



Concentrator Talk - May 26, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	I am a technician at one of the district hospitals in Malawi, I was working on DeVilbiss 515 that was bringing a “need service alarm”. I changed the sieve beds and serviced the compressor. The purity went up to 95% but after running for some time, the service alarm came back. How can I solve this problem?	Link
3	I was reading through the User manual of an Invacare oxygen concentrator. I came across a warning that advised one to not use the oxygen concentrator close to equipment that produce harmful radio frequency interference such as speakers, MRI or CT etc. I wanted to know how exactly an oxygen concentrator may be affected by radio frequency interference.	Link
4	Hello, I am a biomedical technician at a certain clinic in Malawi. I was conducting preventive maintenance on an Airsep elite Oxygen concentrator. This concentrator was producing a purity of 89% but its sieve beds had been refilled with new zeolite the previous week and the compressor was serviced too. I removed the covers to check for leakages and found that there was a leakage on the tube that is connected to the input of the product tank. I was removing the tubing from the tip of the tank when the tubing was connected broke. Unfortunately, we do not have spare product tanks of this type in the workshop. Can I replace the product tank with the one from another concentrator model, let's say Devilbiss 525 concentrator product tank?	Link
5	I Am a Biomedical Engineer working at a certain hospital. I was working on Airsep Newlife Intensity. Upon assessing the concentrator,I found everything working perfectly except the four way /Solenoid valve. The solenoid valve seems to be underperforming When wasting. I tried to measure the voltage, all were giving out 198VDC with the internal resistance of 3.2 kilo ohms but still the solenoid valves seem to be faulty, specifically the wasting part. What could be the problem and how can I solve that?	Link
6	I am a biomedical technician intern at a certain clinic. Last week a certain nurse brought to the workshop an Airsep intensity concentrator to be serviced. When I switched on the concentrator and ran it for some time, I noticed that the low purity or high pressure LED was ON the whole time but there was no sound of the buzzer. Can someone explain to me why this was happening and what should I do?	Link
7	I am a biomedical engineer at a certain district Hospital. I have been working on a 515 DeVilbiss, I switched it on and I measured the purity and pressure. When I closed the patient output with my finger the flowmeter ball didn't drop to zero,and I could hear oxygen escaping. After performing a leakage test,I discovered that the final bacteria filter is cracked, I do not have a new final bacteria filter to replace it with. Can the concentrator function properly without it?	Link
8	Sieve Bed Refilling Process: Part Two	Link

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9	I am a biomedical engineering technician at Namitete health center and I am making a list of spare parts to be purchased. Among these spares are the pressure regulators. Can someone enlighten me on the factors that must be considered when choosing pressure regulators for different concentrators?	Link