

R230 Focused-ultrasonicator

True Versatility On-bench or On-deck

Future-proof your lab with the Gold Standard in sample processing. The Covaris R230 is reconfigurable on-bench or on-deck, from mid to ultra-high throughput to meet all of your current and future needs.

Combined with the integration friendly, fully automatable AFA-TUBE (96 and 384-well plate formats available), streamline your library prep with workflow simplification and lower input volumes to yield maximum cost savings.

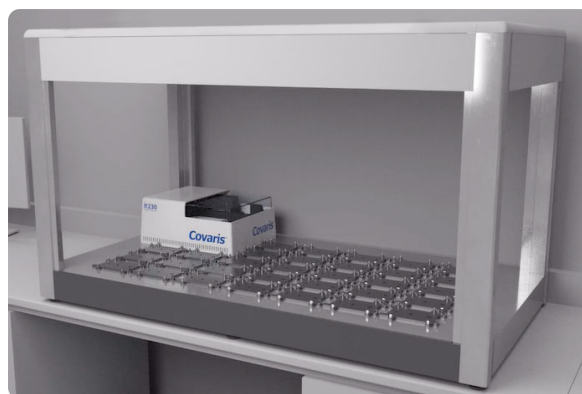
Feature	Benefit
Powered by AFA-energetics™	Controlled, non-contact processing
Direct on-deck integration	Compatible with most liquid handlers
Standalone, on-bench sample processing	Scalable and reconfigurable
Controlled energy delivery	Maintains optimal sample integrity
Automation compatible consumables with RFID	Sample tracking and reduced human error
Automated water management	User-defined scheduling for system set-up maximizes laboratory efficiency

Supported Applications:

- DNA/RNA Shearing
- Compound Screening
- Low Mass Sample Extraction: FFPE, Tissue, and Whole Blood
- Mammalian Cell Lysis
- Bead Mixing/Pellet Resuspension



Scalable from
On-bench
to Fully
Integrated
On-deck!



"Because of the Covaris advantages, the total application costs are lower and results superior to other methods."

Marchal, Claire, et al. "Genome-Wide Analysis of Replication Timing by Next Generation Sequencing with E/L Repli-Seq." Nature Protocols, vol. 13, no. 5, 2018, pp. 819–839., DOI: <https://www.nature.com/articles/nprot.2017.148> 10.1038/nprot.2017.148

AFA-TUBE TPX 96 and 384-well Plates

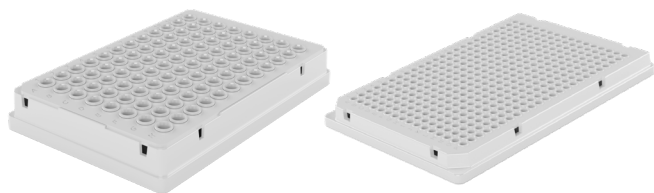
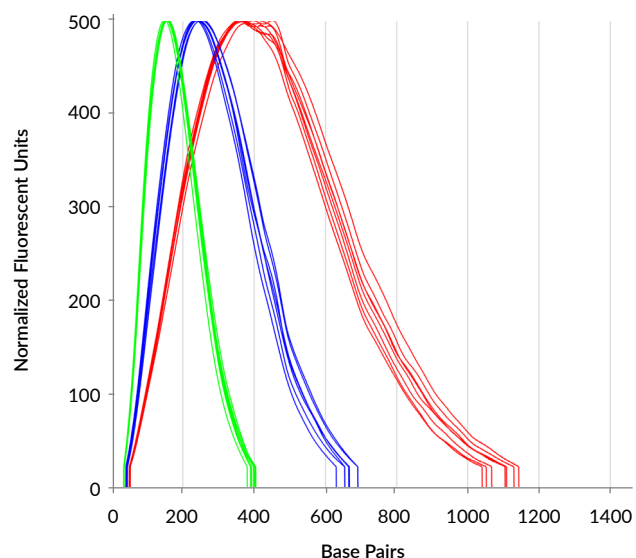
Highly Reproducible DNA Shearing
with the AFA-TUBE TPX Plate

Figure 3. Electropherograms showing narrow size distribution obtained from high quality gDNA on the R230 in a logarithmic scale for 96 samples imaged on the Fragment Analyzer (DNF-474). Green: 175 bp (130 sec of AFA in 20 μ L), blue 250 bp (90 sec of AFA in 50 μ L), and red 350 bp (50 sec of AFA in 50 μ L).

Instrument Specifications	
Part Number	500620
Treatment Power	2.5 to 450 Watts peak incident power, 0.1 to 135 Watts average incident power
Instrument Dimensions	36 cm (width), 29 cm (depth), and 15 cm (height)
WCS 3.1 and EB 1.0 Dimensions	37 cm (width), 40 cm (depth), and 37 cm (height) • EB 1.0 adds 13 cm to the height
Carboy(s) Dimensions	20 cm (width), 20 cm (depth), and 45 cm (height)
Tubing Length	3 meters
Power Requirements	100 to 240 VAC 500VA, 50 to 60 Hz
Operating Environment	Ambient temperature: 19 to 25 °C (66 to 77 °F) Relative humidity: 30 to 70%
Operating Temperature	10 to 30 °C
Regulatory Labeling	CE, ETL Mark (for Product Safety), WEEE
Operating System	Includes: Notebook computer interface via Ethernet with Microsoft Windows and Covaris SonoLab™ 10 Operating, Software installed
Chiller	WCS 3.1 included (The integrated water conditioning system includes a chiller, UV lamp, and particle filter)
Sample Processing Capacity	Sample Processing Capacity 8 tubes at a time simultaneous processing; 96 tube capacity scanning
Sample Volumes	• AFA-processed volumes from 5 to 50 μ L • Max working volume up to 200 μ L
Recommended Batch Size	24 to 384 samples
Covaris-qualified Consumables	• 96 AFA-TUBE TPX Plate (PN 520291) • 384 AFA-TUBE 20 PP Plate (PN 520303) • 384 AFA-TUBE 5 PP Plate (PN 520302)
Integration with Lab Automation	Yes: Sonolab 10 API

Ordering Information

Part #	Product Name	Description
500620	R230 Focused-ultrasonicator	<ul style="list-style-type: none"> • R230 Focused-ultrasonicator module • SonoLab 10 Software • WCS 3.1 module • Electronics module (E.B. 1.0 (The electronics module is integrated to the WCS 3.1))