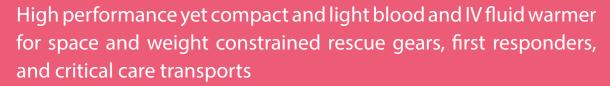




## Warrior lite

(Q1301S0000)





December 2021 | Version 7











- **Simple to Operate:** Failsafe assembly, simple setup
- **Lite & Compact:** 0.8 kg / 1.76 lb | 8.4 x 8.8 x 11.5 cm / 3.3" 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 170ml/min for the full warming range (4°C-38°C / 39.2°F-100.4°F)
- **Highly Efficient Technology:** 1-2.5 liters of warmed fluids with a single lite battery
- **2 Battery-Size Options:** lite battery and Extra Power battery options for optional operational fit (the Extra Power battery warms up to 3 liters of near-freeze fluids at max delivery rate of 180 ml/min)
- 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 audio and visual notifications; 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 (lite battery)









(Q1301S0000)

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 <sup>[1]</sup> [2]	170 ml/min
Maximum Delivery Rate at 20°C/68°F Input <sup>[1]</sup> [2]	250 ml/min
Battery Capacity at 4°C/39.2°F Input	Up to 1.3 liters
Battery Capacity at 20°C/68°F Input	Up to 2.5 liters
Physical Characteristics:	
Dimension (H x W x L)	8.4 x 8.8 x 115 cm 3.3" x 3.46" x 4.52"
Weight	0.8 kg / 1.76 lb
Electrical Characteristics:	
Battery Characteristics	Rechargeable, Li-ion, 18.0V, 3.0Ah, 54.0Wh
Battery Charging Input Voltage	100–240 VAC   50–60 Hz   Max 1.0 A
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	• 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

**lite battery** (QIF03-BTA1000) Rechargeable, Li-ion, 18.0V, 3.0Ah, 54.0Wh Note: Extra Power battery available as well (3 liters of near-freeze fluids at up to 180 ml/min)

#### **Disposable Unit:**

**Compact Disposable Uni**t (QPORT0500) Compact sterile disposable unit

#### **Charging Components:**

**Charger** (QIF03-CHR1000 and MASCOT2240Li) **Adapter** (QIF03-CHA1001)

### **Accessories:**

Mounting (QIF03-MUA1000)

**Extension Cable** (QIF-CBL00019) To extend the connection between the base unit and the disposable unit

Carrying Bag (QIF03-SBG1000)

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

[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.

= 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
" = Inch
AC = Alternate Current

CDU = Compact Disposable Unit

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

hPa = hecto Pascal (100 Pascal) HxWxL = Height x Width x Length IEC = International Electrotechnical Commission IFU = Instructions for Use

IFU = Instructions for Use IP = Ingress Protection rating IV = Intravenous Kg = kilogram
KVO = Keep Vein Open
Ib = Libra (Pound)
MIL-STD = Military Standard
ml/min = milliliter per minute
RH = Relative Humidity