

Dri-Lab

Use mild soap and water to clean the outside painted surfaces. Dry the unit with compressed air. At recommended 3-mo intervals, all valves, fittings, lines, tubing, and connections should be inspected for general mechanical and electrical integrity.

Antechamber

Check the sealing O-rings periodically and replace when worn or damaged. Clean antechamber doors periodically with a mild solvent, and coat the sealing surfaces with a light coat of vacuum grease. If required, adjust antechamber door tension as follows:

- A. Close door and loosen jam nut at door clamp (Figure 4-1). Loosen nut 2.
- B. Open door and rotate door clockwise (increase tension) or counterclockwise (decrease tension).
- C. Close door to fully closed position - firm pressure should be required to close door.
- D. Tighten nut 2 and then jam nut.

Replacing Old Gloves

Gloves should be replaced at the first sign of deterioration. To replace old gloves with a minimum of Dri-Lab contamination:

- A. Seal glove port with internal glove port cover (optional equipment).
- B. Remove glove by reversing the procedure for installing gloves as outlined in Section 2-4.
- C. Install new glove as outlined in Section 2-4.
- D. Before installing clamp, purge glove as follows:
 - 1) Increase and maintain positive pressure in glove box at approximately 4-in. water column.
 - 2) Loosen glove port cover to allow glove to fill with inert gas from glove box.
 - 3) Once glove is pressurized, tighten glove port cover again.

Table 4-1
Troubleshooting Dri-Lab

Problem	Test	Solutions
I. Glove box does not hold pressure or unable to establish low oxygen levels (bad atmosphere).	<ul style="list-style-type: none"> ● Check leak test procedures for glove box. ● Visually inspect gloves for holes or damage; inspect purge exhaust valve. 	<ul style="list-style-type: none"> ● New gloves. ● Tighten loose connections into glove box. ● Clean or replace purge exhaust valve.

II. Pressure decreases in glove box when evacuating anti-chamber. <p style="text-align: center;"><u>or</u></p> Oxygen levels increased when opening outside anti-chamber door.	<ul style="list-style-type: none"> ● Dirty/damaged inside door O-ring. ● Defective anti-chamber refill valve - can be eliminated from problem by plugging hole inside Dri-Lab. 	<ul style="list-style-type: none"> ● Clean or replace valves/O-ring.

III. Atmosphere deteriorates inside glove box when inside anti-chamber door is opened and outside door is closed.	<ul style="list-style-type: none"> ● Dirty/damaged outside door O-ring. ● Insufficient tension on outside door clamp. 	<ul style="list-style-type: none"> ● Clean or replace O-ring. ● Increase tension of outside door clamp.

IV. Excessive pressure inside glove box.	<ul style="list-style-type: none"> ● Inspect purge inlet valve. ● Inspect purge exhaust valve for blockage. 	<ul style="list-style-type: none"> ● Clean or replace purge inlet valve. ● Clean or replace purge exhaust valve.