



Concentrator Talk - August 11, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	I was going through the service manual of a DeVilbiss oxygen concentrator, and it says that I shouldn't leave the sieve beds exposed to the outside environment. Why is this so and what may happen if I leave the sieve beds exposed?	Link
3	I am a maintenance supervisor of a certain district hospital. Just recently our local electricity supplier communicated that we will have more frequent black outs. We have Airsep intensity 10s in our isolation unit so I wanted to know how many concentrators I can run using a 2.8 KVA genset for the isolation unit?	Link
4	I am working on a DeVilBiss 525 oxygen concentrator, when I plug it to the mains socket, the reset switch on the concentrator trips and the concentrator does not turn ON. How do I deal with such a problem?	Link
5	I have recently been employed by a certain mission hospital and I have come to a realization that some models like the Airsep have an equalization valve while some models like the DeVilbiss do not. I would like to know the purpose of the equalization valve?	Link
6	I would like to know how the double wobble compressor inside an oxygen concentrator works.	Link
7	What not to do when working with an oxygen concentrator	Link
8	I am a technician at a health center. While conducting oxygen concentrator assessment in the wards, I came across a 525 Devilbiss concentrator that producing low purity, with the compressor kits worn out after opening it at maintenance workshop. After checking the hobbs meter it showed that the machine has run for longer hours than shown in the manual and needs to be serviced, but to my surprise, the concentrator's service Light Emitting Diode (LED) was not illuminating and the buzzer was not beeping and the nurses were still using it since there was no sign of malfunctionality of the machine. What could be the problems and the solution?	Link
9	We purchased 2 oxygen concentrators 2 years back . One named Perfect O2v & other named Platinum 5 by Invacare. We started using Perfect O2v continuously for 1 year. It worked fine. After 1 year we started using the other machine named platinum 5 & kept the Perfect O2v in store. Now after one year we again started using perfect o2v but the machine started giving a low purity alarm with yellow LED indication. What can be the reason?	Link



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10	We have been using one oxypure oxygen concentrator for the last 2 years in the Ozone generation plant for water purification. The machine worked fine as we kept the filters changed at regular intervals. Now the machine started heating up much more than normal. On testing we found the machine was producing a purity of only 25% and the machine shuts down after 2 minutes. What can be the reason?	Link
11	I was working on a Devilbiss 515 concentrator that was registering 46% oxygen purity. I serviced the compressor, refilled its sieve bed with new zeolite, checked for leakage but the purity only changed to 82%. After rechecking for leakages, I was surprised to see the valve block leaking badly despite being tightly screwed. What are some repair techniques I am missing and how can I address this issue?	Link