



TECHNICAL SERVICES BULLETIN

010-018 MP2200 Coolant Level

October 11, 2002

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Scope: All MP2200 Plasma Freezers for Aventis BioServices, Inc.

Subject: *MP2200 Plasma Freezer Coolant Level*

Your current MP2200 Operator Manual states that the freezer unit contains 130 gallons of InstaCoolant IV which results in the coolant level being approximately 2-3 inches from the bottom of the freezing chamber. We were made aware that with the 130 gallons of coolant, the rod to which the pocket clips are attached, would be submerged in the coolant; thus exposing the operator's hand to below freezing coolant temperature when replacing a pocket.

It was determined that 120 gallons of InstaCoolant IV is sufficient amount of coolant to operate the MP2200 Plasma Freezer unit. This amount of coolant will measure approximately 1/4 to 1/2 inch from the bottom of each freezing chamber when the freezer unit is at rest and coolant is at the operating temperature of -55C.

Procedure

1. Replacing Pockets

- Until the excess amount of coolant is removed from your Plasma Freezer Unit, please use care when replacing pockets.

Caution: Placing unprotected hands in InstaCoolant IV when coolant temperature is below freezing can cause frostbite.

2. Quarterly Preventive Maintenance – Check Coolant Level

- When performing your next Quarterly Maintenance, check coolant level per instructions in your Operator Manual.
- If the coolant level is more than one half (1/2) inch from the bottom of the freezing chamber, do not replace the entire amount of coolant which is removed from the filter container during the defrost cycle. Only replace the amount to bring the chamber coolant to its proper level which is 1/4 to 1/2 inch from the bottom of the chamber. For every inch of excess coolant at the bottom of the chamber, approximately 9 gallons of InstaCoolant IV need to be removed.

3. Note the Changes

- Please note the above changes in your MP2200 Operator Manual and make your staff aware of this change when viewing your MP2200 Plasma Freezer Operation and Maintenance Videos.

If you have any questions, contact THERMOGENESIS CORP. Customer Service at 800-783-8357 (U.S. and Canada) or 916-858-5100 (non-U.S./Canada) for assistance.