



New Era Pump Systems

Product Catalog

“What’s Your Application?”™

**NEW
ERA**
Pump Systems Inc.
SyringePump.com

Catalog Contents



Looking for a product not shown in this catalog?
We offer additional products and Custom Solutions.

Contact us to learn more:



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InfusionONE by New Era Pump Systems

The **InfusionONE*** is a syringe pump capable of infusing fluids at extremely low or high rates with exceptional accuracy to meet your every need. With its sleek, space-saving design and easy-to-use interface that saves stored settings, it is the ideal tool to use any time a syringe is used. It is designed to contain just the features you need at a fraction of the cost



Highlights

- **Simple interface** to learn and operate.
- Pumping Precision, within $\pm 1\%$ accuracy.
- Rates from $.73 \mu\text{L/hr}$ to 1568 mL/hr .
- **Infuses fluids** with **celerity** and **reliability**.
- Supports syringes from 1 mL to 140 mL.
- Infusion **settings can be saved** and loaded on start-up.
- **Power Failure mode** resumes infusing after sudden power interruptions.
- Space saving footprint; only 5.75" x 8.75".
- **2 year warranty** and **lifetime technical support**.

* This product is not an FDA cleared device.

3-Step Setup

1. Set the syringe
Diameter
2. Set the pumping
Rate
3. Insert the syringe and
Start



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Visit us on the web:
www.SyringePump.com



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Looking for more pumping features?
Visit www.SyringePump.com to view our wide selection of syringe pumps
and the array of features and functions they offer.

Fast, Easy, Precise.

SyringeONE by New Era Pump Systems

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The **SyringeONE*** is a single channel syringe pump capable of infusing or withdrawing fluids at extremely low or high rates. It contains features not available in the **InfusionONE**, such as stall detection, programmable dispense volumes, and more.



Applications



4-Step Setup

1. Set the syringe
2. Set the pumping
3. Select the direction
4. Insert the syringe and

Highlights

- **Simple interface** to learn and operate.
- Pumping Precision, within +/- 1 % **accuracy**.
- **Infusion** and **withdrawal** rates from .73 $\mu\text{L/hr}$ to 2120 mL/hr.
- Infuses and withdraws fluids with **celerity** and **reliability**.
- Supports syringes from 1 mL to 140 mL.
- **Easy to program** simple dispenses, continuous flow, complex automation and more via the keypad or a PC.
- Available in a **High Pressure** version, which has double the force of the standard **SyringeONE**.
- Space saving footprint; only 8.75" x 5.75".
- **2 year warranty** and **lifetime technical support**.
- Can be **upgraded** with advanced firmware versions.

* This product is not an FDA cleared device.

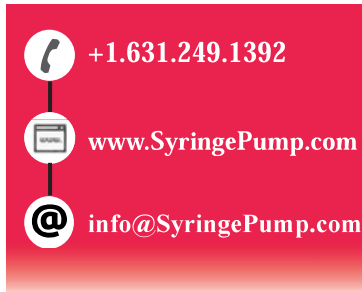
Looking for more pumping features?

Visit www.SyringePump.com to view our wide selection of syringe pumps and the array of features and functions they offer.

Fast, Easy, Precise.



SyringeTWO by New Era Pump Systems



The SyringeTWO is two channel syringe pump that is able to infuse or withdraw using two syringes simultaneously. Both syringes infuse or withdraw at the same rate.



Comes with advanced functions and features including:

- Selectable Sub-Programs
- RS-232 Control
- Stall Detection
- Power Failure Mode
- TTL logic I/O firmware inputs
- and many more!

- Can **dispense or withdraw** fluids simultaneously.
- Can hold **two** of the same or different sized syringes, up to 140 mL each.
- **Easy to program** simple dispenses, continuous flow, complex automation and more via the keypad or a PC.
- Program and store up to **41 unique phases**.
- Flow Rates from **1.436 μ L/hr to 7515 mL/hr**.
- Space saving dimensions of 8.75" x 5.75" x 4.50"
- Network up to 100 pumps together.
- **Two year** warranty and **lifetime** technical support.



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MicroFLUIDICS by New Era Pump Systems



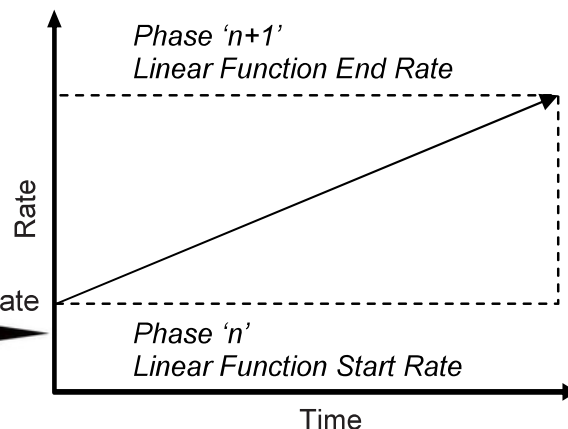
SKU: 1002X



SKU: 4002X

Features:

- All of the same programming features as the SyringeONE / SyringeTWO.
- Supports syringe sizes from .5 μ L to 140 mL.
- Smooth, precise pumping at ultralow flow rates.
 - From 0.007 nL/hr to 2505 μ L/min (model, syringe dependent).
 - **Linear/Gradient Pumping Feature:** Delivers a smooth, linear flow rate
 - Advance per step: 4.185267857 nm
 - Dispense accuracy within $\pm 0.5\%$
- Upgradeable to X or X2 firmware versions



Microfluidic pumps are also available in Single and Dual Channel OEM Versions!

Single Channel = SKU: 502X
Dual Channel = SKU: 4502X



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MULTISyringe by New Era Pump Systems

The **MULTISyringe*** is a syringe pump capable of infusing and withdrawing fluids at extremely low or high rates with exceptional accuracy to meet your every need. With its sleek, space-saving design and easy-to-use interface that saves stored settings, it is the perfect device to use when pumping with multiple syringes at once. It is capable of utilizing up to 12 syringes (*model dependent*).



Highlights

- **Simple interface** to learn and operate.
- Pumping Precision, within +/- 1 % accuracy.
- Rates from .454 µL/hr to ... and syringes from 1 mL to ...

Model	Number of Syringes	Maximum Syringe Size	Maximum Pumping Rate
SyringeSIX	6	140 mL	1451 mL/hr <i>with a B-D 60 mL syringe</i>
SyringeEIGHT	8	10 mL	410.7 mL/hr <i>with a B-D 10 mL syringe</i>
SyringeTWELVE	12	3 mL	153.2 mL/hr <i>with a B-D 3 mL syringe</i>

- Can be **upgraded** with **advanced firmware** versions.
- Pumping **settings can be saved** and loaded on start-up.
- **Power Failure mode** resumes infusing after sudden power interruptions.
- Space saving footprint; only 10 1/4" x 15" x 5"
- **2 year warranty** and **lifetime technical support**.
- Program up to 41 pumping phases via the **keypad or PC**.

* This product is not an FDA cleared device.

Applications



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SyringeONE - High Pressure

by New Era Pump Systems



SKU: 8000

Features:

- All of the same programming features as the SyringeONE.
- Supports syringe sizes from 1 mL to 200 mL.
- Ideal for High Pressure Applications - capable of pumping with up to **200 lbs. of force.**
 - Rates from 1.733 μ L/hr to 340.6 mL/min.
 - Dispense accuracy within $\pm 1\%$
- Upgradeable to X or X2 firmware versions

Custom Modifications can be made to suit your application.
Please contact your dealer if you have an inquiry.



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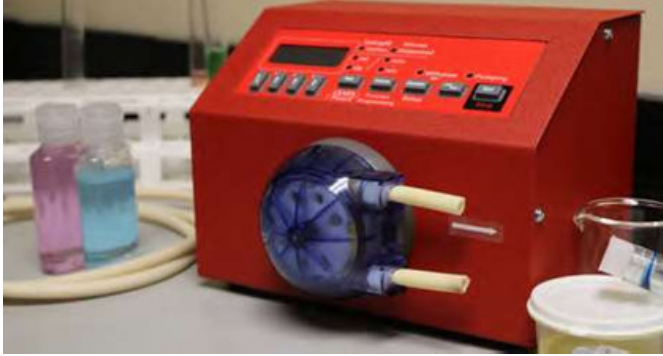


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PeriPumpONE^{*} by New Era Pump Systems



The pump head NEVER comes into contact with fluid!

- **Peristaltic Pump** that can **dispense** or **withdraw** fluids.
- Interchangeable models of pump heads.
- **Customizable** pumping modes to maximize accuracy, efficiency, and integrity of products.
- **Easy to program** simple dispenses, continuous flow, complex automation and more via the keypad or a PC.
- Flow Rates from **.004 mL/min to 1038 mL/min**.
- Space saving dimensions of 7.75" x 5.25" x 5.75"
- Network up to 100 pumps together.
- **Two year** warranty and **lifetime** technical support.

* This product is not an FDA cleared device.

BLUE



Blue Head Kit

- Best for pumping at higher flow rates and larger dispense volumes
 - Flow rates from **.035 mL/min to 775.2 mL/min**

GREEN



Green Head Kit

- Best for pumping at a low, precise flow rate and dispense volume
 - Flow rates from **.004 mL/min to 75.19 mL/min**

CLEAR



Clear Head Kit

- Best for pumping at the highest flow rates and dispense volumes
 - Flow rates from **.04 mL/min to 1038 mL/min**

All models come with features **OPTIMIZED** for dispensing and withdrawing fluids, including:

- Learn and Repeat - easily teach then repeat a set dispense setting.
- Slow Down - slows down the pumping rate as the desired volume is reached.
- Anti-Drip - prevents dripping or oozing of fluids when the pump stops.
- Calibration - improves pumping accuracy to under a 3% degree of error.

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PeriPumpONE:



Peristaltic Plumbing & Tubing

Industrial Grade Tubing

Industrial Grade Tubing consistently outlasts and outperforms EPDM specialty rubber tubing and other general purpose tubing, regardless of application. Industrial Grade Tubing **does not** degrade after long-term exposure to heat and ozone, which allows for extensive use in countless applications.

Industrial Grade Tubing:

- ❖ Is capable of operating between temperatures ranging from **-75°F (-60°C)** to **275°F (135°C)**.
- ❖ Can be sealed with heat, and **does not** require fittings.
- ❖ Extremely resistant to inorganic acids and bases.
- ❖ Impervious to fatigue due to bending and curving.
- ❖ Has low gas permeability relative to rubber tubing.



Industrial Grade Tubing is the best choice of tubing in all peristaltic and vacuum pump applications.

Chemically Resistant Tubing

This tubing offers an unrivaled combination of clarity, flexibility, and chemical resistance.

Chemically Resistant Tubing:

- ❖ Is virtually unaffected by acids, bases, ketones, salts, and alcohols.
- ❖ Utilizes a smooth inner surface that inhibits the buildup of particles and potential contamination.
- ❖ Can operate at a maximum temperature of **165°F (73.88°C)**.
- ❖ Is plasticizer free, eliminating fluid contamination and premature tubing damage.
- ❖ Meets USP Class VI criteria.



PharMed® Tubing 1/16"ID x 3/16"OD x 1/16"Wall

This tubing is the best choice for protecting sensitive cultures and fluids.

PharMed® Tubing:

- ❖ Eliminates contamination in sensitive pumping applications.
- ❖ Is less permeable to gases and vapors than silicone tubing.
- ❖ Preserves the identity of dispensed fluids.



Food and Beverage Processing Tubing

Developed to withstand conditions present in beverage and food dispensing applications, including high temperatures, cleaning solutions, and endless use.

Food Process Tubing:

- ❖ Resists kinks and retains its shape without sacrificing installation difficulty.
- ❖ Is capable of withstanding temperatures ranging from **-60°F (-51.1°C)** to **275°F (135°C)**.
- ❖ Can be steam cleaned, withstand harsh cleaning agents and other chemicals.
- ❖ Immune to persistent autoclaving.
- ❖ Meets FDA, 3-A, and NSF standards.



Plasticizer Free Tubing

Engineered to retain its elastic properties after experiencing high pressure conditions. This tubing provides the greatest flexibility, extreme chemical resistance, the highest temperature resistance and pump life in a clear, plasticizer free tubing.

Plasticizer Free Tubing:

- ❖ Has ultra-chemical resistant properties.
- ❖ Is capable of withstanding temperatures ranging from **-108°F (-77.7°C)** to **160°F (71.1°C)**.
- ❖ Does not embrittle or crack prematurely, unlike its counterparts that use extender oils or plasticizer.
- ❖ Is clear, to allow visual flow monitoring.
- ❖ Meets FDA standards for food contact



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Syringe:OEM by New Era Pump Systems



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Our Syringe:OEM syringe pumps are available in the SyringeONE or SyringeTWO versions. They are designed to integrate into pre-existing systems seamlessly and are controlled via PC.

OEM Accessories

OEM Starter Kit

****Essential for OEM Operation****

Includes: Power supply, Pump-to-PC network cable, and a User Manual.

OEM Network Kit

****Required for connecting two OEMs together.****

Includes: Power supply and a Pump-to-Pump network cable.

Foot Switch

A pedal that enables remote control of a pump. This can be used to start, stop, or send signals.



Applications



Highlights

- An **economic alternative** to our standard pumps.
- Can be **integrated** into **existing systems and processes**.
- Programming and operation are performed using RS-232 communications via our **FREE Terminal Emulator** software, **Pumping Program Generator**, SyringePumpPro, and more.
- Pumping Precision, within +/- 1 % accuracy.
- Available in **High Pressure**, **Stall Detection**, and **Long Chassis** versions.
- **2 year warranty** and **lifetime technical support**.
- Can be **upgraded** with advanced firmware versions.

* This product is not an FDA cleared device.

Need a Custom Setup?

If your application requires a custom design or features not listed, there are no limits to what we can create for you. Contact us by phone or e-mail to develop the best pumping system for your needs.

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Pump Upgrades by New Era Pump Systems

Enhance your pump with a firmware upgrade and utilize the **X** version's advanced capabilities.

X < SKU: FW-1-X = SyringeONE, SyringeTWO, MULTISyringe
SKU: FW-5-X = Syringe:OEM

X2 < SKU: FW-1-X2 = SyringeONE, SyringeTWO, MULTISyringe, PeriPump Series
SKU: FW-5-X2 = Syringe:OEM

X Version Upgrade

Adds additional features to your pump, including:

❖ **Linear-Gradient Program Mode**

- Smooth, linear pumping in a gradient.
- As simple as programming the start rate, end rate, and time.
- Gradients can be programmed alongside other features.

❖ **Dual Pump NeXtGen Mode**

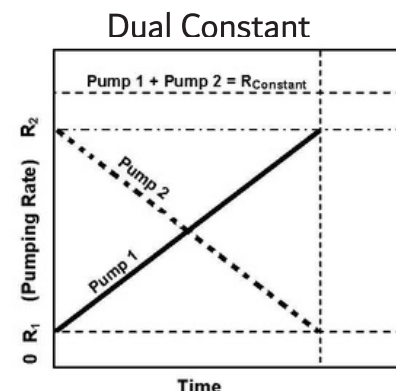
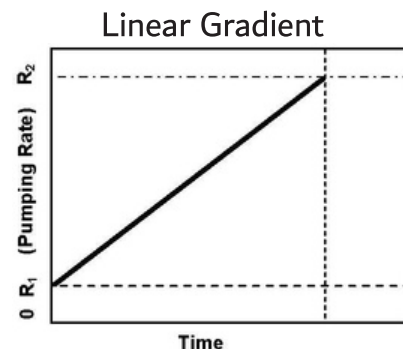
- Creates a continuous dual pump system.
- Eliminates flow drop off, pauses, and flow rate inconsistency issues in dual pump systems.

❖ **Dual Pump Constant Flow Rate Gradient Mode**

- Inverse, linear gradient pumping with two pumps achieve a constant flow rate.
- Both pumps increase and decrease pumping rates in tandem.

❖ **Additional Programming Functions & Enhancements**

- For unique and complex applications.



X2 Version Upgrade

Along with the features of the **X** Version, the **X2** version has:

❖ **8x MORE Programming Phases**

- Increases the amount of programmable pumping phases from 41 to 340.

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NeXtGen by New Era Pump Systems

What is the NeXtGen Difference?

NeXtGen Continuous pump systems eliminate the problems that traditional push-pull pumps face. Rather than infusing and refilling two syringes at the same rate, the refilling syringe fills faster than the one infusing.

This eliminates issues that typical push-pull pumps face, which means there are **NO** flow rate drop-offs, **NO** pauses, and **NO** inconsistencies in flow rates.

Additionally, the **NeXtGen** mode allows the refilled syringe to begin infusing before the infusing syringe is completely empty.



Accessories

Dual Pump Plumbing Kit

Pre-assembled with 2 sets of tubing and connectors that are used to create a Continuous Infusion system.

Includes:

- ❖ 2x Dual Check Valves
- ❖ 2x 50 mL NormJect® syringes
- ❖ 2x Y-connectors
- ❖ 12' of .125" ID Tubing



Select any two pumps from the Syringe**ONE**, Syringe**TWO**, **MULTI**Syringe, or Syringe**OEM** Series.



Upgrade both pumps with the **X** chip. (**FW-1-X**)



Link both pumps together with the Dual Pump Cable. (**CBL-DUAL-3**)

Need Custom Features?

If your application requires custom features, there are no limits to what we can create for you. Contact us by phone or e-mail to develop the best pumping system for your needs.

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SyringeHeater by New Era Pump Systems



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SKU: HEATER-KIT-1LG



SKU: HEATER-KIT-5SP

The **SyringeHeater** is a thermo-kinetic heat clamp that attaches to syringes or tubing in applications where temperature matters.

- ❖ A **SyringeHeater** uses a thermo-kinetic control algorithm to raise and maintain a desired temperature.
- ❖ Set the desired temperature and sensors on the heating pad keep it within range.
- ❖ Temperature and other parameters are saved in the settings.
- ❖ Heated syringes can be mounted on any syringe pump.
- ❖ Start with a single **SyringeHeater** kit, and add up to 11 additional Heating Pads per Control Unit!
- ❖ Heater Kits include a Control Unit and a Primary Heater Pad.

Heats syringes up to 185°C!

To add more heating pads to an existing kit, Secondary and Additional pads are available for both 1LG and 5SP versions.

(xxx correlates to the pad version.)

Secondary Pad: (Pad #2)

SKU: HEATER-PAD2-xxx

Additional Pad: (Pad #'s 3-12)

SKU: HEATER-PAD3-xxx

⚠ Cautions

- ⚠ Please contact us about your pump and syringe compatibility when heating above 100°C
- ⚠ If you are in a region where the voltage is greater than 120V, a step down transformer is required

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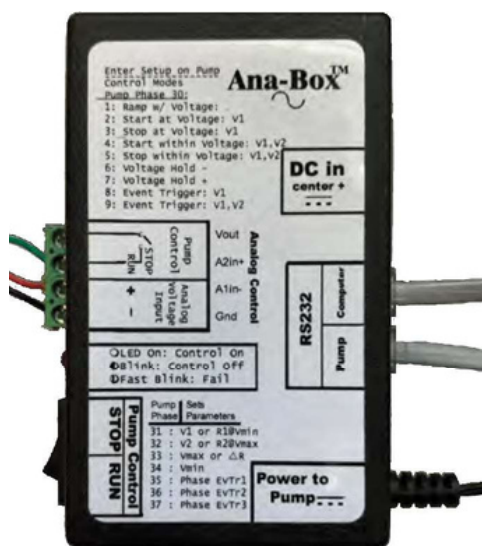
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Ana-BoxTM by New Era Pump Systems

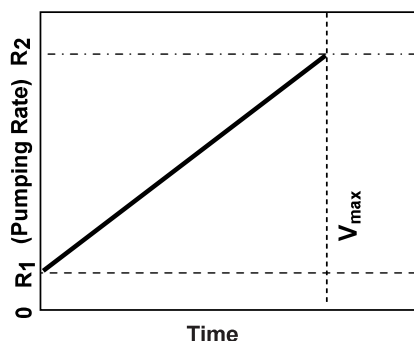
Closed Loop Analog Sensor Interface

- ❖ Control start and stop operation of the pump at set voltages.
- ❖ Set changes in flow rate by setting specific voltage parameters.
- ❖ Works with any pump (except the **InfusionONE**).
- ❖ Input voltage parameters directly into the desired pump.
- ❖ Data log and output settings can be saved by connecting the Ana-Box to a PC.
- ❖ Can integrate with other sensors and systems.
(i.e. connect the Ana-Box to a pressure sensor with a voltage output. The pumping rate changes can be set to adjust automatically to reach a specified pressure.)

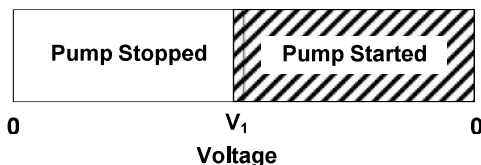


Sample Operational Modes:

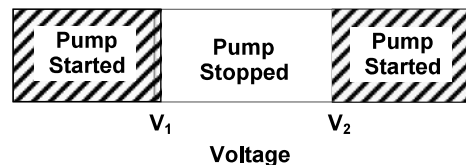
Gradient with Voltage



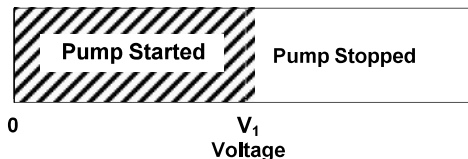
Start Pump at Trigger Voltage



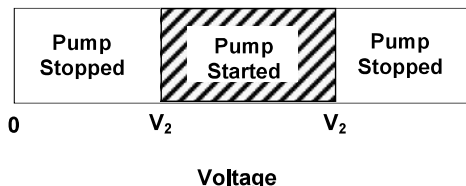
Stop Pump within Voltage Range



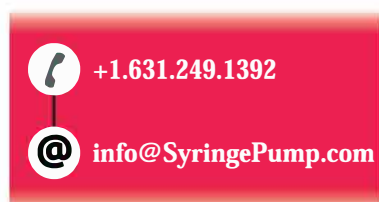
Stop Pump at Trigger Voltage



Start Pump within Voltage Range



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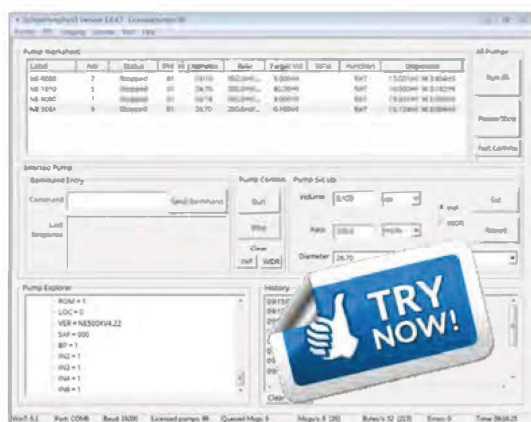
SyringePumpPro

Control Software for Syringe Pumps

SyringePumpPro creates an easy-to-use interface on a computer to control and program syringe pumps.

SyringePumpPro...

- ❖ Allows pumping programs to be created and uploaded to pumps.
- ❖ Synchronizes start and stop operation of multiple pumps.
- ❖ Can be used to monitor pumping parameters, protocols, and commands.
- ❖ Reduces command and program input time; gives you more time to focus on your application.
- ❖ Commands do NOT need to be input repeatedly like in terminal software.
- ❖ Can be used with any New Era pump that has computer communication ports.



Download SyringePumpPro and experience effective, user-friendly software support like never before.

SyringePumpPro is compatible with the following brands:



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Cables by New Era Pump Systems

Pump Synchronization Cable



SKU: CBL-DUAL-3

- ❖ Used to create dual or continuous systems.
- ❖ Establishes a link between two pumps, allowing data to be transferred.

Lockout Disable Key



SKU: ADPT-LOCKOUT

- ❖ Prevents unauthorized changes to settings by locking the keypad.
- ❖ Enable/Disable Lockout Mode using this key with the TTL Logic port on the desired pump.

Pump-to-PC Primary Network Cable



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

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

- ❖ Enables full control over a pump system via PC.
- ❖ Connects to a PC using RS-232 communications.

Pump-to-Pump Secondary Network Cable



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

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

- ❖ Networks an additional pump to an established pump system and PC.
- ❖ The first pump in the series must be connected to a PC with the Pump-to-PC cable.

RS-232 to USB Converter



SKU: CBL-USB232

- Adds an RS-232 Port to a PC by using a USB port.

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Other Devices by New Era Pump Systems

Contact us to learn about the various accessories that can streamline your pumping process!

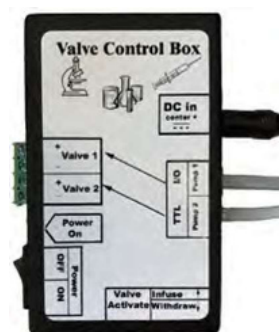
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Single/Double Valve Control Box

SKU: ADPT-VALVE-INTERFACE-x x = 1 for Single
2 for Double

- ❖ Controls the electronic valve(s) in a system. (Single if a system has 1 valve, double if a system has 2 valves.)
- ❖ Attach 12V DC valves, and the Control Box will open or close the valves, depending on the pumping direction.
- ❖ Connects to the pump's TTL Logic Port.
- ❖ Includes a power supply for 1 or 2 valves.
- ❖ **Double Valve Control Box** includes **CBL-DUAL-3** to synchronize operation of two pumps.



Clock Timer

SKU: ADPT-CLK

- ❖ Triggers a pump to execute a single operation or an entire pumping program at time specific date and time intervals.
- ❖ Stores up to 16 unique programs for 16 different programs.
- ❖ Has an alternative **Manual** program setting that allows the Clock Timer to operate as a foot switch.
- ❖ Compatible with any New Era pump that has TTL I/O Ports.



Foot Switch

SKU: ADPT-FOOTSW-2

- ❖ Send a signal to a pump. (i.e. start, stop, other signals to a pumping program)
- ❖ 20 ft of cable between switch and TTL Logic Port.
- ❖ Fast and simple setup.



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Disposable Syringes and Kits

Description	Model #	Price Each	Box Model #	Box Price
0.5 mL Luer Lock, Low, Dead Space	SYR-AT05LL	\$1.14	SYR-AT05LLBX	\$77.45
1 mL Luer Slip, Low, Dead Space, Inert	SYR-TB1	\$0.53	SYR-TB1BX	\$52.00
1 mL Luer Lock Non-Inert	SYR-EX1LL	\$0.70	SYR-EX1LLBX	\$40.00
3 mL Luer Lock Inert	SYR-NJ3LL	\$0.64	SYR-NJ3LLBX	\$63.00
5 mL Luer Lock Inert	SYR-NJ5LL	\$0.50	SYR-NJ5LLBX	\$69.00
10 mL Luer Lock Inert	SYR-NJ10LL	\$0.81	SYR-NJ10LLBX	\$80.00
20 mL Luer Lock Inert	SYR-NJ20LL	\$1.11	SYR-NJ20LLBX	\$110.00
30 mL Luer Lock Inert	SYR-NJ30LL	\$1.70	Limited Inventory- Discontinued By Manufacturer	
50 mL Luer Lock Inert	SYR-AT50LL	\$1.80	SYR-AT50LLBX	\$52.00
60 mL Luer Lock Non-Inert	SYR-TER60LL	\$1.75	SYR-TER60LL	\$31.25

Model: P-SYRKIT-SM
Price: \$20.38

Small Syringe Kit



- (2) 1 mL Norm-Ject® Luer Slip Inert
- (2) 3 mL Norm-Ject® Luer Lock Inert
- (2) 5 mL Norm-Ject® Luer Lock Inert
- (2) 10 mL Norm-Ject® Luer Lock Inert
- (6) Female Luer Barbs 0.125"ID
- (3) Male Luer Barbs 0.125"ID
- (20 ft) PVC Tubing 0.125"ID x 0.188"OD

Model: P-SYRKIT-LG
Price: \$24.34

Large Syringe Kit



- (2) 1 mL Norm-Ject® Luer Slip Inert
- (2) 3 mL Norm-Ject® Luer Lock Inert
- (2) 5 mL Norm-Ject® Luer Lock Inert
- (2) 10 mL Norm-Ject® Luer Lock Inert
- (6) Female Luer Barbs 0.125"ID
- (3) Male Luer Barbs 0.125"ID
- (20 ft) PVC Tubing 0.125"ID x 0.188"OD

Dual Pump Plumbing Kit

For use with our advanced Continuous/Dual Infusion Systems

Model: P-SYRKIT-SM
Price: \$20.38



- (2) Dual Check valves
- (2) 50 mL Air-Tite® syringes
- (2) "Y" Connectors
- Withdraw pulls fluid from a reservoir
- Infusion out flows to a separate line
- Comes pre-assembled: Just attach the syringes
- Assembled with 0.125"ID PVC tubing: 6" connects the valves to the "Y" connectors, 5' to connect to your reservoir and out flow
- Parts can be purchased individually

NEW ERA

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Glass Syringes: Standard & Gas Tight

New Era offers an array of glass syringes, both standard and gas tight. Glass syringes are compatible with a wide range of chemical applications.

Gas Tight Syringes

- Range from 50 μ L to 100 mL
- Operate between 100 psi to 400 psi
Syringe dependent



- Longest lifespan
- Comes with metal Fixed Luer Lock Tips (removable on 50, 100 mL)
- Suitable for chromatography
- Made with Borosilicate Glass
- PTFE tipped, replaceable plunger
- Nickel plated brass barrel flange
- Manufactured in Australia

Model #	Size	PSI/kPa Limits	Temp Limits	Price Each
SYR-GL50MCLL-S	50 μ L	400 / 2758	70°C	\$112.70
SYR-GL100MCLL-S	100 μ L	400 / 2758	70°C	\$89.50
SYR-GL250MCLL-S	250 μ L	400 / 2758	70°C	\$86.70
SYR-GL500MCLL-S	500 μ L	400 / 2758	70°C	\$89.50
SYR-GL1LL-S	1 mL (*)	400 / 2758	70°C	\$81.90
SYR-GL2.5LL-S	2.5 mL (*)	400 / 2758	70°C	\$79.30
SYR-GL5LL-S	5 mL (*)	400 / 2758	70°C	\$79.30
SYR-GL10LL-S	10 mL (*)	200 / 1379	70°C	\$141.50
SYR-GL25LL-S	25 mL (*)	100 / 689	70°C	\$236.10
SYR-GL50LL-S	50 mL (+)	100 / 689	120°C	\$296.20
SYR-GL100LL-S	100 mL (++)	100 / 689	120°C	\$449.60
SYRP-SSML-S	Replacement Luer Lock: 7/16 UNEF Metal Thread			\$64.40

Standard Syringes

- Range from 1 mL to 100 mL
- Operate between 22 psi to 43 psi

Model #	Size	PSI/kPa Limits	Temp Limits	Price Each
SYR-GL1LL	1 mL	43.5 / 300	200°C	\$43.00
SYR-GL2LL	2 mL	43.5 / 300	200°C	\$32.00
SYR-GL3LL	3 mL	43.5 / 300	200°C	\$32.00
SYR-GL5LL	5 mL	43.5 / 300	200°C	\$32.00
SYR-GL10LL	10 mL	29 / 200	200°C	\$40.80
SYR-GL20LL	20 mL	29 / 200	200°C	\$48.50
SYR-GL30LL	30 mL (+)	29 / 200	200°C	\$69.40
SYR-GL50LL	50 mL (+)	21.8 / 150	200°C	\$92.50
SYR-GL100LL	100 mL (+)	21.8 / 150	200°C	\$312.50



- Metal Luer Lock tips
- Interchangeable, Borosilicate Glass barrel and plunger
- Manufactured in Germany

Pusher Block Modification Kits for Indicated Glass Syringes

Select by pump model series and syringe reference. Improves fit of certain glass syringes in the pusher block.

	NE-10xx, NE-5xx, NE-5xxL		NE-4000, NE-450x, NE-450xL	
	Part #	Price	Part #	Price
(+)	ANTISYPHON-MOD-01	\$2.00	ANTISYPHON-MOD-DBL-01	\$3.00
(++)	ANTISYPHON-MOD-02	\$10.00	ANTISYPHON-MOD-DBL-02	\$13.00
(*)	Plunger Adapter Plate, 6-32 Thread		P-SYRADPT	\$5.00

Maximum & Minimum Glass Syringe

Flow Rates

Models: SyringeONE (SKU: 1000, 1010)

	Syringe (mL)	Inside Diameter (mm)	Minimum Rate (μL/hr)	Maximum Rate (mL/min) // (mL/hr)
SKU: 1000* with Standard Glass Syringes	1 mL	6.7	1.483	1.798 // 107.8
	2 mL	8.91	2.622	3.18 // 190.8
	3 mL	9.06	2.711	3.288 // 197.2
	5 mL	11.75	4.559	5.53 // 331.8
	10 mL	14.67	7.107	8.62 // 517.2
	20 mL	19.62	12.72	15.42 // 925.2
	30 mL	22.69	17.01	20.62 // 1237
	50 mL	26.96	24.01	29.11 // 1746
SKU: 1010** with Gas Tight Glass Syringes	.5 mL	3.257	0.701	1.53 // 91.82
	1 mL	4.606	1.402	3.06 // 183.6
	2.5 mL	7.284	3.505	7.65 // 459.2
	5 mL	10.3	7.007	15.3 // 918.3
	10 mL	14.57	14.03	30.62 // 1837
	25 mL	23.03	35.03	76.52 // 4591
	50 mL	27.5	49.95	109.1 // 6546
	100 mL	34.99	80.86	166.65 // 9999

***SKU: 1000 Flow rates also apply to the following pumps:**

SKU: 500, 501, 500L, 501L.

****SKU: 1010 Flow rates also apply to the following pumps:**

SKU: 510, 511, 510L, 511L.



Stainless Steel Syringes



- ❖ New Era offers an array of stainless steel syringes, ranging from 1 mL to 200 mL.
 - ❖ These syringes are capable of handling high temperatures, extremely corrosive chemicals, and pressures up to 750 psi (1500 psi for 8 mL).
- (Some corrosive chemicals require O'Ring upgrades)*

Stainless Steel Syringe Fittings

- ❖ Stainless Steel Syringes can be purchased with or without fittings.
- ❖ All fittings are pressure rated for the syringes they connect to.

(Fittings can also be purchased separately)

Syringe Size	Maximum PSI	Tip Thread	Model #	Price Each
1 mL	750	1/4-28F	SYR-SS1	\$500.50
3 mL	750	1/4-28F	SYR-SS3	\$518.10
5 mL	750	1/4-28F	SYR-SS5	\$506.00
8 mL	1500	1/4-28F	SYR-SS8	\$707.30
20 mL	750	3/8-24F	SYR-SS20	\$632.50
50 mL	750	3/8-24F	SYR-SS50	\$728.20
100 mL	750	3/8-24F	SYR-SS100	\$748.00
200 mL	750	3/8-24F	SYR-SS200	\$829.40

Stainless Steel Syringe O'Rings

- ❖ Standard Stainless Steel Syringes come with a Viton O'Rings. Maximum temperature: 400F.
- ❖ Markez® O'Rings (sold separately) are used with applications that require higher levels of chemical resistance. Maximum temperature: 608F.



Replacement O'Ring Set Type	for Stainless Steel Syringe Sizes	Model # (Set of 3)	Price Each
Viton®	1, 3 & 8 mL	SYRP-SSORV8	\$45.10
	5 mL	SYRP-SSORV5	\$45.10
	20 mL	SYRP-SSORV20	\$45.10
	50 mL	SYRP-SSORV50	\$45.10
	100 mL	SYRP-SSORV100	\$45.10
	200 mL	SYRP-SSORV200	\$45.10
Markez®	1, 3 & 8 mL	SYRP-SSORM8	\$275.00
	5 mL	SYRP-SSORM5	\$279.40
	20 mL	SYRP-SSORM20	\$308.00
	50 mL	SYRP-SSORM50	\$473.00
	100 mL	SYRP-SSORM100	\$462.00
	200 mL	SYRP-SSORM200	\$572.00

Replacement Fitting	Interchangeable for Syringes			
	1, 3, 5 & 8 mL Thread: 1/4-28M		20, 50, 100 & 200 mL Thread: 3/8-24M	
	Model #	Price	Model #	Price
Luer Lock	SYRP-SSS-LL	\$111.10	SYRP-SSL-LL	\$105.60
1/16" SwageLok	SYRP-SSS-SL16	\$100.10	SYRP-SSL-SL16	\$105.60
1/8" SwageLok	SYRP-SSS-SL8	\$100.10	SYRP-SSL-SL8	\$105.60
1/4" SwageLok	----	----	SYRP-SSL-SL4	\$105.60

Heating your syringe?



The Syringe Heater Kit heats all syringe sizes up to 185°C.

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Stainless Steel Syringes

Maximum & Minimum Flow Rates

Models: NE-1010, NE-510, NE-511, NE-510L, NE-511L

Syringe Manufacturer (all names TM)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)	Minimum Rate (μ L/hr)	Maximum Rate (mL/min)
Steel Syringes	1	9.538	787.5	6.009	13.12
	3	9.538	787.5	6.009	13.12
	5	12.7	1396	10.66	23.26
	8	9.538	787.5	6.009	13.12
	20	19.13	3167	24.17	52.79
	50	28.6	7080	54.03	118

NE-8000

Syringe Manufacturer (all names TM)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)	Minimum Rate (μ L/hr)	Maximum Rate (mL/min)
Steel Syringes	1	9.538	1287	7.138	21.45
	3	9.538	1287	7.138	21.45
	5	12.7	2282	12.66	38.04
	8	9.538	1287	7.138	21.45
	20	19.13	5179	28.71	86.32
	50	28.6	9999	64.18	192.9
	100	34.93	9999	95.72	287.7
	200	44.75	9999	157.2	472.3

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