanoparticles because the nanoparticles themselves are easy to agglomerate. How to make the nanoparticles evenly disperse into the matrix is the key technology of nanotechnology. Our **Industrial Thermostatic Ultra Sonicator with Continous Flow (No. BLC-4000W) use the ultrasonic** cavitation to disperse agglomerated particles. It is to put the particle suspension (liquid) which needs to be treated into a super strong sound field and treated with appropriate ultrasonic amplitude.

Due to the inherent characteristics of the agglomeration of powder particles, for some powders

which are not well dispersed in the medium, appropriate amount of dispersant can be added to keep them in a stable state.

Generally, it can reach dozens of nanometers or even smaller. This product is especially used to disperse nano materials (such as carbon nanotubes, graphene, silicon dioxide, etc.) and has good effect.

Product Features

Industrial Thermostatic Ultra Sonicator with Continous Flow (BLC-4000w) is multi slurry internal circulation type, no dead corner in the reactor, high ultrasonic intensity, short emulsification and dispersion time, high efficiency.
The emulsification dispersion extraction time is short, which reduces other useless impurities in the extract, improves the quality of the extracted products, and lays the foundation for the separation and purification process.

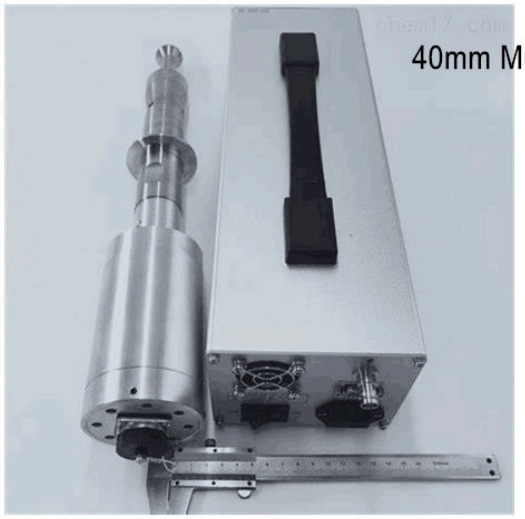
1. The feeding and discharging ports of the reactor can be customized according to the requirements of customers, which can be used for high-speed sample pretreatment.
2. Multi functional circulation extraction equipment, integrated precision design, light weight, small size, convenient and mobile.
3. With independent innovation design of digital integrated circuit, PLC + single chip microcomputer control, touch screen one key operating system, you can execute all kinds of instructions of the operator at will with just a little touch.
4. 4.3 inch TFT touch screen control, the temperature and other working curves can be displayed practically.
5. It Can store 20 sets data. It has the function of data printing.
6. It has the function of alarm prompt and automatic protection.
7. It has the function of operation authority and password restriction.
8. Φ40mm Multi-point lengthened type titanium alloy horn.
9. Equipped with low-temperature constant temperature bath circulator
10. Single time process capacity is 500ml~5L, continuous process capacity is 50-100L/day.
11. 6. 5L-316 jacketed stainless steel reactor with discharge valve.
12. Continuous or pulsed ultrasonic time setting according to your requirement.

Technical Specification

Model	BLC-4000W
Frequence (KHZ)	20KHZ Automatic Tracking
Ultrasonic Power	4000W Adjustable
Random titanium alloy horn (mm)	Φ 40 multipoint lengthening type
Optional horn (mm)	Φ 20、25、30、38、50、60
Single dispersing capacity (ml)	500-5000 (with corresponding probe)
Continuous dispersion capacity (L)	100L / day
Sample temperature measurement and control function	Yes
Input mode	Touch control
Display mode	4.3 inch TFT
Data storage	20 groups
Ultrasonic time setting	Continuous or pulse type can be selected
Maximum total working hours	99H59M59S
Protector	Self diagnosis function, program automatic error correction, overload, over temperature protection, etc
Data storage	Login password protection

Login password protection	Yes
5l-316 stainless steel reactor	Standard configuration (sealed type optional)
Low temperature circulating bath	Standard configuration
Constant temperature function of jacket	Standard configuration
Discharge valve	Standard configuration
Temperature control system	Standard configuration
Automatic feeding function	Optional
Computer communication function	Optional

Note: The products can be customized according to different requirements of users.
The above pictures and data are for reference only. In case of any change, the real object shall prevail



40mm Multi-point lengthened type titanium horn.

20mm、25mm、
30mm、38mm、
50mm、60mm
horn for option