

HAND-HELD ULTRASONIC CELL CRUSHER

Product | Applications

It can be used for the disruption of various plants and animals, viruses, cells, and bacteria, and can also be used for emulsification, dispersion, homogenization, extraction, defoaming, cleaning, preparation of nanomaterials, dispersion, and acceleration of chemical reactions.

Product | Introduction

DH-250 Hand-held Ultrasonic Cell Crusher is a versatile and multi-purpose instrument that uses ultrasonic cavitation effect in liquids. It can be used for the crushing of various animals, plants, viruses, cells, and bacteria, as well as for emulsification, dispersion, homogenization, extraction, defoaming, cleaning, and preparation of nano materials, dispersion, and acceleration of chemical reactions, etc.

Hand-held Ultrasonic Cell Crusher is a new product with complete functions and reliable performance. The instrument adopts LED display, and has two working modes, automatic and manual (foot switch). The ultrasonic time and power can be arbitrarily set, the sample temperature can be detected and displayed, and the frequency can be automatically tracked.

Options

| Probe Specifications | Cell Breaking Capacity | Other Options | Model |
|----------------------|------------------------|-----------------------------|----------|
| Φ2mm | 150ul—5ml | Sound Abating Enclosure | DT305 |
| Φ3mm | 200ul—10ml | Rosette Glass Cooling Cells | DT-50BF |
| Φ6mm | 10ml—100ml | Rosette Glass Cooling Cells | DT-100BF |



Product | Features

- ◆ Used for crushing animal and plant cells, bacteria, spores, or tissues, extracting proteins from cells, and conducting scientific cultivation experiments on viruses and vaccines.
- ◆ Accelerates the reaction speed of chemical and physical reactions and accelerates liquid degassing.
- ◆ Used for scientific research analysis such as crude oil dilution, oil-water emulsification, and accelerating crystallization separation, glass pulp preparation, etc.
- ◆ Disperses rare earths, various inorganic minerals, and prepares near-nano latex homogenized mixtures with a particle size of one percent.
- ◆ Quickly and powerfully cleans fluids in micro-holes and blind holes of molds.

Technical | Parameters

| Model | DH-250 | DH-400 |
|---------------------------|--|-----------|
| Power | 250W | 400W |
| Standard Amplitude | Φ3 | Φ6 |
| Optional Amplitude | Φ2 | Φ2 / Φ3 |
| Crushing Capacity | 0.5-100ml | 0.5-300ml |
| Frequency | 19.5-20.5KHz | |
| Temperature Control | Ultrasonic protection with alarm function | |
| Control Mode | Automatic, manual switchable (foot switch optional) | |
| Pulser | Closed-loop 0.1-99s adjustable, open-loop 0.1-99s adjustable | |
| Duty Cycle | 1-99% | |
| Power Supply | 220/110V 50Hz/60Hz | |
| Power Supply Chassis Size | 270*200*140mm | |
| Net Weight | 9.1kg | |
| Host + Transducer Weight | 10.8kg | |
| Outer Packing Size | 510×275×390mm | |