

Warrior lite AC

(Q230000000)

High performance, simple-to-use, and compact blood & IV fluid warmer for operating rooms and intensive care units

July 2024 | Version 2.0



Key Benefits:

- **Simple to Operate:** Fail-safe assembly; one-button operation that minimizes the likelihood of human errors and enables consistent care in mass casualty event
- **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)
- **Unmatched Handling of Push-Pull / Bolus / Intermittent Resuscitation Method:** Fast reaction to flow changes and unmatched intermittent flows handling (e.g. hand pump, syringe, etc.)
- **Communicative:** Built-in LED display
- **Upgradeable to Full Portability:** Smooth upgrade path to portability by adding a battery
- **No Calibration:** No need for periodic calibration
- **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 >100K field utilizations
- **Affordable Consumables:** Cost effective consumable design
- **One Consumable Unit Fits All Warrior Products**
- **Continuum of Emergency Care:** Consumable unit fits all blood and IV fluid protocols and can be used across the entire continuum of emergency care, simplifying patient handoff between emergency settings and reducing costs



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| Performance: | |
|--|--|
| Set-Point Temperature | 38°C (±2°C) / 100.4°F (±3.6°F) |
| Warming Time | Less than 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 |
| Physical Characteristics: | |
| Dimension (H x W x L) | 22 x 12.5 x 10 cm 8.66" x 4.92" x 3.93" |
| Weight | 1.46 kg / 3.22 lb |
| Electrical Characteristics: | |
| Electrical Specifications | 100-240VAC 50-60Hz; 2.2-5.3A |
| Target Regulatory Envelope: | |
| Certifications | CE, FDA & Health Canada |
| IEC | <ul style="list-style-type: none"> • IEC 60601-1 • IEC 60601-1-2:2014 (EMC standard 4th edition) |
| 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) & 90% RH |
| Atmospheric Pressure /Altitude | 700 to 1,060 hPa / -400 to 3,200 meter (-1,312 to 10,499 ft) |
| Ingress Protection (IP) | IP22 |

Core Components:

Base Unit: (QIF03-BUA1000)

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

Power Supply Module (QIF-ACL10000)

Medical grade power supply module in a dedicated case

Disposable Unit:

Compact Disposable Unit (QPORT0500)

Compact sterile Disposable

Accessories:

Extension Cable (QIF-CBL00019)

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

Mounting Unit (QIF03-MUA1000)

To secure the Warrior lite AC to pole or rail

CDU Secure Basket (QIF-MCH00041)

To secure the disposable unit to the bed

Online Training:



[1] Using standard IV kit and a 14G catheter. Blood products' flow rate may differ due to their viscosity.

[2] This document is based on EU-approved spec. The product is not yet cleared for distribution in the USA.

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
BU = Base Unit
CDU = Compact Disposable Unit

cm = centimeter
DU = Disposable Unit
EN = European Norms
FDA = Federal Drug Administration
Ft = Feet
g = gram

hPa = hecto Pascal (100 Pascal)
HxWxL = Height x Width x Length
IEC = International Electrotechnical Commission
IFU = Instructions for Use
IP = Ingress Protection rating
IV = Intravenous

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

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