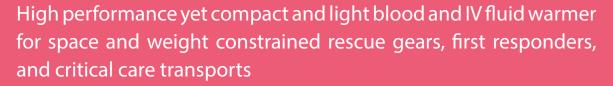




Warrior lite (Extra Power battery)

(Q1310S0000)





December 2021 | Version 8









Key Benefits:

- **Simple to Operate:** Failsafe assembly, simple setup
- Lite & Compact: 1.1 kg/2.39 lb | 10.5 x 8.8 x 11.5 cm/4.13" x 3.46" x 4.52"
- **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 180ml/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 lite 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
- Defibrillator-Proof: Disposable Unit is safe to be used jointly with a defibrillator
- **Night Vision Goggles Compliant:** Designed to be operated with night-vision goggles
- 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 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 lite (Extra Power battery)









(Q1310S0000)

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]}	180 ml/min
Maximum Delivery Rate at 20°C/68°F Input ^{[1] [2]}	270 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)	10.5 x 8.8 x 11.5 cm 4.13" x 3.46" x 4.52"
Weight	1.1 kg / 2.39 lb
Electrical Characteristics:	
Battery Characteristics	Rechargeable, Li-ion, 18.0V, 5.5Ah, 99Wh
Battery Charging Input Voltage	100–240 VAC 50–60 Hz Max 2.0 A
Target Regulatory Enve	lope:
Certifications	CE, FDA & Health Canada
IEC	• IEC 60601-1 • IEC 60601-1-2:2014 (EMC standard 4th edition) • IEC 60601-1-12
Compliance	• MIL-STD 461G RE102 & RS103
Environmental Specifications:	
Storage Conditions	-20°C to 70°C (-4°F to 158°F); 93% RH
Operating Conditions	-5°C to 50°C (23°F to 122°F); RH 90%
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)
Ingress Protection (IP)	IP56

Core Components:

Base (QIF03-BUA1000)

Hosts the control module and LED indications. Connects with the battery and the Compact Disposable Unit

Extra Power battery (QIF03-BTA2000) Rechargeable, Li-ion, 18.0V, 5.5Ah, 99Wh Note: lite battery available as well (1-2.5 liters; 300 g / 0.65 lb lighter)

Disposable Unit:

Compact Disposable Unit (QPORT0500) Compact sterile disposable unit

Charging Components:

Charger FY2102000 Adapter QIF03-CHA1002

Accessories:

Mounting (QIF03-MUA1000)

Extension Cable (QIF-CBL00019)

To extend the connection between the base unit and the disposable unit

Carrying Bag (QIF03-SBG2000)

12-24V Charger (MASCOT-2544Li5C-EP)

= gram

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.

C = degree in Celsius
F = degree in Fahrenheit Standard
C = Inch
AC = Alternate Current

AC = Alternate Current
BU = Base Unit
CDU = Compact Disposable Unit

cm = centimeter
DU = Disposable Unit
EN = European Norms
FDA = Federal Drug Administration

HxWxL = Height x Width x Length
IEC = International Electrotechnical Commission
IFU = Instructions for Use
IP = Ingress Protection rating
IV = Infravenous

= hecto Pascal (100 Pascal)

Kg = kilogram
KVO = Keep Vein Open
Ib = Libra (Pound)
MIL-STD = Military Standard
ml/min = milliliter per minute
RH = Relative Humidity

^[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, once available, please refer to your QinFlow representative.