

# NE-1000 Programmable Syringe Pump



<b>Models</b>
<b>NE-1000 Single Syringe Pump</b>
<b>NE-4000 Double Syringe Pump</b>
<b>NE-1600/NE-1800 Multi-Syringe Pumps</b>
<b>NE-500 OEM Syringe Pump</b>
<b>NE-300 "Just Infusion"™</b>
<b>NE-1002X Microfluidics Syringe Pump</b>
<b>NE-9000 Dispensing Peristaltic Pump</b>
<b>NE-7000 Adhesive Dispenser</b>
<b>Disruptor, Homogenizer &amp; Rocker</b>
<b>Accessories</b>
<b>Syringes and Plumbing Supplies</b>
<b>Pump Accessories</b>
<b>Syringe Heater</b>
<b>Closed Loop Analog Sensor Interface</b>

## Special Application: Continuous Infusion (Push-Pull) and Dual Syringe Pump

Using 2 NE-1000 pumps attached with a cable, one pump will infuse while the other pump refills or have simultaneous infusion.

### Features:

- Fully programmable; automation capable
- Operates stand-alone or from a [computer](#)
- Infusion and withdrawal
- Set a single pumping rate and/or dispensing volume
- Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer
- Network, control, and monitor up to 100 pumps with one computer
- [Worldwide power supplies available](#)
- Motor stall detection
- Dispensing accuracy of +/-1%
- Unlimited lifetime technical support
- Two year warranty

### Model & Firmware Options :

- Available in [Higher Pressure \(NE-1010\)](#), and [Microfluidic \(NE-1002X\)](#) and [OEM \(NE-500\)](#) versions
- [Firmware Upgrades](#) available to enable Linear Pumping and to increase Pumping Program Memory

<b>Special Applications</b>
<b>Continuous Infusion, Dual Pump System</b>
<b>Linear/Gradient Pumping Upgrade</b>
<b>Pumping Program Memory Upgrade</b>
<b>OEM Pump &amp; Other Design Services</b>
<b>Resources</b>
<b>Research Papers</b>
<b>Frequently Asked Questions</b>

## Example Flow Rates (NE-1010):

Syringe Size (cc)	Maximum Rate (mL/hr)	Minimum Rate (µL/hr)
0.5 µL	91.83	0.001
1 mL	191.2	1.459
3	693.4	5.291
5	1462	11.17
10	2160	16.49
20	3514	26.82
30	4619	35.25
60	7635	58.26

Need higher flow rates?  
Give us a call, we have other models available

## Firmware Upgrades

Model: [FW-1-X](#)

Price: add US \$105 to any NE-1000 model

Extra Features: X upgrade is Linear/Gradient flow rate ramping, and additional advanced programming possibilities.

Model: [FW-1-X2](#)

Price: add US \$205 to any NE-1000 model

Extra Features: X2 upgrade includes all features of the X model plus increases the number of programmable phases from 41 to 340, and increases the max RS-232 baud rate to 38,400

Sample syringe configurations, can hold any size syringes below 60 cc.





Example Flow Rates (NE-1000):

Syringe Size (cc)	Maximum Rate (mL/hr)	Minimum Rate (µL/hr)
0.5 µL	25.49	0.001
1 mL	53.09	0.73
3	192.5	2.646
5	406.1	5.581
10	600	8.244
20	975.8	13.41
30	1282	17.63
60	2120	29.13

Need higher flow rates?  
Give us a call, we have other models available

Sample syringe configurations, can hold any size syringes below 60 cc.

Maximum syringe size:

Although a maximum of a 60 cc syringe is specified, the pump can hold up to a 140 cc syringe but can only open up to about 120 cc lengthwise

High pressure notes:

The NE-1000 produces about 15 lbs of linear force at top speed and about 35 lbs at slow speeds. 10 ml/hr is an example of slow speed. The pressure that can be generated is relative to the syringe size. On a 60 ml syringe, this would roughly produce about 30 psi

The high pressure version, NE-1010, will approximately double the pumping force at the same speeds.

NE-1010 Higher Pressure Variant (Motor Upgrade) Syringe Pump  
Model: NE-1010 Price: US \$830

## NE-1000 Single Syringe Pump



Model: NE-1000

Price: US \$750

### Description:

- Holds 1 Syringe up to 60 cc\*
- Infusion rates from 0.73  $\mu\text{L/hr}$  ( 1 cc syringe) to 2100 ml/hr (60 cc syringe)
- Easy-to-use keypad interface
- Space Saving Chassis: Foot print size of only 5 3/4" x 8 3/4"  
Won't take up unnecessary space on your laboratory or production bench
- Includes all the advanced functions and programming features of the NE-1000 family
- Disposable, Glass, Stainless Steel Syringes and Plumbing Supplies are sold separately.