ULTRASONIC HOMOGENIZER SONICATOR
LUHS-A20

Ultrasonic Homogenizer Sonicator LUHS-A20 is a 2000 W ultrasound probe sonicator, can handle 2 L liquid at a time within 0 to 100ºC of temperature range. Equipped with 4.3-inch TFT touch screen operation panel, microcomputer control, adjustable ultrasonic power and time, it offers frequency range of 19.5 to 20.5 kHz with automatic tracking. Designed with energy-efficient transducer, auto adjustment of amplitude, this device has integrated sample temperature control to prevent overheating. With protection device, it offers Self-diagnostic function, program automatic error correction, over-load, over- temperature protection display. With large data storage of 20 sets, print etc., the speakers are separated by a special sound proof box in this device.

Features

- 2000 W ultrasound probe sonicator, can handle 2 L liquid at a time
- Ultrasound probe is made of titanium alloy
- 4.3-inch TFT touch screen operation panel, clear and convenient
- Microcomputer controlled system with adjustable ultrasonic power and time
- Offers frequency range of 19.5 to 20.5 kHz with automatic tracking
- Energy-efficient transducer to ensure a strong effect
- Automatic amplitude adjustment
- Integrated sample temperature control to prevent overheating
- Protection device: Self-diagnostic function, program automatic error correction, over-load, over- temperature protection display
- Large data storage of 20 sets, print etc.
- Speakers are separated by a special sound proof box
- Frequency range of 19.5 to 20.5 kHz with automatic tracking
- Easy-to-use, durable and convenient

Application

Ultrasonic Homogenizer Sonicator is used to 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

Model	LUHS-A20
Ultrasonic power	20 to 2000 W (adjustable)
Disruption capacity	100 to 2000 ml
Standard horn/probe	Φ22 mm
Display	4.3-inch TFT touch screen
Input method	Touch control
Optional probe/horn	Φ10 mm, Φ15 mm, Φ20 mm, Φ22 mm, Φ25 mm
Operating frequency	19.5 to 20.5 kHz (Automatic tracking)
Temperature control range	RT to 100°C
Unit details	Touch screen generator + transducer + sound proof enclosure + Φ 22 mm horn + temperature probe
Storage memory	20 sets, print etc.
Duty cycle	0.1 to 99.9%
Total working time	0 to 99 h 59 min 59 s
Controller	Microcomputer
Ultrasonic ON/OFF setting	0.1 to 99.9 s
Ultrasonic power and time	Adjustable
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
Over temperature protection	Integrated sample temperature control
Amplitude adjustment	Automatic
Power supply	220 to 240 V 50 Hz / 110 V 60 Hz
Host and all accessories dimension (W×D×H)	410×225×290 mm
Host and all accessories net weight	15 kg
Soundproof box dimension (W×D×H)	290×280×490 mm
Soundproof box net weight	8 kg

Optional Accessories

Accessories no.	Accessories Name
1	Stand ×1 set
2	1000 ml jacketed beaker ×1 set
3	2000 ml jacketed beaker ×1 set
4	Φ10,15,20 22,25 mm horn ×1 pc
5	Low temperature cooling chiller ×1 pc
6	50 ml to 2000 ml jacketed constant temperature beaker