



Prosonic1000

Automatic ultrasonic liquid processing equipment

- Ultrasonic instrument is easy to operate, no heating, due to ultrasonic catalysis, reactants to speed up the mutual reaction
- Accelerates solvent penetration into tissue, accelerates active ingredient into test solvent, and enhances active ingredient presence
- Appropriate ultrasonic energy, can effectively deal with damage to the surface of cells or bacteria structure, sterilization stronger
- Significant savings in test solvent (more than 40% solvent savings), high solution concentration and reduced subsequent reaction energy consumption
- Ultrasonic system can choose any mode to match and combine operation, such as cyclic and static experiments.

Prosonic1000 automatic ultrasonic liquid processing series is CHEERSONIC ultrasonic cell disruption according to the characteristics of enhanced extraction, ultrasonic fluid treatment in the standard components based on the further development of a series of new devices. In addition to this series one machine has the function of natural herbal extract active ingredients, but also has nano-dispersion function. The actual use results show that this series machine can save the time cost and manpower cost of the user by keeping the advantages of the standard components of the ultrasonic liquid processing, and can finish the work alone without other operation and user; This series is designed to reduce installation, operation and maintenance costs; in addition, the series is easy to clean and disinfect.

Prosonic1000 is a pilot plant, which conforms to the experimental research and industrial production. The equipment can be called intelligent bridge to reduce the gap between laboratory test and industrial production. It is the best choice for the development.



Prosonic 1000 automatic ultrasonic liquid processing equipment has applications such as lysis & cell disruption, emulsification, homogenization, dispersing, ultrasonic stripping, ultrasonic nanomaterial assisted preparation, and can be applied to the chemical industry, the electronics industry, pharmaceuticals, nano preparation, graphene preparation, marine engineering and other fields.



-----TECHNICAL SPECIFICATIONS-----

Model	Prosonic 1000
Max Power	1000watts
Frequency	20kHz
Amplitude	50µm
Adjustable Range	50-100%
Temperature Control	Controllable
Flow Rate	25-250L/H
Current	10A
Dimensions	1200*1000*800 mm

①Pump

Reactive liquid through the pump if the pump is opened then follow into the tank, the follow mode as shown in arrow, flowing from right to left to form a loop.

②Tank

The tank into two layers. The inner layer stored reactive liquid to produce sonochemical reaction and the outer layer is filled with water used for cooling water control system.

③Ultrasonic horn

Be customized according to the actual situation. It can choose ultrasonic horn, barbell ultrasonic horn, prism type horn. Made of titanium alloy. Tool length (flange length) range 60-790mm, tool diameter in the range of 3-80mm. The flange can be customized.

④Flowmeter

The flowmeter is used in measuring liquid volume. Liquid circulation will eventually get out of the flowmeter.

⑤Temperature control system (cooling water control system)

If your products be heated easy to deterioration, then cooling water control system will make the water of tank' s outer layer to maintain a normal temperature.

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