



Concentrator Talk - July 7, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	I was working on a Devilbiss 515 oxygen concentrator which is producing 82% oxygen purity after servicing its compressor and refilling its sieve beds with new zeolite. After troubleshooting, I discovered that the one valve between the flowmeter outlet and the patient outlet was leaking. I removed the valve and just connected the pipe directly and the performance improved to 94.5%. My question is, is it okay to use the concentrator without having the one way valve? For I do not have any to replace with.	Link
3	Hi, I have a patient that says that her Oxypure machine does not alarm when power goes off during load shedding. What could be the cause?	Link
4	The valve block of an Airsep intensity 10 that was brought to our maintenance workshop was discovered to be faulty. After assessment only one valve of the four valves is damaged. I have a spare equalizer valve from one AirSep intensity 10 that we scavenge parts from. Is it okay if I use the coil of this equalizer valve to replace the damaged coil on the valve block?	Link
5	I was working on a DeVilbiss 515 that was illuminating a red "Service required" light on its front panel and the light was being accompanied by an audible beeping alarm. I changed the sieve beds and serviced the compressor. The purity went up to 95.6% but after running for about 7 minutes, the service alarm started beeping again. What could be the problem and how can I solve it?	Link
6	While doing preventive maintenance on a DeVilBiss 515 I noticed that I had reversed the direction of a micro disk bacterial filter. I just wanted to know what the effects of reversing a bacterial filter are?	Link
7	When I was carrying out a preventive maintenance in the children's ward, I came across this oxygen concentrator which was working perfectly, the oxygen purity that this concentrator was producing was within the recommended range but the Light Emitting Diode (LED) for low purity was illuminating, any idea why the LED was illuminating?	Link
8	Pulse flow	Link
9	Hi, I have an Oxyflow 5 that has a low oxygen purity in our workshop. As a repair procedure I removed the cover and found the unit filled with white powder. I traced and found that it was coming from the sieve beds. I then replaced the sieve bed, blew out the powder out of the valve and cleaned out the zeolite that was inside the machine and the tubes. After all this the purity remains at 40%. What can be the cause?	Link
10	We have an Oxypure machine at our facility that works well when being used at 3-5LPM, but alarms and gives a 'low flow' error when it is run at 1-2LPM. What could be the cause of this?	Link



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11	I have been repeatedly working on the same Oxygen Concentrator from ward. Upon troubleshooting during both occasions, I always find that the new step-down transformer I previously replaced is burnt. What could be the root cause of such burns and the solution as well?	Link