

# Ultrasonic Homogenizer (Sonicator)

LUHS-A1 Series



## Ultrasonic homogenizer (Sonicator) LUHS-A1 series

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Ultrasonic homogenizer (Sonicator) LUHS-A1 series comes with LCD screen, microprocessor controlled system. User can set ultrasonic time/power/ total interval time as per the experimental requirements, can keep amplitude transformation as an optional procedure. It can be used for disruption of cells, for emulsification, homogenization, cleaning, and preparation of nanomaterials, foaming and dispersion of chemicals.

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### Features

- Large LCD screen display
  - Adjustable ultrasonic power and time
  - Use of ultrasonic cavitation method
  - Microcomputer controlled system
  - Memory storage up to 50 groups
  - Frequency automatic tracking, automatic fault alarm
  - Manually set ultrasonic time, power, and interval phase according to experiments
  - Integrated sample temperature control to prevent overheating
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### Application

Used in biology, botany, chemistry, pharmacy, tissue culture, agriculture & other fields of research & testing industry for homogenization and sonication process of test materials.

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## Ultrasonic homogenizer (Sonicator) LUHS-A1 series

### Specification

Model no.	LUHS-A10	LUHS-A11	LUHS-A12
Ultrasonic power	10-150 W	10-250 W	10-650 W
Disruption capacity	0.2-150 ml	0.2-300 ml	0.2-500 ml
Standard horn/probe	Ø6 mm		
Display	LCD display		
Optional probe/horn	Ø2, Ø3, Ø8 mm	Ø2, Ø3, Ø8, Ø10 mm	Ø2, Ø3, Ø8, Ø10, Ø12 mm
Operating frequency	20-25 KHz Automatic tracking		
Temperature control range	RT to 100°C		
Unit details	Host + Sound proof Box + Horn	Host + Sound proof Box + Horn + Transducer	Host + Sound proof Box + Horn
Storage memory	50 sets		
Duty cycle	0.1-99.9%		
Total working time	1 to 999.9 mins		
Packaging Dimension (Host machine + accessories)	490 × 460 × 310 mm		
Packaging Dimension (Sound proof enclosed box)	570 × 370 × 370 mm		
Packaging Gross Weight (Host machine + accessories)	15.85 kg		
Packaging Gross Weight (Sound proof enclosed box)	9.45 kg		
Power Supply	220/110 V		
HS Code	8479820090		

## Ultrasonic homogenizer sonicator LUHS-A1 series

Model no.	LUHS-A13	LUHS-A14	LUHS-A15	LUHS-A16
Ultrasonic power	10 to 900 W	10 to 1000 W	20 to 1200 W	20 to 1800 W
Disruption capacity	0.2-600 ml	0.2 to 800 ml	100 to 1000 ml	50 to 1200 ml
Standard Probe/ Horn	Ø6 mm	Ø6 mm or Ø10 mm	Ø20 mm	Ø20 mm or Ø22 mm
Display	LCD display			
Optional probe/ horn	Ø2, Ø3, Ø8, Ø10, Ø12, Ø15 mm	Ø2, Ø3, Ø8, Ø10, Ø12, Ø15 mm	Ø10, Ø15, Ø22, Ø25 mm	Ø10, Ø15, Ø22, Ø28 mm
Operating frequency	20-25 KHz Automatic tracking	20-25 KHz Automatic tracking	19.5-20.5 KHz Automatic tracking	19.5-20.5 KHz Automatic tracking
Temperature control range	RT to 100°C			
Unit details	Host + Sound proof Box + Horn			
Storage memory	50 sets			
Duty cycle	0.1-99.9%			
Total working time	1 to 999.9 mins			
Packaging Dimension (Host machine + accessories)	490 × 460 × 310 mm	570 × 460 × 340 mm		
Packaging Dimension (Sound proof enclosed box)	570 × 370 × 370 mm	570 × 400 × 400 mm		
Packaging Gross Weight (Host machine + accessories)	15.85 kg	19 kg		

## Ultrasonic homogenizer sonicator LUHS-A1 series

Packaging Gross Weight (Sound proof enclosed box))	9.45 kg	11 kg
Power Supply	220/110 V	
HS Code	8479820090	

### Optional accessories

Accessories no	Name	Details
1	Cooling Chiller	(-5 to 100°C range, 150 mm depth)
2	Horns (with < 1000 W)	All size and shape
3	Horns (with ≥ 1000 W)	All size and shape
4	30 ml jacket beaker	Thin, tall, Durable
5	100 ml jacket beaker	Thin, tall, Durable
6	250 ml jacket beaker	Thin, tall, Durable
7	500 ml jacket beaker	Thin, tall, Durable
8	1000 ml jacket beaker	Thin, tall, Durable
9	2000 ml jacket beaker	Thin, tall, Durable