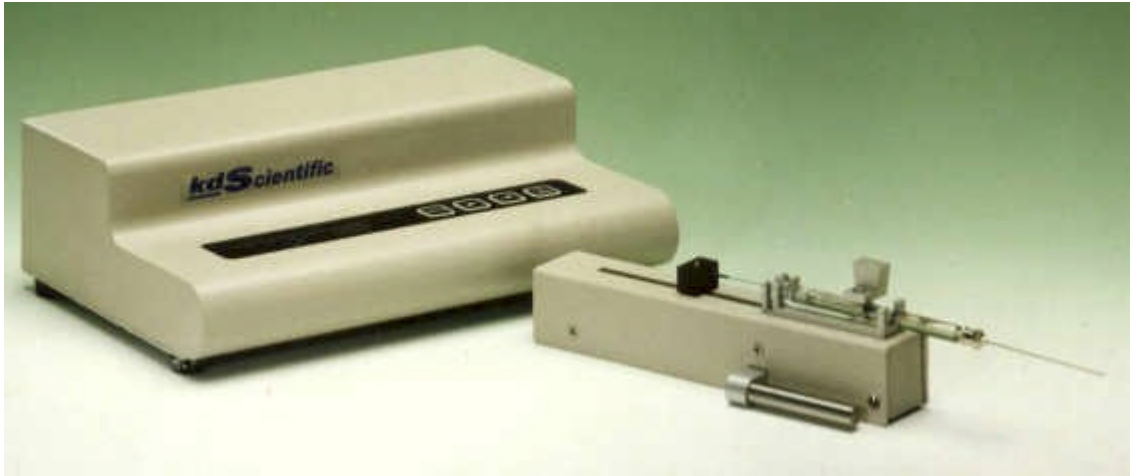


KDS310 Nano Pump



The KDS310 Reversible Nano Pump is used exclusively with micro syringes. Small size, remote control and a rugged mounting arm make it ideal for use with micromanipulator, stereotaxic and other clamping devices.

The single syringe infusion/withdrawal pump consists of a controller and a remote pump head designed to use Hamilton microlitre syringes and deliver nanolitre volumes at low flow rates. The microprocessor based controller uses a bright display and membrane keypad with a simple, menu-prompt system for easy setup. The pump features preset rate and volume control. The dispense volume is displayed continuously and the pump shuts off automatically when the preset volume is dispensed.

Features

- **Mini size** pump
- 1 to 100 microlitre syringe
- Simple menu-driven setup with bright display and keypad
 - select syringe size from displayed table
 - dispense volume
 - dispense flow rate
 - infusion or withdrawal
- Dispense volume is displayed and has automatic shutoff at completion
- Easy syringe loading with pusher block fast forward/fast reverse feature for rapid adjustments.
- Last settings stored in memory

Specifications

Travel:

- 1/2 step = 6.35 microns with a 10 µl syringe 1/2 step = 1.1 nanolitre

Dimensions

- **pump** 16.5x3x4.5 cm [0.16kg]
- **controller** 23x15.2x7.6 cm [1.61kg]
- **connection cable** 180 cm
- **Mounting rod diameter** 0.32 in (8 mm)

Flow Rates

Syringe	Minimum	Maximum	Volume
1 ml	0.01 ml/min	1.25 ml/min	0.001 ml
2 ml	0.01 ml /min	2.5 ml/min	0.001 ml
5 ml	0.01 ml/min	6.35 ml/min	0.001 ml
10 ml	0.01 ml /min	13.75 ml/min	0.001 ml
25 ml	0.03 ml/min	36.4 ml/min	0.01 ml
50 ml	0.1 ml /min	63.3 ml/min	0.01 ml
100 ml	0.1 ml/min	127.4 ml/min	0.01 ml