

KDS EZFlow 2040 Volumetric Infusion Pump



Revision B All specifications subject to change at anytime.



The new KD Scientific EZFlow Pump Series, 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.

KD Scientific EZFlow 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.

The KDS EZFlow 2040 is a volumetric infusion syringe pump designed to enhance quick efficient operation while maintaining simplicity. It meets the CE directive and is EC 93/42 EEC.

It is designed to deliver precise infusions at rates from 0.1 to 1200 ml/hr. It features a bright 2.7 inch OLED with separate display which shows volume delivered, volume rate, time and date. There are 5 preset languages and many other advanced features that make the KDS EZFlow 2040 one of the most outstanding infusion pumps in its class.

The KDS EZFlow 2040 it is portable, user friendly and offers a new alternative for micro reliable infusions. The ergonomic touch screen panel for ease of selection and programming.

The pump has a self-diagnostic function, which initiates a self-diagnostic program each time the pump is powered on. Once completed successfully the pump is ready for use.

The KDS EZFlow 2040 has an AC power source with battery back up of approximately 3 hours continuous operation at 25 ml/hr. It has a built in rechargeable Ni-MH battery and a RS232 serial port for data communication. The pump can be used on a horizontal platform or optional pole mount adapter for maximum flexibility.

The KD Scientific offers a family of syringe pumps to meet all applications. The full line of KDS 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.

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

Features

- Easy to use ergonomic touch panel
- Dual infusion modes
- Set at ml/hr or drops/min
- Flow rate range 01. to 1200 ml/hr
- Typical accuracy $\pm 2.0\%$
- Audible & visual alarms with
- Flashing alarm lights when:
 - Infusion complete
 - Door open
 - Air in line
 - Occlusion detection
 - Empty bag unattended
 - IV set disengaged
 - Battery low
 - Battery depleted
 - Initialization error
 - Drive mechanism error
- Programmable infusion mode
- Store up to 10 memory settings
- Battery capacity 3 hours
- IPX1 enclosure
- CE 0197 certified
- 12 month warranty

Benefits

- Cost effective, durable syringe pump
- Simple set up and operation
- Continuous infuse
- Infused total volume dispense display
- Lightweight & portable
- ML or drop settings

Applications

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

Markets

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

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Specifications

Flow Rate Range	0.1 to 1,200 ml/hr (or up to 200 drops/min)
Flow Rate Increments	0.1 ml/hr to 10 ml/hr at 0.1 ml/hr increments 10 ml/hr to 200 ml/hr at 1 ml/hr increments 200 ml/hr to 1,200 ml/hr at 10 ml/hr increments
Total Volume Infused Display	1 to 9,999 ml
KVO Flow Rate	0.1 ml/hr (Micro infusion) 1 ml/hr to 3 ml/hr (Macro Infusion)
Purge Rate	1,200 ml/hr
Accuracy	±2% on pump only; ±5% with IV set accuracy
Compatible I.V. Set	Can be calibrated to most brand pump-use IV sets
Infusion Program Memory	10
Display	Bright 2.7 inch OLED screen with separate large LED infusion rate display
Alarms, Audible and Visual	Infusion Completed, Door Open, Air-in-line, Occlusion, Empty Bag, Unattended, IV set disengaged, Battery Low, Battery Depleted, Initialization Error, Drive Mechanism Error
Bolus Rate	0.1 ml/hr to 1,200 ml/hr
Bolus Volume	Adjustable 1 to 9,999 ml
Infusion Mode Programmable	YES - ml/hr rate + volume
Infusion Program Memory	10 (4 displayed a time)
Pumping Mechanism	Linear peristaltic
Bubble Detector	Infrared
Blood Infusion	YES
Power Source	AC 100 V – 240 V, 50/60Hz or DC 12V
Data Port	RS-232 serial interface
Battery Capacity	Approximate 3 hours continuous operation at 25 ml/hr with built-in rechargeable Ni-MH battery pack (8 hours charging)
Dimensions, H x W x D	240 x 105 x 172 mm (6.5 x 4 x 6.75 in)
Net Weight	2.9 kg (6.4 lb)



Ordering Information

Order #	Model	Product
78-0580	EZFlow 2040	EZFlow Volumetric Infusion Pump
78-0581		IV Pole Mount

This pump comes with a drop sensor, pole clamp and power cord. These pumps are CE Certified: Meeting all essential requirements of the relevant European Directives ISO 13485 and ISO 9001 International Organization for Standardization

