



PRODUCT SPECIFICATIONS

Operating Characteristics	
Powered modes	Standby AC Power On Battery Power On
Standard Infusion	10 mL/hour to 1200 mL/hour $\pm 10\%$
Rapid Infusion	20 mL/minute to 1200 mL/minute $\pm 10\%$
Bolus infusion	100, 250, 500 or 1000 mL of fluid at 500 mL/minute $\pm 10\%$ or User Selected Rate
Bolus Selectable Rate	10 mL/hour to 1200 mL/minute $\pm 10\%$
Total infusion amounts	60 mL to 99,980 mL ($\pm 10\%$)
Maximum infusion pressure	100 or 300 mmHG
Heating capability to compatible fluid media	35°C rise at 500mL/minute 17°C rise at 1000 mL/minute
Heater	
Temperature of blood-contact surfaces	<45°C
Maximum heater temperature (single-fault condition)	45°C
Nominal fluid inlet temperature	20°C
Nominal fluid outlet temperature w/ Heater On	37 \pm 2°C at 1000 mL/minute
Output Temperature	Set to 40 \pm 2°C
Protection against air infusion	Prevents infusion of air bubbles $\geq 50 \mu\text{L}$ at max rated flow
Maximum volume per Disposable Cassette	100 Liters

Disposable Cassette prime volume	≤ 200 mL
Time required for priming	≤ 60 seconds
Audible outputs	
Good key / key click	2-ms tone indicates recognition and acceptance of key press
Bad key / key click	5-ms tone to indicate recognition of key press not applicable in current operating mode
Error Alarm	Long Tone Pulses - Safety critical events that, if ignored, may cause infusion to be halted or incorrect behavior
Warning Alarm	Short Tone Pulses - Indicates that the ThermaCor 1200 is in a condition that is not safety critical but could become an Error if not dealt with
Alert Alarm	Single Short Tone Pulse - Messages that inform the operator that the system is in a condition that is not safety critical and are not yet Alerts
Environmental Characteristics	
Operating Temperature Relative humidity Altitude EMC (radiated/immunity) Mechanical noise	5°C to 40°C 20% to 90% 0 to 10,000 feet CISPR11 Group 1 Level B/IEC 1000-3 Level 2 <65 dBA in normal operation @ 1 meter
Physical Characteristics	
Size	W8.75" x H16.5" x D13"
Weight (without Disposable)	22 lbs
IV pole mount	Accepts IV pole 0.75 to 1.5" in diameter capable of safely supporting at least 22 lb.
Power Source	
Power requirements	100-240 VAC @ 50/60 Hz (mains)
Battery backup Type Deliverable cell capacity Battery Shelf life Battery Recharge time	Lithium ion battery pack 250 mL/hour for 2 hours or 1,000 mL/minute for 30 minutes Battery will retain a charge for 3 years from date of manufacture (at nominal conditions). Pump will still function on AC power; battery will require recharging prior to using battery backup. 6 hours

Protection against hazardous output	
Leakage current	Leakage Current: < 100 uA normal conditions (132 VAC @ 60 Hz), < 500 uA, under single fault conditions (264 VAC @ 60 Hz)
Enclosure leakage current	<100 µA (enclosure to any ground) under normal conditions and <500 µA in single-default condition
Patient leakage current	<10µA under normal conditions and <50 µA in single default condition
Tubing length between device and patient	183±5 cm
Tubing connector at patient end	Locking male Luer or 3/8" tube for barbed fitting
Tubing length between device and fluid bag access	100±5 cm
Tubing connectors at IV fluid bag connections	Standard, non-vented IV bag spikes
Sterilization	
Disposable cassette	Ethylene oxide
Cleaning	
Cleaning and Maintenance	The Disposable Cassette interface with the Pump (including silicone pad, pump rollers, and sensors) should be cleaned after every use. These areas should be gently cleaned with a solution containing either 20% isopropyl alcohol and water or 10% bleach (0.05% sodium hypochlorite) and water or methylated spirit
Ancillary Products	Self-Contained Disposable Cassette Triple Spiked IV Inflow Connector Single Access High-flow patient tube Dual Access High-flow patient tube On / Off Foot Switch
Optional Products	Large Volume Cardiotomy Reservoir Large Volume Reservoir Holder Blank Disposable Cassette for Storage / Shipment Replacement Silpad