

6520-00-139-1246  
Compressor Dehydrator, Dental, M5 Series

[B-Before Operation, D-During Operation, A-After Operation, Q-Quarterly, and S-Semiannually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	B	<p><b>Compressor-Dehydrator</b></p> <p>a. Conduct an inventory to ensure that the items listed in the Equipment Parts and Accessories List are on hand.</p> <p>b. Inspect the unit for any damaged or deteriorated hoses, tubes, cables, and other components.</p> <p>c. Inspect the unit for an excessive accumulation of dust or dirt. (Particular attention should be given to the intake silencer and fan guard.)</p>	<p>Missing hose assembly, which connects compressor to dental operating and treatment unit.</p> <p>Damaged or deteriorated components prevent operation of the unit.</p> <p>Unit overheats or does not operate.</p>
2	B	<p><b>Installation and Preparation for Use</b></p> <p>a. Conduct the installation procedure.</p> <p>b. Conduct the "Preparation for Use" procedure.</p> <p>(1) Remove transit case from shipping carton.</p> <p>(2) Unscrew pressure relief valve on transit case cover, release the 8 latches and remove transit cover.</p> <p>(3) Check pressure gauge to be sure storage tank is not pressurized. If pressurized, release pressure by opening drain valve.</p> <p>(4) Be sure tank drain valve is closed and set circuit breaker to "OFF."</p> <p>(5) Attach appropriate length of interconnecting hose from compressor to operating and treatment unit.</p> <p>(6) Connect power cable to 115 Volt, 60 Hz power source.</p> <p>c. Conduct the operational checkout procedure.</p> <p><b>CAUTION: DO NOT RESTRICT AIRFLOW THROUGH AIR INTAKE SILENCER.</b></p> <p><b>NOTE: Do not draw any air from the compressor during the operational checkout procedure.</b></p> <p>(1) While depressing red manual unloader tab on pressure switch, set ON-OFF circuit breaker to "ON." Compressor motor and dryer cooling fan will energize.</p>	<p>The interconnecting hose cannot be attached.</p> <p>The motor and fan do not energize.</p>

(continued) Appendix A. Operator PMCS

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3	B	<p>(2) Observe pressure gauge. Pressure should increase to 80psi in approximately 40 seconds. Compressor should stop, but cooling fan will continue to run.</p> <p>(3) Pressure should decrease to 60psi in approximately 31 seconds. During this time a hissing sound should be heard as purged air is discharged through the exhaust muffler indicating that the regeneration system is operating properly.</p> <p>(4) When pressure decreases to 60psi compressor should start and run for approximately 8 seconds while pressure again increases to 80psi.</p> <p>(5) At 80psi, compressor stops and cycle should repeat, (3) and (4) above.</p> <p>(6) Check color of dryness indicator. If "blue," compressor is ready for operation. If not "blue," drying system should be regenerated before using compressor.</p> <p>(7) Rotate four transit cover supports so that they overlap edges of transit case at right angles. Place transit case on supports.</p> <p><b>Air Storage Tank</b></p> <p>a. Verify that the tank does not leak by pushing the power switch to the "OFF" position and observing that the pressure holds at approximately 60psi for several minutes.</p> <p>b. Ensure that the hose(s) can be properly connected.</p> <p>c. Ensure pressure relief/drain valve opens and closes properly.</p>	<p>The compressor does not stop.</p> <p>The compressor does not start.</p> <p>The compressor does not stop or if the compressor does not start.</p> <p>The humidity indicator is other than blue.</p> <p>The tank cannot be pressurized or the tank leaks.</p> <p>The hose(s) cannot be connected to the storage tank.</p> <p>The valve cannot be opened or it leaks when closed.</p>
4	S	<p><b>Case</b></p> <p>a. Inspect the case for signs of excessive wear.</p> <p>b. Check the air relief valve.</p>	<p>The case cannot be used to store or ship the unit.</p> <p>The valve is inoperable, damaged, or missing.</p>

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5	B, D, A	<p><b>Pressure Gauge</b></p> <p>Check for dents, a cracked or broken dial cover, or gauge indications beyond the normal range.</p>	<p>The damage prevents operation of the unit.</p>
6	B, D, A	<p><b>Humidity Indicator</b></p> <p>a. Inspect for dents, a cracked or missing indicator cover, or the lack of any color indication.</p> <p>b. Ensure that the indicator is blue.</p>	<p>The damaged indicator prevents operation of the unit.</p> <p>The humidity indicator is other than blue.</p>