

AL-1200

Aladdin SyringeTWELVE Programmable 12 Channel Syringe Pump - Holds 2, 4, 6, 8, 10 or 12 syringes of up to 3 cc

Overview



- Holds 2, 4, 6, 8, 10 or 12 syringes of up to 3 mL
- Infusion rates from 0.45 $\mu\text{L/hr}$ (1 mL syringe) to 153.2 mL/hr (3 mL syringe)
- Operates stand-alone or from a computer
- Programmable preset protocols
- RS-232 and TTL logic control interfaces
- Motor stall detection
- Non-volatile memory of all parameters and programming
- Upgradeable memory
- Dispensing accuracy of $\pm 1\%$

Channels	12
Type	Infusion / Withdrawal
Flow Range	0.001 $\mu\text{L/hr}$ (0.5 μL syringe) to 153.2 mL/hr (3 mL syringe)
Dispensing Accuracy	$\pm 1\%$
Syringe Sizes Accepted	0.5 μL to 3 mL
Linear Force Applied To All Syringes	160 lb at low speed; 30 lb at maximum speed

The AL-1200 Programmable Syringe Pump is perfect for situations requiring flexibility or automation. With a variety of pumping rates (0.45 $\mu\text{L/hr}$ to 153.2 mL/hr), infusion and withdraw capability, and pumping phases that can be programmed, the AL-1200 was designed for automation. This pump can handle applications like simple infusions, as well as complex pumping programs. You can program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, or sound an alarm. Connect two pumps with a dual cable (WPI #GN-TTL) to create a dual pump system that allows for continuous infusion or emulsification. If required, you can network, control and monitor up to 100 pumps with a single computer.

AL-1200 Twelve-Channel Syringe Pump Example Flow Rates

Syringe Size	Maximum Rate	Minimum Rate
0.5 μ L	17.45 μ L/hr	0.001 μ L/hr
2 μ L	69.82 μ L/hr	0.001 μ L/hr
5 μ L	174.8 μ L/hr	0.003 μ L/hr
1 mL	36.19 mL/hr	0.452 μ L/hr
3 mL	153.2 mL/hr	1.914 μ L/hr

NOTE: This product is not approved for clinical use on humans.

Specifications

Syringe Sizes	Up to 3 mL
Number of Syringes	2, 4, 6, 8, 10 or 12
Motor Type	Step Motor, 1/8 to 1/4 step modes
Steps per Revolution	200
Advance per Step	0.132291667 μ M to 0.264583333 μ M depending on motor speed
Motor to Drive Screw Ratio	5/1
Drive Screw Pitch	24 revolutions/inch
Power Supply	Wall adapter 12V DC @ 1000 mA
DC Connector	2.5mm, center positive
Power Supply Type	Unregulated linear external wall adapter, country and power source specific
Dimensions	26.03 x 38.1 x 12.7 cm (10 1/4 x 15 x 5 in.)
Weight	4,595 kg (10.125 lbs)
Max. Speed	3.4917cm/min
Min. Speed	0.0026cm/hr
Max. Pumping Rate	121.2 mL/hr. with a B-D 3cc syringe
Min. Pumping Rate	0.454 μ L/hr. with a B-D 1cc syringe
Max. Force applied to all syringes	160 lbs. at minimum speed, 30 lbs. at maximum speed



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