



Concentrator Talk - August 4, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	While working on the DeVilbiss 525 oxygen concentrator, I observed that the compressor heated up and the oxygen purity was low. Are these two observations connected? If they are, how does the compressor heat affect the purity of oxygen?	Link
3	What pressure is necessary in an oxygen concentrator to separate oxygen from nitrogen?	Link
4	I work as a technician at a certain district hospital, and I noticed a sound coming from the compressor that sounded like some air was escaping due to high pressure. When I asked my fellow technicians what it was, one of them said it was a relief valve. What is a relief valve, and what is the purpose of having one on an oxygen concentrator compressor?	Link
5	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 broken. 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
6	I am working on a devilbiss 525 oxygen concentrator. I have serviced the compressor and refilled zeolite as part of service, but there is a little improvement in oxygen purity. I assumed it was the circuit board, Sieve beds and compressor that are misbehaving, I exchanged with the best performing ones and no improvement was observed. Apart from worn out compressor kits, degraded zeolite, low power voltage, higher temperatures, what other factors can affect oxygen purity?	Link
7	Different tools used when repairing an Oxygen Concentrator	Link
8	I am a technician at a certain hospital. I was working on airsep intensity compressor. I replaced the old kits with the new ones. But surprisingly I was getting a weird sound from the compressor. How can I address that?	Link
9	I am a technician working on a 525 devilbiss oxygen concentrator. Despite having a one-way valve before the patient outlet I found water in the tubing and oxygen sensor. How did this come to happen?	Link



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10	<p>I am a biomedical engineer working at a certain mission hospital. I have come across an olive concentrator model YS-501. The compressor switches off periodically, I tried opening the concentrator up to troubleshoot it. I later thought of replacing the capacitor, which I did and the compressor behaved the same way, it kept shutting down. Later on I discovered that the compressor cabinet was made of plastic and there was some heat being produced, surprisingly the fan was functioning properly. Then I unscrewed the compressors' cabinet and removed it, exposing the compressor. When I turned on the compressor it was able to run for more than 30 minutes without shutting down. Then I placed the compressor cabinet back and the problem resurfaced, what can be the problem and how can I fix the concentrator?</p>	Link