



Concentrator Talk - September 22, 2022

| # | Topic | Video Link |
|----|--|----------------------|
| 1 | Introduction and Welcome | Link |
| 2 | I'm repairing an oxygen concentrator that doesn't output any oxygen. I disassembled it and discovered that the solenoid valves were not operating. When I checked the control board and tested the voltage to the valves, it was 24 volts DC, which is what these solenoid valves need. How can I fix this issue? | Link |
| 3 | I'm a biomedical technician and working on an oxygen concentrator. This oxygen concentrator turns on, runs for a while (a maximum of 20 minutes), heats up and shuts itself off. What could be the cause of this problem and how can it be solved? | Link |
| 4 | A Canta V8 oxygen concentrator was brought to the workshop and it had low and fluctuating purity. I checked for leakages and did not find any, I then serviced the compressor and there was an improvement in the purity but not by much. We usually refill zeolite at our workshop and we have both sodium and lithium zeolite. I used a ratio of 70% Lithium and 30% sodium to refill the sieve beds. But the purity only went up to 85%. This was my first time working on this model and I believe the problem was the ratio used. What ratio can I use? and how can I determine what ratios or types of lithium to use in other oxygen concentrator models? | Link |
| 5 | We serviced one perfect o2v oxygen concentrator 2 weeks back. Rebuild the compressor , Serviced the 4 way valve & replaced sieve beds & Filters. The machine worked fine giving purity above 95% at flow setting of 5 . Now we have received a call that the machine is giving a low purity alarm. Can you please suggest what can be the problem. | Link |
| 6 | There is an Airsep Intensity 10 concentrator in our workshop which is performing well. The only problem it has is that the check valve which is found between the concentrator outlet fitting and the flowmeter outlet port is broken. I want to replace the check valve but the spare check valves which are in the workshop are not exactly the same as the broken one. Can I go ahead and replace the check valve with the ones we have in the workshop? | Link |
| 7 | Concentrator Training at Botšabelo Hospital, Lesotho | Link |
| 8 | I was working on two oxygen concentrators (one Longfian and the other Airsep). I noticed there is a valve connecting the two sieve beds in the Airsep and no valve connecting the sieve beds in the Longfian. So I was curious as to why there's that valve in Airsep and not in Longfian? And what is the function of that valve? | Link |
| 9 | What happens to an Oxygen Concentrator when a patient smokes? | Link |
| 10 | I was servicing Oxygen concentrators and I noticed that some concentrators such as the Airsep and DeVilbiss concentrators have sieve bed check valves. Other concentrators like the Jay-5 have no sieve bed check valves. Doesn't the absence of the sieve bed check valves affect the performance of the concentrator at some point? | Link |

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| 11 | Hello, a Devilbiss 525 oxygen concentrator that was delivered to our workshop last week indicated insufficient oxygen purity. I discovered that the zeolite in the sieve beds was damp after troubleshooting. After closer examination, it was discovered that there were water droplets in the concentrator's output side tubes as well as the product tank. Both the product tank and the pipelines have been dried. However, I worry that if I replenish the zeolite, the same issue would persist. What might be the reason for the water's presence, and how might it be fixed? | Link |