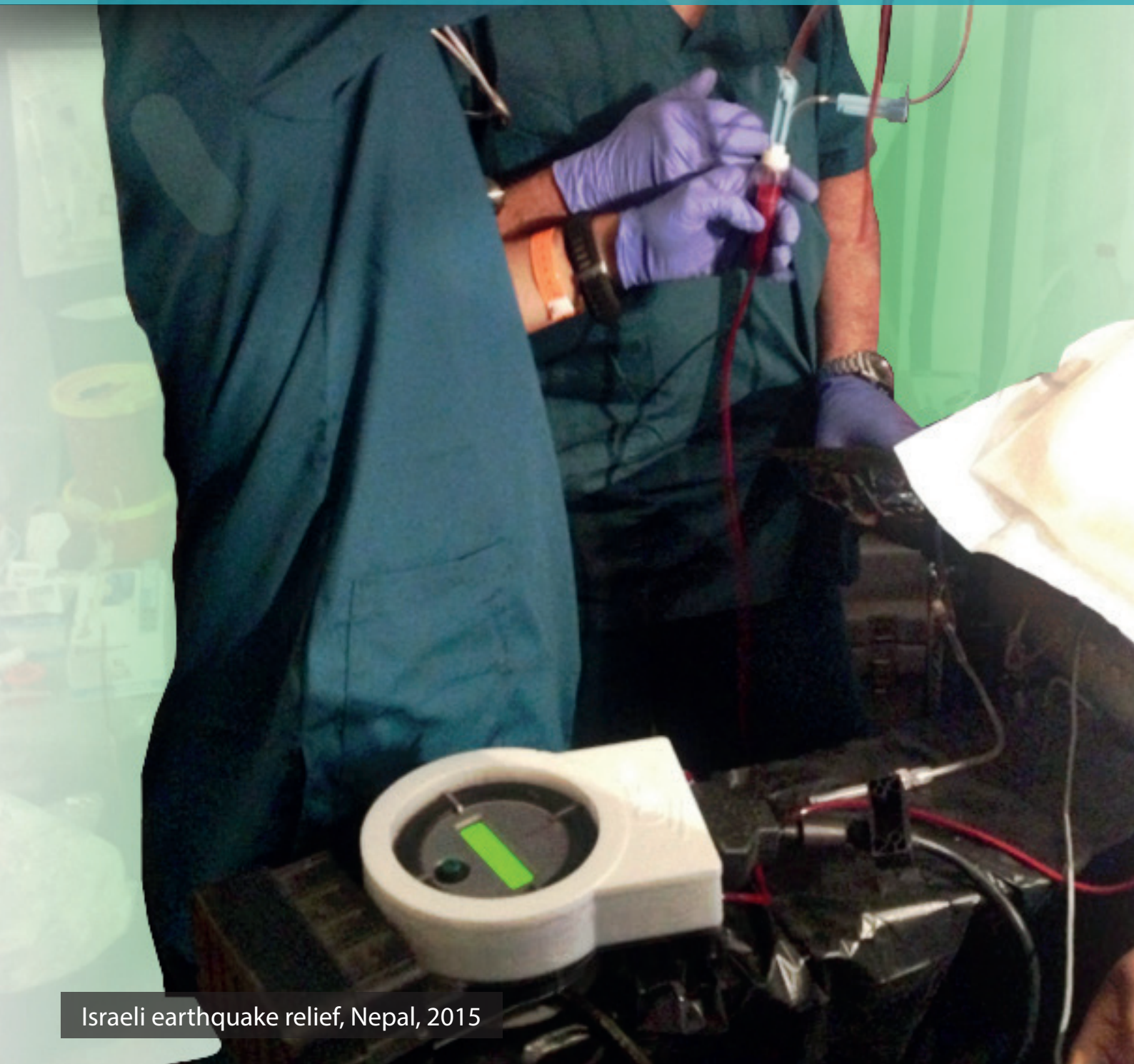


No more cold blood

QiF-01 ("Warrior") Datasheet

Version 20.01 | 2 November 2016



Israeli earthquake relief, Nepal, 2015

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Table 1: Warrior's Physical Characteristics

System Components	<ul style="list-style-type: none"> Base Unit (BU) Disposable Unit (DU) Battery, battery charger and a charger adapter^[1]
Weights	<ul style="list-style-type: none"> Base Unit: 700 grams (1.54 lb) Battery: 880 grams (1.76 lb) DU (in sterile bag): 140 grams (0.3 lb)
Dimensions (H x W x L)	<ul style="list-style-type: none"> BU with battery: 235×160×75 mm (9.25×6.5×2.9 in) Standard DU: 210×160×45 mm (8.3×6.5×1.8 in) Compact DU: 66×120×70 mm (2.6×4.7×2.75 in)^[2]
Battery Characteristics	<ul style="list-style-type: none"> Li-ion, 22.2VDC (nominal), 4,600mAh
Battery Charger Input Voltage	<ul style="list-style-type: none"> 110-120 or 220-240 VAC; 50-60 [Hz] 12/24V

Table 2: Warrior's Performance Measures

Battery Warming Capacity	Up to 3 liters at 4°C (39.2°F) fluid input temperature and up to 5 liters at 20°C (68°F) fluid input temperature using single battery
Flow Rate (Gravity Flow)	KVO to 200/290 ml/min (battery/AC) for the full warming range (4-38°C / 39.2-100.4°F) and KVO to 290/500 ml/min (battery/AC) for the 20-38°C (68-100.4°F) warming range ^[3]
Warming Speed	Up to 11 seconds
Output Set-Point Temperature	38°C (100.4°F)
Temperature Tolerance	± 2°C (± 3.6F) ^[4]

Table 3: Warrior's Key Certifications / Clearances

CE	Certificate no. 7205GB410140129
IEC	IEC 60601-1; IEC60601-1-2: 2007; IEC 62133
FDA	510(k) K150404 ^[5]
Health Canada	License no. 95781
Other	EN 1789 compliant

Table 4: Warrior's Key Environmental Specifications

Storage Conditions	-30°C to 70°C (-22°F to 158°F) ^[6]
Normal Operation after Storage	-5°C to 40°C (23°F to 104°F) ^{[6][7]}
Atmospheric Pressure / Altitude	549 to 1,060 hPa / -400 to 4,572 meter (-1,312 to 15,000 ft) ^[8]

Notes:

[1] The battery specifications in this document refer to part number QPORT1180. Battery part number QPORT1130 is in end-of-life stage.

[2] December 2016 planned availability.

[3] Using standard IV kit and a 14G Venflon; blood products' flow rate may differ.

[4] Attributable to various change-in-flow scenarios.

[5] This document is adjusted to CE approvals; for exact performance of the FDA-cleared version please contact your QinFlow representative.

[6] Under EN1789:2007 +A2:2014.

[7] The benchmark tests were performed after storage at extremely cold temperature of -30°C (-22°F).

[8] In compliance with IEC60601-1-11:2010 section 4.2.2c.