

Warrior (standard)

(Q1110S000)

10.22



Top performance yet genuinely portable blood and IV fluid warmer for mid- and long-haul critical care transports.

KEY BENEFITS

- Simple to Operate: One button operation; simple setup
- Portable: Can fit small transport platforms
- Immediate Warming: Warm fluids in seconds
- At Any Input Temperature: Even at 4°C / 39°F fluid input temperature
- Even At High Flow Rates: Up to 180/min for the full warming range (4°C-38°C / 39.2°F-100.4°F)
- Superb Handling of Push-Pull / Bolus / Intermittent Resuscitation Method: Fast reaction to flow changes and unmatched intermittent flows handling (e.g. hand pump, syringe, etc.)
- Highly Efficient Technology: 3-5 liters of warmed fluids with a single battery
- Mountable: To pole, rail or stretcher
- Communicative: Built-in display and audio indications
- No Calibration: No need for periodic calibration
- Practically Zero Maintenance: 5 years between service cycles
- Patent-Protected Smart Warming Technology: Microprocessor-controlled smart warming technology that measures fluids temperature 100s of times a second and automatically adjusts warming to maintain 38°C / 100.4°F output
- Safe Technology: Gradual warming; real-time temperature sensing with auto-adjustments and audio and visual indications; aluminum free (heat exchanger using medical grade stainless steel)
- Field Proven Technology: In clinical use since early 2014 with hundreds of end users and thousands of field utilizations
- Affordable Consumables: Cost effective consumable design
- Multipurpose Consumables: The same consumable fits all protocols
- Unique Continuum of Emergency Care Proposition: Same consumable can be used across the entire continuum of emergency care, simplifying patient handoff between emergency settings and reducing costs



Warrior (standard)

10.22

(Q1110S000)



Performance:	
Set-Point Temperature	38°C (±2°C) / 100.4°F (±3.6°F)
Warming Time	Up to 11 seconds
Minimum Delivery Rate	KVO or 2 ml/min
Maximum Delivery Rate at 4°C/39.2°F Input ^{[1][2]}	Up to 180 ml/min
Battery Capacity at 4°C/39.2°F Input	Up to ~3 liters
Battery Capacity at 20°C/68°F Input	Up to ~5 liters
Physical Characteristics:	
Dimension (H x W x L)	23.2 x 15.6 x 7.8 cm 9.13" x 6.14" x 3.07"
Weight	1,720 g / 3.79 lb
Electrical Characteristics:	
Battery Characteristics	Rechargeable, Li-ion, 21.6V, 4.6Ah, 99.36Wh
Battery Charging Input Voltage	100–240 VAC 50–60 Hz Max 2.0 A 12/24V
Target Regulatory Envelope:	
Certifications	CE, FDA & Health Canada
IEC	• IEC 60601-1 • IEC 60601-1-2:2014 (EMC standard 4th edition) • IEC 60601-1-11
Compliance	EN1789
Environmental Specifications:	
Storage Conditions	-30°C to 70°C (-22°F to 158°F) ^[3]
Operating Conditions	-5°C to 40°C (23°F to 104°F) ^[3]
Atmospheric Pressure /Altitude	549 to 1,060 hPa / -400 to 4,572 meter (-1,312 to 15,000 ft) ^[4]
Ingress Protection (IP)	IP33

CORE COMPONENTS:

- Base Unit (QPORT1100) Hosts the control module and user indications (audio, visual). Connects with the battery and the Disposable Unit (note: EXTREME Base Unit configuration available as well; contact your QinFlow representative for details)
- Enhanced Battery (QPORT1180) Rechargeable, Li-ion, 21.6V, 4.6Ah, 99.36Wh

DISPOSABLE UNIT:

- Compact Disposable Unit (QPORT0500) Compact sterile disposable unit

CHARGING COMPONENTS:

- Charger (FY-17036-ADT)
- Adapter (QPORT1330)

ACCESSORIES:

- Mounting (QPORT1010)
- Mounting option to pole, rail or stretcher
- Extension Cable (QIF-CBL00019)
- To extend the connection between the base unit and the disposable unit
- Soft Carrying Bag (QPORT1410)
- Hard Carrying Case (QPORT1400)
- 12-24V Charger (MASCOT-2544Li6C)

[1] Using standard IV kit and a 14G catheter. Blood products' flow rate may differ due to their viscosity. Output temperature and volume may differ based on ambient temperature, flow rate and battery condition.

[2] This document is based on EU-approved spec. For the USA-cleared version, please refer to the IFU or to your QinFlow representative.

[3] Under EN1789:2007 +A2:2014.

[4] In compliance with IEC60601-1-11:2010 section 4.2.2c.