

ECM-3630

Exponential Decay Wave Electroporation System



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

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The ECM-3630 offers full flexibility in selection of exponential decay wave voltage, resistance, and capacitance values. This flexibility is the key to achieving the optimal time constants and field strengths needed for efficient transformation of prokaryotes and transfection of eukaryotes. This system is an outstanding value for researchers working with bacteria, yeast, stem cell transfection, plant transformation and insect transfection.

►► **Multi-Well Electroporation**

Transitioning from standard cuvette work in a safety dome or safety stand to multi-well electroporation is quick and simple with the addition of a high throughput (HT) plate handler and multi-well plates. High throughput electroporation permits large numbers of samples to be quickly processed. Electroporation conditions are more easily optimized, providing the highest possible efficiency.

►► **Monitoring Option**

The addition of Enhancer 3000 allows the researcher to monitor and track key electrical parameters used in electroporation applications. The electrical pulse data is captured as both a graphic display of the waveform and electrical output values following each experiment. This data can be stored on a memory stick or downloaded to a computer easily by using the USB port for potential analysis, documentation and validation purposes. For more information

►► **Applications**

- Transformation of bacteria and yeast
- Transfection of mammalian cells
- Transfection of plant cells and plant protoplasts
- High throughput electroporation in 25- and 96-well formats

►► **Features**

- Wide and accurate exponential decay voltage, internal resistance, and capacitance ranges
- Preset protocols - including most common bacteria and microorganism cell types, as well as CRISPR applications
- User-defined protocols - unlimited ability to add and modify protocols
- Safety - displays sample resistance measurements for each pulse with three layers of arc protection
- Data management - stores logs of every pulse delivered for QC and troubleshooting
- Ease of use - touch screen operation

►► ECM-3630 Specifications

Operational Status	Internal self-test upon start-up
Interface	7 inch color touchscreen
Input	100 to 240 VAC
Charge Time	LV <7 s, HV <4 s
Arc Control	Yes
Voltage Range	
LV Mode	5 to 500 V in 1 V steps
HV Mode	505 to 3,000 V in 5 V steps
Capacitance	
LV Mode	25 to 3275 μ F in 25 μ F steps
HV Mode	10, 25, 35, 50, 60, 75, 85 μ F
Internal Resistance	
LV Mode	25 to 1,575 Ω in 25 Ω steps
HV Mode	50 to 1,575 Ω in 25 Ω steps
Maximum Time Constant	5 s at 500 V peak or 133 ms at 3,000 V peak
Programmability	Storage over 1,000 Protocols
Safety	Pre-Pulse Sample Resistance Check, Pulse Over-Current Protection

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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 **Analytical**®
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
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