

Troubleshooting Form

for Centrox™ Oxygen Generator



Customer Name

Company Name

Date

Model Number

Serial Number

Hours

Please fill in the data below to help an AirSep Service team member troubleshoot the oxygen generator. It is important to have a copy of the instruction manual to identify the location of the different components and to ensure the proper operation of the oxygen generator. Contact cpd@caireinc.com for the most up-to-date manual.

The data should not be recorded until the oxygen concentration has stabilized at the generators rated oxygen flow, for at least 15 minutes. The oxygen generator should be operated in the manual position and at the designed oxygen flow rate of 15 LPM.

Feed Pressure (Please record three consecutive pressure cycles):

1: 2: 3:
High (psig) Low (psig) High (psig) Low (psig) High (psig) Low (psig)

Product Pressure:

Highest Reading (psig)

Lowest Reading (psig)

Bed Pressure (Internal Gauge) (Please record three consecutive pressure cycles):

1: 2: 3:
High (psig) Low (psig) High (psig) Low (psig) High (psig) Low (psig)

Oxygen Receiver:

Highest Reading (psig)

Lowest Reading (psig)

Oxygen Concentration:

Highest Reading (%)

Lowest Reading (%)

Low Purity Light Illuminated? Yes No

Low Purity Alarm? Yes No

Oxygen Flow:

Highest Reading (LPM)

Lowest Reading (LPM)

Control Power:

Supply Voltage (VAC)

Supply Frequency (Hz)

Ambient Operating Conditions:

Highest Reading (°F)

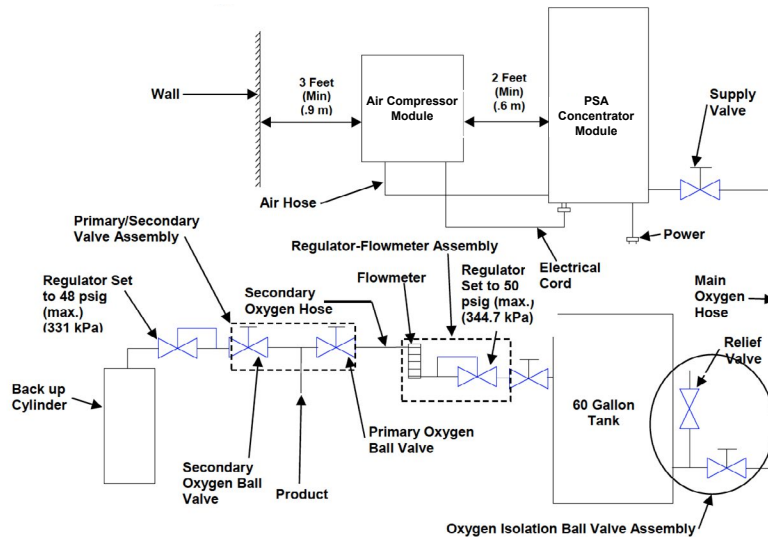
Lowest Reading (°F)

Troubleshooting Form

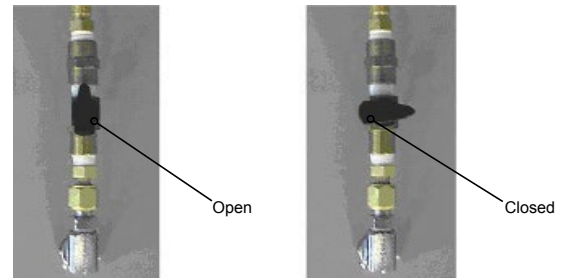
Please confirm the following steps have been followed to ensure the Centrox Oxygen Generator has been properly installed.

*if this is not a new installation you may skip this section and continue to submit your current operating characteristics.

1. Observe that the ON/OFF switch on the PSA module is in the off position.
2. Insert the compressor module electrical plug to the electrical inlet at the bottom of the PSA module. See Figure Below.
3. Connect the PSA module power cord to a properly grounded electrical outlet that cannot be accidentally turned off. Do not use extension cords.
4. Set the AUTO/MANUAL switch on the PSA module to the MANUAL position.
5. Ensure that oxygen isolation ball valve is open (See Figure Below).
6. Close the primary and the secondary oxygen ball valves (See Figure Below).
7. Remove the hose that connects the center fitting of the primary/secondary ball valve assembly to your distribution system. This will allow the air in the tank to be vented to the atmosphere.
8. Put the supply valve in the closed position (See Figure Below).
9. Set both the ON/OFF switches on the compressor module in the 'ON' position.
10. Set the PSA module's ON/OFF switch to the ON position. At this stage, all the green ON/OFF switches should be ON.
11. Open the primary oxygen ball valve.
12. Fully open the regulator and flowmeter (See Figure Below). Oxygen should start coming out of the outlet once the regulator and flowmeter are open.
13. Allow the unit to run to purge air out of the tank and to achieve the minimum purity level of the oxygen as specified in the operating manual. This step may take 20-30 minutes.
14. Make sure that the minimum purity level of the oxygen as specified in the operating manual has been reached (the low purity light and the alarm should be off).
15. Fully close the primary oxygen ball valve (See Figure Below).
16. Set the AUTO/MANUAL switch on the PSA module to the AUTO position.
17. Allow the oxygen receiver to attain a pressure of 55-65 psig (379.2-448 kPa). Make sure oxygen concentrator enters the standby mode and the blue AUTO/MANUAL light shuts off.
18. Fully open the supply valve on the PSA module.
19. Make sure that the regulator at the outlet of the oxygen tank is set at 50 psig (345 kPa) (Open the primary oxygen ball valve slightly to adjust the regulator).
20. Close the primary oxygen ball valve and reattach the hose to the distribution system.
21. Open the primary oxygen ball valve.
22. Allow 15 LPM (max.) to flow through the flowmeter.
23. Make sure that the regulator at the outlet of the backup oxygen supply is set at 48 psig (331kPa).
24. Open backup cylinder isolation valve (secondary oxygen ball valve).
25. Check all fittings and connections for leaks.



General Arrangement of the Centrox Concentrator



PSA Enclosure Supply Valve Assembly

Comments