

# SYS-70 Infusion Pump



## Specifications

Dimension	160(W) x 236(H) x 92(D)mm
Weight	About 1.5kg (including the battery of standard configuration)
Service Life	10 years
Syringe types	All standard syringes of 5ml, 10ml, 20ml, 30ml, 50ml, 60ml
Date of Manufacture	See the label at the bottom of the product
Classification	<ol style="list-style-type: none"> <li>1. Class I / Internally powered equipment</li> <li>2. Type CF applied part</li> <li>3. IP34</li> <li>4. Not sterilized</li> <li>5. Not category AP / APG equipment</li> <li>6. Mode of operation: continuous</li> </ol>

## Special function

Repeated alarm	After the sound of an alarm is muted, this alarm is reported again about 2 minutes later if it persists
Event recording	A maximum of 2000 events can be stored for playback
Barcode scanning	Patient information can be input by barcode scanning
Drug library	A maximum of 5000 drug types can be stored (default: 60 preset drug types)
Wireless Networking	Enables the infusion pump to be connected to the infusion central monitoring system

## Basic parameter

Infusion mode	Rate Mode, Time Mode, Weight Mode, Trapezia Mode, LoadingDose Mode, Sequence Mode, Drip Mode, and Micro Mode
Infusion rate	0.1-1500.0ml/h or 0.03-500d/min (The maximum infusion rate varies with the sizes of the infusion sets)
VTBI range (Volume to be infused)	0.10 - 99.99ml (minimum increment: 0.01 ml),100.0 - 999.9ml (minimum increment: 0.1 ml),1000 - 9999ml (minimum increment: 1ml)
Minimum Increment of Infusion Rate	0.10-99.99ml/h (minimum increment: 0.01ml/h) 100.0-999.9ml/h (minimum increment: 0.1ml/h) 1000 -1500ml/h (minimum increment: 1ml/h)
Total Volume Display	0-99999mL
Infusion Accuracy	Infusion accuracy $\leq \pm 5\%$
Purge Rate	Maximum purge rate: 1500mL/h
Bolus rate	0.1-1500ml/h, (The bolus rate is automatically calculated based on the bolus volume, and the bolus rate must not be lower than the current infusion rate)
KVO Rate	0.1-30.00mL/h (The KVO rate is not higher than the current infusion rate)
Air Bubble Detection	Air bubble alarm accuracy: $\pm 15\mu\text{l}$ or $\pm 20\%$ (whichever is greater).Single Bubble Level: 20, 50, 100, 200, 300, 500, and 800 ( $\mu\text{l}$ )Total Bubble Level: 100 $\mu\text{l}$ /15min, 200 $\mu\text{l}$ /15min, 400 $\mu\text{l}$ /15min, 500 $\mu\text{l}$ /15min, 600 $\mu\text{l}$ /15min, 800 $\mu\text{l}$ /15min, and 1000 $\mu\text{l}$ /15min
Alarm Message	Near Finished, Finished, OCCL, Up OCCL, Low Battery, Battery Empty, No Battery, No Power Supply, Air Bubble, No Drop Sensor, No Drop, Drop Error, Reminder Alarm, Standby End, Pre OCCL, and Door Open
Occlusion Level	75mmHg-975mmHg (13 levels are available for selection)

## Power supply

AC power	100-240 V AC, 50/60 Hz, 35 VA input power
External DC power	12V 2A
Built-in battery	Configuration 1 (standard): one 11.1V 1500mAh lithium battery; model: 154457 Configuration 2 (optional): two 11.1V 1500mAh lithium batteries; model: 154457 Configuration 3 (optional): two 11.34V 2900mAh lithium batteries; model: 18650-3S
Continuous operation duration	Configuration 1: Not shorter than 5 hours Configuration 2: Not shorter than 10 hours Configuration 3: Not shorter than 20 hours
Test conditions	Fully-charged brand new battery is selected, screen brightness is adjusted to the lowest level, WiFi is disabled, and the infusion rate is set to 25 mL/h
Compatible Infusion Set	All disposable infusion sets conforming to standards

## Safe conditions

	Temperature	Humidity	Pressure altitude
Operating conditions	5°C to 40°C	15% to 95% RH, non-condensing	53.9~106.0kPa
Storage and Shipping conditions	-20°C to +55°C	10% to 95% RH, non-condensing	22.0 kPa-107.4 kPa

## Main Safety Standards

IEC 60601-1 Medical electrical equipment – Part 1	General requirements for basic safety and essential performance
IEC 60601-2-24 Medical electrical equipment – Part 2-24	Particular requirements for the basic safety and essential performance of infusion pumps and controllers
IEC60601-1-8Medical electrical equipment – Part 1-8	Generalrequirements for basic safety and essential performanceCollateral standard: General requirements ,tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
IEC 60601-1-2 Medical electrical equipment – Part 1-2	General requirements for basic safety and essential performance Collateral Standard: Electromagnetic disturbances –Requirements and tests



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