



Features

- Easy Observation: Large Alarm light, visible at 5 meters away
- Easy Carry: Compact design with handle in light weight.
- Easy Operation: friendly keypad, convenient to load syringe with only one hand.
- Long Battery Performance: suitable for using in emergency and patient transferring.
- High Protection Level: IP24, support cleanness with water.
- High Accuracy: achieved within $\pm 2\%$.
- Multi Function: DPS, Fast start, Standby.
- Multi-Interface: RS232; WiFi connection; Ambulance supporting, etc.
- Multi language supporting.
- Advanced Docking Station: available for integrated power management.



BeneFusion SP1
Syringe pump

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healthcare within reach

BeneFusion SP1

Specifications and Functions	
Dimensions	330 x 126 x 110mm
Syringe size	5, 10, 20, 30, 50/60 ml
Mode	Rate Mode
Flow rate range	5ml syringe: (0.1~150) ml/h; 10ml syringe: (0.1~300) ml/h; 20ml syringe: (0.1~600) ml/h 30ml syringe: (0.1~900) ml/h; 50ml/60ml syringe: (0.1~1500) ml/h
Accumulated Volume	0.1~9999 ml, increment is 0.1 ml
VTBI	0.1~9999 ml, increment is 0.1 ml
Increments	0.1~999.9 ml/h, increment is 0.1 ml/h; 000~1500 ml/h, increment is 1 ml/h
Accuracy	Flow rate \geq 1 ml/h: Accuracy \leq \pm 2%; Flow rate < 1 ml/h: Accuracy \leq \pm 3%
KVO Rate	0.5 ml/h, unadjustable
Bolus rate	same as flow rate
Occlusion	Low 300 \pm 75 mmHg (40kPa L) Middle 525 \pm 75 mmHg (70kPa C) High 900 \pm 135 mmHg (120 kPa H)
Screen	LCD 132*32 Pixels
Titration	•
Keypad lock	•
Pause	•
Automatic Recognition of Syringe size	•
Self-test system	•
Weight	<1.8kg (include clamp)
Docking saturation	Support
Handle	•
Mouting type	Standard: Vertical Pole; Optional: Horizontal Pole
Alarm volume	8 levels, adjustable
Preset syringe brand	8
Language	11
Alarm	
VTBI Done	•
VTBI Near Done	•
KVO Finish	•
Syring empty	•
Syring disengaged	•
Syringe near empty	•
Occlusion	•
System malfunction	•
System Abnormal	•
Battery low	•
Battery empty	•
Reminder	•
Standby	•
AC power disconnection	•
Syringe not correctly inserted	•
Safety Requirement	
AC Power	100-240 V (50/60 Hz)
Battery type	Lithium
Battery operation time	Standard: 6 hours@5 ml/h; Optional: 12 hours@5 ml/h
Charging time	5 hours
Classification	CF, Class I
IP Grade	IP24
Temperature	0~40°C for operating, -40~70°C for storage
Humidity	15~95% for operating, 10~95% for storage
Air pressure	57~106kPa for operating, 50~106kPa for storage
Interface	
Data Interface	• RS232
Wireless connection	• WiFi (Optional)
Nurse Call	•
DC Input	•
Ambulance	•

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