# Pump Systems Inc. SyringePump.com

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# 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** 

#### ccessories:

**Closed Loop Analog Sensor** Interface

**Pump Software** 

**All Accessories** 

#### esources:

# **Frequently Asked Questions**

**User Manuals** 

**Technical Documents** 

**Technical Videos** Research Papers

# Pump Accessories









Netw ork Cable







**Electronic Valve** Control Boxes



Suggested List Price: \$399 USD







Pump Software

# <u>Syringe Heater Kit</u>

Advanced Features & Memory Upgrades

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





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.





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- 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

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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-<br>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

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# **Foot Switch**

Model: ADPT-FOOTSW-2





# **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

Suggested List Price: \$60 USD

# **Description:**

· 100 foot extension cable for the foot switch

# **Hand Pendant**

Model: ADPT-HAND-SW

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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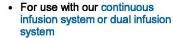
## **Dual Pump Plumbing Kit**

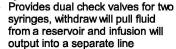
Model: P-DKIT

Two 50 mL NormJect(r) Syringe

# Suggested List Price: \$20 USD

# **Description:**





- 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

Individual parts are also available. See our full line of syringes and plumbing supplies.

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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

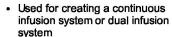


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Model: CBL-TTL-1

# Suggested List Price: \$20 USD

# Description:

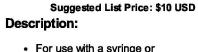


- Synchronize pumping direction of two pumps so that they change directions, start, and stop as one
- Utilizes the TTL logic port on pump - See new version above for using the RS-232 ports
- 7' cable
- · Quick and easy setup

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# **Lockout Mode Disable Key**

Model: ADPT-LOCKOUT



- 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

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# **OEM Starter & Net Kits:**

Model: OEM-NET

For NE-5XX OEM models only



Suggested List Price: \$25 USD

# **Description:**

- Allows user to interactively communicate to the pump with a computer
- 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.

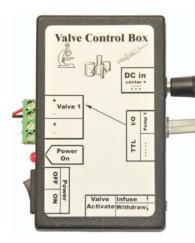
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Single Valve Control Box Model: ADPT-VALVE-INTERFACE-1

Suggested List Price: \$85 USD



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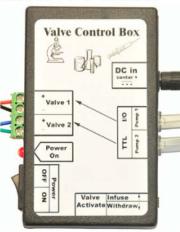
# **Description:**

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