

CRYOTherm 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 the User's Manual before treating patients with CRYOTherm.

1. Fill Tanks

Both tanks must be filled for proper operation of CRYOTherm. To fill the tanks make sure the drain valves are closed. Press the power switch on, then press the fill button and allow the water level to rise. Automatic level switches located behind the overflow grille will control water levels at 3" from the top of the tank.

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

Helpful Hint: During contrast treatments the level switch 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.

3. Switch Pumps "On"

When the water level covers all jets the pump buttons (see Control Function #3 [p.4]) may be pressed 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 high-speed button. After 15 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.

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



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4. Select Tank Temperatures

To set the temperature of each tank press the Temperature Up button of the corresponding side and hold for 3 seconds, the digital display will enter Set Point mode and switch from reading the actual tank temperature to indicating the set point temperature. Adjust the set point of each tank to the desired temperature by pressing either the Temperature Up or Temperature Down button. After 10 seconds of no button presses, the digital display will return to reading the actual tank temperature. You can also exit set point mode by pressing the Temperature Up button of the corresponding side and holding for 3 seconds.

a) 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. Press the Left Cool button to “On” and the CRYOTherm will seek the set point temperature and control at that point. Cooling rate is approximately four degrees per hour.

b) Right Tank - The right tank can be operated at either warm or cold temperatures. In Warm mode, the water temperature can be set to any warm temperature from 70°F to 110°F. In Cold mode, temperatures between 40°F and 70°F may be selected.

Note: Certain CustomFit models are opposite – refer to the spec sheet.

Water Temperature Set Point Guidelines:

| | | |
|-----------|---------------|--------------|
| Very Cold | 40°F to 55°F | 5°C to 13°C |
| Cold | 55°F to 60°F | 13°C to 16°C |
| Warm | 90°F to 98°F | 32°C to 37°C |
| Hot | 98°F to 104°F | 37°C to 40°C |



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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 located in front of the control panel should remain in place whenever CRYOTherm is in use to avoid splashing of the controls and accidental pressing of the switches.

The water level control prevents 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 as well as electrical components.

Tripping of the GFCI breaker is possible if a CRYOTherm tank does overflow, or if 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.

