



HW-EM217

SYRINGE PUMP



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HW-EM217

FEATURES AND HIGHLIGHTS



Technical parameters

- Injection speed:
 - 50ml (60ml) syringe: (0.1~1500)ml/h (minimum step is 0.1ml/h)
 - 30ml syringe: (0.1~900)ml/h (minimum step is 0.1ml/h)
 - 20ml syringe: (0.1~600)ml/h (minimum step is 0.1ml/h)
 - 10ml syringe: (0.1~300)ml/h (minimum step is 0.1ml/h)

- Flow rate accuracy within $\pm 3\%$
- Pump mechanical accuracy within $\pm 2\%$

- Bolus injection speed
 - 50ml (60ml) syringe: (0.1~1200)ml/h (minimum step is 0.1ml/h)
 - 30ml syringe: (0.1~720)ml/h (minimum step is 0.1ml/h)
 - 20ml syringe: (0.1~480)ml/h (minimum step is 0.1ml/h)
 - 10ml syringe: (0.1~240)ml/h (minimum step is 0.1ml/h)

- Bolus injection volume
 - 50ml (60ml) syringe: (0.1~10)ml (minimum step is 0.1ml)
 - 30ml syringe: (0.1~10)ml (minimum step is 0.1ml)
 - 20ml syringe: (0.1~10)ml (minimum step is 0.1ml)
 - 10ml syringe: (0.1~5)ml (minimum step is 0.1ml)

- Rapid injection (priming or cleaning) speed
 - 50ml (60ml) syringe: 1500 ml/h
 - 30ml syringe: 900 ml/h
 - 20ml syringe: 600 ml/h
 - 10ml syringe: 300 ml/h

- Limit amount 0.1ml~9999.9ml

- Cumulative injection volume
 - 0.1ml~9999.9ml (minimum step is 0.1ml)

- Blocking Alarm Threshold Pressure Level
 - Height: 800mmHg \pm 200mmHg (106.7kPa \pm 26.7kPa)
 - Medium: 500mmHg \pm 100mmHg (66.7kPa \pm 13.3kPa)
 - Low: 300mmHg \pm 100mmHg (40.0kPa \pm 13.3kPa)

- Alarm types
 - Injection is almost empty, injection is completed, limited injection is completed, injection is blocked, syringe falls off, syringe is not installed correctly, battery is low, operation is abnormal, equipment failure, etc.

- Tips
 - Set error voice prompts, AC power unplugged prompts, and injection start prompts.

- Power supply
 - two power supply working modes, mains power: ~220V, 50Hz; built-in battery: 11.1V rechargeable lithium battery pack, capacity ≥ 1800 mAh; after the new battery is fully charged, it can be used for single-channel syringe pump to run at a rate of 5ml/h 4 hour or more, the dual-channel syringe pump runs at a rate of 5ml/h for more than 2.5 hours.

- KVO speed 0.1ml/h~5ml/h (minimum step 0.1ml/h, default 1ml/h)

- Fuse
 - specification T2AL/250V, quantity 2, installed in the pump.
 - Power:30VA
 - IP rating: IPX2 splash-proof equipment
 - Safety Class: Class I, Internally Powered, Type CF
 - Continuous Operation Equipment
 - Operating environment conditions: a) Ambient temperature range: +5°C~+40°C
 - b) Relative humidity: 20~90%
 - c) Atmospheric pressure range: 86.0KPa~106.0 KPa
 - Transportation and storage conditions: a) Ambient temperature range: -20°C~+55°C
 - b) Relative humidity: $\leq 93\%$ c) Atmospheric pressure range: 50.0KPa~106.0 KPa

- Overall dimensions: 270mm (length) \times 210mm (width) \times 121mm (height) - single channel
 275mm (length) \times 210mm (width) \times 255mm (height)—dual channel
 Weight: 2.2kg—single channel, 3.6kg—double channel

Working principle

A high-precision intelligent infusion pump that achieves precise control of the stepper motor through a microprocessor, drives the mechanical transmission mechanism, and induces the motion of the peristaltic squeezing plate. It works in conjunction with the squeezing plate to accurately control the infusion rate. Various sensors are employed to monitor and control the infusion process.

Functions

- Operation interface
 - High-capacity operating instructions, friendly user interface, dynamic display of working status.

- Voice prompt
 - Unique vocal voice alarm with fault voice reporting prompts.

- Alarm function
 - Sound, light and screen triple alarm system with eye-catching function.

- Power-On Self-Test
 - The system self-test is completed at power-on to ensure safe working.

- Low noise
 - Motor driver IC imported from Germany and motor imported from Japan with low noise and vibration.

- Other Function
 - Advanced Bolus technology to minimize patient discomfort.
 - Ultrasonic bubble detection technology to closely monitor air bubbles in the infusion tube.

Design

Brand new appearance, novel design and more comfortable visual experience.

**Shell material**

Brand new ABS engineering plastic mold injection molding.

**Screen design**

2.8-inch LCD display, LCD and digital tube dual screen display, clear and concise.

**Internal Structure**

It adopts aluminum-magnesium alloy bracket, which is stable and reliable, with good shock resistance and easy to move.

**Handle**

The invisible groove handle on the back is cleverly designed and easy to take.

**Hanging bracket**

Stable screw hanger can fix the infusion pump on the wall or pole.

**Shuttle**

One-button shuttle design starts injection with one button and is easy to operate.



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As the circumstance of printing, the photos might have minor difference on color, tactile from real products. As the update of design and improvement, parameters and outlook of products might change, thanks for understanding.



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