

# SLS EconoFlow 81 Micro-Infusion Syringe Pump



The new Scientific Lab Supply EconoFlow Pump, is a line of economical pumps for simple infusions and dosing applications. The pumps are designed to combine high levels of performance together with ease of use and reliable operation. Scientific Lab Supply EconoFlow products offer a complete line of pumps to meet many different applications.

Micro-infusion pumps, volumetric infusion pumps, syringe pumps, portable pumps and disposable pumps are available at affordable prices.

SLS EconoFlow 81 is a durable basic syringe pump designed to enhance quick efficient operation while maintaining simplicity. It meets the CE 0197 directive and is EC directive 93/42 EEC, Annex II, Article 3.

The EconoFlow 81 system can be used for infusions from 0.1 - 300 ml/hr with 2.5% accuracy. The easy to read LED display is visible from many angles and will continuously show the flow rate in ml/hr. The display can be toggled to show the total volume delivered in ml.

A wide range of syringes can be used with the unit including 20/30 ml, 50/60 ml and 100 ml. The unit will automatically detect the syringe size and adjust the selected flow rate automatically for the syringe size. The advance auto syringe size eliminating errors common with most standard syringe pumps. Specific manufacturer's syringes can be calibrated with the unit including Terumo, Monoject and Ranfac. Ergonomic, easy to use, horizontal design protects the syringe barrel and allows single-handed loading.

User selected flow rates are easy, with simple increment and decrement arrow keys. A rapid delivery key will allow the user to eliminate the dead volume and also eliminate excess air in the tubing prior to delivery of the fluids. The pump offers continuous mode of operation and reliable long-term fluid deliveries. The unit has occlusion detection from 5.0 kg to 5.5 kg.

There are 4 visual and audible alarms, occlusion detection, low battery, near end of dispense and complete.

SLS EconoFlow 81 has a rechargeable battery and can operate on 12VDC. Optional pole mount adapter for maximum flexibility p/n 78-0551 and a 12VDC power plug adapter p/n 78-0593.

The Scientific Lab Supply offers a family of syringe pumps to meet all applications. The full line of SLS pumps include a simple syringe infuse only pump, a multi-syringe infuse and withdraw pump, push pull pumps, continuous pumps for uninterrupted fluid delivery, nonoliter pumps, emulsifier, high pressure and custom OEM pumps.

Scientific Lab Supply is renowned for its unsurpassed quality. We continue to provide superior quality products to our customers all around the world.

## Features

- Large LED display for flow rate indication
- Wide flow rate range 0.1 – 300 ml/hr
- Typical accuracy  $\pm 2.5\%$
- Quick flow rate selection
- Fast purge feature
- Visual run indicator
- Toggle to indicate total volume dispensed
- Occlusion detection
- Wide range of plastic syringes
- 20/30 ml, 50/60 ml and 100 ml
- Easy calibration for different syringes
- Audible & visual alarms
- Complete, occlusion detection,
- Low battery & near empty
- Self test & self diagnostic
- IPX1 enclosure
- Up to 4 hours of battery operation at 50 ml/hr
- Rechargeable battery with AC power or 120VDC
- CE 0197 certified
- EC directive 93/42 EEC, annex II, article 3
- 12 month warranty

## Benefits

- Cost effective, durable syringe pump
- Simple set up and operation
- User selectable variable flow rates
- Easy to read LED display
- Continuous infuse
- Quick total volume dispense display
- Simple syringe Installation
- Automatic syringe detection
- Automatic syringe size selection

## Applications

- Drug dosing
- Nutrient delivery
- Chemical delivery
- Reactor delivery

## Markets

- Academic institutions
- Veterinary
- Pharmaceutical
- Biotech
- Government
- Research facilities

# SLS EconoFlow 81 Micro-Infusion Syringe Pump



## Specifications

Applicable Syringe Sizes	20/30 ml; 50/60 ml; 100 ml
Flow Rate Ranges:	
20/30 ml syringe	0.1 ml/hr to 150ml/hr; in 0.1 ml/hr increments
50/60 ml syringe	0.1 ml/hr to 300 ml/hr; in 0.1 ml/hr increments
100 ml syringe	0.1 ml/h to 300 ml/hr; in 0.1 ml/hr increments
Accuracy	±2.5%
Alarms	Audible alarms with visual indicators of "NEAR EMPTY", "COMPLETE", "OCCLUSION", and "LOW BATT"
Power Supply	220 VAC 50 Hz 12 VDC
Power Consumption	Less than 25 VA
Mode of Operation	Continuous
Degree of Protection Against Ingress of Fluids	Drip-Proof IPX1
Battery Operation	4 hours continuously operation at 50 ml/hr with built-in rechargeable Ni-MH battery
Ambient Temperature	5°C to 40°C (41°F to 104°F)
Dimensions, H x W x D	120 x 335 x 142 mm (4.72 x 13.2 x 5.59 in)
Weight	2.5 kg (5.5 lb)

## Ordering Information

Model	Product
EconoFlow 81	EconoFlow Micro-Infusion Pump, 220 VAC IV Pole Mount 12 VDC Power Plug Adapter

