

NE-1010 Programmable Single Syringe Pump \$830 (USA List (in USD))

Continuous Infusion High Pressure Syringe Pump System
DUAL-NE-1010: \$1670
OEM High Pressure Syringe Pump
NE-510: \$535
OEM High Pressure Syringe Pump w/Encoder
NE-511: \$590



NE-1000 Family of Syringe Pumps
- ***Built For Automation*** -

NE-1010- Features

Accepts 1 syringe from the smallest size available up to 60 mL. A 140 mL syringe can be filled up to 120mL. NE-1010 pumping rate as low as 1.459 μ L/hr with a 1 mL syringe or as high as 127.2 mL/min with a 60 mL syringe and 208.3 mL/min with a 140 mL syringe. For more information on the OEM versions refer to the NE-500 brochure. For more information on the Continuous Infusion version refer to the DUAL-NE-1000 brochure.

The NE-1000 Family of Syringe Pumps Features

- Built for Automation
- Operates stand-alone or from a computer
- Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer
- RS-232 and TTL logic control interfaces

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ECHnology Pty Ltd

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au

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****Not For Clinical Use On Humans****

NEW ERA SyringePump.com
Pump Systems Inc.
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New Era Pump Systems, Inc.
138 Toledo St. • Farmingdale, NY 11735 • 631-249-1392



NE-1010 Single Syringe Pump Maximum and Minimum Flow Rates

| Mfgr. | Syringe (cc) | ID (mm) | Max Rate (ml/hr) | Min Rate (µl/hr) | Max Rate (mL/min) |
|------------------------------|--------------|---------|------------------|------------------|-------------------|
| B-D | 1 | 4.699 | 191.1 | 1.459 | 3.185 |
| | 3 | 8.585 | 637.9 | 4.868 | 10.63 |
| | 5 | 11.99 | 1244 | 9.495 | 20.74 |
| | 10 | 14.43 | 1802 | 13.76 | 30.04 |
| | 20 | 19.05 | 3141 | 23.97 | 52.35 |
| | 30 | 21.59 | 4035 | 30.79 | 67.25 |
| | 60 | 26.59 | 6120 | 46.7 | 102 |
| HSW Norm-Ject | 1 | 4.69 | 190.4 | 1.453 | 3.173 |
| | 3 | 9.65 | 806.1 | 6.151 | 13.43 |
| | 5 | 12.45 | 1341 | 10.24 | 22.36 |
| | 10 | 15.9 | 2188 | 16.7 | 36.47 |
| | 20 | 20.05 | 3479 | 26.55 | 57.99 |
| | 30 | 22.9 | 4539 | 34.64 | 75.65 |
| | 50 | 29.2 | 7380 | 56.32 | 123 |
| Monoject | 1 | 5.74 | 285.2 | 2.176 | 4.753 |
| | 3 | 8.941 | 692 | 5.28 | 11.53 |
| | 6 | 12.7 | 1396 | 10.66 | 23.26 |
| | 12 | 15.72 | 2139 | 16.33 | 35.65 |
| | 20 | 20.12 | 3504 | 26.74 | 58.4 |
| | 35 | 23.52 | 4788 | 36.54 | 79.81 |
| | 60 | 26.64 | 6143 | 46.88 | 102.3 |
| | 140 | 38.00 | 9999 | 95.37 | 208.3 |
| Terumo | 1 | 4.7 | 191.2 | 1.459 | 3.187 |
| | 3 | 8.95 | 693.4 | 5.291 | 11.55 |
| | 5 | 13 | 1462 | 11.17 | 24.38 |
| | 10 | 15.8 | 2160 | 16.49 | 36.01 |
| | 20 | 20.15 | 3514 | 26.82 | 58.57 |
| | 30 | 23.1 | 4619 | 35.25 | 76.98 |
| | 60 | 29.7 | 7635 | 58.26 | 127.2 |
| Poulten & Graf (Glass) | 1 | 6.7 | 388.5 | 2.965 | 6.476 |
| | 2 | 8.91 | 687.2 | 5.244 | 11.45 |
| | 3 | 9.06 | 710.5 | 5.422 | 11.84 |
| | 5 | 11.75 | 1195 | 9.119 | 19.91 |
| | 10 | 14.67 | 1862 | 14.22 | 31.04 |
| | 20 | 19.62 | 3332 | 25.43 | 55.53 |
| | 30 | 22.69 | 4456 | 34.01 | 74.27 |
| | 50 | 26.96 | 6291 | 48.01 | 104.8 |
| | 100 | 34.21 | 9999 | 77.3 | 168.8 |

| | Syringe (µl) | ID (mm) | Max Rate (µl/hr) | Min Rate (µl/hr) | SGE Syringe (mL) | ID (mm) | Max Rate (ml/hr) | Min Rate (µl/hr) |
|--|--------------|---------|------------------|------------------|------------------|---------|------------------|------------------|
| SGE (Glass - Gas Tight) | 5 | 0.343 | 1081 | 0.008 | .25 | 2.303 | 45.91 | 0.351 |
| | 10 | 0.485 | 2036 | 0.016 | .5 | 3.257 | 91.82 | 0.701 |
| | 25 | 0.728 | 4587 | 0.036 | 1 | 4.606 | 183.6 | 1.402 |
| | 50 | 1.03 | 9183 | 0.071 | 2.5 | 7.284 | 459.2 | 3.505 |
| | 100 | 1.457 | 9999 | 0.141 | 5 | 10.3 | 918.3 | 7.007 |
| Hamilton Micro- litre (Glass) | 0.5 | 0.103 | 91.83 | 0.001 | 10 | 14.57 | 1837 | 14.03 |
| | 1 | 0.146 | 184.5 | 0.002 | 25 | 23.03 | 4591 | 35.03 |
| | 2 | 0.206 | 367.3 | 0.003 | 50 | 27.5 | 6546 | 49.95 |
| | 5 | 0.326 | 919.9 | 0.008 | 100 | 34.99 | 9999 | 80.86 |


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Specifications

Mechanical & Electrical

| | |
|-----------------------------|---|
| Syringe sizes: | Up to 60 cc |
| Number of syringes: | 1 |
| Motor type: | Step motor |
| Motor steps per revolution: | 200 |
| Motor to drive screw ratio: | 15/28 |
| Drive screw pitch: | 20 revolutions/” |
| DC connector: | 2.5 mm, center positive |
| Voltage at DC connector: | 12V DC at full load |
| Amperage: | 1000 mA at full load |
| Power supply type: | Unregulated linear external wall adapter, country and power source specific |
| Power supply output rating: | 12V DC @ 1000mA High |
| Dimensions: | 8.25” x 5.91” x 4.12” High (22.86 cm x 14.605 cm x 11.43 cm) |
| Weight: | 3.8 lbs. (1.63 kg) |
| Allen Wrench | 3/32 Hex |

Operational

| | |
|--------------------------------|---|
| Maximum speed: | 18.36964 cm/min |
| Minimum speed: | 0.008409 cm/hr |
| Maximum pumping rate: | 6120 mL/hr with a B-D 60 cc syringe |
| Minimum pumping rate: | 1.459 µL/hr with a B-D 1 cc syringe |
| Maximum force: | 100 lbs. at minimum speed, 18 lbs. at maximum speed |
| Number of Program Phases: | 41 |
| RS-232 pump network: | 100 pumps maximum |
| RS-232 selectable baud rates: | 300, 1200, 2400, 9600, 19200 |
| Syringe inside diameter range: | 0.100 to 50.00 mm |

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