

BeneFusion nVP (Silicone dedicated system)

Infusion Pump

Data Sheet



Physical Specifications

Weight	≤ 1.85kg
Size	≤ 210x 140 x73mm
Screen	7.0inch touchscreen, TFT color LCD, 150x800 pixels
Brightness	1-8 levels, adjustable
Display	Patient information (patient category, bed number, and patient name) Infusion status (infusion mode, brand information, drug name, infusion progress bar, real-time pressure status and infusion parameters) Alarm information (alarm status, alarm message or prompt message) System status information (alarm symbol, battery status, relayed status, and system time)

Parameters Specifications

Accuracy	≤±3 % (for InfusoSafe™ Set S dedicated sets)
Mode	Rate mode, Dose Mode, Dose Time Mode, Time mode, Sequential Mode, Intermittent Mode, Loading Dose Mode, Ramp Mode, Micro-infusion Mode, Drip Mode
Application supported	IV drug infusion, enteral nutrition feeding, and blood transfusion
Flow rate	0.10ml/h - 2300ml/h
Increment	0.01ml/h (0.10-99.99ml/h), 0.1ml/h (100-999.9ml/h), 1ml/h (1000-2300ml/h)
Preset volume (VTBI)	0.10 – 9999.99ml (increment: 0.01ml)
Preset time	00:00:01 – 99:59:59
Accumulated volume	0.00 - 99999.99 ml
KVO	0.1 - 50ml/h, increment: 0.01ml/h
Purge rate	0.1 - 2300ml/h
Bolus rate	0.1 - 2300ml/h (automatic or manual)
Occlusion detection	50-1125mmHg (15 levels selectable, respectively are 50, 150, 225, 300, 375, 450, 525, 600, 675, 750, 825, 900, 975, 1050, 1125mmHg) Default is 450 mmHg 4 units of pressure selectable: mmHg/kPa/bar/psi
Anti-bolus	Unexpected bolus reduced when the occlusion occurs
Dose rate units	ng/kg/min, ng/kg/h, ng/kg/24h, ug/kg/min, ug/kg/h, ug/kg/24h, mg/kg/min, mg/kg/h, mg/kg/24h, g/kg/min, g/kg/h, g/kg/24h, mU/kg/min, mU/kg/h, mU/kg/24h, U/kg/min, U/kg/h, U/kg/24h, kU/kg/min, kU/kg/h, kU/kg/24h, EU/kg/min, EU/kg/h, EU/kg/24h, mmol/kg/min, mmol/kg/h, mmol/kg/24h, mol/kg/min, mol/kg/h, mol/kg/24h, mcal/kg/min, mcal/kg/h, mcal/kg/24h, cal/kg/min, cal/kg/h, cal/kg/24h, kcal/kg/min, kcal/kg/h, kcal/kg/24h, mEq/kg/min, mEq/kg/h, mEq/kg/24h
Air bubbles detection	6 levels selectable: 15/50/100/250/500/800µL, accumulate air: 0.1-1.0ml/15min
Screen lock	Support password-protected screen lock
Auto-lock time	1 - 5 minutes selectable, ON/OFF switchable
History log	Up to 3500 records

Volume collection	Available in 4 methods: 24h total, current total, period volume, timing volume
Drug library	Up to 5000 drugs; 50 categories (optional); 30 care areas/departments, support color-coding drug name
DERS (Dose Error Reduction System)	Available, definition of dose limits, automatic alarms when reaching dose limits

IV administration sets

Compatibility	InfusoSafe™ Set S silicone dedicated IV sets
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Alarms

Type	Audible and visual alarm
2 Levels	High: Air in Line/ Accumulated Air/ Empty/ Drop Error/ Upstream Occlusion/ Downstream Occlusion/ Infusion Set Error/ No Drop Sensor/ Battery Depleted/ VTBI Complete/ KVO Finish/ Relay Invalid/ System Error/ No Infusion Tube

Low: KVO Running/ Battery in Use/ Battery Error/CMS/eGW Disconnected/ Standby Time Expired/ Dock Connection Interrupted/ System Time Error/ Relay Invalid Soon/ Time Near End/ Reminder/Low Battery

Sound volume	1-8 levels selectable, default is level 4
Reminder	1-5 minutes selectable; ON/OFF switchable

Connectivity

Communication	Wireless
USB	Support drug library import, patient information loading, patient data export, history record export, calibration data import/export
Multifunctional connector	RS232; nurse call connector; DC adapter
Integration	Synergy with Mindray patient monitor Connect with BeneVision Central Monitoring System

Battery

Operating time	≥ 5 hours at 25ml/h (≥ 11 hours at 25ml/h for smart battery)
Charging time	≤ 5 hours to full capacity (≤ 6 hours for smart battery)

Power Supply

Voltage 100-240 V; frequency 50/60Hz; current 0.5-0.21A

Work Environment

Temperature	5-40°C for operating; -30-70 °C for storage
Relative humidity	15-95% for operating; 10-95% for storage
Atmosphere pressure	57.0-107.4 kPa for operating; 16.0-107.4 kPa for storage
Classification	Type CF, Protection Class I, IP33
Stackability	Supported with stack rack, maximum of 3 pumps can be stacked

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