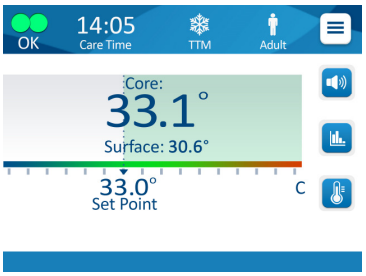
CRITICOOL® Adult Step-By-Step Guide

Version 6.4

TARGETED TEMPERATURE MANAGEMENT: CritiCool® Adult Step-by-Step

Indication for use: CritiCool is a thermal regulating system, indicated for monitoring and controlling patient temperature

1.	Fill the water tank with sterile water / 0.22 micron filtered water.
2.	Place the CritiCool unit at the desired location and lock the front wheels.
3.	Power **ON** the system. After a short Self-Test, a "Select Mode" screen appears. The water inside CritiCool will begin to cool.
4.	Select and place the appropriate CureWrap® on the bed or underneath patient (see CureWrap Instructions for Use). • ***Ensure the CureWrap clamps are OPEN*** • ***Do not secure the wrap on the patient yet!***
5.	Connect **Core** cable to the **Core** socket on the right and **Surface** cable to the **Surface** socket on the left of the system, matching colors, gray to gray and green to green, and then plug the temperature probes into the appropriate adapter cables.
6.	Attach the Core and Surface temperature probes to the patient. • ***Do not place Surface temperature probe underneath the CureWrap*** • ***CritiCool cannot thermoregulate without a Core readout***
7.	Connect water hoses to the wrap and to the CritiCool device. • ***Water automatically starts to flow into the wrap***
8.	Return to the touch screen. **TTM** is the default mode and is already highlighted. Touch **OK** to select TTM.
9.	The default Set Point (SP) Temperature is 33°C. If required, change the Set Point by using the Set Point key:
10.	**Wait until the CureWrap is filled with water** – When filling is complete, secure the CureWrap to the patient (see CureWrap Instructions for Use)



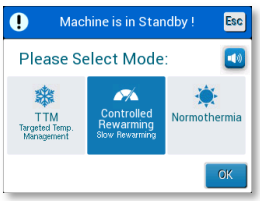
Thermoregulation with CritiCool has now begun.

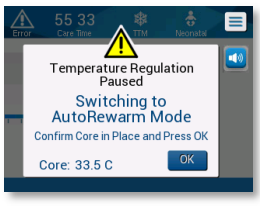
Note: It is normal to see slight fluctuations in the patient's temperature as a physiological response.

CONTROLLED REWARMING

The patient's temperature is gradually increased every hour by a pre-set step.

1.	Choose **Select Mode** from the drop-down menu on the upper right side of the screen.
2.	Select **Controlled Rewarming** mode and touch **OK** to confirm.
3.	"Switching to AutoRewarm Mode" message appears. • ***As long as this message appears, the Rewarming has not started yet!*** • Reposition the Core probe if needed, confirm that the Core temperature readout is valid. Wait for the Core reading to stabilize. Touch **OK** to start the rewarming.
4.	**The patient's temperature will now begin to rise gradually to the required Target Temperature.** • The CritiCool rewarming Target Temperature default is **36.5°C.** • The user can select Target Temperature between 30°C and 40°C using the Target Temperature Key (See user manual instructions). • A Rewarming step (per hour) should be pre-set according to the clinical protocol. • CritiCool uses a default Rewarming step of **0.2°C/hour**.





© Belmont Medical Technologies

MANUAL REWARMING

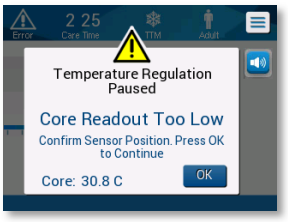
The user can manually increase the patient's temperature gradually.

1.	The user increases the Set Point temperature manually, as per the rewarming protocol, until the target temperature is achieved.
2.	Use Set Point key to select the Set Point. • ***Note: It is recommended to raise the Set Point temperature in steps of 0.1°C-0.25°C/30 min.***

MESSAGES

"Core Readout Too Low"

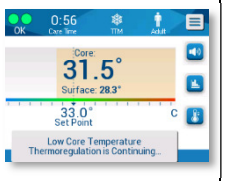
Trigger:	Core reading is at least >2.0°C below Set Point OR Core temperature is below 30.8°C
Indicates:	This message may indicate wrong placement of the Core temperature probe
Impact:	The system will halt thermoregulation. If Core temperature is below 30.8°C, water flow to the wrap will also stop. If Core temperature is above 30.8°C, water will continue to flow to the wrap.
If the message appears:	1. **First** Reposition the Core temperature probe if needed. 2. Check that the Core temperature probe is valid and stable. 3. **Then** touch OK to confirm Core temperature reading In Controlled Rewarming, it is especially important to ensure the Core temperature reading is correct BEFORE pressing the OK button. If the OK button is pressed before confirming the Core temperature is correct, thermal regulation algorithms may be affected. Thermoregulation will continue and the screen will return to TTM mode. Note: If the system continues to measure low Core temperature, this message will be repeated every 30 minutes.



MESSAGES

"Low Core Temperature. Thermoregulation is Continuing..."

Trigger:	If the difference between the patient's Core temperature and the Set Point is >0.8°C but <2.0°C
Indicates:	This message may indicate wrong placement of the Core temperature probe
Impact:	Thermoregulation continues
If the message appears:	• Check that the Core temperature probe is correctly inserted into the patient. Check that the Core temperature reading is valid and stable. • Keep following the patient's temperature.



AFTER USE CARE: Before storage, or at least once a week

1.	Change the system mode to Standby. After waiting a few seconds, close the clamps on the CureWrap and detach the CureWrap and probes from the patient. Drop NaDCC into the water tank per NaDCC manufacturer recommendations and run for 30 minutes in Standby Mode.
2.	Empty the water tank: Select Empty from the Services menu (see User Manual for instructions). If a "Check Tubes" message appears, connect the male draining connector to the other tube then empty. CritiCool will alert you when complete.
3.	Clean and disinfect CritiCool according to hospital routine care.

**This document does not replace the requirement to read the entire CritiCool 6.4 user manual.*

BELMONT MEDICAL TECHNOLOGIES

780 BOSTON ROAD
BILLERICA, MA 01821, USA
T: 866.663.0212
F: 978.663.0214
WWW.BELMONTMEDTECH.COM

TECHNICAL SUPPORT
USA: 855.397.4547
WORLDWIDE: +1.978.663.0212
TECHSUPPORT@BELMONTMEDTECH.COM

© Belmont Medical Technologies
Part # DDT136011 Rev. 002