

S450i Syringe Pump



Features

- Compatible
- Automatic syringe calibration, suitable for all international brands.
- Convenient
- “Open able slider hook”, convenient to clamp syringe plunger.
- Powerful
- Battery capable to support more than 6 hours for one channel continuous working.

Technical Specifications

S450i
 Syringe Pump

Syringes

10, 20 30, 50 mL of calibrated syringes

Flow Rate

0.1 ~ 1500 mL/h (specified value 0.1 ~ 999.9 mL/h, 0.1 mL/h step
 (specified value 1000 mL/h or above, 1 mL/h step)

0.1 ~ 900 mL/h (0.1 mL/h step) 50 mL syringe

0.1 ~ 600 mL/h (0.1 mL/h step) 30 mL syringe

0.1 ~ 400 mL/h (0.1 mL/h step) 20 mL syringe

0.1 ~ 400 mL/h (0.1 mL/h step) 10 mL syringe

Purge rate

1500 mL/h 50 mL syringe

900 mL/h 30 mL syringe

600 mL/h 20 mL syringe

400 mL/h 10 mL syringe

Accuracy of flow rate (Nominal value)

Accuracy including syringe : within $\pm 2\%$

Mechanical accuracy : within $\pm 1\%$

Display range of volume delivered

0.1 ~ 9999 mL (0.1 ~ 999.9 mL, 0.1 mL step)
 (1000 ~ 9999 mL, 1 mL step)

Setting of delivery limit

0.1 ~ 9999 mL (0.1 ~ 999.9 mL, 0.1 mL step)
 (1000 ~ 9999 mL, 1 mL step)

Occlusion detection pressure

'H' : 800 ± 200 mmHg (106.7 ± 26.7 kPa) or 1.09 ± 0.27 kgf/cm²

'C' : 500 ± 100 mmHg (66.7 ± 13.3 kPa) or 0.68 ± 0.13 kgf/cm²

'H' : 300 ± 100 mmHg (40.7 ± 13.3 kPa) or 0.41 ± 0.13 kgf/cm²

Alarms

'Occlusion', 'Nearly empty', 'Finish', 'Syringe dislocated',

'Plunger/Clutch disengaged', 'Battery low', 'Battery exhausted',

'Power cable disconnected', 'Flow rate over limit', 'Volume over limited', 'System error',

'Non-operation time over'

Power

AC110 ~ 220V $\pm 10\%$, 50 ~ 60 Hz ± 1 Hz

Inner NiMH battery : DC 12V

Continuous operation time of battery: Over 6 hrs for one channel
 when battery is recharged for 12 hrs, at 5 mL/h flow rate

Operation conditions

Ambient temperature : 5 to 40° C

Relative humidity : 20% to 80%

Storage conditions

Ambient temperature : - 40 to 55° C

Relative humidity : 95%

Electric shock protection/class

Class I and internal power supply : Type CF, Continuous operation

Waterproof level

IP 44

Weight

2.25kg (with clamp base)

Dimension

306mm (Width) x 135mm (Height) x 127mm (Depth)

Function

- Body weight mode input
- Syringe size automatic calibration
- Syringe size automatic identification
- 3-level occlusion alarm limits setting
- Automatically reduce impact dose release after occlusion
- Limits setting
- Delivered volume display
- KVO flow rate
- Operation error prompt
- Purge rate setting
- "Purge" button activate safe protection
- Flow rate setting button lock
- Abundant audio visual alarm
- AC and internal power indication
- Standard Rs232 interface
- 500 history records

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