

LE220-plus Focused-ultrasonicator

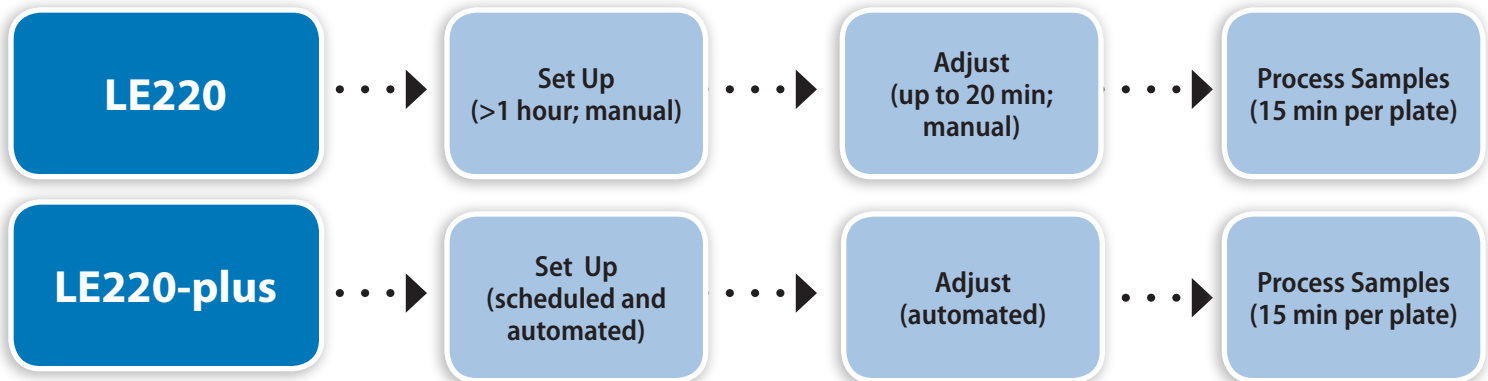
Scalable, Automated High-Performance Sample Preparation

- Automated water works optimizes user-to-user reproducibility
- Remote set-up and scheduling maximizes laboratory efficiency
- Designed for integration with high-throughput laboratory automation with automated water works system



The LE220-plus Whole Genome PCR-free Workflow

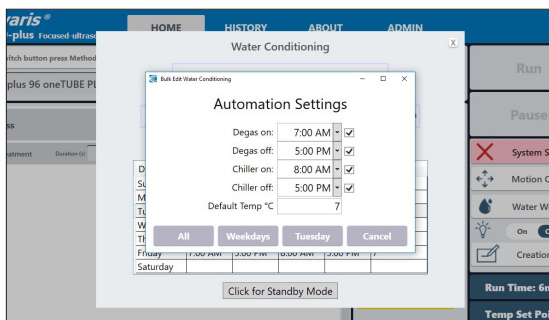
Eliminate 80% of the shearing workflow & up to 30% of your NGS library prep workflow



Traditional Workflow: Can take up to 1.5 hours of set-up time including multiple manual steps.

LE220-plus Workflow: System available on-demand; eliminates a source of variability.

The LE220-plus incorporates automatic water level detection and automatic z-height adjustment maintaining the AFA acoustic vessels at a constant, optimal distance from the ultrasonic transducer. These features control the LE220-plus to ensure reproducible AFA performance for any operator while providing hands free operation.



The LE220-plus system includes control connections to both the AFA ultraCUBE water chiller and the water conditioning module. Significant improvements to laboratory efficiency are enabled with our latest SonoLab software which features a simple, intuitive interface along with a module for remote start-up and daily scheduling.

PRODUCT SPECIFICATIONS

The LE220-plus system is compatible with existing LE220 protocols and consumables. In addition, the LE220-plus is available as an upgrade to an L- or E-Series or as a stand-alone purchase.

Part Number	500569
Treatment Power	2.5 to 500 Watts Peak Incident Power 0.1 to 250 Watts Average Incident Power
Dimensions	61 cm (width) x 76 cm (depth) x 48 cm (height)
Power Requirements	100-240 VAC 500 VA, 50-60Hz
Operating Environment	Ambient temperature: 19° C to 25° C (66° F to 77° C) Relative humidity: 30% to 70%
Regulatory Labeling	CE, ETL Mark (for Product Safety), WEEE
Safety	Complies with Low Voltage Directive 2006/95/EC. Certified to IEC/EN/ANSI/UL 61010-1:2010 and CAN/CSA C22.2 No. 61010-1, "Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements"
EMC	Complies with Class A Industrial/Scientific/Medical (ISM) equipment under EN 61326-1 for EU EMC Directive 2014/30/EU. Also FCC Part 15 Class A radio emissions requirements for the USA and ICES-003 Class A for Industry Canada
Operating System	Includes: Notebook computer interface via USB with Microsoft Windows and Covaris SonoLab™ Operating Software installed
Chiller	ThermoCube and WCS 2.0 required
Sample Processing Capacity	1 to 8 tubes at a time parallel processing; 96 tube capacity
NGS Sample Volume	5 to 500 µL
Sample Volumes	truXTRAC® FFPE = LCM, 5 to 20 micron slides, up to 80 micron slices, and 1.2 mm cores truXTRAC cfDNA = up to 4 ml plasma truXTRAC DBS (dried blood spots) = up to seven 3 mm punches truCHIP® (chromatin) = up to 1 mL for mammalian cells truCOLLECT™ = up to 35 µL fresh whole blood
Recommended Batch Size	96+ samples
Covaris Consumables	Individual microTUBEs; 8 microTUBE strips (rack required); 96 microTUBE plate; 96 oneTUBE-10 AFA plate, miniTUBEs, milliTUBEs
Upgrade Potential	Robotics upgrade capable
Operator Skill Requirement	Minimal
Automatic Instrument Set-Up	Yes
Integration with Lab Automation	Yes

USA: Covaris, Inc. • Tel: +1 781-932-3959 • Fax: +1 781-932-8705 • Email: customerservice@covarisinc.com • Web: www.covarisinc.com

EUROPE: Covaris Ltd. • Tel: +44 (0)845 872 0100 • Fax: +44 (0)845 384 9160 • Email: eucustomerservice@covarisinc.com • Web: www.covarisinc.com

PART NUMBER: M020062 REV A | EDITION JULY 2017

INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE | FOR RESEARCH USE ONLY | NOT FOR USE IN DIAGNOSTIC PROCEDURES | COPYRIGHT 2017 COVARIS, INC.