MicroJect 1000A Max System

Deliver genes, proteins, macromolecules and microbeads by direct injection

Applications

- Nuclear transfer applications
- Transgenic animal development
- Injection into mouse, xenopus, zebrafish and oocytes
- Intra-cytoplasmic sperm injection
- Extracellular brain injections
- Injection of DNA, mRNA, microbeads and proteins

The MicroJect 1000A delivers targets by direct injection into cells and tissues. It provides consistent, precise delivery of volumes through digitally-controlled, stable pressure regulation maintained for a set time duration. The compressed gas, internally-controlled pressure system delivers desired volumes from femtoliters to microliters.

The Microject 1000A can hold a cell, oocyte or early stage embryo stationary while simultaneously using a separate pressure channel for injections. Get consistent performance injecting large volumes into tissue, or pico volumes for nuclear injections. It is also ideal for the gentle transfer of delicate fetal or stem cells into oocytes.

Pressure Control Features

- Key pressure features maximize injection potential with two negative and three positive pneumatic capabilities.
  - Negative pressure feature allows one to fill micropipettes from their tips.
  - "Fill" feature reduces waste.
  - "Hold" feature lets you immobilize and manipulate a cell or oocyte using a micropipette.
  - Positive pressure feature precisely discharges fluid by using the system's "Clear" function
- Unique "Balance" feature provides a secondary balance pressure to maintain positive pressure on the injection pipette, avoiding the chance of diluting sample due to capillary action.
- Two footswitches included for easy operation of the Clear/Fill features.

Specifications

Input Gas Pressure	70 to 105 psi (480 to 720 kPa)
Injection Pressure	0.2 to 60 psi (413 kPa), regulated, multi-turn control
Balance Pressure	0.1 to 3.5 psi (68.9 kPa), regulated, multi-turn control, other ranges available upon request
Fill Vacuum	Internally produced, -12.0 psi (-82 kPa), unregulated
Holding Vacuum	Internally produced, 0 to 3 in H_2O (0 to 0.75 kPa or 0 to 0.1 psi), regulated
Clearing Pressure	Input gas pressure, unregulated
Injection Timer	0.01 to 0.99 s in 10 ms steps; 1 to 99 s in Pulse Width 1 s steps
Injection Count Display	Digital, 0 through 9999
Duration Mode	Internally timed or externally gated
Time Trigger	Front panel, foot switch, or external TTL pulse (BNC)
Pressure Units	psi/kPa; switch selectable
Pressure Monitor	BNC connector, 10 mV/psi
Pressure Readout	Inject, balance, clear, output port
Line Voltage	100/110/220/240 VAC
Power Usage	220 W
Meter Accuracy	0.1% full scale
Foot Switches	Inject, fill, hold, and gated; provided in Plus and Deluxe packages
Weight	6.8 kg (15 lb)
Dimensions H x W x D	11 x 38 x 25.5 cm (5 x 15 x 10 in)
Accessories Supplied	Input, output and holding hoses

Ordering Information

Item #	Description	Included Items
45-0752	MicroJect 1000A Max System	MicroJect 1000A pico-injector with Injection, Balance, Clear/Fill and Hold pressures. Also included are two Footswitches, Input/Output Hoses, Holding Hose, two Pipette Holders and Input Adaptor for Hoses, Power Cord and Manual
45-0751	MicroJect 1000A Plus System	MicroJect 1000A pico-injector with Injection, Balance, Clear/Fill and Hold Pressure. Includes one Footswitch, Input/Output Hoses, Holding Hose, one Pipette Holder and Input Adaptor for Hoses, Power Cord and Manual
45-0750	MicroJect 1000A Basic System	MicroJect 1000A pico-injector with Injection, Balance, Clear/Fill and Hold Pressure, Power Cord and Manual

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