



Gene Transfer Instrument I Product Introduction

Electroporation can be used to introduce DNA into competent bacteria, animal and plant cells, and yeast cells. Compared with chemical methods, electroporation can achieve higher transformation efficiency. This method has better repeatability than other methods, is easy to operate, saves time, and has high import efficiency. It has become an indispensable basic technology in molecular biology.

The gene delivery system (electroporator) has an integrated design, is easy to operate, and has an intuitive display. The microprocessor-controlled pulse discharge uses a human-machine dialogue interface, which is simple and intuitive to operate, and refines the setting range of capacitance and resistance, making the cell electroporation experiment have a wider range of choices under relevant conditions.

Product Features

- ◆ High transformation efficiency - short transformation time and excellent repeatability;
- ◆ Free storage - can store experimental data (customizable storage);
- ◆ Precise control - uses microprocessor control (pulse discharge);
- ◆ Exquisite design - ultra-compact design simplifies installation and optimizes workspace;
- ◆ Microprocessor control - simple and intuitive operation, and refined setting range of capacitance and resistance.



Technical Parameters

Model	LAWSON-2C
Pulse Form	Exponential Decay
High Voltage Output Voltage	Stored energy voltage can be set freely from 401V to 2500V with an accuracy of 1V.
Low Voltage Output Voltage	Stored energy voltage can be set freely from 10V to 400V with an accuracy of 1V.
High Voltage Capacitance	There are seven settings available: 1 μ F, 5 μ F, 25 μ F, as well as their combinations such as 6 μ F, 26 μ F, 30 μ F, and 31 μ F. These settings can be adjusted freely.
Low Voltage Stored Energy Capacitance	There are 63 settings available: 25 μ F, 50 μ F, 100 μ F, 200 μ F, 400 μ F, 800 μ F, as well as their combinations such as 125 μ F, 150 μ F, 175 μ F, 200 μ F, up to 1575 μ F. The minimum capacitance is 25 μ F with a step size of 25 μ F.
Discharge and Connection Resistance	There are 32 settings available: 50 Ω (fixed), 50 Ω , 100 Ω , 200 Ω , 400 Ω , 800 Ω , and ∞ , as well as their combinations such as 50 Ω , 100 Ω , 150 Ω , up to 1600 Ω . These settings can be adjusted freely. The minimum resistance is 50 Ω , and the maximum is 1600 Ω , with a step size of 50 Ω . There is also an infinite resistance setting available.
Power Supply	Single phase 220V, 50HZ, 200W
Time Constant	With adjustable RC time constant
Main Unit Net Weight / Package Size	12.8kg / 640*380*350 mm