Ultrasonic Homogenizer (Sonicator)
LUHS-A1 Series

Ultrasonic Homogenizer (Sonicator) LUHS-A10

Ultrasonic Homogenizer (Sonicator) LUHS-A10 is a table-top, multi-function & multi-purpose unit, comes with 150 ml of process capacity and adjustable ultrasonic power of 2 to 150 W. Features 0 to 100°C of temperature control range with adjustable time range and 20 to 25 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ6 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A11

Ultrasonic Homogenizer (Sonicator) LUHS-A11 is a table-top, multi-function & multi-purpose unit, comes with 250 ml of process capacity and adjustable ultrasonic power of 5 to 250 W. Features 0 to 100°C of temperature control range with adjustable time range and 20 to 25 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ6 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A12

Ultrasonic Homogenizer (Sonicator) LUHS-A12 is a table-top, multi-function & multi-purpose unit, comes with 500 ml of process capacity and adjustable ultrasonic power of 5 to 650 W. Features 0 to 100°C of temperature control range with adjustable time range and 20 to 25 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ6 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A13

Ultrasonic Homogenizer (Sonicator) LUHS-A13 is a table-top, multi-function & multi-purpose unit, comes with 600 ml of process capacity and adjustable ultrasonic power of 5 to 650 W. Features 0 to 100°C of temperature control range with adjustable time range and 20 to 25 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ6 or Φ10 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A14

Ultrasonic Homogenizer (Sonicator) LUHS-A14 is a table-top, multi-function & multi-purpose unit, comes with 800 ml of process capacity and adjustable ultrasonic power of 10 to 1000 W. Features 0 to 100°C of temperature control range with adjustable time range and 20 to 25 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection With Φ6 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A15

Ultrasonic Homogenizer (Sonicator) LUHS-A15 is a table-top, multi-function & multi-purpose unit, comes with 1200 ml of process capacity and adjustable ultrasonic power of 20 to 1200 W. Features 0 to 100°C of temperature control range with adjustable time range and 19.5 to 20.5 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ20 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Ultrasonic Homogenizer (Sonicator) LUHS-A16

Ultrasonic Homogenizer (Sonicator) LUHS-A16 is a table-top, multi-function & multi-purpose unit, comes with 1500 ml of process capacity and adjustable ultrasonic power of 20 to 1800 W. Features 0 to 100°C of temperature control range with adjustable time range and 19.5 to 20.5 kHz frequency with automatic tracking. Incorporated with 4.3 inch TFT touch screen, data storage for up to 20 sets and print function, this unit has self-diagnostic function along with login password protection. With Φ20 and Φ22 mm horn, this ultrasonic homogenizer uses high strength ultrasonic power for cavitation effect in liquid and for material ultrasonic processing with protection against program automatic error, over-load, and over- temperature.

Features

❒ A table-top, multi-function & multi-purpose unit, comes with different process capacity

❒ Different horn sizes with high strength ultrasonic power

❒ 0 to 100°C of temperature control range with adjustable time range

❒ Different frequency range with automatic tracking

❒ 4.3 inch TFT touch screen with touch control input method

❒ Data storage for up to 20 sets and print function

❒ Protection against program automatic error, over-load, and over- temperature

❒ Self-diagnostic function along with login password protection

❒ Easy-to-use, durable and convenient

Application

Ultrasonic Homogenizer Sonicator is used for emulsification, separation, smoothing, extraction, anti-foaming, clear, nano-materials preparation, dispersion, and speed up chemical reactions across biology, microbiology, physics, zoology, agriculture, pharmaceutical, chemical, wastewater treatment, nano-materials etc.

Specifications (LUHS-A10 to LUHS_A13)

Model	LUHS-A10	LUHS-A11	LUHS-A12	LUHS-A13
Ultrasonic power	2 to 150 W; Adjustable	5 to 250 W; Adjustable	5 to 650 W; Adjustable	10 to 900 W; Adjustable
Disruption capacity	0.1 to 150 ml	0.1 to 250 ml	0.2 to 500 ml	0.2 to 600 ml
Standard probe/horn	Φ6 mm	Φ6 mm	Φ6 mm	Φ6 mm or Φ10 mm
Display	4.3-inch TFT touch screen			
Input method	Touch control			
Optional probe/horn	Φ2, Φ3, Φ8, Φ10 mm	Φ2, Φ3, Φ8, Φ10 mm	Φ2, Φ3, Φ8, Φ10, Φ12 mm	Φ2, Φ3, Φ8, Φ10, Φ12, Φ15 mm
Operating frequency	20 to 25 kHz, Automatic tracking			
Temperature control range	0 to 100°C			
Storage memory	20 sets, print etc			
Time range	0 to 99 h 59 m 59 s			
Ultrasonic On/Off setting	0.1 to 99.9 s			
Sound proof box	Illumination, sterilization, automatic lifting function optional			
Protection device	Self-diagnostic function, program automatic error correction, over-load, over-temperature protection display			
Login password protection	Yes			
Power supply	220/110 V			
Packaging Dimension (Host machine + accessories)	490 × 460 × 310 mm			

Gross Weight (Host machine + accessories)	15.85 kg
Packaging Dimension (Sound proof enclosed box)	570×370×370 mm
Gross weight (Sound proof enclosed box)	9.45 kg

Specifications (LUHS-A14 to LUHS-A16)

Model	LUHS-A14	LUHS-A15	LUHS-A16
Ultrasonic power	10 to 1000 W; Adjustable	20 to 1200 W; Adjustable	20 to 1800 W; Adjustable
Disruption capacity	0.1 to 800 ml	10 to 1200 ml	50 to 1500 ml
Standard probe/horn	Φ6 mm or Φ10 mm	Φ20 mm	Φ20 or Φ22 mm
Display	4.3-inch TFT touch screen		
Input method	Touch control		
Optional probe/horn	Φ2, Φ3, Φ8, Φ10, Φ12, Φ15, Φ20 mm	Φ6, Φ10, Φ15, Φ22, Φ25 mm	Φ10, Φ15, Φ20, Φ25, Φ28 mm
Operating frequency	20 to 25 kHz, Automatic tracking	19.5 to 20.5 kHz, Automatic tracking	
Temperature control range	0 to 100°C		
Storage memory	20 sets, print etc		
Time range	0 to 99 h 59 m 59 s		
Ultrasonic On/Off setting	0.1 to 99.9 s		
Sound proof box	Illumination, sterilization, automatic lifting function optional		
Protection device	Self-diagnostic function, program automatic error correction, over-load, over-temperature protection display		

Login password protection	Yes
Power supply	220/110 V
Packaging Dimension (Host machine + accessories)	570 × 460 × 340 mm
Gross Weight (Host machine + accessories)	19 kg
Packaging Dimension (Sound proof enclosed box)	570×400×400 mm
Gross weight (Sound proof enclosed box)	11 kg

Optional Accessories

Accessories No.	Name	Details
01	Cooling Chiller	(-5 to 100°C range, 150 mm depth)
02	Horns (with < 1000 W)	All size and shape (LUHS-A10 to LUHS-A13)
03	Horns (with ≥ 1000 W)	All size and shape (LUHS-A14, LUHS-A16)
04	30 ml jacket beaker	
05	100 ml jacket beaker	
06	250 ml jacket beaker	Thin tall narrow, with inlet and outlet port for connecting to chiller
07	500 ml jacket beaker	
08	1000 ml jacket beaker	
09	2000 ml jacket beaker	
10	Stand	To fix transducer and horn