

## SET UP

- Fill the reservoir with distilled water per the Operator's Manual.
- Connect power, turn Medi-Therm III **ON**, Medi-Therm III will be in **STANDBY** mode.
- Apply Rapr•Round® Body Wraps to patient without closing the Velcro®-like closures.  
**NOTE:** Blue printed label is away from patient.
- Vest connects to one gray hose. See Figure 1.
- Legs: Connect one set of clear hoses from each leg together and the other set to the second gray hose. See Figure 2.
- BE SURE TO CHECK AND OPEN ALL HOSE CLAMPS PRIOR TO USE. Refer to FAQ #5 to check water flow.
- Insert temperature probe into patient.
- Connect patient temperature probe to adaptor and then to the Medi-Therm III.
- Once the Mode is selected and the pads are filled with water, adjust and secure Velcro®-like closures.

**NOTE:** WHEN THERAPY ENDS, CLOSE ALL HOSE CLAMPS PRIOR TO DISCONNECTING WRAPS. RECONNECT GRAY HOSES TOGETHER.



FIGURE 1

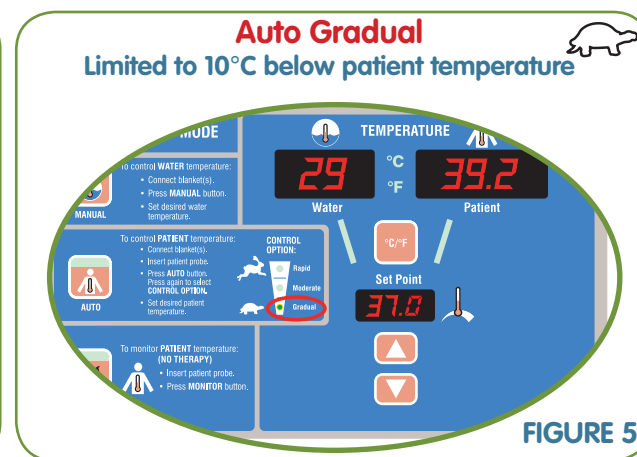
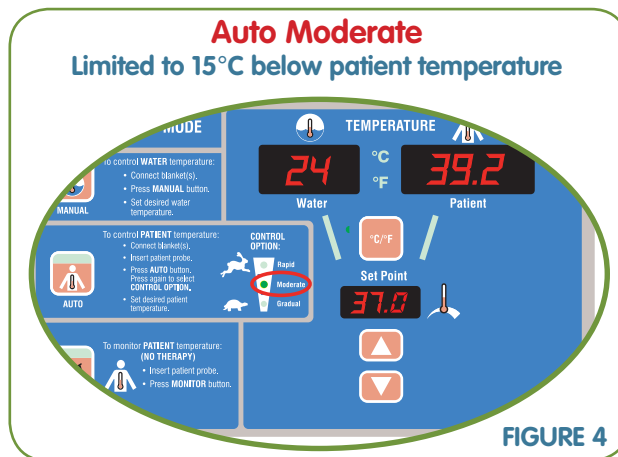
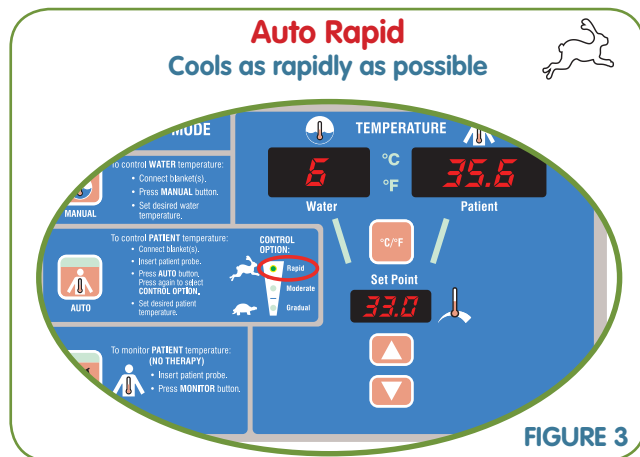


FIGURE 2

## SKIN CARE

- Routine skin care is required to maintain skin integrity. Document the skin integrity prior to initiation of therapy per your skin care protocol. Frequency of assessment and documentation will vary depending on the individual patient.
- Manually turn and reposition the patient at a minimum of every two (2) hours. Check the body wrap(s) to ensure that they are not constricting the soft tissue. Readjust the Velcro®-like closures as necessary.
- Every two (2) hours check that the patient's skin is in direct contact with the body wrap(s) and note any change in the skin integrity related to:
  - ➡ Excess moisture
  - ➡ Color of the epidermis
  - ➡ Skin texture (other than already noted.)
- Dry the skin if excess moisture exists.
- A circular pattern identical to the body wraps may be seen on the patient's skin: this pattern typically lasts for the period of time the body wraps are in place and resolves after the wraps have been discontinued.

## AUTO MODES - COOLING

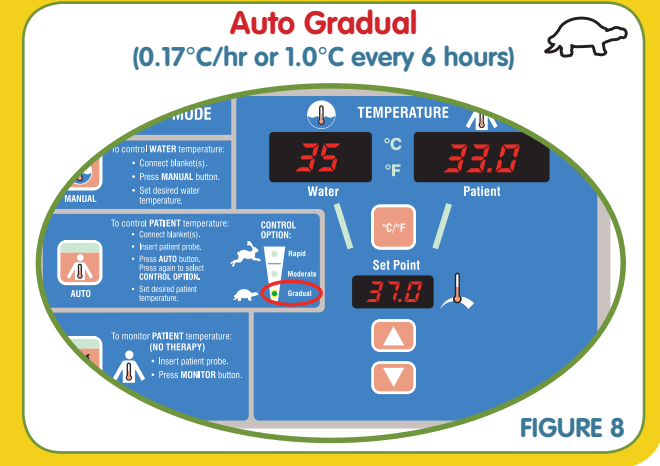
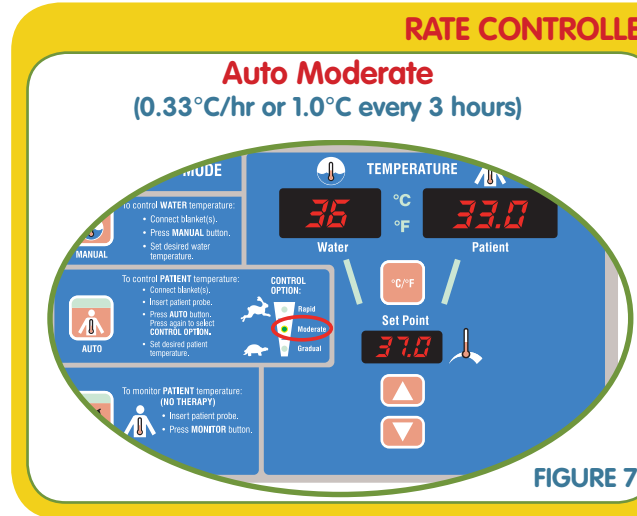
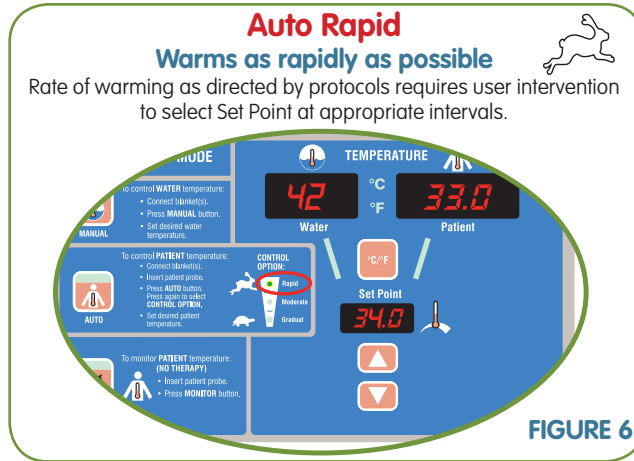


- ➔ Press the AUTO button until the LED light indicates the desired mode.
- ➔ **AUTO RAPID** Mode cools the patient as quickly as possible. See Figure 3.
- ➔ **AUTO MODERATE** Mode limits the water temperature to 15°C/27°F below patient temperature. See Figure 4.
- ➔ **AUTO GRADUAL** Mode limits the water temperature to 10°C/18°F below patient temperature. See Figure 5.

- ➔ Select °C/°F temperature scale
- ➔ Adjust the Set Point to the desired patient temperature setting per your protocol: \_\_\_\_\_°C/°F for \_\_\_\_\_ hours
- ➔ Assess patient and readjust wraps if needed.

**NOTE:** Set Point Temperatures (°C) are for example only. Please use the appropriate Set/Target temperature per your protocol. Patient temperatures shown are for illustration purposes.

## AUTO MODES - WARMING



- ➔ Press the AUTO button until the LED light indicates the desired mode.
- ➔ **AUTO RAPID** Mode warms the patient as quickly as possible. See Figure 6.
- ➔ **AUTO MODERATE** Mode: Rate of warming is approx. 0.33°C/hour or 1.0°C every 3 hours. See Figure 7.
- ➔ **AUTO GRADUAL** Mode: Rate of warming is approx. 0.17°C/hour or 1.0°C every 6 hours. See Figure 8.

- ➔ Select °C/°F temperature scale
- ➔ Adjust the Set Point to the desired patient temperature setting per your protocol:  
\_\_\_\_\_°C/°F for \_\_\_\_\_ hours
- ➔ Assess patient and readjust wraps if needed.

**NOTE:** When using **AUTO MODERATE** or **AUTO GRADUAL** warming, changing the mode or Set Point during therapy may affect the duration of the therapy.

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Patient temperatures shown are for illustration purposes.

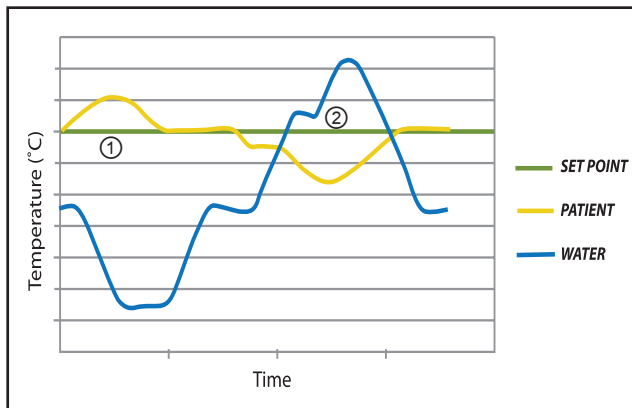
## FREQUENTLY ASKED QUESTIONS

### 1. Why does the WATER temperature display continually fluctuate during maintenance and warming in Automatic Mode?

The unit is designed to use the water to warm or to cool the patient based on the SET POINT. When the PATIENT temperature is higher than the SET POINT (see ① in the

figure at right), the unit will automatically lower the WATER temperature to bring the PATIENT back to the SET POINT. In the same manner, when the PATIENT temperature is lower than the SET POINT (see ② in the figure at right) the unit will automatically warm the water to increase the PATIENT temperature.

When the PATIENT reaches SET POINT, it is normal for the WATER temperature to fluctuate significantly above or below the PATIENT temperature as the machine responds continuously to the PATIENT temperature variation.



*Graph is for illustration purposes only.*

### 2. Why is my patient warming too quickly or too slowly in the Auto Gradual or Auto Moderate Modes?

The Medi-Therm III unit is designed to control the PATIENT temperature  $\pm 1.0^{\circ}\text{C}$  of the warming rate throughout the therapy. It will automatically increase the PATIENT temperature at a specific rate of  $0.33^{\circ}\text{C}$  (MODERATE) or  $0.17^{\circ}\text{C}$  (GRADUAL) per hour. Deviations from this could be caused by the following conditions:

- Patient-specific factors, including fever, shivering, seizures, etc.
- Interruption of the therapy, e.g. adjusting the SET POINT during therapy or switching to other Modes in therapy. When the therapy is interrupted, the Medi-Therm III will automatically reset the therapy, using the current PATIENT temperature, and this may impact the duration of the therapy. To avoid changes in the duration of the therapy, **do not change** the Mode or the SET POINT until the therapy is completed.

*(Questions continued on next page)*

## ■ FREQUENTLY ASKED QUESTIONS continued

### 3. What should I be concerned about if the WATER temperature drops more than 10°C (18°F) below the PATIENT temperature and SET POINT for more than 30 minutes during maintenance or warming?

A sustained drop in WATER temperature indicates that the machine is working hard to maintain the PATIENT temperature at the SET POINT. There are a number of reasons why this could occur, some of which may have major clinical implications. Conditions such as shivering, fever and seizures may generate a large amount of heat and the Medi-Therm III will lower the WATER temperature in an attempt to maintain PATIENT temperature at SET POINT. Increased heat production may not manifest as a PATIENT temperature increase if the machine can overcome the heat burden by lowering the WATER temperature.

### 4. Can I defibrillate my patient during temperature therapy?

If defibrillation is required during temperature therapy it is not necessary to remove the Rapr•Round Vest. Simply loosen the Velcro®-like closure and open the vest to expose the chest. Defibrillation cannot be performed through the wrap. Defibrillation pads that adhere to the skin may remain on the skin under the chest wrap to perform defibrillation without removing the chest wrap.

For additional information, please review the  
**MTA7900 Operator's Manual.**

### 5. How do I check the flow through the body wraps? (See Figure 9):

With the unit running, disconnect one gray hose set from the Medi-Therm III. If the flow is not obstructed, the alarm will not sound. If there is an obstruction to the flow through the other hose, the alarm will sound. You should then check for closed clamps, and/or reposition the body wrap attached to the connected hose until the alarm silences. Reconnect the hose to the machine. Repeat the procedure with the second hose set.

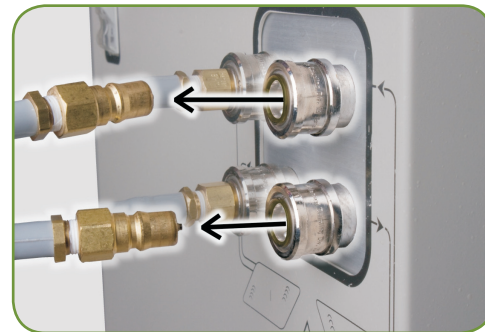


FIGURE 9

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