

Cole-Parmer® Touch-Screen Continuous-Cycle Four-Syringe Pumps

Save time by pumping four channels at once



- Accuracy of $\pm 0.35\%$ and reproducibility of $\pm 0.05\%$
- Hold two or four syringes from 0.5 μL to 140 mL
- Easily accommodate high back-pressure applications with up to 75 pounds of linear force

Hold up to four syringes; as two syringes are infusing, two syringes are simultaneously withdrawing at the same rate. Use three-way valves (sold separately in starter kit 74901-90 at right) to empty and refill syringes in continuous dispense.

Intuitive touch screen allows you to quickly create and recall configurations. Daisy chain up to 99 pumps together using the built in RS-485. Programmable/multi-step pump provides even greater flexibility in automating your process.

What's included: 6-ft (1.8-m) US power cord.

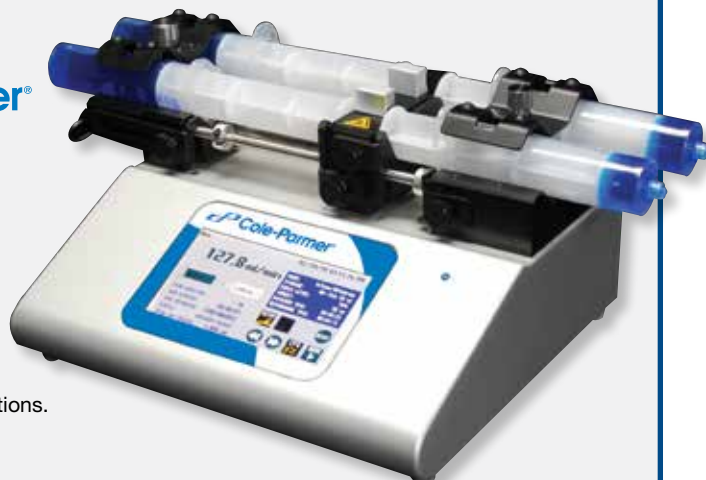


Specifications

Accuracy: $\pm 0.35\%$
Reproducibility: $\pm 0.05\%$
Syringe sizes accepted: 0.5 μL to 140 mL
Linear force: 75 lb (34 kg)

Output: RS-232 9-pin D-sub connector, RS-485 IEEE-1394 6 pos, USB-Type B, I/O & TTL - 15 pin D-sub connector

Description	Flow rate per syringe	Power	Catalog number	Price
Simultaneous, continuous infusion / withdrawal	5.0 $\mu\text{L}/\text{min}$ to 215.8 mL/min	110 to 240 VAC, 50/60 Hz	GY-74905-19	
Programmable simultaneous, continuous infusion / withdrawal	5.0 $\mu\text{L}/\text{min}$ to 215.8 mL/min	110 to 240 VAC, 50/60 Hz	GY-74905-39	



Accessories

- [GY-74901-90](#) Continuous flow starter kit includes two check valves, two 10 mL plastic syringes, and a short length of tubing
- [GY-74901-91](#) Continuous low pressure PPS pinch valve box, max pressure 75 psi
- [GY-74901-93](#) Continuous medium pressure PTFE pinch valve box, max pressure 75 psi
- [GY-74901-95](#) Continuous high pressure stainless steel pinch valve box, greater than 200 psi
- [GY-74901-92](#) Autofill low pressure PPS pinch valve box, max pressure 75 psi
- [GY-74901-94](#) Autofill medium pressure PTFE pinch valve box, max pressure 75 psi
- [GY-74901-96](#) Autofill high pressure stainless steel pinch valve box, greater than 200 psi

Cole-Parmer® High-Pressure Syringe Pumps

Maintain precision even at high pressures

- Greater than 100 lb (45 kg) of linear force, with 1% or better accuracy
- RS-232 connectivity for interface to a remote computer
- Excellent for pumping viscous fluids

Ideal for fluid delivery to reactors in chemical applications or for working with viscous fluids. The robust syringe holder design ensures the syringe is kept level during delivery of fluid, whether smaller or larger syringes. Due to the higher force on the syringe we recommend the stainless steel syringes listed on page 906.

Both the standard and programmable pumps can operate in either an infusion or withdrawal mode. The programmable model can be set to a specific sequence of operations. These versatile pumps can be triggered remotely by a foot pedal or a switch—great for “hands-free” operation.

What's included: 6-ft (1.8-m) cord (115 VAC models have US standard plug; 230 VAC models have European plug).



Models 74903-06, -16

Specifications

Accuracy: $\pm <1\%$
Reproducibility: $\pm 0.1\%$

Syringe sizes accepted: 10 μL to 140 mL

Linear force: >100 lb (>45 kg)
Output: RS-232

Description	Flow rate per syringe	Power (VAC, Hz)	Catalog number	Price
Infusion/withdrawal syringe pump	0.001 $\mu\text{L}/\text{hr}$ to 145.5 mL/min	115, 50/60	GY-74903-00	
		230, 50/60	GY-74903-05	
		230, 50/60	GY-74903-06	
Infusion/withdrawal multi-step syringe pump	0.001 $\mu\text{L}/\text{hr}$ to 145.5 mL/min	115, 50/60	GY-74903-10	
		230, 50/60	GY-74903-15	
		230, 50/60	GY-74903-16	

