Cooling with CritiCool pro

Neuro-protection by hypothermia has taken a giant step into the future.

Today, cooling therapy is used for various indications following the process of cerebral hypoxia. The protective effects of hypothermia are due to:

- Reduction of cerebral metabolism, oxygen consumption and glucose demand
- Slowing of the destructive neuroexitatory 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 in many indications:

- **ROSC after Cardiac Arrest** – Hypothermia has become routine practice in medical centers worldwide in patients with Return of Spontaneous Circulation after VF or Pulseless VT.
- **Stroke** – A decrease of brain temperature reduces ischemic brain injury, brain edema and intracranial pressure (ICP)
- **Traumatic Brain Injury (TBI)** – Hypothermia has been shown to improve patient outcome by reducing ICP and limiting secondary brain injury after severe head trauma.
- **Asphyxia and Hypoxic Ischemic Encephalopathy** - Cooling therapy can significantly improve neurological outcomes of newborns with Hypoxic-Ischemic Encephalopathy (HIE)
- **Uncontrolled Hyperthermia**- Fever in critically ill patients, mainly neurointensive care unit patients may improve outcome.

CE 0473

MTRE
A Member of Mennen Medical Group

Headquarters:
MTRE Advanced Technologies Ltd.
4 Ha-Yarden Street
Yavne, P.O.Box 102
Rehovot 76100, Israel
Phone:+972-8-9323333
Fax:+972-8-9328510

mennen medical

United States:
Mennen Medical Corp.
950 Industrial Blvd.
Southampton,
PA 18966-4070, US
Phone: (215) 259-1020
Fax: (215) 675-6212

EC REP
CHARTER KONTRON

United Kingdom:
Charter Kontron UK.
Unit 18 Avant Business Center
21 Denbigh Road
Milton Keynes MK1 1DT, UK
Phone:+44 1908 646070
Fax:+44 1908 646030

Website: www.mtre.com

019-000770 Rev C June 2010

CritiCool Pro

An Integrated Temperature Management & Patient Monitoring System

Cooling With Care

Combines all the advantages of CritiCool with Mennen Medical's VitaLogik Patient Monitor

mennen medical

MTRE
A Member of Mennen Medical Group

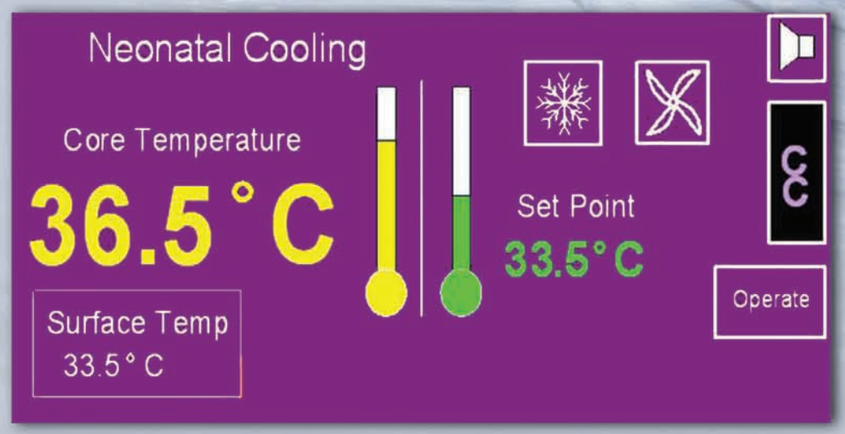
COOLING with Care

Cool Fast

CritiCool® pro - Whole body, Non invasive servo control cooling therapy offers fast and precise cooling to target temperature, using the CureWrap™ – the flexible, three dimensional heat exchange garment.

- Use on Adults or Infants
- 3-dimensional body coverage with the CureWrap™, maximizes energy transfer and provides effective induction and maintenance of mild hypothermia
- Precise control of patient core temperature using the temperature control algorithm
- Continuous temperature feedback enables automatic temperature control throughout treatment
- Reduces staff time and labor
- Convenient and easy to use
- Patient cooling is achieved in three simple steps

Set, Wrap & Cool



MONITOR the Beat

Re-warm slowly

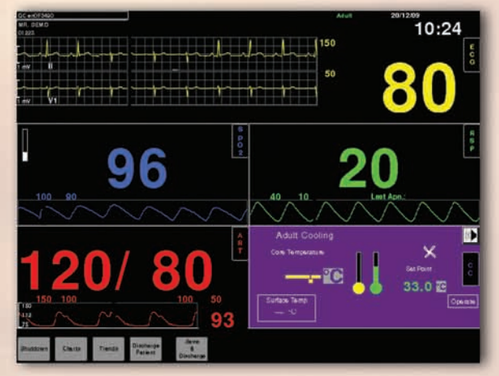
Re-warm - Automatic Controlled and Gradual

CritiCool pro, actively controls the process of re-warming and achieves a gradual increase in temperature.

Achieving controlled re-warming with Mennen Medical's VitaLogik patient monitor protects your patient and significantly reduces the rebound intracranial pressure increase.

Vital Signs Parameters and waveforms displayed on the 12.1" TFT display monitor:

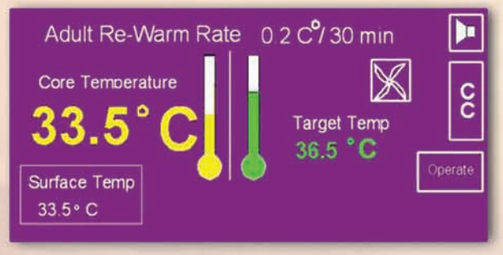
- Adult / Neonatal Mode
- ECG and Heart Rate
- ST segment analysis
- Full Range of Arrhythmias
- Respiration
- SpO2
- NIBP



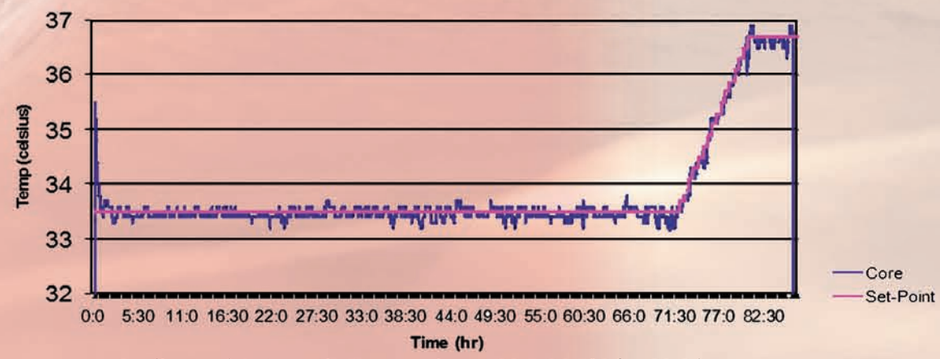
The CritiCool pro monitoring capability has an extensive storage of capability of Full Disclosure, charts, trends and event strips. Alarms with status messages of all the vital signs parameters can be configured to the needs of the patient's clinical condition.

Displayed Temperature Regulation Parameters:

- Set point temp for cooling mode
- Target temp for re-warming mode
- Core Temperature C°/ F°
- Surface Temperature C°/ F°
- Heating/Cooling binary state
- Adult/Neonatal re-warm rate



Cooling & Re-Warming



Cooling and Automatic Re-warming at 33.5-36.5°C for 82.3 hours