

PART II - PRIMARY SYSTEMS INFORMATION

4. Medical Gas System

1. Operation

i. Safety Instructions:

(1) Motorized Systems: All medical gas systems that utilize mechanical and electrical means of producing a vacuum or compressed air will utilize the same safety precautions.

(a) Before any work is done on the equipment, the electrical connection should be terminated. This should be done at the "hand-off-auto" switch and at the electrical breaker. The breaker should be tagged so that accidental closure of the breaker will not occur.

(b) The equipment should not be operated without all of the guards and safety devices in place and fully operational. A dangerous condition exists if the belt guards are removed or if the pressure relief valves are not functional.

(2) See the following pages for specific Safety Instructions for equipment.

Safety Instructions:

Dental Low Vacuum Pump (Oral Evacuation)

- 1. Warning:** When working on Dental Low Vacuum electrical components, provide a lockout device, a lockout tag and a tagout device on the electrical breaker or on the disconnect switch. See sheet PART I - Page 5-6 for panel, breaker and/or disconnect switch. The devices shall be in full compliance with Appendix 1j-16.
- 2. Caution:** All clothing should be checked to insure that loose ends of clothing or other objects may not be caught in the rotating machinery.
- 3. Caution:** Be sure that the unit is properly grounded before working on the unit.
- 4. Caution:** Do not touch the pump cooling fins until the unit has had time to cool down. The fins may have temperatures of 160 degrees F. which could cause burns.

Safety Instructions:

Dental Air Compressors:

- 1. Warning:** When working on medical vacuum pump electrical components, provide a lockout tag and a tagout device on the electrical breaker or the disconnect switch. See sheet PART I - Page 5-6 for breaker and or disconnect switch locations.
- 2. Warning:** Disconnect control and power circuits when working on electrical components.
- 3. Warning:** Use only grounded or insulated (UL Approved) electrical components.
- 4. Warning:** When performing any type of work around rotating machinery, keep extremities, long hair and loose clothing away from all rotating machinery.
- 5. Caution:** Do not attempt to remove any compressor parts without first relieving the entire system of pressure.
- 6. Caution:** Do not attempt to service any part while machine is in an operational mode.
- 7. Caution:** Do not operate the compressor at pressures in excess of its rating.

NOTE: See additional manufacturer's Safety Instructions included hereinafter.