

Model	Style	Stall Detection	Number of Syringes	Maximum Syringe Size
NE-1002X	Stand-Alone	Yes	1	60 mL; 140 mL partially filled
NE-502X	OEM	Yes	1	60 mL; 140 mL partially filled

Rate & Volume Units:

Rate Units: nL/hr, µL/hr, nL/min, µL/min

Volume Units: nL, µL

RS-232 Command Modifications from Standard NE-1000 Series

Rate Command:

RAT [C | I] [<float> [NM | UM | NH | UH]]

Volume Target and Set Volume Units Command:

VOL [<float> | { NL | UL }]

NM = nL/min

UM = µL/min

NH = nL/hr

UH = µL/hr

NL = nL

UL = µL

Mechanical

Motor type: Step motor
 Motor steps per revolution: 400
 Motor gearbox reduction: 26.832 :1
 Motor to drive screw ratio: 15/28
 Drive screw pitch: 20 revolutions/"
 Micro-stepping: 1/16 to 1/2 depending on motor speed
 Advance per step: 3.96190383 nm to 31.69523064 nm dep

Dimensions: 8 3/4" x 5 3/4" x 4 1/2" (LxWxH) (Non-OEM versions)
 (22.86 cm x 14.605 cm x 11.43 cm)

Weight: 3.8 lbs. (1.63 kg)

Electrical

Power supply type: External wall adapter, power source specific
 Power supply output rating: 12V DC @ 1000 mA
 Power connector: 2.1 mm, center positive, DC
 Voltage at power connector: 12V DC at full load
 Amperage: 750 mA at full load

Operational

Accuracy: Within 1% error
 Reproducibility: Within 0.1% error
 Maximum force: 150 lbs. at minimum speed, 28 lbs. at maximum speed

Syringe inside diameter range: 0.100 to 50.00 mm
 Maximum speed: 0.209143135 cm/min
 Minimum speed: 7.83482E-05 cm/hr
 Maximum pumping rate: 1161 µL/min with a B-D 60 mL syringe
 Minimum pumping rate: 13.59 nL/hr with a B-D 1 mL syringe

Number of Program Phases: 41

RS-232 pump network: 100 pumps maximum
 RS-232 selectable baud rates: 300, 1200, 2400, 9600, 19200

Description:

Model: NE-4002X



- Same description and all the features of the NE-1002X plus...
- Holds 2 syringes up to 60 mL. 140 mL partially filled.
- Advance Per Step: 3.899511644 Nanometers
- See below for example flow rates.
- Dispensing accuracy of +/- 0.5% and reproducibility of +/- 0.2%

Example Flow Rates: NE-4002X

Syringe Size	Maximum Rate	Minimum Rate
0.5 µL	17.15 nL/min	0.007 nL/hr
1 µL	34.46 nL/min	0.013 nL/hr
2 µL	68.60 nL/min	0.026 nL/hr
5 µL	171.8 nL/min	0.065 nL/hr
10 mL	408.7 µL/min	153.2 nL/hr
20 mL	649.9 µL/min	243.5 nL/hr
30 mL	847.8 µL/min	317.7 nL/hr
60 mL	1378 µL/min	516.5 nL/hr

Sample syringe configurations, can hold any size syringes below 60 mL.
 Maximum syringe size: 140 mL, partially filled to about 120 mL.

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