

Operation:

Operators should have a working knowledge of clinical hydrotherapy and cryotherapy procedures. In addition, each operator should thoroughly read and understand the procedures in this manual before treating patients with CRYOTherm.

1. Fill Tanks

Both tanks must be filled for proper operation of CRYOTherm. To fill the tanks first, make sure all control panel switches are in the off position and the drain valves are closed. Press the power switch to on and then slide the fill switches to the "Hi" or "Lo" level and allow the water level to rise. Automatic level switches located behind the overflow grille will control water levels at "Lo" = 4" and "Hi" = 2" to the top of the tank.

Note: *These level controls have a ten-second delay to avoid valve chatter.*

Helpful Hint: *During contrast treatments level switches, can be turned off to avoid loss of temperature due to tanks being constantly filled with water to replace that discharged from the overflow.*

2. Water Supply Requirements

CRYOTherm requires connection to a constant water source in order maintain water level and to allow the refrigeration system to work properly. If water supply is lost the electronic unit controller will shut down the refrigeration system and will require reset to restore function. (see Control Function #14 and the troubleshooting section).

3. Switch Pumps "On"

When the water level covers all jets the pump switches (see Control Function #4) may be switched "on" to begin circulating the water.

WARNING: *Do not run the pumps when the tanks are empty.*

With the dual speed pumps switched on water will circulate through the hydrotherapy jets at low speed. The pumps may be switched to high speed by depressing the white button (see Control Function #5). After 20 minutes the pump will automatically resume low speed operation. The air control valve next to the pump speed button can be turned to adjust the amount of aeration during treatment (see Control Function #13).

Important: *The pumps must be left on at all times for proper operation. Reliable aeration only occurs at high speed.*

4. Select Tank Temperatures

To set the temperature of each tank press and hold the corresponding Press-To-Set button (see Control Function #10), when depressed the digital display will switch from reading the actual tank temperature to indicating the set point temperature. Insert the small screwdriver that was supplied into the slot adjacent (see Control Function #11) and adjust the set point of each tank to the desired temperature. When the button is released, the digital display will return to reading the actual tank temperature.

Left Tank -The left tank is a dedicated cold tank adjustable from 40°F to 70°F. Heat removed from this tank is used to heat the right tank. Slide the Left Cool switch to "On" and the CRYOTherm will seek the set point temperature and control at that point. Cooling rate is approximately four degrees per hour.

Right Tank - The right tank can be operated at either warm or cold temperatures. With the Right Cool switch switched "Off" the water temperature can be set to any warm temperature up to 110°F. With the Cool switch switched "On" cold temperatures as low as 40°F may be selected.

Operation (continued):

5. Patient Loading & Unloading

Users may access the tanks via the compartment steps or over the front and side edges around the perimeter of the tank. Users also have access to the pump speed button and air control dial during the course of treatment however they should never touch the control panel settings beneath the clear plastic cover. CRYOTherm is designed to accommodate all size athletes and support them either standing, seated, or kneeling in the tank or sitting anywhere on the exterior Corian surface.

When exiting CRYOTherm via the compartment steps, care should be taken not to splash excessive water onto the surface of the steps or around the control panel. The clear plastic cover should remain in place whenever CRYOTherm is in use, to avoid splashing of the controls and accidental moving of the switches.

Important Note:

Water level controls prevent overflow during filling and operation of CRYOTherm, however, patient loading can result in overflow of the tank if entry into the tank is too rapid. Athletes should be instructed to enter the tank slowly, allowing the overflow drain to accommodate the displaced water and prevent overflow of water onto the floor and electrical components.

When exiting CRYOTherm via the compartment steps, care should be taken not to splash excessive water onto the surface of the steps or around the control panel. The clear plastic cover should remain in place whenever CRYOTherm is in use, to avoid splashing of the controls and accidental moving of the switches.

Tripping of the GFCI breaker is possible if a CRYOTherm tank is overflowed, or excessive water is splashed in the area of electrical components. If this occurs the area should be allowed to dry out, and the breaker reset to restore normal operation.