



# QinFlow's Warrior Modular System

<p><b>Warrior lite</b></p> <p>lite battery      Extra Power battery</p>  <p>Space and weight constrained rescue gears, first responders, and critical care transports</p>	<p><b>Warrior &amp; Warrior EXTREME</b></p>  <p>Mid- and long-haul critical care transports</p>	<p><b>Warrior Hybrid</b></p> <p><i>Note: the Warrior Hybrid image is for illustrative purposes only</i></p>  <p>Emergency departments, trauma units and integrated healthcare systems</p>	<p><b>Warrior AC</b></p>  <p>Operating rooms and intensive care units</p>
<p>Compact Disposable Unit  Same light-weight and commercially affordable disposable unit for all Warrior configurations</p>			



## About Us:

Since 2009 QinFlow (short for Quality in Flow) has worked to develop and perfect a proprietary fluid warming technology (patented) that delivers unparalleled levels of warming efficiency. The company's flagship product – the Warrior – provides front end rescue teams, first responders, critical care transport teams, and emergency care professionals within various hospital settings with a high performance, reliable, simple to operate, and completely portable blood and IV fluid warming device that operates flawlessly in all environmental conditions in order to fight hypothermia and save lives.

## Our Vision:

In an environment where every second counts, our vision is to completely eliminate the challenge of warming blood and IV fluids from the entire continuum of emergency care in order to allow emergency care professionals to focus on what they do best – saving lives.

## Unique Value Proposition:

- **Unmatched performance:** the only battery-operated solution capable of warming near-freeze blood/fluids to body temperature at intense flow rate requirements
- **Exceptionally fast:** the Warrior reaches set temperature within seconds
- **Unmatched capacity:** threefold higher volume of warmed fluids per single battery than prominent alternatives
- **Dual power sources:** battery- and AC-operable

- **Unique continuum-of-care offering:** same consumable can be used across the entire continuum of emergency care, simplifying patient handoff between emergency settings and reducing costs
- **Simple to operate:** no setup; single button; simple assembly; simple trouble-shooting; no calibration; 5 years between service cycles
- **Affordable Consumables:** cost effective consumable design

## Leadership Team:

- **Col. (Ret.) John Holcomb**, Chairman of the Board
- **Dov Nachshon**, Chief Executive Officer, QinFlow Ltd.
- **Dr. Ron Elazari Volcani**, Co-Founder Chief Technology Officer
- **Ariel Katz**, Chief Executive Officer, QinFlow Inc.

## Advisory Board:

- **Prof. Uri Martinowitz**, Director of the National Hemophilia Center, Sheiba Medical Center, Tel Hashomer, Israel
- **Prof. Eilat Shinar**, Director of National Blood Services, Magen David Adom (MDA), Israel
- **Col. (Ret.), Warner Dahlgren Farr**, B.S.M.T., M.D., M.P.H., FACP, FasMA. Active on DOD TCCC Committee and an instructor and senior mentor at the Joint Special Operations University (JSOU) at MacDill Air Force Base, Florida (USA)
- **Col. (Ret.), Alan Moloff**, D.O., MPH. Educator and consultant for private industry and government organizations. Faculty of Rocky Vista University, College of Osteopathic Medicine in Parker, CO (USA)
- **Prof. Dr. Marc Maegle**, Department for Trauma and Orthopedic Surgery, Cologne-Merheim Medical Center (CMMC), Germany

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Integrated high performance blood and IV fluid warming solutions for the entire continuum of emergency care

April 2020 | Version 4



**Hypothermia is a serious threat to patients and particularly injured patients** since it can induce the lethal "Triad of Death", a vicious cycle involving hypothermia, acidosis and coagulopathy, which can occur even in warm climates. Additionally, blood products are becoming the standard of care in the prehospital setting, and they are stored cold and need to be warmed to prevent hypothermia.

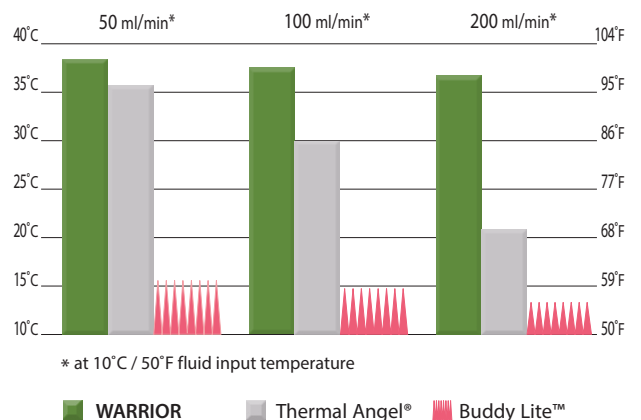
**However, infusing blood and IV fluids at body temperature is complicated:** in the prehospital settings, prevailing warming devices are unable to generate sufficient energy from their battery to meet the clinical need, while in the hospital settings, prevailing solutions lack portability (to accompany patients during inter- and intra-hospital transports) and are often complex to use thus requiring a time-consuming setup and dedicated – highly trained – staff.

**Consequently, in an environment where every second counts, and despite the lethal combination between trauma and hypothermia, blood and IV fluids are very often not warmed (or insufficiently warmed) prior to infusing them to severely injured patients.** With its unprecedentedly efficient fluid warming technology (patented) and modular architecture, QinFlow's Warrior inspires hundreds of emergency care organizations across the entire continuum to fulfill the ambitious "NO-MORE-COLD-BLOOD-&-FLUIDS" vision and by that reach higher standard of care at affordable economics.

**We welcome you to join our "NO-MORE-COLD-BLOOD-&-FLUIDS" vision!**

## Comparison of the performance of battery-operated fluid warmers

(Emergency Medicine Journal; 7 June 2018)



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