

Power Infuser®

Controlled IV Boluses. Hands-free Fluid Resuscitation.



ZOLL®

Controlled IV Boluses

Tested and Approved for Flight by the US Military

The ZOLL® Power Infuser® offers an unprecedented level of control over fluid administration to help you adhere to your protocols.

Hands-free Fluid Resuscitation

Automated boluses, air elimination, occlusion detection, one-way valves, long battery life, and quick set up combine to give you a helping hand when you need it.

The first portable electronic pump designed specifically for fluid resuscitation.

- Infuse an automated 250 ml bolus in 2.5 minutes without elevating or pressurizing the IV bag.
- Adjust continuous flow rates from 0.2 to 6 liters per hour.
- Lay the IV bag down to simplify transport; membranes in the crystalloid/colloid cartridge remove air from the line.
- The pump runs for up to eight hours on six AAA batteries.
- Designed to withstand the rigors of the EMS environment; developed for the battlefield in cooperation with the Walter Reed Army Institute of Research.
- Blood cartridge also available for controlled delivery of whole blood and pRBCs.



Power Infuser Specifications

Pump

Bolus Setting: 250 ml in 2.5 minutes

Continuous Flow Rate Settings: 0.2, 1, 2, 4, and 6 liters/hr

Accuracy: ±15%

Pump Type: Shuttle mechanism (patent no. 5,577,891)

Free Flow: Allowed if fluid source is above patient

Retrograde Flow: Prevented by valves

Alarms: Air in line (after filter in crystalloid/colloid cartridge), downstream occlusion, low battery

Air Alarm Trigger: Bubble of approximately 20 µl or larger

Occlusion Alarm Trigger: Approximately 20 PSIG (1000 mm Hg)

Power Source: 6 AAA batteries or 12-15 V DC adapter

Typical Battery Life at 6 lph: Approximately 8 hours

Weight of Pump with Batteries: 330 grams

Dimensions: 9.8 x 7.0 x 5.0 cm

NOTE: The above specifications hold under normal operating conditions; defined as: IV bag positioned at patient level; IV set and cartridge properly primed and cleared of air bubbles; 18 in. long IV tubing (provided) is the only segment between pump and peripheral IV catheter of recommended size (18 gauge for saline); compatible fluids used.

Crystalloid and Colloid Cartridge and IV Set

Compatible Fluids: Crystalloid or colloid IV fluids

Incompatible Fluids: Medications, blood products and non-ionic fluids

Priming Volume, Cartridge: 7 ml

Priming Volume, Cartridge and 18 in. Segment: 10 ml

Inlet Connector: Female luer

Outlet Connector: Male locking luer

Air Elimination Method: Hydrophilic filter and hydrophobic vent combination

Filter Pore Size: 1.2 microns

Weight: 30 grams

Dimensions: 4.6 x 9.7 x 1.3 cm

Blood Cartridge and IV Set

Compatible Fluids: Whole blood, RBCs, crystalloid or colloid IV fluids

Incompatible Fluids: Medications and non-ionic fluids

Priming Volume, Cartridge: 7 ml

Priming Volume, Cartridge and 18 in. Segment: 10 ml

Inlet Connector: Female luer

Outlet Connector: Male locking luer

Air Elimination Method: None (use IV set with drip chamber and blood screen)

Weight: 30 grams

Dimensions: 4.6 x 9.7 x 1.3 cm

Environment

Operating Temperature: 0°C to 49°C

Storage Temperature: -46°C to 71°C

Humidity: 10% to 95%

Vibration: MIL-STD-810F

Electromagnetic Compatibility (EMC): MIL-STD-461E, CISPR 11, Class B

Radiated Immunity: IEC 61000-4-3

Electrostatic Discharge: IEC 61000-4-2

Conducted Susceptibility: IEC 61000-4-6

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