



Concentrator Talk - February 2, 2023

#	Topic	Video Link
1	Introduction and Welcome	Link
2	Hello, I am a biomedical intern at Kamuzu central hospital. I have been working on a number of oxygen concentrators and I have noticed that most of them do not have an earth wire. I learnt that earthing equipment is important because it avoids the users from electrocution. So why is it that an oxygen concentrator, a machine that is used for saving lives, does not have an earth wire?	Link
3	Hello, I was working on a JAY 5 concentrator that registered low purity. After some troubleshooting i found out that the low purity LED still lit on even though my analyser indicated a purity of 95.6%. I tried to use various analyzers just to be sure that the fault was not on my side. All the analyzers indicated a high purity. I concluded that the sensor is faulty. The problem is that the concentrator is urgently needed in the wards. Can I just remove the "low purity" LED and give them the concentrator since I am sure it is working?	Link
4	Hello, we have a pair of non-refillable sieve beds that need to be refilled. Is it possible to modify such beds and be able to refill them?	Link
5	I was working on a DevilBiss 515 oxygen concentrator which was overheating. After troubleshooting I found out that the cooling fan was faulty. I replaced the cooling fan but despite this, it was still overheating. I checked the compressor service kits and they were okay. I also checked the intake and gloss particle filter, and they were also okay. What could be the cause of this?	Link
6	Hello, I am a biomedical intern at a certain hospital and I am working on a JAY-5 concentrator that is not powering on. After some troubleshooting, I realised that the fuse just after the power socket was damaged. The problem is that I do not have the specific fuse required (7A fuse is required). I happen to have 3.5A fuses available at the workshop. Can I arrange two of these in parallel to replace the damaged one?	Link
7	Purging Process in Oxygen Concentrators	Link
8	Hello, i was troubleshooting an AirSep Newlife Intensity 5L concentrator which was producing low oxygen (purity was 51%). I serviced the compressor, refilled the beds and inspected the tubings for leaks but the purity wouldn't increase. As I was inspecting the concentrator I noticed a label indicating that it was an 8 litre machine but the flowmeter labelled a maximum flow of 5 litres. Could this be the cause of the purity not improving and if that is true, how?	Link
9	Hello, I am working on a Devilbiss 525 that is producing low purity. I serviced the compressor and refilled the sieve beds and put the concentrator and tested it for two hours. After running for an hour, the concentrator shut down and became quite hot. I found that the fan was stuck and I replaced it with a new one but the overheating problem persisted. How can I solve this problem?	Link

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10	Hello there! We have a jay 5 oxygen concentrator with no oxygen flow at the patient outlet port of the concentrator when the machine has been turned on. How can we tackle this issue?	Link