

**CONTINUOUS FLOW
ULTRASONIC DISRUPTOR**



Optional Accessories (Amplitude Bar/Reaction Vessel/Low-Temperature Bath)

* Different specifications of continuous flow reaction vessels, high-capacity stainless steel continuous flow reaction vessels, constant temperature baths, peristaltic pumps, etc.
For detailed configuration plans, please contact our company personnel.

- ◆ Large screen display, intuitive parameter visualization, and convenient touch operation.
- ◆ Versatile functions: Cell disruption, homogenization, separation, extraction, defoaming, cleaning, and accelerating chemical reactions.
- ◆ Alarm functions: Timer, overload, no-load, over-temperature.
- ◆ Customize ultrasonic time, interval time, total time, and power ratio.
- ◆ Easy operation: Central microcomputer control for optimized user interaction.
- ◆ Low noise: Coupled with a soundproof box to minimize noise disturbance.
- ◆ Extended operation time: Supports continuous operation for over 1 hour; Industrial models (3000W/4000W) support continuous ultrasonic function.



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Product Introduction

Continuous Flow Ultrasonic Disruptor/Crusher

Continuous flow ultrasonic homogenizer features a large screen display and centralized control via a central computer. It is primarily used for dispersing and homogenizing low-viscosity samples. The ultrasonic interval time is adjustable, with power ranging from 1% to 99%, and automatic frequency tracking. Automatic fault alarms are included. The unit employs a dual-cup jacketed design, with the cooling liquid compatible for use with a constant temperature bath. The sample cups and amplitude bars can be accessed on-site for easy loading and unloading. For small capacities, the sample can be removed and used as a regular ultrasonic reaction cup. For processing larger capacities and achieving optimal performance, it is recommended to use a mechanical stirrer for pre-mixing samples when working on a flow basis.

Technical Parameters

Model	DH98-IIIDN-L	DH-ZS3000W	DH-ZS4000W
Ultrasonic Frequency (KHz)	19.5~20.5 (Automatically Tracked)		
Ultrasonic Power (Adjustable)	1200W	3000W	4000W
Duty Cycle	1~99%		
Display/Operation Method	4.5-inch TFT Color Touchscreen		
Standard ultrasonic top	Φ15mm	Φ38mm	Φ40mm(Lengthened)
Optional ultrasonic top	Φ20	Φ20/35/38 /40 (Lengthened)/50mm	Φ20/35/38 /40 (Lengthened)/50mm
Disruption Capacity (ml)*	500~1200	500~3000	500~5000
Standard Reaction Vessels	200ml (Glass), 2000ml (Stainless Steel), 5000ml (Stainless Steel)		
Single Ultrasonic Time	0.1~99.9 seconds		
Single Gap Time	0.1~99.9 seconds		
Total Time	1~99 hours, 59 minutes, 59 seconds		
Temperature Control Range*	0 to 100 degrees Celsius (Low-temperature constant temperature equipment needs to be optionally selected)		
Data Storage	20 sets		
Product Weight	16.0 kg	19.0 kg	21.0 kg
Dimensions	Main Unit 410*225*290mm	510*225*290mm	510*225*290mm
Input Power	220/110V 50/60Hz		

*Note:
For continuous circulation and flow of sample processing, a peristaltic pump needs to be configured.
If sample temperature control is required, optional accessories include low-temperature constant temperature equipment and reaction vessels.