

Plum SoloTM

Precision IV Pump

Specifications



Physical

Dimensions	Approximately 8.5 H x 6.5 W x 6.5 D inches (21.6 cm H x 16.5 cm W x 16.5 cm D) (excluding pole clamp extrusion and power cord storage)
Number of Channels	One Channel with a primary (line 1) and secondary (Line 2)
Weight	Approximately 7 lbs (3.2 kilograms) with battery
Casing	High-impact plastic

Electrical

Power Requirements	100-240 VAC; 50-60 Hz; 160VA
Power Cord	Hospital-grade AC cord length = 10 ft
Battery	Lithium Iron Phosphate; 12.8 V; 2,500 mAh; internal; rechargeable.
Battery Operation	Typical battery operating time with new and fully charged battery Rate 25mL/hr – 7 hours, Rate 999mL/hr – 4 hours
Recharge	The battery charges whenever the infusion pump is connected to AC (mains) power and it is below its maximum capacity. The recharge time is up to 8 hours

Environment

Operating	41° F to 104° F (5° C to 40° C)
Transporting and Storage	–4° F to 140° F (–20° C to 60° C)
Atmospheric Pressure	0 to 10,000 ft (0 to 3,000 m) or equivalent atmospheric pressure
Fluid Ingress Rating	IPX2: Protected against vertical falling water drops

Delivery Rate, Range, and Accuracy

Delivery Accuracy	+/- 3%: 0.1 to 999 mL/hr Delivery accuracy testing was performed in accordance with IEC 60601-2-24:2012 and AAMI TIR101:2021
Rate Entry	> 0.1 to 9.99 mL/hr (in 0.01 mL/hr increments) > 10 to 99.9 mL/hr (in 0.1 mL/hr increments) > 100 to 999 mL/hr (in 1 mL/hr increments)
Concurrent Delivery	0.5 mL/h minimum for each line 500 mL/h cumulative (Line 1 + Line 2) maximum
KVO	1.0 mL/hr or the last primary delivery rate, whichever is less NOTE: KVO may be configured by CCA to have a default setting of 1-20 mL/hr
VTBI Range	0.1 to 99.99 mL (in 0.01 mL increments) and 100 to 9,999 mL (in 1 mL increments)

Occlusion Alarms and Limits

Downstream Occlusion	The downstream occlusion alarm sounds after the downstream tubing or set outlet fitting becomes occluded or vacuum occurs
Upstream Occlusion	The upstream occlusion alarm sounds if the upstream to the cassette becomes occluded or pressurized
Downstream Pressure Limit (Without Alarm)	Selectable range: 1 to 15 psi (52 to 776 mm Hg) with display accuracy ± 3 psi (± 155 mm Hg)
Maximum Infusion Pressure	20 psi (1034 mm Hg)

Air-in-line Alarms

Downstream	Air Bolus: Configured for each CCA as 50, 100, or 250 mcL of air or larger Cumulative: 0.25 mL of air out of 4.9 mL of fluid
Upstream	Air Bolus: 0.5 mL of air or larger Cumulative: 1 mL of air (0.5 mL of air per Line for concurrent delivery)

Intended Use: The Plum Solo precision IV pump is intended for administration of medications, and whole blood and blood products through the following routes of administration: intravenous, intra-arterial, and subcutaneous.

The Plum Solo precision IV pump is intended for use in clinical environments in the hospital and other outpatient healthcare facilities by licensed healthcare professionals.

These healthcare professionals are trained in the use of the infusion pump and the administration of therapies consistent with the intended use.

Plum Solo precision IV pumps are intended for adult, pediatric (including infants and children), and neonatal patient populations.

