

Welcome to

SuringePump.com

Clever Pumps, Priced Right!



Syringe Pumps:

\$275 Just Infusion™

Full Featured Programmable Syringe Pumps:

One Channel

Two Channel

Six, Eight, and Twelve Channel

High Pressure

Microfluidics

OEM & Custom Pumps

Volumetric Dispensing:

Peristaltic Pumps

Peristaltic Plumbing

Advanced Pump Systems:

2 Pump Advanced Systems

The Next Generation Continuous Infusion Syringe Pump System

Linear/Gradient Pumping and Advanced Features

Syringe Heater

Syringes & Plumbing Supplies

Plastic Syringes & Kits

Glass Syringes

Steel Syringes

Plumbing Supplies

Accessories:

Closed Loop Analog Sensor Interface

Pump Software

NE-8000 High Pressure Programmable Single Syringe Pump



Suggested List Price: \$2500 USD Model: NE-8000

Description:

- Holds 1 Syringe up to 140 mL. (200 mL partially filled)
- Infusion rates from 1.733 µL/hr (1 mL syringe) to 340.6 mL/min (140 mL syringe)
- · Easy-to-use keypad interface
- Space Saving Chassis: Foot print size of only 11 1/4" x 6 1/8"
- · Won't take up unnecessary space on your laboratory or production bench
- · Includes all the advanced functions and programming features of the NE-1000 series
- Download NE-1000 Series User Manual
- Download NE-8000 Addendum and Brochure

200 lbs Maximum Force:

The NE-8000 produces about 200 lbs of linear force at slow speeds and 100 lbs at top speed. Pressure output is relative to the syringe size.



Click image to download New Era 2013 Catalog



Australian Distributors

Importers & Manufacurers www.chromtech.net.au

Website NEW: www.chromalytic.net.au E-mail: info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

Prices are in USD (List Prices) AUD=USD*1.63

Features of the NE-8000 Series of Syringe Pumps:

- Built-in adjustable and programmable limit switches for infusion and withdrawal
- · Adjustable force limit reduces maximum force
- · Fully programmable; Designed for automation
- · 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
- . Dispensing accuracy of +/-1%
- · Unlimited lifetime technical support
- Two year warranty

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

Using 2 NE-8000 pumps attached with a cable, one pump will infuse while the other pump refills or have simultaneous infusion.

Example Flow Rates NE-8000:

- · For a more complete list of flow rates, download addendum.
- · Need higher flow rates? Contact us. We have other models available.
- Disposable, Glass, Stainless Steel Syringes and Plumbing Supplies are sold separately.

Syringe Size	Maximum Rate	Minimum Rate
0.5 µL	150.1 µL/hr	0.001 µL/hr
1 mL	311.3 mL/hr	1.726 µL/hr
3 mL	1317 mL/hr	7.306 µL/hr
5 mL	2193 mL/hr	12.17 µL/hr
10 mL	3577 mL/hr	19.84 µL/hr
20 mL	5689 mL/hr	31.54 µL/hr
30 mL	7421 mL/hr	41.15 µL/hr
50 mL	201.1 mL/min	66.9 µL/hr
140 mL	340.6 mL/min	113.3 µL/hr



Prices are in USD (List Prices) AUD=USD*1.63

Firmware and Program Memory Upgrade Options:

· Firmware Upgrades available to enable Linear Pumping, add additional programming functions, and to increase Pumping Program Memory

Model: FW-1-X

Price: add \$105 USD to any NE-8000 model

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

Model: FW-1-X2

Price: add \$205 USD to any NE-8000 model

Extra Features: X2 upgrade includes all features of the X firmware upgrade, plus increases the programming memory from 41 to 340 Phases, and increases the max RS-232 baud rate to 38,400.

SyringePumpPro is fully compatible with syringe pumps!



Take Your Pump Control to the Next Level! on your project.

International Orders

New Era Pump Systems, Inc. product line is supported around the globe by our distribution network. You can order our products from our international distributors. Our syringe pumps are CE certified and we have international power supplies available. Click here for more important details.







New Era Pump Systems Inc.

www.SyringePump.com

NE-8000 Syringe Pump

Model NE-8000 High Pressure Syringe Pump

Features

- All Programming features of the NE-1000 syringe pump.
- Syringes size up to 140 mL. 200 mL partially filled (About 160 mL).
- Pumping force over 200 lbs.

Adjustable force limit: Force adjustment knob reduces the maximum force to reduce damage to syringes.

Limit Switches

- Two adjustable limit switches: One sets the infusion limit, one sets the withdrawal limit. To adjust the limit switches, loosen the white thumbscrew, then slide the collar to the required position. Then re-tighten the thumbscrew.
- When the pusher block reaches a limit switch, the pump will either: 1) Trigger a Program Event function;
 - 2) Continue with the next Program Phase; 3) Stop the pump.

If a Program Event is set (Event Function), the Event trap will be triggered and the Pumping Program will continue execution with the Program Phase set in the Event Function.

Otherwise, the Pumping Program will start the next Program Phase <u>unless</u> the next Program Phase pumps in the same direction. This is a safety feature to prevent attempting to pump past the limit switch. The pump will instead stop.

Limit switches can be used as a program volume target. Limit switches will override the volume target setting.

Additional Notes

- Does not have stall detection.
- Pusher block has a solid nut block. It is not releasable.
- To position the pusher block, use the purge function: Set the pumping direction with the direction key ' + ', then press and hold the 'Start/Stop' key. The display will indicate and the pusher block will move at top speed in the set direction. Release the 'Start/Stop' key to stop the pump.

Maintenance

- Periodic lubrication is required for proper operation. Failure of the nut block can occur if not properly lubricated.
- Lead-screw: Grease
- Guide Rods: Oil
- Remove accumulation of dirt or debris

WARNING

Use extreme caution. The NE-8000 can deliver enough force to break syringes or any objects that get caught in the mechanism. Broken syringes and associated plumbing can create dangerous projectiles that can cause bodily harm. Keep fingers and loose clothing away from mechanism.



New Era Pump Systems Inc. www.SyringePump.com NE-8000 Syringe Pump

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SGE	Inside	Maximum	Minimum
Syringe	Diameter	Rate	Rate
(mL)	(mm)	(mL/hr)	(µL/hr)
0.25	2.303	75.06	0.417
0.5	3.257	150.1	0.833
1	4.606	300.2	1.665
2.5	7.284	750.8	4.163
5	10.3	1501	8.323

SGE Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/min)	Minimum Rate (μL/hr)
10	14.57	50.07	16.66
25	23.03	125.1	41.61
50	27.5	178.3	59.33
100	34.99	288.7	96.05

Specifications

Mechanical & Electrical

Model	<u>Style</u>	Stall Detection	Number of Syringes	Maximum Syringe Size
NE-8000	Stand-Alone	No	1	140 mL 200 mL (Partially filled 160 mL)

Drive block type: Solid (Must use Purge function to move pusher block).

Motor type:Step motorMotor steps per revolution:200Motor to drive screw ratio:14/22

Drive screw pitch: 20 revolutions/"

Power supply type: External, country and power source specific

Power supply output rating: 24V DC @ 1200 mA

Power connector: 2.1 mm, center positive, DC

Voltage at power connector: 24V DC at full load Amperage: 1200 mA at full load

Dimensions: 11 1/4" x 6 1/8" x 6 3/8" LxWxH

(28.575 cm x 15.5575 cm x 16.1925 cm)

Weight: 7.8125 lbs. (3.55 kg)

Operational

Maximum force: 200 lbs.

Micro-stepping: 1/8 to 1/1 depending on motor speed

Advance per step: 0.50511364 µm to 4.040909 µm depending on motor speed

Maximum speed: 30.033 cm/min
Minimum speed: 0.00998882 cm/hr

Maximum pumping rate: 340.6 mL/min with a 140 mL syringe Minimum pumping rate: 1.733 μL/hr with a B-D 1 mL syringe

Syringe inside diameter range: 0.100 to 50.00 mm

Number of Program Phases: 41

RS-232 pump network: 100 pumps maximum

RS-232 selectable baud rates: 300, 1200, 2400, 9600, 19200





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Volumetric Dispensing:

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Advanced Pump Systems:

2 Pump Advanced Systems

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Linear/Gradient Pumping and Advanced Features

Syringe Heater

Syringes & Plumbing Supplies

Plastic Syringes & Kits

Glass Syringes Steel Syringes

Plumbing Supplies

Accessories:

Closed Loop Analog Sensor Interface

Pump Software

All Accessories

Frequently Asked Questions

Research Papers

Downloads

Pump Accessories



RS-232 & USB

Primary Network Cables



Ana-Box - Analog Control Interface

RS-232 Secondary

Network Cable



Hand Pendant



OEM Starter Kit & Net Starter Kit



Electronic Valve Control Boxes



Two 50 mt. A. Company A STATE OF **Dual Pump Plumbing Kit**



Syringe Heater Kit

Heater Kit is shown for demonstration purposes. Syringe pump and syringe are not included



Model: HEATER-KIT-1LG



Model: HEATER-KIT-5SP

Description:

Thermo-Kinetic Heat Clamp for syringes that require temperature-controlled dispensing. Heats up to 185°C.

Specification Notes:

- Available in 2 versions:
 - 1LG Heating Pad: 3.5" x 3.0" LxW (9 cm x 7.5 cm)
 - 5SP Heating Pad: 20" x 0.625" LxW (50 cm x 1.5 cm)
- Heater Kit includes control unit and primary syringe heater pad 1LG version or 5SP version.
- Multiple syringe heater pads can be attached to the control unit, under restricted conditions.
- Set point and other parameters retained in memory
- Digitally sets the heater set point
- Controller will heat the syringe and hold the set temperature using an on/off or Thermo-kinetic control algorithm.
- Dual temperature sensors in primary heating pad.
- · Alarm modes with multiple layers of protection to prevent temperature overrun.
- Additional heat protection for the pump may be needed when heating syringes above 100°C.
- If you are in a country where the voltage is above 120V, you must purchase a step-down transformer (Model: PWR-220-110-E) along with the Heater Kit.
- **Detailed Description**



Catalog:



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Second Heating Pad



Model: HEATER-PAD2-1LG

Model: HEATER-PAD2-5SP

Model	Size	Attaches a Second Heating Pad To:
HEATER-PAD2- 1LG	3.5" x 3.0" LxW (9 cm x 7.5 cm)	HEATER-KIT-1LG
HEATER-PAD2- 5SP	20" x 0.625" LxW (50 cm x 1.5 cm)	HEATER-KIT-5SP

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Third and Additional Heating Pads

Suggested List Price: \$100 USD



Model: HEATER-PAD3-1LG

Model: HEATER-PAD3-5SP

Model	Size	Attaches a Third+ Heating Pad To:
HEATER-PAD3- 1LG	3.5" x 3.0" LxW (9 cm x 7.5 cm)	HEATER-PAD2-1LG
HEATER-PAD3- 5SP	20" x 0.625" LxW (50 cm x 1.5 cm)	HEATER-PAD2-5SP

Specification Notes:

- Only use identical primary and secondary heater pads together.
- Each syringe heater control unit uses only the primary heating pad to sense temperature. All secondary heater pads connected to that control unit function according to temperature at the primary heater pad.
- Careful consideration should be taken when using secondary/slave heater pads.
- For different temperatures or variable environments, use separate control units with primary heater pads.
- Plugging more than 12 syringe heater pads onto one controller is not recommended.
- Detailed Description

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Ana-Box Closed Loop Analog Sensor Interface

Model: ADPT-ANABOX-11 Suggested List Price: \$99 USD



Description:

- Vary the pumping rate in proportion to a variable voltage input
- Start or stop pump at set voltages
- Vary the pumping rate to maintain a voltage window
- Attaches to any pump in the NE-1000 or NE-9000 Series
- Click Here For A Detailed Description

Foot Switch

Model: ADPT-FOOTSW-2 Suggested List Price: \$25 USD



Description:

- Start, stop, or send a signal to a pumping program
- 20 foot cable
- · Quick and easy setup
- Utilizes the TTL logic port on the pump
- Attach to any pump in the NE-1000 or NE-9000 Series for remote operation

Foot Switch Extender

Model: CBL-TTL-EXT Suggested List Price: \$45 USD

Description:

· 100 foot extension cable for the foot switch

Hand Pendant

Model: ADPT-HAND-SW Suggested List Price: \$60 USD

Description:

· Hand held pendant for remote operation of pump

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Pump-to-PC RS-232 Primary Network Cable

Model: CBL-PC-PUMP-7 (7 ft. cable)

Model: CBL-PC-PUMP-25 (25 ft. cable)

Suggested List Price: \$15 USD

Suggested List Price: \$17 USD

Description:

- Allows full control of pump or other device from a computer
- DB-9 adapter connects to 9-pin serial port (25-pin adapters available upon request)
- Utilizes the RS-232 communications port of device
- Available in 7' and 25' length cable
 - Quick and easy setup
- Download FREE pump terminal emulator

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RS-232 to USB Converter

Model: CBL-USB232 Suggested List Price: \$10 USD



Description:

- Adds an RS-232 serial port to your computer by attaching to a USB port
- Includes software driver CD
- Attaches to cable CBL-PC-PUMP-7

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Pump-to-Pump Secondary Network Cable

Model: CBL-NET-7 (7 ft. cable)

Suggested List Price: \$2 USD

Model: CBL-NET-25 (25 ft. cable)

Suggested List Price: \$4 USD



Description:

- Allows networking of two or more pumps or other device to a single computer
- · Quick and simple setup
- Utilizes the RS-232 communications port of device
- Available in 7' and 25' length cable

• Requires first device to be connected with primary network cable

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Dual Pump Plumbing Kit

Model: P-DKIT Suggested List Price: \$20 USD

Description:

- For use with our continuous infusion system or dual infusion system
- Provides dual check valves for two syringes, withdraw will pull fluid from a reservoir and infusion will output into a separate line
- The kit is pre-assembled just attach the syringes
- Each dual check valve uses 6" of 1/8" ID tubing connected to a Y connector, one for reservoir and one for output; each Y-connector has 5' of tubing to make connections to your application.
 Two 50 mL NormJect® Syringes are included



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Pump Synchronization Cables

Model: CBL-DUAL-3 Suggested List Price: \$10 USD

Description:

- Used for creating a continuous infusion system, dual infusion system, or one of the other 2 pump automation modes.
- Establishes a communications link between two pumps using the RS-232 serial ports on the pumps.
- Replaces cable CBL-TTL-1, unless the use of the TTL ports for synchronization is preferred
- Download User Manual

Model: CBL-TTL-1

Suggested List Price: \$20 USD

Description:

- Used for creating a continuous infusion system or dual infusion system
- Synchronize pumping direction of two pumps so that they change directions, start, and stop as one unit
- Utilizes the TTL logic port on pump
 See new version above for using the RS-232 ports
- 7' cable
- · Quick and easy setup

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Lockout Mode Disable Key

Model: ADPT-LOCKOUT



Suggested List Price: \$10 USD Description:

- For use with a syringe or peristaltic pump's Lockout Mode
- Prevent unauthorized or accidental changes to the settings by locking the keypad
- The Lockout Disable key unlocks the keypad and allows settings to be changed
- Attaches to the TTL logic port on the syringe or peristaltic pump
- Quick and easy setup



OEM Starter & Net Kits:

For NE-5XX OEM models only Model: OEM-STARTER



Model: OEM-NET

Description:

 Allows user to interactively communicate to the pump with a computer

Suggested List Price: \$25 USD

 Includes: power supply, Pumpto-PC network cable (CBL-PC-PUMP-7) and user manual

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Suggested List Price: \$15 USD

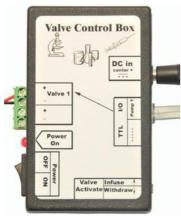
Description:

 Power supply and secondary cable only. For use when networking two or more OEM NE-500 syringe pumps together. Must use the secondary cable in order to complete this application.

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Single Valve Control Box

Model: ADPT-VALVE-INTERFACE-1



Description:

 Attach your 12V DC valve and the control box will open or close your valve according to the pumping direction

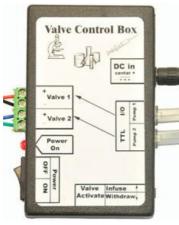
Suggested List Price: \$85 USD

- Utilizes the TTL logic port on syringe pump
- Includes power supply for valve

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Dual Valve Control Box

Model: ADPT-VALVE-INTERFACE-2



Description:

 Attach your two 12V DC valves and the control box will open or close your valves according to the pumping directions of your two pumps

Suggested List Price: \$100 USD

- Includes CBL-TTL-1 cable to allow synchronized pumping between two pumps
- Utilizes the TTL logic ports on both syringe pumps
- Includes power supply for valves

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