



Concentrator Talk - March 10, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	I have been repeatedly working on the same Oxygen Concentrator from the ward. Upon troubleshooting during both occasions, I always find that the new step-down transformer I previously replaced is burnt. What could be the root cause of such burns and the solution as well?	Link
3	I am a biomedical engineer who has been servicing Devilbiss 525 oxygen concentrators for some time. In most cases the oxygen purity goes below 80 % at 5 LPM after replacing zeolite and servicing the compressor. But the purity falls within normal ranges when you set the flow below 5LPM. Can these oxygen concentrators be recommended to be used on patients after such a service?	Link
4	I was called by a matron from the pediatric ward complaining that when she turned on an oxygen concentrator it was running but after 10 minutes it stopped and the H.T LED light was activated together with an audible alarm. When I visited the ward a few minutes later, I found the H.T. LED light and the alarm still on. The oxygen concentrator model is Oxygur . What could be the cause of this?	Link
5	I am working on an Invacare Perfect O2. The concentrator has a problem of low oxygen purity. I have refilled the beds and checked for leaks. I have also tested the compressor and it seems to be in a good working condition. However, the purity hasn't improved. What more can I do to improve purity?	Link
6	I'm a biomedical technician at a district hospital, we often have oxygen flow splitters from Pediatric Ward brought to our workshop because flow meters are filled with water and can't be adjusted properly, the water is coming from a humidifier bottle connected to an oxygen concentrator. Is there a way to avoid water accumulation in the flow meters?	Link
7	How to assemble a homemade oxygen analyzer	Link
8	What fault(s) causes an oxygen concentrator to stop working after a few seconds, i.e. compressor stops while the cooling fan still runs and the red alarm lights up.The model of the concentrator is Invacare.	Link
9	I am working on an Airsep intensity 10, I have replaced the sieve beds and serviced the compressor. I have performed leak tests and fixed all existing leaks, regardless of doing all this I can only achieve 86% oxygen purity. I am not satisfied with this purity, is there anything else I can do to improve the purity above this value?	Link

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10	Earlier today I was working on an oxygen concentrator. While opening one sieve bed, zeolite from the bed entered my eyes due to the force of the spring inside the bed. I washed my eyes with tap water but I still would like to know if there is anything else that I should do and if there are any side effects of zeolite when in contact with the body.	Link