Covaris®
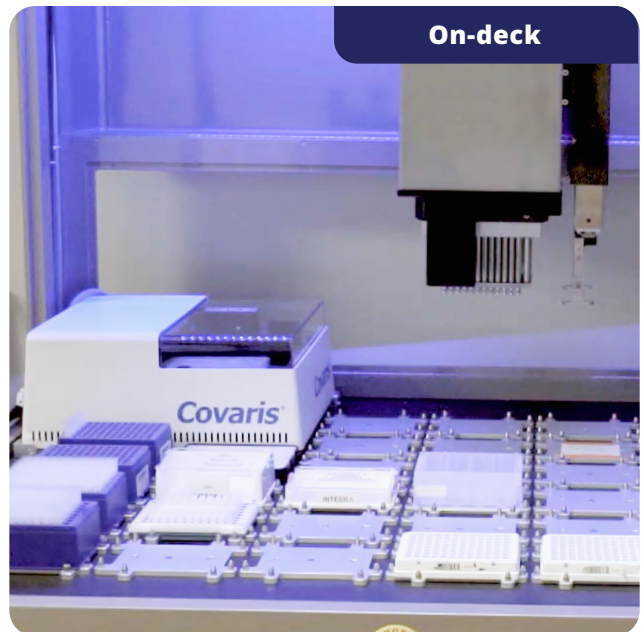
R230 Focused-ultrasonicator
for High-Throughput, High-Quality Sample Prep

Versatility is Everything!

The R230 Focused-ultrasonicator* provides the ultimate in flexibility, with the option to operate on the bench or fully integrated on the deck of your liquid handler. No matter your workflow, the R230 offers best-in-class sample preparation to maximize analyte yield from difficult matrices and enable applications in genomics, proteomics and beyond.

On-bench

On-deck

Features	Benefits
Powered by Adaptive Focused Acoustics® (AFA®)	Controlled, non-contact processing
Temperature controlled	Maintains optimal sample integrity and provides high recovery
Automation compatible on-deck or deck adjacent with integrated RFID	Reduces human error
Automated water management (filling, setting and monitoring) and pre-scheduled chilling and degas	User-defined scheduling for system set-up maximizes laboratory efficiency

Scan to Learn More!
www.covaris.com/r230-focused-ultrasonicator-500620

*Water Conditioning System (WCS) 3.0 and Electronics Box 1.0 (eBox) come as an all-in-one unit included with system purchase. Image to scale.

R230 Focused-ultrasonicator

Technical Specification	Description
Primary Applications	• Bead Mixing/Pellet Resuspension • Cell Lysis: Mammalian • DNA Shearing • Compound Screening • Total NA (tNA) Extraction from FFPE • Hit Validation • High Molecular Weight DNA Extraction • Target ID & Validation
Components	R230 Focused-ultrasonicator, Water Conditioning System (WCS) 3.0 and Electronics Box 1.0 (eBox) (WCS and eBox come as a separate, all-in-one unit included with system purchase), and a Laptop with SonoLab 10
Component Dimensions (W x D x H)	R230: 362.3 mm x 286.8 mm x 151.2 mm or 14.25 in x 11.3 in x 6 in
	WCS: 406.4 mm x 368.3 mm x 368.3 mm or 15.9 in x 14.5 in x 14.5 in
	eBox: 410.5 mm x 372.4 mm x 119.3 mm or 16.2 in x 14.7 in x 4.7 in
Treatment Power	0.5–110 W Avg. Incident Power, 1.5–450 W PIP
Part Number	500620
Power Requirements	100–240 VAC 500VA, 50–60 Hz
Operating Environment	Ambient temperature: 19–25 °C (66–77 °F) and Relative humidity: 30–70%
Operating Temperature	5–40 °C
Safety	Complies with Low Voltage Directive 2006/95/EC. Certified to IEC/EN/UL 61010-1:2004 "Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part1: General Requirements."
Regulatory Labeling	CE, ETL Mark (for Product Safety), WEEE
SonoLab Version	SonoLab 10
Operating System	Microsoft Windows 10
Sample Processing Capacity	Up to 16 samples at a time
Supported Sample Volume (dependent on protocol)	5–50 µL for NGS sample volume
Recommended Batch Size	96 or 384 samples (smaller batches also possible)
Covaris Consumables	8 AFA-TUBE® TPX Strips (with RFID), 96 AFA-TUBE TPX Plate (with RFID), 384 AFA-TUBE TPX Plate (with RFID), and 96 microTUBE Plate