

# BeneFusion eVP ex

Infusion Pump

Data Sheet



## Physical Specifications

Weight	≤ 1.7kg
Size	≤ 210x 140 x73mm
Screen	3.5 inch touchscreen, TFT color LCD, 200x400 pixels
Brightness	1-8 levels, adjustable
Display	Infusion status (drug name, infusion parameters, real-time in-line pressure) System status information (infusion mode, IV set brand or bed number, alarm symbol, battery status, network status, relayed status, and system time)
Indicator on the door	Infusion status indicator
Pumping mechanism	Linear peristaltic drive mechanism
Free flow protection	
Wall/bed rail Attachment	

## Parameters Specifications

Accuracy	≤ ±4.5 % (for recommended 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 (0.10-2000ml/h for blood transfusion)
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	50-150 mmHg Neonatal Pre-alarm: an alert will pop out when the pressure is continuously going up Auto-restart: On/Off, restart the infusion when the occlusion pressure is reduced. 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
Auto-lock time	1 - 5 minutes selectable, ON/OFF Switchable
History log	Up to 3500 events
Volume collection	Available in 4 methods: 24h total, current total,

Drug library	period, timing volume, support history rate review Up to 5000 drugs, 30 categories, support color-coding drug name
DERS (Dose Error Reduction System)	Available, definition of dose limits, automatic alarms when reaching dose limits
Standby mode	
Service mode	

## IV administration sets

Compatibility	OEM Pre-Calibrated 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 Disengaged/ No Infusion Tube/ Infusion Set Error /No Drop Sensor/ Battery Depleted/ VTBI Complete/ KVO Finish/ Relay Invalid/ System Error

	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/Low flow/High flow
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Sound volume	1-8 levels selectable, default is level 6
Reminder	1-5 minutes selectable, ON/OFF switchable
Mute alarm temporarily	2 minutes

## Connectivity

Communication	Wired/wireless
USB	Support drug library import, patient data import/export, history record export, calibration data import/export
Multifunctional connector	RS232, nurse call connector, DC adapter
Integration	Connect with BeneFusion nCS infusion central station Connect with BeneVison Central Monitoring System (CMS)

## Battery

Operating time	≥ 5 hours at 125ml/h (≥ 8 hours at 125ml/h, ≥11 hours at 25ml/h for smart battery)
Charging time	≤ 5 hours to full capacity (≤ 6 hours for smart battery)
Battery protection	Over-charge and over-discharge protection

## Power Supply

	Voltage 100-240 V~, frequency 50/60Hz, current 0.5-0.21A
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## 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, Class I, IP33
Stackability	Supported with stack rack, maximum of 3 pumps can be stacked

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