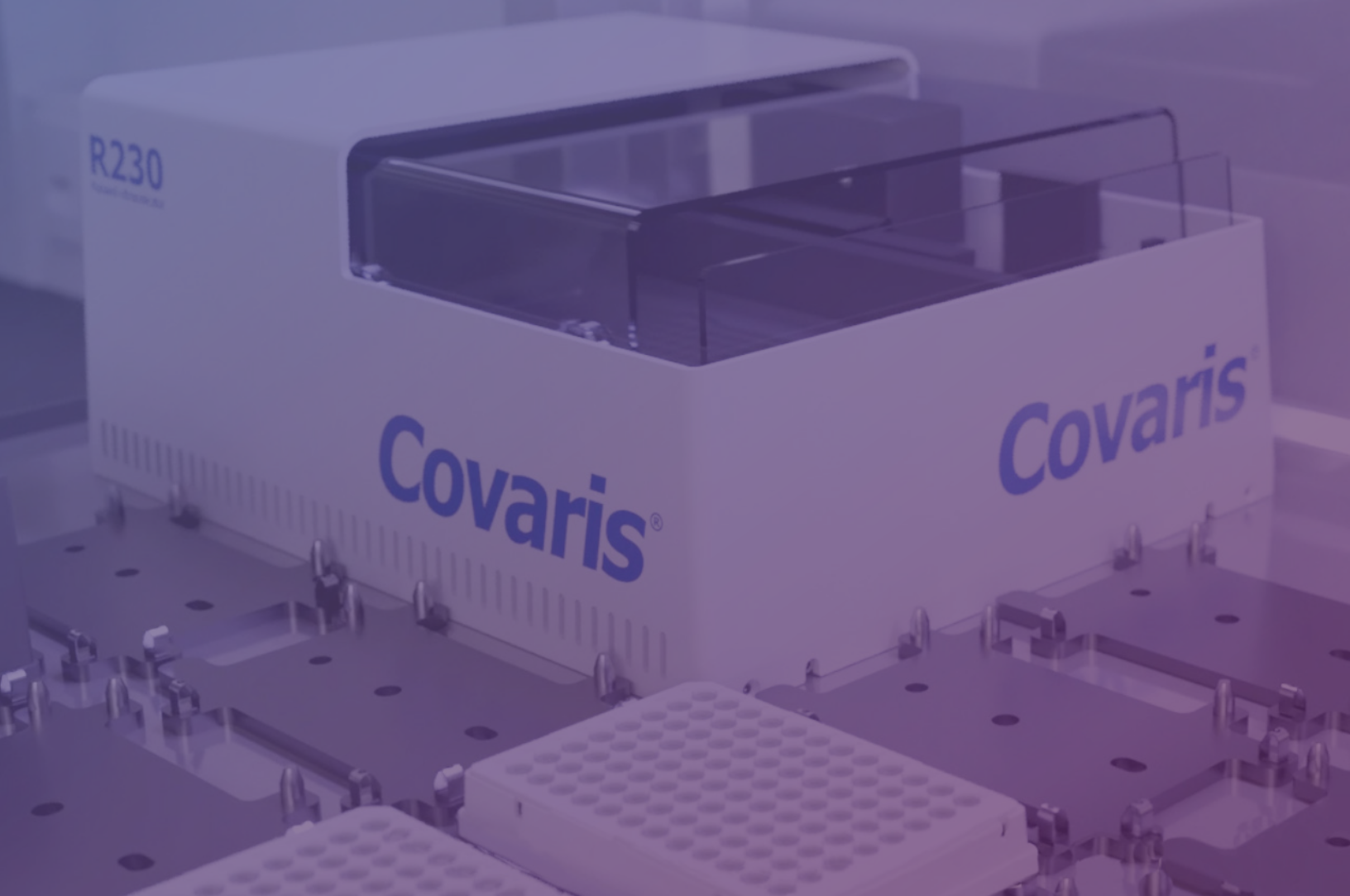


Covaris[®]

Focused-ultrasonicators

For Robust and Reliable Sample Preparation



Low & Medium-throughput Focused-ultrasonicators

M220



S220



ME220



ML230



E220*



Common Applications
(Refer to instrument-specific protocols for details)

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
 - cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
 - Tissue Lysis and Extraction

Sample Processing Capacity

Single tube processing

Single tube processing

Single tube processing,
1 - 8 tubes per batch

Parallel processing
up to 8 samples

Single tube processing,
1 - 96 tubes per batch

Covaris-certified Consumable[†]

- microTUBES
- milliTUBES

- microTUBES
- milliTUBES
- Large Volume Consumables

- Individual microTUBES
- 8 microTUBE Strips
- milliTUBES

- 8 microTUBE Strips
- 8 AFA-TUBE TPX Strips

- Individual microTUBES
- milliTUBES
- 8 microTUBE Strips
- 96 microTUBE Plates
- Large Volume Consumables

SonoLab Version

7

7

8

10

7

Dimensions (W x D x H)

(cm) 33 x 38 x 27
(in) 13 x 15 x 11

(cm) 20 x 53 x 33
(in) 8 x 21 x 13

(cm) 47 x 47 x 37
(in) 19 x 19 x 15

(cm) 47 x 51 x 59
(in) 18 x 20 x 23

(cm) 61 x 76 x 48
(in) 24 x 30 x 19

Automatic Setup

No

No

Automated water level setting

Automated water level setting and scheduling

No

Lab Automation Integration

No

No

No

No

No

Additional Equipment

Stand-alone benchtop

Chiller required

Stand-alone benchtop

Stand-alone benchtop

Chiller & Water Conditioning System (WCS) 2.0 required

*E220evolution also available. **Non-robotic version also available. †Please see Covaris Certified Consumables Guide (www.covaris.com/wp/wp-content/uploads/resources_pdf/M020065.pdf) for full details and accessories.

High-throughput Focused-ultrasonicators

LE220R-plus**



LE220Rsc



R230



| | | |
|---|---|---|
| <ul style="list-style-type: none"> • DNA, RNA, and Chromatin Shearing • DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE • cfDNA Extraction from Plasma • High Molecular Weight DNA Extraction • Cell Lysis | <ul style="list-style-type: none"> • DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE • High Molecular Weight DNA Extraction • Cell Lysis: Mammalian, Bacterial, and Yeast • DNA Shearing • Compound Screening • Hit Validation • Target ID & Validation • Sample Processing: Bead Mixing | <ul style="list-style-type: none"> • Bead Mixing/Pellet Resuspension • DNA Shearing • Total NA (tNA) Extraction from FFPE • High Molecular Weight DNA Extraction • Cell Lysis: Mammalian • Compound Screening • Hit Validation • Target ID & Validation |
| <p>8 tubes simultaneously processed; 96 tube capacity</p> | <p>In 96 format - 8 tubes may be simultaneously processed or whole plate processed in batch, Scanning mode available</p> | <ul style="list-style-type: none"> • In 96 format - 8 tubes may be simultaneously processed • In 96 and 384 formats - whole plate processed in batch, Scanning mode available |
| <ul style="list-style-type: none"> • Individual microTUBES <ul style="list-style-type: none"> • 8 microTUBE Strips • 96 microTUBE Plates • 8 AFA-TUBE TPX Strips (with RFID) • 96 AFA-TUBE TPX Plates (with RFID) <ul style="list-style-type: none"> • milliTUBES | | <ul style="list-style-type: none"> • 8 microTUBE Strips • 96 microTUBE Plates • 8 AFA-TUBE TPX Strips (with RFID) • 96 AFA-TUBE TPX Plates (with RFID) • 384 AFA-TUBE Plates (with RFID) |
| <p>10</p> | <p>10</p> | <p>10</p> |
| <p>(cm) 61 x 81 x 48 (in) 24 x 32 x 19</p> | <p>(cm) 61 x 89 x 48 (in) 24 x 35 x 19</p> | <p>(cm) 36 x 29 x 15 (in) 14 x 11 x 6</p> |
| <p>Automated water level setting and monitoring, scheduled chilling, and degas</p> | <p>Automated water level setting and monitoring, scheduled chilling, and degas</p> | <p>Automated water level filling, setting and monitoring, scheduled chilling, and degas</p> |
| <p>Yes: Recommended use in conjunction with 96 AFA-TUBE TPX Plates</p> | <p>Yes: SonoLab 10 API and Integrated RFID</p> | <p>Yes: SonoLab 10 API, Direct on-deck integration (compatible with most liquid handlers), and Integrated RFID</p> |
| <p>Chiller and WCS 2.0 included</p> | <p>Chiller and WCS 2.0 included</p> | <p>Electronics Module and WCS 3.0 included</p> |



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