

Warrior AC

(Q210000000)

Top performance blood and IV fluid warmer
for operating rooms and intensive care units

April 2024 | Version 7



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 290ml/min (AC) 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.)
- **Communicative:** Built-in display
- **Upgradeable to Full Portability:** Smooth upgrade path to portability
- **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. Dry warming technology



- **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: info@qinflow.com

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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 290 ml/min
Maximum Delivery Rate at 20°C/68°F Input ^{[1] [2]}	Up to 500 ml/min
Physical Characteristics:	
Dimension (H x W x L)	30 x 19 x 18 cm 11.81" x 7.48" x 7.08"
Weight	~3,700 g / 8 lb
Electrical Characteristics:	
Electrical Specifications	Input: 110VAC 7A RMS 240VAC 3.5A RMS 50-60 Hz
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 60°C (-4°F to 140°F) & 93% RH
Operating Conditions	5°C (41°F) & 15% RH to 40°C (104°F) and 93% 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 (QPORT1100)

Hosts the control module and user indications (audio, visual). Connects with the battery and the Compact Disposable Unit

Power Supply Module (QACPLUS1000)

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

CDU Secure Basket (QIF-MCH00041)

To secure the disposable unit to the bed

[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. For the USA-cleared version, please refer to the IFU or to your QinFlow representative.

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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