



Suggested Preventive Maintenance Schedule for Sahara Air Products Exhaust Purge Air Dryers

SAHARA AIR PRODUCTS
A Div. of HENDERSON ENGINEERING COMPANY, INC.
95 North Main Street • Sandwich IL 60548
815-786-9471 • 800-544-4379 • Fax: 815-786-6117
www.saharahenderson.com

Service Guide



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

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

**Exhaust Purge
(EP)**

SAHARA AIR PRODUCTS

SERVICE GUIDE

Suggested Preventive Maintenance Schedule for Exhaust Purge Air Dryers

SUGGESTED PREVENTIVE MAINTENANCE SCHEDULE

The Exhaust Purge (EP) 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

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.

SAHARA AIR PRODUCTS

SERVICE GUIDE

Suggested Preventive Maintenance Schedule for Exhaust Purge Air Dryers

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. Inspect electric heater contactor for excessive wear and replace, if necessary. (Not applicable for steam heater.)
8. Make certain all air and electrical connections are sound.
9. Repressurize the dryer (or filters) and place "onstream".
10. Reconnect power to the dryer.

EVERY 16,000 HOURS OR 24 MONTHS

1. Perform steps 1 through 7 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.

SAHARA AIR PRODUCTS

SERVICE GUIDE

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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.

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. If dryer has check valves, replace the check valves at this time.
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, electric, and water connections are sound.
7. Repressurize the dryer and place "onstream".
8. Reconnect power to the dryer.

SAHARA AIR PRODUCTS

SERVICE GUIDE

Suggested Preventive Maintenance Schedule for Exhaust Purge Air Dryers

FIELD & TECHNICAL SUPPORT

Service Manager
Bryan Scott

Office: 815-786-9471 Ext. 129
Cell: 630-697-3608
Fax: 815-786-6117
E-mail: BryanScott@saharahenderson.com

Service Engineer
Andres Perdomo

Office: 815-786-9471 Ext. 127
Fax: 815-786-6117
E-mail: AndresPerdomo@saharahenderson.com

INSIDE SALES FOR PARTS

Inside Parts Sales
Mimoza Jaisi

Phone: 815-786-9471 Ext. 134
Fax: 815-786-6117
E-mail: Sales@saharahenderson.com

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.



**Henderson Engineering Co., Inc.,
is proud to be certified to the
ISO 9001 Quality Management System
standards and guidelines.**

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

www.saharahenderson.com

Phone: 815-786-9471 • Fax: 815-786-6117

Business Office Hours: Monday - Friday 8:00 a.m. - 4:30 p.m.
Receiving Dock Hours: Monday - Thursday 7:30 a.m. - 3:30 p.m.

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