



# Ultrasonic Homogenizer (Non-contact) LUHS-B1 Series



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Ultrasonic Homogenizer (Non-contact) is a Cup-type homogenizer. This form offers non-touch homogenization of small volume samples in a high intensity ultrasonic bath. Emulsification of sample occurs in small sealed vials without contact with probe and evades cross-contamination. It can be used for breaking up chromosome and crushing cells aseptically across centrifugal glass tube.

### **LUHS-B10:**

Ultrasonic Homogenizer (Non-contact) LUHS-B10 is a cup-form homogenizer with 700 ml disruption capacity. With 19.5 to 20.5 KHz operation frequency, it is used for disruption of cells, for emulsification, homogenization of varied biological samples with minimum up to 5  $\mu$ L volume. It can be used for breaking up chromosome and crushing cells aseptically across centrifugal glass tube.

### **LUHS-B11:**

Ultrasonic Homogenizer (Non-contact) LUHS-B11 is a cup-form homogenizer with 2 L disruption capacity. With 28 KHz  $\pm$  1 KHz operation frequency, it is used for disruption of cells, for emulsification, homogenization of varied biological samples with minimum up to 5  $\mu$ L volume. It can be used for breaking up chromosome and crushing cells aseptically across centrifugal glass tube.

### **LUHS-B12:**

Ultrasonic Homogenizer (Non-contact) LUHS-B12 is a cup-form homogenizer with 3 L disruption capacity. With 20 KHz  $\pm$  1 KHz operation frequency, it is used for disruption of cells, for emulsification, homogenization of varied biological samples with minimum up to 5  $\mu$ L volume. It can be used for breaking up chromosome and crushing cells aseptically across centrifugal glass tube.

## Features

- ❖ Cup Tip style offers non-contact homogenization of micro scale samples
- ❖ Excludes dregs circumstances of traditional probe
- ❖ Samples are processed in sealed cup tubes eliminating aerosols and enhances biological safety (such as Mycobacterium)
- ❖ Simultaneous processing of multiple vials of sterile or pathogenic samples
- ❖ Programmed uninterrupted rotation of the centrifuge tube facilitates uniform distribution of ultrasonic energy
- ❖ Imperative standard device for ChIP (chromatin immune precipitation) and DNA shear research platforms
- ❖ Higher efficacy, steadfast results and good repeatability
- ❖ Standardized experimental method and advanced parameter settings
- ❖ Optional coolant circulation system to maintain temperature at 4 °C in Eppendorf tube rotating base

## Applications

Used in bimolecular fragmentation, cell disruption, ChIP assay (Chromatin immune precipitation), next generation sequencing DNA, elute membrane proteins, homogeneous emulsification reactions and pre-treatment of ultrasonic exquisite samples.

**Specifications**

Model	LUHS-B10	LUHS-B11	LUHS-B12
Operating frequency	19.5 to 20.5 KHz	28 ± 1 KHz	20 ± 1 KHz
Power consumption	1200 W	1800 W	2200 W
Horn	20 mm		
Total working time	1 to 999 mins		
Duty ratio	0.1 to 99.9 %		
Disruption capacity	700 ml	2 L	3 L
Display	LCD Display		
Temperature Display	Yes ( prevent sample overheating )		
Processing volume	(0.1 to 2ml) × 4	(1 to 2ml) × 16, (10 to 15ml) × 8 5ml × 8	(1 to 2 ml) × 32, (10-15 ml) × 17, 5 ml × 20
Power supply	220 /110 V ± 0.5, 50 Hz / 60 Hz		
Packing Dimension	560 × 440 × 480		
Gross weight	19.4 kg		

**Optional accessories**

Probe (horn) selection				
Probe diameter/ inches	Frequency	Amplitude	Power range	Processing volume
Φ 6 , 1/4 "	20 to 25 KHz	220 μm	60 to 650 W	10 to 100 ml
Φ 10 , 5/12 "	20 to 25 KHz / 19.5 to 20.5 KHz	150 μm	100 to 950 W	100 to 200 ml
Φ 12 , 1/2 "	20 to 25 KHz	150 μm	100 to 950 W	100 to 200 ml
Φ 15 , 5/8 "	20 to 25 KHz / 19.5 to 20.5 KHz	145 μm	200 to 950 W	200 to 500 ml
Φ 18 , 3/4 "	20 to 25 KHz	100 μm	200 to 950 W	200 to 500 ml
Φ 20 , 3/4 "	19.5 to 20.5 KHz	60 μm	400 to 1200 W	500 to 1000 ml