

Product name : **Legato 200 Infuse Dual Syringe Pump**
Catalog number : **07.503.02**



New KDS Legato 200 Infuse Only Syringe Pump

Infuse only dual syringe pump. Accommodates 2 syringes. User definable flow rates with selectable target volume or time values to control the total infusion volume.

Features:

- Holds one or two syringes from 0.5ul to 140ml
- High resolution color touch screen
- Real time clock
- Unparalleled ease of use
- Touch pad "lock" feature
- LED light on front panel
- Full metal chassis
- Built in syringe table
- Up to 75 lbs linear force
- Advanced microstepping techniques
- Built in RS485 interface
- USB port
- I/O & TTL interface
- Continuous mode of operation
- Spill dam

Legato Inherits KD Scientific's Legendary Reliability

Our experience in pumps and fluidics was used to create the Legato 200 Series. Over the years, customers had asked to display more information simultaneously and make it easier to configure and run complicated multi-step programs. The high resolution touch screen interface offers unparalleled ease of use. Today's demanding applications require better flow performance and repeatability down to 1 nl/hr. Legato offers 0.35% accuracy and 0.5% repeatability.

Designed TO Meet Today's Challenges

In today's economic environment, multiple users with different experiments are using the same pump. The next generation of pump had to meet this demand to store and recall multiple programs. The pumps role in the experiment now changes more readily with multiple users and multiple tests being done using a single pump.

Engineered TO Meet Global Regulatory Compliance

Worldwide use of our pumps and changing regulatory compliance meant designing the pump to meet RoHS and WEEE, CE, UL, CSA, and CB schemes. The Legato has lead free boards and is designed to the latest safety and EMI/RFI standards.

Specifications:

Accuracy:

- $\pm 0.35\%$

Reproducibility:

- $\pm 0.05\%$

Syringes (Min/Max):

- 0.5ul to 140ml

Flow Rate:

- Minimum (0.5ul syringe): 5pl/min. • Maximum (140ml syringe): 220.97 ml/min

Display:

- 4.3 WQVGA TFT Color Display with Touchpad

Non-Volatile Memory:

- Stores all Settings

Connectors:

- RS232 - 9PIN D-Sub Connector.
- 9S485-IEE-13946 pos.
- USB - Type B.
- I/O & TTL - 15 pin D-Sub Connector.

Linear Force (Max):

- 34 kg (75lbs) @ 100% Force Selection.

Drive Motor:

- 1.8 Degree Stepper Motor

Motor Drive Control:

- Microprocessor with 1/16 microstepping

Number of Microsteps per one rev.of Lead Screw:

- 6,400

Sep Rate - Minimum:

- 27.5 sec/ustep

Step Rate - Maximum:

- 26 usec/ustep

Pusher Travel Rate - Minimum:

- 0.36 um/min

Pusher Travel Rate - Maximum

- 190.80 mm/min

Power:

- 100-240 VAC: 50/60 Hz, 50 W, 0.5 A Fuse

Dimensions:

- 8.89 x 25.4 x 27.96 cm (3.5 x 10 x 11 in)

Weight:

- 4.9 kg (10.75 lbs)

Operating Temperature:

- 4 Degrees C to 40 Degrees C (40 degrees F to 104 degrees F)

Storage Temperature:

- -10 degree C to 70 degree C (14 degree F to 158 degree F)

Humidity:

- 20% to 80% RH non condensing

Mode of Operation:

- Continuous

Classification:

- Class 1

Pollution Degree:

- 1

Inhilation Category:

- 11

Regulatory Certification:

- CE, UL, CSA, CB Scheme, EU RoHS

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Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium