

CritiCool™

- The non-invasive approach to cooling therapy
 - Precise temperature control
 - Maximal energy transfer
 - Early treatment initiation
 - Minimal staff labor

S i m p l y S e t , W r a p & C o o l

Technical Specifications

CritiCool™

Dimensions: 260mmW x 625mmD x 940mmH / 10.23"W x 24.6"D x 37.0"H (Including handle)
 Weight: 35kg (77lb)
 Control System: microprocessor, feedback control
 Electrical characteristics: 230V/50Hz, 120V/60Hz
 Core and surface temperature sensors: YSI 400 series, disposable or reusable
 Set point temperature range: 30°C - 40°C (86°F - 104°F)
 Screen display: core, surface, set point temperature, graphic display of core temperature, energy bar
 Length of connecting tubes: 2.5 m (98 in)
 Certifications: CE, FDA clearance
 Water type: tap water only

°CureWrap

Use with: CritiCool™ Controller
 Design: single piece, one size
 Storage temperature: 10°C - 27°C (50°F - 81°F)
 Material: biocompatible, latex-free and anti-static
 Certifications: CE, FDA clearance

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Keeping temperature in mind

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Shaked-Raanan Visual Communications

CritiCool™

Cooling with Care



**The Non-Invasive Approach
 to Cooling Therapy**



Keeping temperature in mind

Cooling Therapy for Tissue Protection

Neuro-protection by hypothermia has taken a giant step into the future. Today, cooling therapy is used for various indications following the process of ischemia. The protective effects of hypothermia are due to:

- Reduction of cerebral metabolism, oxygen consumption, and glucose demand
- Slowing of the destructive neuroexcitatory process
- Decrease of free radical production
- Stabilization of the blood-brain-barrier
- Reduction of the inflammatory process



Clinical Studies Show that Cooling Improves Neurological Outcome and Reduces Mortality

Cardiac Arrest - Hypothermia after cardiac arrest has been proven to:

- Improve neurological outcome by 16%
- Reduce mortality by 14%

ILCOR and AHA recommend use of therapeutic hypothermia for patients after cardiac arrest. Hypothermia has become routine practice in medical centers worldwide.

Stroke - Therapeutic hypothermia demonstrates promising results as neuro-protectant, improving outcome of ischemic stroke patients. Decrease in brain temperature reduces ischemic brain injury and decreases brain edema and intracranial pressure (ICP).

Traumatic Brain Injury (TBI) - Studies have shown that hypothermia induction results in improved patient outcome by significantly reducing ICP and limiting secondary brain injury after severe head trauma.

Uncontrolled Hyperthermia - Fever is common in patients with neuronal injury and is associated with poor outcome. Even minimal increase in temperature has harmful effects on injured brain tissue, therefore, measures should be taken to control temperature.

The Optimal Solution for Cooling Therapy

Introducing CritiCool™ - The Non-Invasive Approach to Cooling Therapy

With CritiCool™, cooling is your therapy of choice. Set the controller to the desired temperature, apply the °CureWrap garment and commence treatment. Simply SET, WRAP & COOL!

Using feedback from the patient's core and skin temperature sensors, the proprietary control algorithm responds to any temperature change. Following the cooling phase of treatment, CritiCool™ precisely re-warms the patient to normothermia.



High heat exchange by 3-dimensional surface coverage

Our flexible single piece °CureWrap, provides three-dimensional surface coverage that maximizes energy transfer. This breakthrough technology provides effective induction and maintenance of cooling.

Precise control of patient core temperature

CritiCool™ offers precise cooling to programmed target temperature, by applying temperature control algorithm. Continuous temperature feedback enables system self-regulation. Adjustment and monitoring temperature is automatic throughout treatment, therefore, significantly reduces staff time and labor.

Convenient and Easy to use

Patient cooling is achieved in three steps: **Set, Wrap & Cool.**

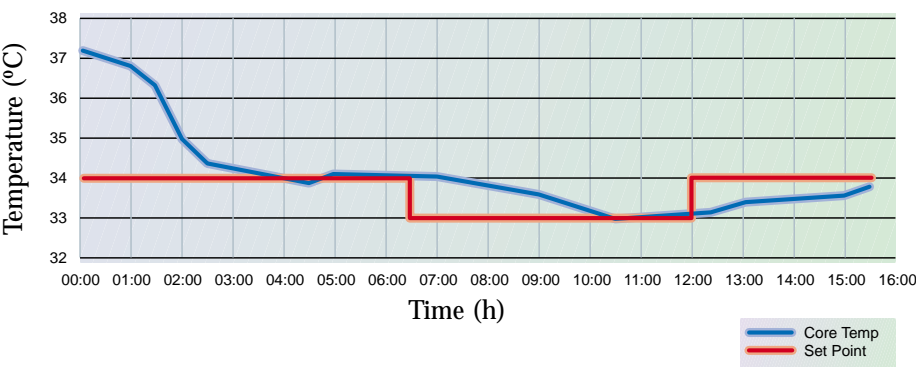
- **Set** Intuitive user interface
- **Wrap** User friendly °CureWrap
Quick patient application
Simple and convenient patient care
- **Cool** Automatic and precise patient temperature control

Controlled and Gradual

Controlled re-warming significantly reduces the rebound increase in intracranial pressure. CritiCool™ actively controls the process of re-warming and achieves a gradual increase in temperature.

CritiCool™ is the optimal solution for early initiation of cooling therapy minutes upon patient arrival.

Hypothermia after Cardiac Arrest



Actual patient core temperature



Energy bar concept: providing an insight on possible shadowing of fever

Patient target temperature