

**Instructions:**

Complete daily maintenance checklist and perform daily maintenance each day that VSA plant is turned on and operated.  
 Maintain a separate set of records for both systems in a duplex VSA plant and all three systems in a triplex VSA plant.  
 The technician who completes the daily maintenance checklist must initial the form. Customize this form to your VSA plant.

### Daily Maintenance Checklist for VSA Plants

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Date							
Technician Initials							
<b>Visual Inspections</b>	<i>Indicate Y (Yes) or N (No) in the spaces provided below</i>						
Have all combustible materials been removed from the in and around the VSA plant?							
Has the floor and surfaces been mopped and dusted?							
Is the VSA plant free of any physical damage?							
Are cylinders stored safely? (with caps and chains)							
Are all ventilation systems working, including fans?							
Are air intake filter mats, intake cover, and ventilation filters in place?							
Is the inlet air filter in good condition?							
Are the air blower and equipment housing covers in place?							
Is the air blower coupling free of any visible damage?							
Are the air blower oil levels at the manufacturer's specified level?							
Is the bottom of the air blower free from any signs of oil leakage?							
Inspect the blower and motor shaft seal for leakage?							
Is the heat exchanger free of dirt and debris?							
Does the screen say the SD card's status is "okay"?							
Is the booster compressor operating without unusual noises or leaks (water and oil)?							
If the backup manifold has not been used in the past day, does the pressure gauge indicate it is maintaining pressure?							
Are the manifold pigtailed in good working condition?							
Check the status of the fire detection and suppression system. Are they in good working condition?							

Data Collection	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Record the temperature in VSA plant room or container (°C)							
Are there any alarm codes? If so, identify components and take a picture of the alarm.							
Record the flow estimate							
Record the system running hours							
Record the air blower running hours							
Record the scroll compressor running hours							
Record the blower energy (Wh)							
Record the oxygen purity (%) - PLC							
Record the oxygen purity (%) using a handheld oxygen analyzer							
Record the cycle time (seconds)							
Record the booster compressor running hours							
Record the booster compressor pressure gauge readings (list every stage) and temperature (once/week)	Inlet Pressure: 1st Stage Pressure: 2nd Stage Pressure: 3rd Stage Pressure: Exhaust Pressure:  Inlet Temp: 1st Stage Temp: 2nd Stage Temp: 3rd Stage Temp: Exhaust Temp:						
Enter the number of cylinders filled for your standard cylinder size. Indicate standard cylinder size _____[L]							
Record the number of hours during which cylinders were filled.							
Are there any maintenance warnings?							
Compare the running hours recorded above with the Preventive Maintenance Schedule. Is service needed?							