

HT-Plate Handlers

TECHNICAL SPECIFICATIONS



PRODUCT DESCRIPTION

The HT plate handlers are designed for rapid electroporation of multiple samples for high throughput electroporation. The HT-200 and HT-100 plate handler's coupled with our ECM pulse generators deliver the pulse(s) to our patented BTX 25 or 96 well electroporation plates. The Plate Handlers accommodate both the 25 and 96 well electroporation plates for screening or easy optimization of electroporation parameters. Both HT-200 and HT-100 have pulse switching technology and gold plated pins to contact with the integrated electrodes in the 25 and 96 well plates. The HT-100 Plate Handler is a manual switching unit that allows for individual column selection for pulsing column by column, while the HT-200 offers an auto-switching feature for automatic pulsing of the entire plate. The Plate Handlers are compact, simple to operate and easy to connect to our pulse generators. The HT-200 or HT-100 coupled with 25 and 96 well electroporation plates offer a new approach to high throughput electroporation.

PRODUCT APPLICATION

The HT Plate Handlers function together with either the ECM 830 square wave or ECM 630 exponential decay wave generators as a HT system for the electroporation of eukaryotic and prokaryotic cells. The HT systems can also be used to vary the voltage, pulse durations or biological conditions across the columns. This allows for rapid optimization of both the electrical and biological conditions and result in increased viability and higher electroporation efficiency.

APPLICATIONS

Transfections of Mammalian Cells

- siRNA
- Plasmid DNA

Transformation of Bacteria and Yeast

- BAC library
- Plasmid DNA

HT-PLATE HANDLER TECHNICAL SPECIFICATIONS

Standard Capabilities

Power	100 to 240 VAC, 50/60 Hz, 15 W, 0.50 A fuse (2)
Voltage Range	0 to 3000 V DC (Pulse)
Pulse Length Range	10µsec to 10 sec
Pulse Number Range	1 to 99
Operation Temperature	5° to 40° C
Intended Use	Indoor Use
Relative Humidity	20 to 80 %
Maximum altitude	2,000m (6,562 ft)
Pollution Degree	II
Insulation Degree	CAT I

Physical Characteristics:

Models	HT-100 and HT-200
Width x Depth x Height	23 x 21.5 x 14 cm (9.1 x 8.5 x 5.5 in)
Weight	4.8 Kg (10.6 lbs)

MEETS REQUIREMENTS OF DIRECTIVE 89/336/EEC FOR ELECTRO-MAGNETIC COMPATIBILITY (EC) AND LOW-VOLTAGE DIRECTIVE 72/23/EEC FOR PRODUCT SAFETY.

ORDERING INFORMATION

Item No.	Model	Product
45-0400	HT-100	HT 100 Plate Handler Manual Column Switching w/ User Manual
45-0401	HT 200	Plate Handler Automatic Column Switching w/ User Manual
45-0465	HT-200	25 Well Adapter Plate
45-0450	HT-P96-2	Disposable 96 Well Electroporation Plate 2 mm
45-0452	HT-P96-4	Disposable 96 Well Electroporation Plate 4 mm
45-0466	HTP25-2P	Disposable 25 Well Electroporation Plates 2 mm pkg. of 6
45-0463	HTP25-4P	Disposable 25 Well Electroporation Plates 4 mm pkg. of 6