*__Indication for use__: the CritiCool is a thermal regulating system, indicated for monitoring and controlling patient temperature

STEP BY STEP COOLING

1. Position CritiCool unit and **Lock** front wheels.
2. **Fill** tank with tap water – level between the 2 red lines (6 liters).
3. Power **ON** switch - Mode select screen appears.
4. Select **Cooling** mode, which is already lightened.

   (If required, Use Up and Down Arrows to select other modes, Normothermia is for use in Accidental Hypothermia victims only)

5. **Make sure that the default Set Point (SP) Temp is in between 33.0°c-36.0°c, as configured.** (To change the default set point: see user manual).

   If required, Use Up and Down Arrows to change the SP temp according to the desired patient temperature.

6. **Place** appropriate garment on bed or underneath patient (see step by step wrapping).
7. **Connect Hoses** to wrap and CritiCool.
8. **Connect** Grey sensor into Core socket and Green sensor into Surface socket.
9. **Place** Core and Surface Sensors in Patient.

   Note: Water circulation and flow to the garment will start only after the core sensor, and tubes have been connected. If not, the system will display messages to request them to be plugged in.

10. **Wrap** Garment on Patient and Secure with Strips.

    Note: Fill Garment with water prior to wrapping and securing on patient (There is no need to add more water during the treatment!)

The Patient's temperature is now managed by the CritiCool.

Do not change the Setpoint during Cooling, it will not affect the cooling rate.

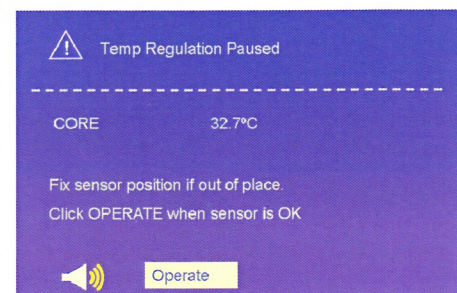**Fix sensor position if out of place. Click OPERATE when sensor is OK**

This message indicates that the Core reading is extremely low and **User is required to confirm reading in order for Thermoregulation to continue.** (At this point, the Alarm can be muted only for a limited time!)

While the Message appears, The Water will be circulating in the wrap at a cold water temperature (Only if body core temp is over 31.0°c), and thermoregulation of the patient stops!

When Message appears:

- Check that the Core Sensor is correctly inserted in the Patient and the reading is correct. Reposition the Core Sensor as needed.
- When confident that the Core is placed correctly, Press **OPERATE**
- The screen wil return to cooling mode and the following message will appear on the screen for 5 sec: **Thermoregulation is continuing**

At this point, the system will restart the temperature control.

__Note:__ if body core temp is still very low, the following message will appear: **Low core temperature, Thermoregulation is continuing**. *__At this point there is no need to do nothing!__ The system will thermoregulate the water temperature, according to the patient's body core temperature, in order to reach the set point.*

This document does not replace the requirement to read the entire CritiCool user manual

STEP BY STEP RE-WARMING

At the end of the Cooling phase the "Re-Warm" process should be started under Guidance from the Physician.

Re-Warming can be achieved either manually or automatically.

MANUAL RE-WARMING

The user is required to increase the set point as per the department protocol; we recommend steps of **0.2°C-0.5°C at regular intervals**, until Normothermia is achieved. (The steps can be changed in settings – se user manual)

AUTOMATIC REWARMING

The Rise in Patient's temperature is managed by the CritiCool. The CritiCool gradually raises the patient temp until the Target Temperature is reached.
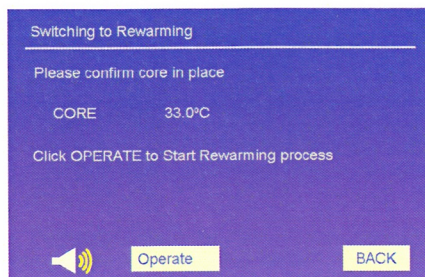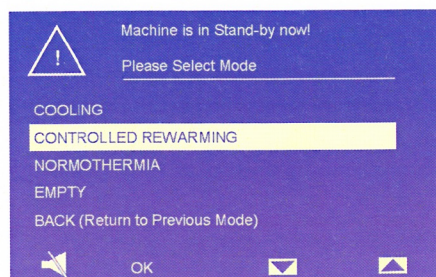
To Start Automatic Rewarming:

- Press **Menu**. A menu will appear.
- Use the UP / DOWN arrow keys to highlight **SELECT MODE**
- Use the UP / DOWN arrow keys to highlight **CONTROLLED REWARM** and press **OK**
- The message **Switching to Rewarming: please confirm core in place** appears.
  WHILE THIS MESSAGE APPEARS THE REWARMING HAS NOT STARTED !!
- Confirm that the Core Sensor Placement <u>in Patient</u> is proper.
- press **OPERATE** Button, to confirm Rewarm operating mode
- The default patient's Target temperature is 36.5°c, the user can select from 36°C to 38°C (use the UP / DOWN arrow keys).
- Use **Back** to return to the previous screen

The Patient's temperature is now managed by the CritiCool, and is rising gradually to the required Target Temperature. The next step is indicated on the screen: Next step:xx:xx
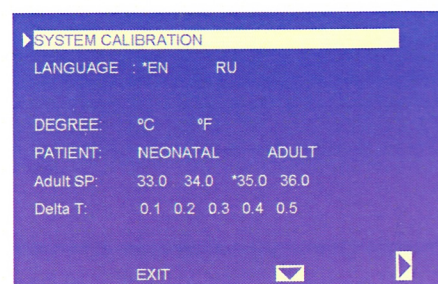

The Rewarming step can be changed; the available steps are between 0.1°C-0.5°C per hour.

Every hour the patient's temperature will rise by the pre-programmed step. It is normal to see fluctuations in rising temperature, as a common physiological reaction to thermoregulation.

To change the Rewarming step:

- Press **Menu**
- Use the UP / DOWN arrow keys to highlight **Settings**
- Use the UP / DOWN arrow keys to highlight **Delta T**
- Use the Left/Right arrow keys to highlight the required Temp Step between 0.1°C-0.5°C

Once TARGET temperature is achieved the CritiCool will maintain the patient's temperature at the selected target temperature.

Post-treatment System care:

Empty the water from the tank: Choose Empty from the Select mode menu.

Note: Use the small connector from the accessory kit, or cut off one of the garment connectors and plug into one of the water tubes