

Nanoject II/Auto Nanoliter Injector



The Nanoject II is the latest development in the Nanoject family of microinjectors. One of the unique features of the Nanoject II is the use of a higher torque motor than in previous models. This new motor is smoother in operation resulting in substantially reduced tip movement. A new collect configuration holds the micropipette more securely thereby reducing air infiltration and oil leakage. The two-speed fill/inject mode will allow the user to fill and inject at half speed, facilitating the use of smaller micropipettes. The handling of more viscous samples will also be improved. All of the above factors enhance the precise delivery of sample.

Volumes for the Nanoject II range from 2.3 nl to 69 nl. Although previous models of the Nanoject series are excellent for *Xenopus* injections, the smaller tips and smaller injection volumes of the Nanoject II allow users to perform injections into other specimens/applications that previously could not be performed.

Positive displacement technology and the use of precision micropipettes, eliminate the need for tedious calibration when the viscosity of the sample changes. Contaminants in the sample do not hinder or change the injection volume as with some other injectors. An optional universal mounting adapter provides easy mounting of the Nanoject II to a variety of micromanipulators and stereotaxic frames.

- Lower volume (2.3 nl) capability
- 2.3 to 69.0 nl range of volumes
- Minimal vibration
- New improved high torque motor
- Membrane key pad
- Improved micropipette holder
- Two speed injection/fill rates
- Auto 'Home' capability

Specifications

Operation	Automatic
Glass Properties	Softening point 780°C
Glass Dimensions:	
OD	1.14 mm (0.045 in)
ID	0.053 mm (0.021 in)
Injection Speed:	
Fast	46 nl/sec
Slow	23 nl/sec
Fill Speed:	
Fast	46 nl/sec
Slow	23 nl/sec
Empty Speed	92 nl/sec
Volume Range	2.3 nl to 69.0 nl
Change Volume	Dip switches #1 to #4
Change Inject Speed	Dip switch #5
Weight	99.2 g (3.5 oz)

Catalog No.	Product
CGS 8211.75	Nanoject II Nanoliter Injector, 115 V, 60 Hz, US Plug
CGS 8212.75	Nanoject II Nanoliter Injector, 230 V, 50 Hz, European Plug
CGS 8213.75	Nanoject II Nanoliter Injector, 230 V, 50 Hz, UK Plug
CGS 8214.75	Replacement Glass, 88.9 mm (3.5 in) long, OD 1.14 mm (0.045 in) x ID 0.053 mm (0.021 in), vial of 100
CGS 8215.75	Replacement Glass, 177.8 mm (7 in) long, OD 1.14 mm (0.045 in) x ID 0.053 mm (0.021 in), vial of 100
CGS 8216.75	Flared Glass, 90 mm (3.5 in), vial of 100
CGS 8217.75	Standard O-Ring
CGS 8218.75	Special Flared O-Ring
CGS 8219.75	Replacement Wire Plunger
CGS 8220.75	Needle, 30 ga x 51 mm (2 in)
CGS 8221.75	Footswitch
CGS 8222.75	Support Base
CGS 8223.75	Universal Mounting Adapter, see above photo

