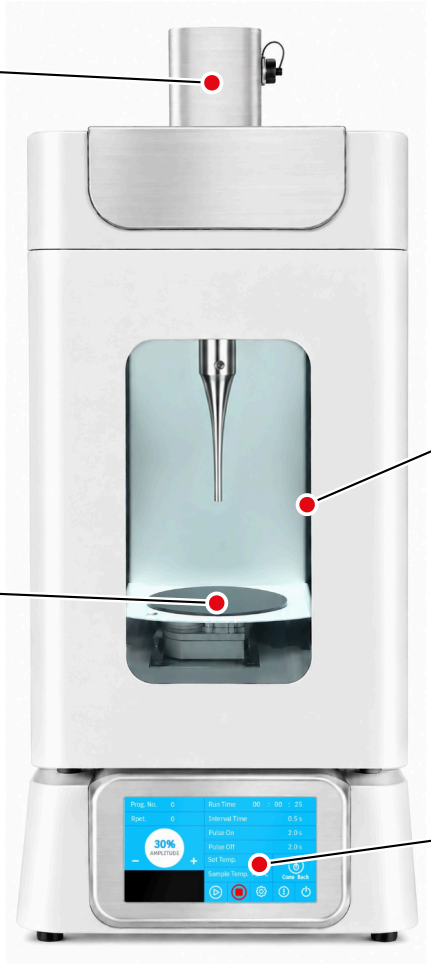
ULTRASONIC HOMOGENIZER SONICATOR

A complete probe sonicator system with a soundproof enclosure, UVC sterilization and a remote-controlled sample lift, in four power levels from 650 W to 1800 W for samples from 0.1 mL to 1,200 mL.

TRANSDUCER & HORN

Drives the horn at 20–25 kHz. A standard horn comes with every model.



VIEWING DOOR & UVC LAMP

LED-lit chamber behind a locking door. A UVC lamp decontaminates between runs.

REMOTE-CONTROLLED LIFT

Raise and lower the platform by remote to set horn depth.

TOUCHSCREEN OR REMOTE

Run it from the 7-inch touchscreen or the remote control.

SOUNDPROOF ENCLOSURE

Reduces noise and contains aerosols. Stack it on the controller or set the two side by side.

PROGRAMMABLE PULSE

Pulse on and off from 0.1 to 99.9 s, with total run time up to 99 h 59 min 59 s.

ADJUSTABLE POWER

Power is continuously adjustable, from 1% of rated output up to full power.

TOUCHSCREEN OR REMOTE

Operate from the 7-inch color touchscreen or the remote control. Programs are password protected.

TEMPERATURE MONITORING

Reads 0–100°C and sounds an over-temperature alarm to protect heat-sensitive samples.

INTERCHANGEABLE HORNS

Optional horns from 2 to 28 mm let one unit cover small tubes through beakers.

650–1800 W	0.1–1,200 mL	20–25 kHz	20
POWER, BY MODEL	SAMPLE VOLUME	FREQUENCY	SAVED PROTOCOLS

A COMPLETE SONICATION WORKSTATION

The Novara™ Ultrasonic Homogenizer uses high-intensity ultrasonic cavitation to lyse cells and tissue, shear DNA, and emulsify, disperse and homogenize samples. Every model ships as a complete system: controller, transducer with standard horn, and soundproof enclosure, ready to run out of the box.

Run it from the 7-inch touchscreen or the remote control. A motorized platform raises and lowers samples, so you set horn depth without reaching into the chamber. LED lighting and a transparent front door let you watch the run, and a built-in UVC lamp decontaminates the chamber between samples.

MATCHED TO YOUR VOLUME

Four power levels cover routine cell lysis from 0.1 mL up to batches of 1,200 mL. Interchangeable horns let one unit handle small tubes through beaker-scale volumes: match the horn diameter to the sample. Overload, no-load and end-of-run alerts, password protection and a door lock protect samples and operators.

SPECIFICATIONS

Frequency	20–25 kHz
Processing volume	0.1–1,200 mL, by model and horn
Pulse on / off	0.1–99.9 s each
Total run time	1 min to 99 h 59 min 59 s
Temperature monitor	0–100°C, with alarms
Controls	7 in touchscreen or remote control
Power supply	120 V, 60 Hz
Controller (W × D × H)	13.4 × 16.8 × 6.6 in
Enclosure (W × D × H)	12.6 × 12.6 × 20.5 in, 28.7 lb

ORDERING INFORMATION

Catalog no.	Description
US650	650 W system, 0.1–500 mL, 6 mm horn
US1000	1000 W system, 0.1–700 mL, 6 mm horn
US1200	1200 W system, 1–1,000 mL, 20 mm horn
US1800	1800 W system, 1–1,200 mL, 22 mm horn



HOW TO USE

1 FIT THE HORN

Attach the horn sized to your sample volume and place the vessel on the sample platform.

2 SET DEPTH AND PROGRAM

Set horn depth with the lift, then set power, pulse and run time on the touchscreen or remote, or load a saved protocol.

3 CLOSE AND RUN

Close and lock the door and start the run. Use the UVC lamp to decontaminate the chamber afterward.

MODELS AND ACCESSORIES

Specification	US650	US1000	US1200	US1800
Power range	6.5–650 W	10–1000 W	12–1200 W	18–1800 W
Processing volume	0.1–500 mL	0.1–700 mL	1–1,000 mL	1–1,200 mL
Standard horn (included)	6 mm	6 mm	20 mm	22 mm
Controller weight	24.3 lb	26.5 lb	33.1 lb	35.3 lb
Transducer & horn weight	4.4 lb	4.4 lb	5.5 lb	5.5 lb
Frequency	20–25 kHz, all models			
Power supply	120 V, 60 Hz, all models			
Enclosure	12.6 × 12.6 × 20.5 in, 28.7 lb, all models			

INCLUDED WITH EVERY SYSTEM

CONTROLLER
7-inch color touchscreen, aluminum-alloy housing.

TRANSDUCER & HORN
Transducer with the standard horn for your model fitted.

SOUNDPROOF ENCLOSURE
UVC lamp, LED lighting. Stack it or set side by side.

REMOTE CONTROL
Runs the system and the motorized lift.



OPTIONAL HORNS

Match the horn to your sample volume: smaller horns for small tubes, larger horns for beaker-scale batches. Order with your system and they ship with it.

FOR US650 & US1000

Catalog no.	Horn
USH-A2	2 mm horn
USH-A3	3 mm horn
USH-A10	10 mm horn
USH-A12	12 mm horn

FOR US1200 & US1800

Catalog no.	Horn
USH-B6	6 mm horn
USH-B10	10 mm horn
USH-B15	15 mm horn
USH-B25	25 mm horn