

# Thermogard XP®

## Surface Setup Guide



### Equipment Checklist

- ☐ Thermogard XP console
- ☐ Surface Start-Up Kit
- ☐ STx™ Vest (S/M or L/XL)
- ☐ Core temperature probe
- ☐ Temperature cable



# 1. Initiate Console

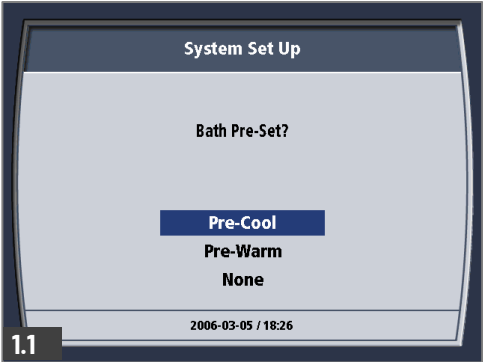
## 1.0 POWER ON THE CONSOLE

Plug in the console and turn on the power switch located on the lower rear of the unit. (figure 1.0)  
The console will take several minutes to complete self-tests.



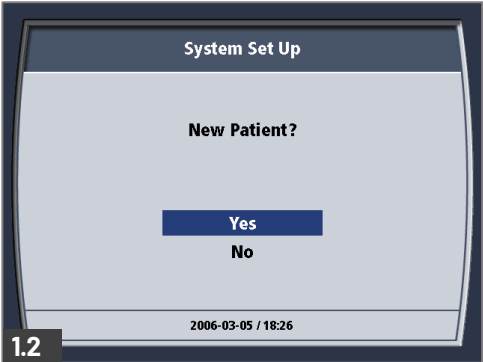
## 1.1 SELECT "PRE-COOL"

(figure 1.1)



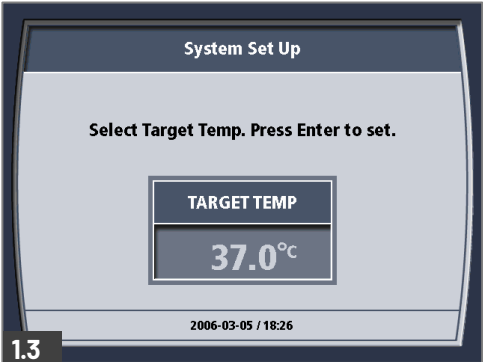
## 1.2 CHOOSE WHETHER NEW PATIENT

Choose No if continuing a prior treatment. (figure 1.2)



## 1.3 SELECT TARGET TEMPERATURE

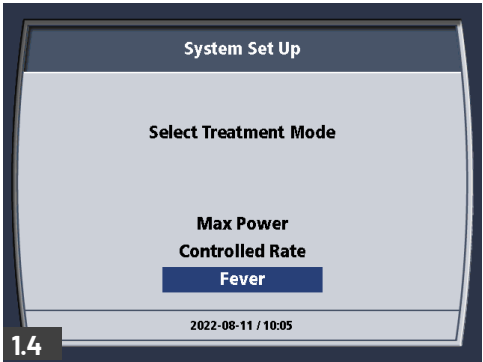
(figure 1.3)



## 1.4 SELECT "FEVER" MODE

(figure 1.4)

Caution: Always use "Fever" mode when using surface treatment with Thermogard.



## 2. Set Up Tubing

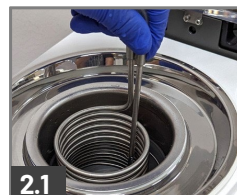
### 2.0 FILL RESERVOIR BAG

- Fill reservoir bag with water and fasten cap. (figure 2.0 A)
- Hang reservoir bag on console hook. (figure 2.0 B)



### 2.1 INSERT COIL

- Open coolant well cap.
- Place coil in well. (figure 2.1)
- Close cap, passing tubes through slit in cap.



### 2.2 PLACE AIR TRAP

- Temporarily place air trap in the air trap chamber. (figure 2.2)

### 2.3 LOAD PUMP TUBE

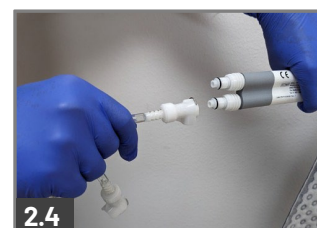
- Open roller pump lid.
- Fully insert tubing disc into the slot on the right side of the pump raceway. (figure 2.3 B)
- Lift the handle on the pump rollers.
- Firmly rotate counter-clockwise while feeding tube into the raceway.
- Fully seat tube into raceway. (figure 2.3 E)
- Press the handle down onto the rollers until it presses into its detent.



### 2.4 CONNECT VEST

- Fully connect both fluid connectors to the vest. (figure 2.4)

Caution: The tubing must be fully connected to the vest (inlet and outlet) before it can be primed.



### 2.5 PRIME TUBING

- Close roller pump lid.
- Remove the air trap from the chamber and hold it upside down. (figure 2.5 B)
- Prime the air trap by pressing and holding the Prime switch. (figure 2.5 C)
- When the air trap is completely full of water, release the Prime button. It is not necessary to fill the vest until step 4.2.



### 2.6 INSERT AIR TRAP

- Turn the air trap right side up and insert it into the air trap chamber. (figure 2.6)
- Close console top cover while ensuring tubing is not pinched.

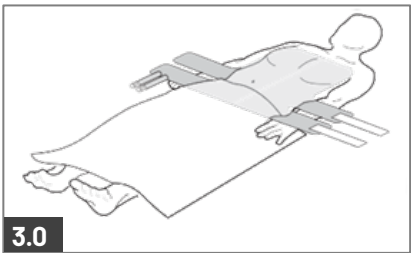


### 3. Place Vest

#### 3.0 PLACE VEST UNDER PATIENT

Place the vest under the patient. Do not secure the Velcro straps at this time. (figure 3.0)

Note: The vest may be disconnected from the tubing while positioning it under the patient.



#### 3.1 CHECK VEST CONNECTIONS

Ensure the vest is fully connected to the tubing. Both fluid connectors should click when fully engaged. (figure 3.1)



#### 3.2 CONNECT PROBE

Connect a core temperature probe to the front of the console. (figure 3.2)



### 4. Start Treatment

#### 4.0 PRESS STANDBY/RUN

Press the Standby/Run button on the console to start treatment. (figure 4.0)

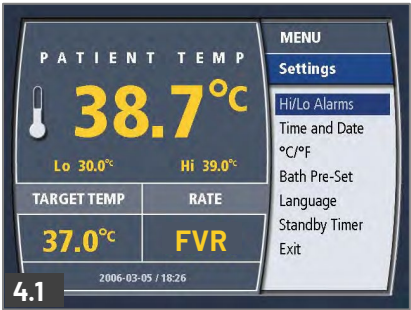
Caution: Ensure the vest is open and the Velcro straps are not secured. (figure 3.0)



#### 4.1 SET LO ALARM

Press the Menu button on the console, then set the patient Lo alarm to 1°C below the target temperature. (figure 4.1)

Warning: In Fever mode, the console will not warm the patient. Setting the Lo patient temperature alarm ensures that an alarm occurs if the patient's temperature drops.

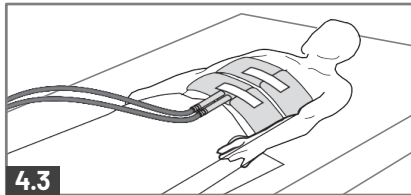


#### 4.2 WAIT FOR VEST TO FILL

Wait for the vest to fill with water. This typically takes 3-5 minutes. A small amount of air in the vest is acceptable and will dissolve over time.

#### 4.3 SECURE VEST TO PATIENT

Fold the vest flaps over the abdomen and chest. Secure and adjusting to fit the patient using the enclosed stretchable Velcro straps. The vest should be snug but not constraining. (figure 4.3)



#### 4.4 CONFIRM FLUID FLOW

Confirm that fluid is flowing through the tubing and pad by observing the rotation of the inline flow indicator (pinwheel). This may take several minutes. Check for kinks and tap on the flow indicator as needed. (figure 4.4)

