



# Suggested Preventive Maintenance Schedule for Sahara Air Products T Heatless Air Dryers

**SAHARA AIR PRODUCTS**  
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## Service Guide



Before servicing components, it is advised that this entire Service Supplement be studied and clearly understood.

*These instructions apply to the following Models of Sahara Regenerative Air Dryers:*

**T Heatless  
(T)**

## SAHARA AIR PRODUCTS

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## SUGGESTED PREVENTIVE MAINTENANCE SCHEDULE

The T Series dryer requires a minimum of maintenance as most components are maintenance-free; however, a certain amount of preventive maintenance is recommended to assure years of trouble-free, high performance service.

Whereas it is recommended that the dryer be observed and inspected as often as it is practical, the following is a minimum requirement.



**Recheck desiccant level one month after start-up and refill as necessary; desiccant should be filled through the standpipe.**

### **DAILY**

1. Check operating conditions: inlet flow, inlet pressure, temperature, and purge flow.
2. Check filter differential pressures.
3. Check dryer operating cycle.
4. Check outlet dew point.
5. Test drain for proper operation.

**Note:** Maintenance steps above can be accomplished while the dryer is operating.

### **EVERY 8,000 HOURS OR 12 MONTHS**

1. Perform steps 1 through 5 as outlined in "DAILY".
2. If dryer has optional Dew Point Demand System:
  - a. Recalibrate or replace dew point probe/SMT. Contact Henderson Engineering Co. for instructions which will include the issue of a Return Merchandise Authorization (RMA) to send dew point equipment for recalibration to Henderson Engineering Co.
  - b. Replace inline filter for dew point sample cell.

**Note:** Maintenance steps above can be accomplished while the dryer is operating.

3. Replace all filter elements.

**Note:** If filters are able to be isolated by themselves, dryer can continue to operate. Isolate and depressurize the filters only.

**Note:** For detailed maintenance procedures for replacing filter elements, contact Henderson Engineering Co. and request *Service Guide – Filter Element Replacement Instructions* (Reference SV024).

*Continued on next page.*

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### **SUGGESTED PREVENTIVE MAINTENANCE SCHEDULE**

#### **EVERY 8,000 HOURS OR 12 MONTHS (continued)**

4. Isolate and depressurize the dryer.
5. Disconnect power to the dryer.
6. Replace mufflers.
7. If dryer has check valves, replace the check valves at this time.
8. Inspect desiccant level and refill as necessary.



**On the T heatless air dryer, fill through the standpipe; it is important to make certain the standpipe is completely filled with desiccant!**

9. Make certain all air and electrical connections are sound.
10. Repressurize the dryer (or filters) and place "onstream".
11. Reconnect power to the dryer.

#### **EVERY 16,000 HOURS OR 24 MONTHS**

1. Perform steps 1 through 8 as outlined in "EVERY 8,000 HOURS OR 12 MONTHS".



**Attention / Warning!**

**DO NOT REPRESSURIZE DRYER OR RECONNECT POWER TO THE DRYER YET!**

2. Disassemble and clean the drain.
3. Test desiccant for dynamic capacity. Contact Henderson Engineering Co. for instructions which will include the issue of a Return Merchandise Authorization (RMA) to send in desiccant samples for testing.
4. Make certain all air and electrical connections are sound.
5. Repressurize the dryer (or filters) and place "onstream".
6. Reconnect power to the dryer.

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## SUGGESTED PREVENTIVE MAINTENANCE SCHEDULE

### **EVERY 32,000 HOURS OR 48 MONTHS**

1. Perform steps 1 through 2 as outlined in "EVERY 16,000 HOURS OR 24 MONTHS".



#### **Attention / Warning!**

**DO NOT REPRESSURIZE DRYER OR RECONNECT POWER TO THE DRYER YET!**

2. Drain all the desiccant from both vessels through the drain at the bottom of each vessel. If a handhole / manway is available, the desiccant can be removed using a vacuum truck (**recommended**).
3. Refill both vessels with the proper amount of desiccant. Reference the air dryer instruction manual for the Specifications and/or Spare Parts List which indicate the required quantity of desiccant. You can also contact Henderson Engineering for assistance; please have the S/N of the air dryer available.



**On the T heatless air dryer, fill through the standpipe; it is important to make certain the standpipe is completely filled with desiccant!**

**Note:** For detailed maintenance procedures for removing and installing desiccant, contact Henderson Engineering Co. and request *Service Guide - Desiccant Fill Instructions* (Reference SV023).

4. Rebuild the actuators and valves by installing repair kits in the major switching valves.
5. Carefully disassemble and clean the solenoid valves in the control group; rebuild with new parts, only if damage or serious wear is evident.
6. Make certain all air and electrical connections are sound.
7. Repressurize the dryer (or filters) and place "onstream".
8. Reconnect power to the dryer.

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#### FIELD & TECHNICAL SUPPORT

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#### INSIDE SALES FOR PARTS

**Inside Parts Sales**

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When contacting Henderson Engineering, please have the following information available:

- **Serial Number** which can be found on the air dryer; either on the ASME code nameplate on the dryer towers or in the electrical enclosure.
- **Model Number** which can be found on the air dryer; either on the ASME code nameplate on the dryer towers or in the electrical enclosure.
- Inlet air temperature and pressure.
- Actual inlet flow rate.



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**ISO 9001 Quality Management System**  
standards and guidelines.

**Sahara Air Products, Div. of Henderson Engineering Co., Inc.**

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Receiving Dock Hours: Monday - Thursday 7:30 a.m. - 3:30 p.m.

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