

# Plum Duo™ Precision IV Pump Specifications



## Physical

**Dimensions** Approximately 9 x 11.75 x 6.5 in (23 x 30 x 17 cm)  
(excluding pole clamp extrusion and power cord storage)

**Number of Channels** Two channels: Left and right channel. Each channel has primary (Line 1) and secondary (Line 2)

**Weight** Approximately 10.6 lb (4.8 kg) with battery

**Casing** High-impact plastic

## Electrical

**Power Requirements** 100-240 VAC; 50-60 Hz; 160 VA

**Power Cord** Hospital-grade AC cord

**Battery** Lithium iron phosphate; 12.8 V; 3,000 mAh; internal; rechargeable

**Battery Operation** Typical battery operating time with new and fully charged battery (nominal screen brightness) for one channel at 25 mL/hr is 6:35 hrs and at 999 mL/hr is 4:25 hours  
Both channels infusing at 25 mL/hr is 5:30 hrs and at 999 mL/hr is 3:00 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/h Delivery accuracy testing was performed in accordance with IEC 60601-2-24:2012
Lines 1 and 2	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 on the same side) 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 99.9 mL (in 0.1 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)	Maximum pressure limit: User-selectable factory default setting 6 psi (310 mm Hg) Selectable range: 1 to 15 psi (52 to 776 mm Hg) with display accuracy $\pm 3$ psi ( $\pm 155$ mm Hg)
Maximum Infusion Pressure	20 psi (1034 mm Hg)

## Air-in-line Alarms

PlumSet™ (Downstream)	Air Bolus: Configured for each CCA as 50, 100, or 250 mL of air or larger Cumulative: 0.25 mL of air out of 4.9 mL of fluid
PlumSet (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 Duo precision IV pump is intended for administration of parenteral fluids, medications, and whole blood and blood products through the following routes of administration: intravenous, intra-arterial, and subcutaneous.

The Plum Duo 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.

The Plum Duo Precision IV Pumps are intended for adult, pediatric (including infants and children) and neonatal patient populations.

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