

Continuum of Emergency Care Benefits

The Warrior & Warrior lite Product Lines: Modular Solutions for Warming Blood Products and IV Fluids Across the Entire Continuum of Emergency Care.

July 2024 | Version 9



Key Benefits:

Better Care

Unmatched Performance:

- High-end warming performance and ease of use in a compact and portable form factor
- Warm fluids in seconds from near freezing to body temperature at high rates
- Unmatched intermittent flows handling (e.g., hand pump, syringe, etc.) - real-time sensing, highly efficient warming technology, and mechanical integrity guarantee fast reaction to flow changes
- Warms 1.3 liter to 3.5 liters of near-frozen fluids to body temperature with a single battery (configuration dependent)

Usability Across Emergency and Hospital Settings:

- Failsafe, simple setup
- Consumable unit compatible with all Warrior devices and fits both blood and IV fluid protocols

- Short and simple training for any emergency care professional
- Seamless patient handoff between emergency settings
- AC and battery powered settings with smooth transition between modes
- Several battery capacity options for optimal operational fit
- Warm fluids during inter- and intra-facility transports
- Consistent care in mass-casualty event

Proved ROI

Reduce Overall Cost of Ownership:

- Reutilize consumables in multiple emergency settings
- Optimize blood supply by not interrupting blood delivery
- Streamline training efforts
- Eliminate monthly service calls and calibration endeavors
- Reduce dependency on dedicated staff
- Eliminate spare part inventory

For more information: info@qinflow.com

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Warrior lite Product Line



Power source	lite Battery	Extra Power Battery	AC and battery (lite or Extra Power)	AC
Weight ^[1]	0.8 kg / 1.8 lb	1.1 kg / 2.4 lb	lite battery: 0.8 kg / 1.8 lb Extra Power battery: 1.1 Kg / 2.4 lb AC: 1.46 kg / 3.22 lb	1.46 kg / 3.22 lb
Dimensions	8.2 x 13.6 x 8.3 cm (3.23" x 5.35" x 3.27")	8.2 x 13.6 x 11.3 cm (3.23" x 5.35" x 4.45")	lite battery: 8.2 x 13.6 x 8.3 cm (3.23" x 5.35" x 3.27") Extra Power battery: 8.2 x 13.6 x 11.3 cm (3.23" x 5.35" x 4.45") AC: 22 x 12.5 x 10 cm (8.66" x 4.92" x 3.93")	22 x 12.5 x 10cm (8.66" x 4.92" x 3.93")
Battery capacity ^[2]	1.3-2.5 liters	3-5 liters	lite battery: 1.3-2.5 liters Extra Power battery: 3-5 liters AC: Unlimited	Unlimited
Max delivery rate ^[2]	170-250 ml/min	180-270 ml/min	lite battery: 170-250 ml/min Extra Power battery / AC: 180-270 ml/min	180-270 ml/min
Warming time	Up to 11 seconds			
Consumable type	Compact Disposable Unit (CDU)			
User interface	LED indications			
Certifications & compliance	IEC 60601-1-12 & IEC 60601-1-2:2014 ^[3] certified and MIL-STD 461G compliant ^[4]	IEC 60601-1-12 & IEC 60601-1- 2:2014 ^[3] certified and MIL-STD 461G compliant ^[4]	IEC 60601-1-2:2014 certified ^[3] Battery mode: IEC 60601-1-12 certified and MIL-STD 461G compliant ^[4]	IEC 60601-1 and IEC 60601-1-2:2014 certified ^[3]
Optional accessories	<ul style="list-style-type: none"> Spare battery Mounting Extension cable 12-24 charger 	<ul style="list-style-type: none"> Spare battery Mounting Extension cable 12-24 charger 	<ul style="list-style-type: none"> Spare battery Mounting Extension Cable 12-24 charger CDU Secure Basket 	<ul style="list-style-type: none"> Mounting Extension Cable CDU Secure Basket
Service	Every 5 years			
Availability status	Available Globally	Available Globally	EU: Available USA: Q4 2024 (est.)	EU: Available USA: Q4 2024 (est.)

[1] Weight of energy source & Base Unit; add 106g (0.23lb) for CDU (117g/0.26lb packed)

[2] Output temperature and volume may differ based on incoming fluid temperature, ambient temperature, flow rate, and battery condition. This document is based on EU-approved spec. For the USA-cleared version, if available, please refer to your QinFlow representative

[3] EMC standard 4th edition

[4] MIL-STD 461 G: RE102 and RS103

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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Warrior/Extreme Product Line



Power source	Enhanced Battery	AC or Enhanced Battery	AC	AC
Weight ^[1]	1.7 kg (3.8 lb)	Battery mode: 1.7 kg (3.8 lb) AC mode: 3.7 kg (8lb)	3.7 kg (8 lb)	3.4 kg / 7.5 lb
Dimensions	7.8 x 15.6 x 23.2cm (3.07" x 6.14" x 9.13")	Battery mode: 7.8 x 15.6 x 23.2cm (3.07" x 6.14" x 9.13") AC mode: 30 x 19 x 18cm (11.8" x 7.5" x 7.1")	30 x 19 x 18cm (11.8" x 7.5" x 7.1")	27 x 17.3 x 17.3 cm 10.6" x 6.8" x 6.8"
Battery capacity ^[2]	3.5-5 liters	AC: Unlimited Battery: 3.5-5 liters	Unlimited	Unlimited
Max delivery rate ^[2]	200-290 ml/min	Battery mode: 200-290 ml/min AC mode: 290-500 ml/min	290-500 ml/min	290-500 ml/min
Warming time	Up to 11 seconds			
Consumable type	Compact Disposable Unit (CDU)			
User interface	LCD and audio indications			
Certifications & compliance	IEC 60601-1-2:2014 ^[3] and IEC 60601-1-12 certified. For EXTREME BU: MIL-STD 461G compliant ^[4]	IEC 60601-1-2:2014 certified ^[3] . Battery mode: IEC 60601-1-12 certified. For EXTREME BU: MIL-STD 461G compliant ^[4]	IEC 60601-1 and IEC 60601-1-2:2014 ^[3] certified	IEC 60601-1 and IEC 60601-1-2:2014 ^[3] certified
Optional accessories	<ul style="list-style-type: none"> Spare battery Mounting Extension cabl 12-24 charger 	<ul style="list-style-type: none"> Spare battery Mounting Extension cable 12-24 charger 	<ul style="list-style-type: none"> Extension cable DU secure basket CDU Secure Basket 	Extension Cable
Service	Every 5 years			
Availability status	Available Globally	Available Globally	Available Globally	EU: Available USA: Q4 2024 (est.)

[1] Weight of energy source & Base Unit; add 106g (0.23lb) for CDU (117g/0.26lb packed)

[2] 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 incoming fluid temperature, ambient temperature, flow rate, and battery condition. This document is based on EU-approved spec. For the USA-cleared version, if available, please refer to your QinFlow representative

[3] EMC standard 4th edition

[4] MIL-STD 461G: RE102 and RS103

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