HW-EM216

INFUSION PUMP

Healthward

Healthier your life

HW-EM216

FEATURES AND HIGHLIGHTS

Technical parameters

- Product Size
  147mm (L) ×195mm (W) × 235mm (H) Allowable error ± 5%
- Product Weight
  Net weight about 1.8kg Gross weight about 2.5kg
- Mode selection drip rate mode, volume mode, time mode
- Infusion set specification
  special or standard disposable infusion set 1ml/15d, 1ml/19d, 1ml/20d, 1ml/60d
- History recording function, maximum 2000 history can be stored.
- Infusion speed range and minimum step
  ml mode: 0.1～2300ml/h, minimum step: 0.01ml/h
  Drops mode: 1～(400ml/h*drops/60) d/min, minimum step: 1d/min
- BOLUS Speed, preset amount setting range and minimum step
  ml/h mode: within ±5% (after calibration)
  Preset volume: 0.1 to 100ml, minimum step: 0.01ml
- Quick discharge speed, preset volume setting range and minimum step
  Speed: 0.1～2300ml/h, minimum step: 0.01ml/h
  Preset volume: 0～9999.99ml, minimum step: 0.01ml
- KVO (manual mode) speed, preset volume setting range and minimum step
  Speed: 0.1 to 30ml/h, minimum step: 0.01ml/h
  Preset volume: 0.1～1ml, minimum step: 0.01ml
- Preset volume setting range 0.1-9999.99ml, minimum step 0.01ml
- Cumulative volume range 0-9999.99ml, minimum step 0.01ml
- Accuracy of flow rate (ml/h)
  Flow rate ≧1ml/h: accuracy error ≦±3% (after calibration)
  Flow rate <1ml/h: accuracy error ≦±5% (after calibration)
- Accuracy of flow rate (d/min) ≤±3% (after calibration)
- Flow rate stability
  At a flow rate of 1ml/h, the liquid dispensing interval is less than or equal to 3 minutes.
- Pressure unit MPa、kPa、mmHg、inH2O、psi、mbar
- Blocking Alarm Pressure Levels
  1-16 levels (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 200) kPa
- Bubble Size Level
  Single bubble: 25ul, 50ul, 100ul, 200ul, 300ul, 400ul, 500ul, 600ul, 700ul, 800ul, ten grades are available.
  Cumulative bubbles: 50~1000ul/15 min
- Alarms
  Proximity completion alarm, Infusion completion alarm, Standby task completion alarm, Pressure blockage alarm (including upper and lower blockage pressure alarms), KVO completion alarm, Door open alarm, Air bubbles in tubing alarm, Forgotten operation alarm, Battery low alarm, Empty battery alarm, Operation abnormality alarm, Equipment failure alarm, System power down alarm, Drops sensor has been unplugged alarm, Tubing replacement due alarm, Infusion device mismatch alarm, heating abnormal alarm (optional), about to block the alarm (optional), empty bottle alarm, battery not connected alarm, communication interruption alarm, etc.
- Alerts
  Parameter overrun, infusion started, AC power unplugged, speed overrun, infuser not properly installed, infuser not calibrated, preset volume overrun, pump call, etc.
- Power supply
  Input voltage 100-240VAC, input frequency 50/60Hz;Input current 0.75-0.2A
  Internal Battery: Built-in 11.1V rechargeable lithium battery pack, capacity 2600mAh Can be used for infusion pump at a rate of 25ml/h continuous work 10h
- Fuse Size T2A/250VAC
  Safety Classification Class I, Type CF, Continuous Duty Equipment
  Waterproof rating IPX2
- Operating environment conditions
  Temperature: +5°C～+40°C, Relative humidity: 20～90%, Atmospheric pressure: 54.0kPa～106.0 kPa.
  Transportation and storage environment conditions
  Temperature: -20°C～+55°C, relative humidity: ≤95%, atmospheric pressure range: 50.0kPa～106.0 kPa.

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.

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.

Design
Overall humanized Concise, compact and beautiful lightweight, to rescue critical cases, reduce the labor intensity of nursing work has obvious superiority.

Shell material
Brand new ABS engineering plastic mold injection molding.

Screen design
3.5-inch, extra large color touch screen, support multi-language display. Equipped with pipeline lighting function, easy to operate in low light and clear at a glance.

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

Handle
Fixed Ltype handle design, comfortable grip, stable, and easy to move.

Hanging bracket
The sturdy screw mount allows for securing the infusion pump on the wall or a vertical post.

Battery
Built-in 11.1V rechargeable lithium battery pack with a capacity of 2600mAh can be used by the infusion pump to work continuously for 10 hours at a rate of 25ml/h.

Infusion line
Excellent KVO function (Keep vessels open) keeps the infusion line open. Optional tube heating function and tube damage detection make clinical infusion safer.

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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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General catalogue