

Non-Contact Ultrasonic Homogenizer



This manual shall be made available to all users of the non-contact ultrasonic homogenizer. To ensure the best results and maximum durability of this U.S. SOLID LLC (hereafter U.S. SOLID or The Company) product, read and follow all instructions carefully. Failure to do so may lead to serious bodily injury and catastrophic damage to the machine, supplies, or surrounding area. All safety suggestions must be followed closely, and precautions must be taken to guarantee this ultrasonic homogenizer is only used by qualified personnel who have understood this guide.

I. Description

A non-contact ultrasonic homogenizer is a laboratory device that utilizes ultrasonic waves to mix, emulsify, disperse, and homogenize samples. Unlike traditional homogenizers that require physical contact with the sample, this device operates using high-frequency sound waves that are generated from a transducer. These waves travel through the sample and create a series of high and low-pressure cycles that effectively break down cells, particles, and other substances into smaller and more uniform sizes. This process is ideal for preparing samples for further analysis, as it ensures that the entire sample is evenly mixed without damaging the cells or particles. Additionally, this type of homogenizer is POLLUTION-FREE. In contrast, traditional ultrasonic homogenizers require the immersion of probes into the samples, which can cause tiny particles to fall off and potentially pollute the sample. If you are working with sensitive samples, a non-contact ultrasonic homogenizer is a necessity to ensure the integrity of your results. Meanwhile, it does not require additional cleaning steps between samples, making it a fast and efficient tool for laboratory research.

II. Getting Started

Thank you for purchasing the U.S. SOLID ultrasonic homogenizer. To ensure smooth and safe operations, please review this full manual for a better working experience.

Changes in technology happen often and rapidly, which is why our team at U.S. SOLID reserves the right to modify the specifications and procedures for this ultrasonic homogenizer immediately and without notice. The Company will not assume responsibility for equipment damage or malfunction due to improper operation, incorrect repairs, or use of unauthorized parts.

You have 30 days from the date of delivery to return this product. A 15% restocking fee will be applied if the returned item has been opened. We provide a 12-month warranty from the date of the sale, and we are responsible for any replacement parts caused by quality issues within the warranty window. If you want to return a defective item, please contact our customer service team to receive a free prepaid shipping label for your return. To expedite the warranty process, please describe the issue and include the following information: purchase date, order number, name of the original purchasing entity, delivery address, and serial number. After the 12-month warranty period, we offer to replace parts at the current retail cost, but complete product returns will not be accepted.

The warranty will only be in effect if all instructions in the manual are followed. The warranty does not cover damage caused by force majeure (e.g., natural disasters such as hurricanes, floods, or earthquakes).

This manual includes basic safety precautions, installation, operation, and maintenance instructions.

III. Specifications

Model	USS-JFHLUH00020
Frequency	25 kHz
Power	100 W
Power Adjustment	0 - 100%
Material of Probe	TC1014 aluminum probe
Processing Capacity	2 ml
Product Dimension	7 x 6.1 x 4.5 inch (177mm×155mm×115mm)
Product Weight	4.4 lb (2 kg)
Voltage	110 ~ 240V/50-60Hz

IV. Application

1. Extracting traditional Chinese medicine;
2. Disrupting cells, bacteria, and virus tissues;
3. Dispersion and homogenization of material particles, and emulsification of products;
4. Accelerating dissolution and chemical reactions;

V. Operation

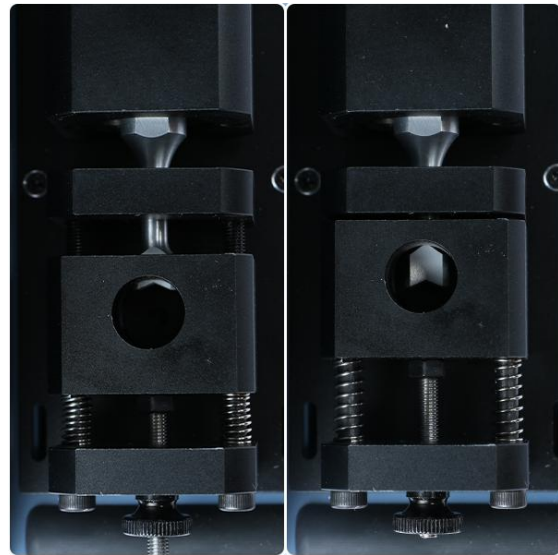
STEP ONE

Connect the wires.



STEP TWO

Rotate the knob to adjust the size of the sample holder. Turning the knob clockwise will enlarge the holder, while turning the knob counterclockwise will make the holder smaller.



STEP THREE

Put the tube into sample holder.



STEP FOUR

Press the power button to turn on the machine.



STEP FIVE

Rotate the knob to adjust the power.

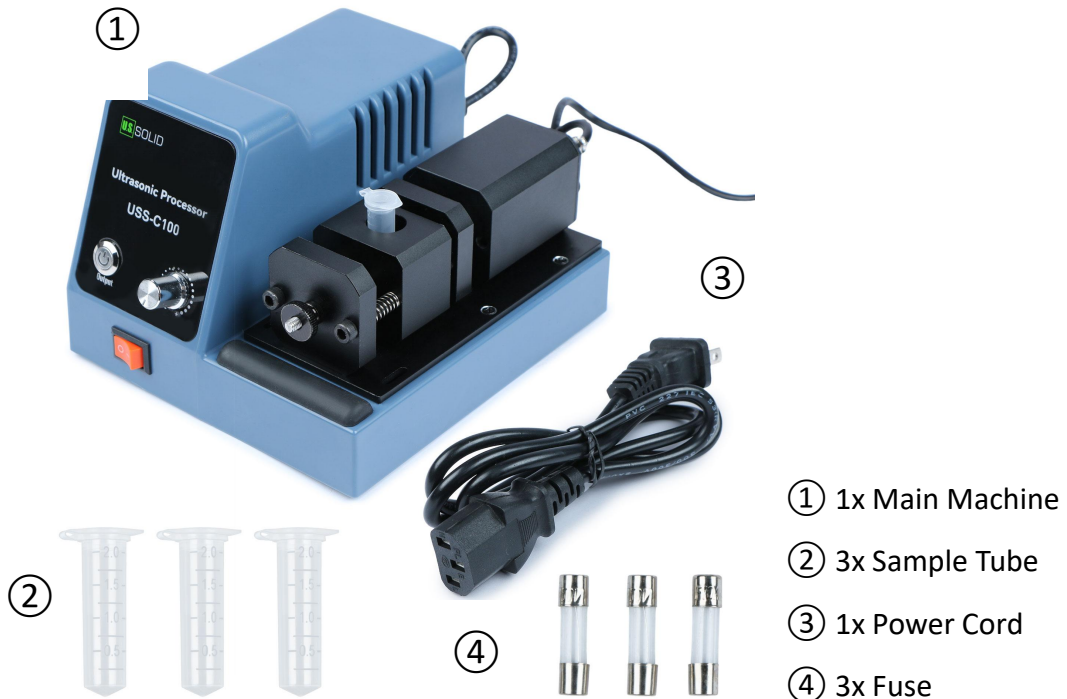


STEP SIX

Press the button to start working process.



VI. Packing List





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