

Scope

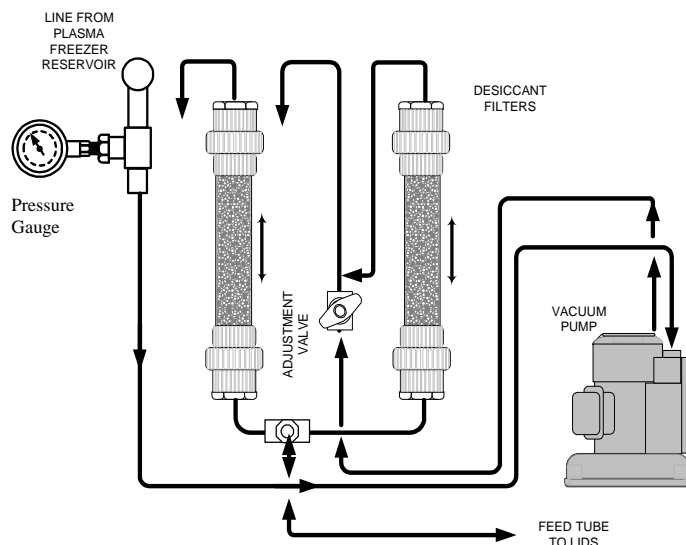
Applies to THERMOGENESIS CORP. MP2000 Plasma Freezers with Vacuum Systems.

Subject: Changing Desiccant Pellets

The desiccant filter should be checked at least every 30 days to determine if the material needs to be changed.

Background

Vacuum System and Desiccant Filter Assembly



The vacuum system and desiccant filter assembly are located in the stainless steel housing on the right end of the MP2000 Plasma Freezer. They expand the pockets to easily enable the user to remove and replace plasma bottles both before and after a freeze cycle. They also act as a drier for the air under the lid covers. The gauge should be adjusted to read between 10" and 15" of vacuum.

FIGURE 6: DESICCANT FILTER ASSEMBLY SCHEMATIC FOR THE MP2000 WITH VACUUM

What to do

Procedure

- A. Verify that the blue pellets have changed color from blue to gray.
1. Remove the screws (8) holding the stainless steel vacuum housing cover.
 2. After removing cover visually inspect the desiccant pellets in the clear plastic tubes located in the back middle section on the vacuum housing.
 3. If the blue pellets have turned to gray, the desiccant pellets will need to be changed.
- B. Removing the Desiccant Pellets
1. Remove each white plastic coupling located on the top of the clear plastic tubes by twisting it to the left until it is completely loose.
 2. Remove each white plastic coupling located at the bottom of the clear plastic tubes by twisting it to the left until it is completely loose.
 3. Unsnap the two gray clamps holding the clear plastic tubes to the back of the vacuum housing.
 4. The clear plastic tubes of desiccant are free to be removed and the desiccant disposed of as recommended in the Material Safety Data Sheet (MSDS).
- C. Replacing Desiccant Pellets
1. Fill each clear plastic tube until they are full of desiccant pellets.
 2. Place each tube back into the gray clamps, fastening each clamp.
 3. Once in place, tighten each bottom white plastic coupling by twisting it to the right, making sure each coupling is hand tight.
 4. Replace each top coupling and tighten each coupling in place by twisting to the right, making sure each coupling is hand tight.
- D. Recheck Vacuum Pressure
1. Lift one of the freezer lids allowing the vacuum system to come on.
 2. While vacuum system is on, view the vacuum gauge at the top left corner of the vacuum housing interior.
 3. The vacuum gauge should read between 10 to 15 inhg.
 4. If reading is over 15 inhg, turn the handle located between the two clear desiccant plastic tubes to the right, thus reducing the vacuum strength until reading is between 10 to 15 inhg.
 5. If reading is below 10 inhg, turn the handle located between the two clear desiccant plastic tubes to the left, thus increasing the vacuum strength until the reading is between 10 to 15 inhg.
 6. Close freezer lid shutting down the vacuum system.
 7. Reopen freezer lid allowing vacuum system to come back on.
 8. Recheck vacuum setting, making sure vacuum gauge reading still falls between 10 to 15 inhg.
 9. Close the freezer lid.
 10. Replace vacuum housing cover by tightening the screws (8) holding the stainless steel cover in place.