



Concentrator Talk - June 30, 2022

| # | Topic | Video Link |
|---|--|----------------------|
| 1 | Introduction and Welcome | Link |
| 2 | I am a biomedical engineer, as I was assessing oxygen concentrators in the wards of a certain hospital, I came across an Airsep concentrator that was on a patient that was producing so much noise and the Low Oxygen LED was on. When I listened to the concentrator the sound seemed to be coming from 1 of the sieve beds since it was leaking. When I took the concentrator for an assessment at the workshop I found out that the pipe that was supposed to be connected to the bed was loose. What might have caused this and how can this be prevented? | Link |
| 3 | I am a biomedical technician at a district hospital, I was working on an Everflo Respironics concentrator. The concentrator had a problem of sieve beds blocking air from the compressor, I found this out after assessing the concentrator. I opened the beds and removed the zeolite. I found lamps inside the beds and the zeolite had a lot of powder. I cleaned the beds and refilled them, then I installed them back into the concentrator. After making all the connections, I switched on the concentrator and the valves were switching fine, no more blocking of air in the beds and the purity was 95.6%. When I closed the concentrator and switched it on for a 2 hour test the concentrator raised an alarm, the yellow and red LED were on and the purity started dropping, the concentrator was even getting hot. What might have caused this and how can I solve this problem? | Link |
| 4 | Airsep 5Lpm oxygen concentrator is giving low purity with a fluctuation of between 60% to 50%. I serviced the compressor and changed the zeolite. Purity improved to 93% with a fluctuation between 93% to 85%. considering that this isn't OK. What can be the problem and how can I rectify this? | Link |
| 5 | How do you fix the problem with compressor relief valve purging continuously? This month I have revived 5 oxygen concentrators of different models. And 2 of them have purging problems. | Link |
| 6 | Am working on a 5LPM Devilbiss oxygen concentrator, I just refilled the sieve beds with new zeolite, and I wanted to do a pressure test before I do a purity test to make sure that the pressure at the outlet is within a recommended psi. Typically the ball in the flow meter has to drop down to the base of the flow meter if you close the patient outlet but in my scenario, whenever I put a pressure sensor on the patient outlet, the ball in the flow meter does not drop down to the base of the flow meter , and when i switch the concentrator off, the ball drops down to the base. What can be the problem and how can I fix it? | Link |
| 7 | Oxygen concentrator alarms | Link |
| 8 | We have had a Longfian Jay 5 in our maintenance workshop for over six months now. The problem with this concentrator is that the compressor is damaged beyond repair and needs replacement. Currently we have a compressor from an AirSep model, a Thomas 2660, is it okay if we retrofit the 2660 compressor into the Longfian Jay 5? | Link |

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| 9 | What is the use of an Hour Metre? | Link |
| 10 | I am a biomedical technician and I was servicing Oxygen concentrators this week when I came across a Devilbiss 525 concentrator which had the low Oxygen purity LED ON and after a thorough troubleshooting I found out that there was water in the product tank. What could have caused this and how can this problem be solved? | Link |