



Concentrator Talk - July 14, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	How can one compare between oxygen concentrators and oxygen cylinders since both are used for administering oxygen therapy?	Link
3	I am a technician at a certain mission hospital, we received a donation of new olive-10 concentrators at our hospital. It has been a few months now and 1 of the concentrators at the pediatric ward raises an alarm after being switched on for some time and it gets hot, when switched off and on again, the alarm goes away but sometimes it comes back. When the concentrator was brought to the workshop, I troubleshooted it but everything was working just fine. I switched it on and observed it for 5 hours straight, it never raised an alarm and the purity was 95.6%, what might have caused the problem?	Link
4	I am an Intern at a certain district hospital in the southern region of Malawi. A faulty Canta V8-WN-NS was brought to our maintenance workshop and after troubleshooting, we came to find out that water had entered the sieve beds due to lack of one way valves. The sieve bed filters got damaged in the process and could not be re-used in the refilling process. Is there an alternative piece of material I can use for the sieve bed filters in order for me to refill the sieve beds?	Link
5	I am a biomedical technician and I am working on an Airsep elite oxygen concentrator that is producing very low oxygen purity. I have serviced the compressor and fixed existing leaks and the purity has improved from 36% to 72%. I only have zeolite that will fit into one sieve bed, will the purity improve if I only fill one sieve bed?	Link
6	I am a biomedical technician and in the past week I was testing concentrators that were stored for a few months so they can be used. Most of them had a low oxygen purity and the sieve beds needed replacing even though they had only been used for about 1600 hours or less. It is to my knowledge that domestic molecular sieve should last for about 10,000 hours. What could have caused this short life span?	Link
7	While working on a Silvii oxygen concentrator that was producing oxygen of low purity I discovered that one sieve bed was continuously producing air. What can be the problem and how can I solve this problem?	Link
8	Pilot solenoid valves	Link



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| 9 | <p>I am a biomedical technician working at a private hospital in Malawi. As I was servicing a 515 Devilbiss Oxygen concentrator, I misplaced a tube that joins the right and left sieve bed, as shown on the right top corner in figure below, that contains an orifice. In order to continue working, I replaced the tube with a tube that had no orifice. After servicing, I ran the concentrator for some time and checked the oxygen purity which never got above 70%. Then I got a tube with an orifice from another concentrator and replaced it then the oxygen purity got to 93%. Can someone explain to me what is the use of this orifice and how its absence affects oxygen purity.</p> | Link |
| 10 | <p>I am working on a Devilbiss 525 concentrator that was overheating after 20 minutes. During the maintenance process I noticed the fan was faulty. I replaced the fan with a new one but the concentrator is still overheating. What could be the cause and solution to this problem?</p> | Link |