

Scope

Applies to THERMOGENESIS CORP. Plasma Freezers that utilize a control panel with a timer function.

Subject: Validating the Timer Software

This bulletin outlines how to validate the control panel timer software to ensure proper operation.

Background

The control panel on the freezer may have from one to three timers on it. The timer function is used to set the desired amount of time for a freeze cycle.

What to do

The timer function of the control panel should be validated at least once every 12 months to ensure proper operation.

Procedure

1. With the Plasma Freezer at rest, press the **RESET** key on the desired keypad.
2. Set the time on the control panel to 90 minutes by entering **9000**.
3. Press the **START** key within 10 seconds to save the setting.
4. Press **START** on the keypad to start a freeze cycle. The chamber will fill for approximately 1 minute before the timer starts to count down.
5. Start the stopwatch at the same time the timer on the display begins to countdown.
6. At the same time that the display reaches 0, stop the stopwatch.
7. Record the time on the stopwatch.
8. Repeat the above procedure for each timer on the panel.
9. The time between the individual panel timer and the stopwatch should be within ± 10 seconds.

If the recorded value is greater than ± 10 seconds, the control panel may need to be replaced. Contact your THERMOGENESIS CORP. representative for further assistance.