

Warrior EXTREME

(Q1210S0000)

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 such
- Immediate Warming: Warm fluids in less than 11 seconds
- At Any Input Temperature: Even at 4°C/39°F fluid input temperature
- Even At High Flow Rates: Up to 200ml/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
- Highest Regulatory Envelope: IEC 60601-1-12 and IEC 60601-1-2:2014 (EMC standard 4th edition) certified; MIL-STD 461G RE102 & RS103 compliant
- 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

For more information: hello@ortus.co.uk



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| 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 200 ml/min |
| Maximum Delivery Rate at 20°C/68°F Input ^{[1][2]} | Up to 290 ml/min |
| Battery Capacity at 4°C/39.2°F Input | Up to 3.5 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, 4.6 Ah, 99.36Whh |
| 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 60601-1-12 |
| Compliance | • EN1789• MIL-STD 461G RE102 & RS103 |
| 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) |
| Transient operating conditions | -20°C to 50°C (-4°F to 122°F) & 90% RH |
| Atmospheric Pressure /Altitude | 549 to 1,060 hPa / -400 to 4,572 meter (-1,312 to 15,000 ft) ^[4] |
| Ingress Protection (IP) | IP56 |

Core Components:

EXTREME Base Unit (QPORT110012) Hosts the control module and user indications (audio, visual). Connects with the battery and the Disposable Unit (note: Standard 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, MASCOT9940Li6C, or MASCOT2440Li6C)

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.

Note: the information provided in the Instructions For Use (IFU) shall govern in case of conflict .This document is adjusted to CE approvals; for exact specifications of the USA-cleared version, please refer to the relevant IFU or contact your QinFlow representative.

 degree in Celsius
degree in Fahrenheit Standard cm = centimeter hPa hecto Pascal (100 Pascal) = kilogram °F DU = Disposable Unit HxWxL = Height x Width x LengthKVO = Keep Vein Open = Inch EN = European Norms = International Electrotechnical Commission = Libra (Pound) IEC lb AC = Alternate Current MIL-STD = Military Standard = Instructions for Use FDA = Federal Drug Administration IFU = Base Unit = Ingress Protection rating BU Ft = Feet IP ml/min = milliliter per minute CDU = Compact Disposable Unit = gram IV = Intravenous RH = Relative Humidity g

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