



Concentrator Talk - March 3, 2022

| # | Topic | Video Link |
|---|--|----------------------|
| 1 | Introduction and Welcome | Link |
| 2 | During a planned preventive maintenance that I was carrying out this week, I came across an oxygen concentrator that had a power failure problem. This concentrator had both the power failure alarm and power failure red LED but both the LED and alarm could not be activated before and after rectifying the fault even if the unit could be disconnected from power while the switch is turned on. What could cause the alarm and the LED not to be activated? | Link |
| 3 | We received two similar questions here but we'll use the same answer: (A) An oxygen concentrator from HDU has a compressor with blown windings and its maximum pressure rating is 87 psi . In the workshop we have another oxygen concentrator with burnt control board but its compressor is working fine and is rated 76 psi as its maximum pressure. The two compressors have the same dimensions and positions of intake and exhaust ports. Is it possible to swap the compressors? (B) I am a biomedical technician of a certain district hospital. I have a concentrator which was producing a loud noise from the compressor. I am also getting low flow, low pressure and low purity on this concentrator. I have two spare compressors of the same model from my oxygen concentrator graveyard which I would like to replace the worn-out compressor with. Would you advise me on a test I would carry out to know which of the two compressors is in a better condition. | Link |
| 4 | I am a nurse at a public hospital. I have a new patient that requires oxygen therapy but we have run out of the distilled water that we use to fill the humidifier bottles. Can I use tap water in the meantime? | Link |
| 5 | I am working on a Devilbiss 525 concentrator that was overheating after 20 minutes. During the maintenance process I noticed the fan was faulty. I replaced the fan with a new one but the concentrator is still overheating. What could be the cause and solution to this problem? | Link |
| 6 | I have an oxygen concentrator that has a problem of low oxygen. I refilled the beds and serviced the compressor just like in your video. Upon replacing the compressor back I noticed that the sound has changed and it is noisy. What might have caused this and how do I resolve it? | Link |
| 7 | Negative impacts of dust on oxygen concentrators | Link |



Concentrator Talk - March 3, 2022

| # | <u>Topic</u> | <u>Video Link</u> |
|---|--|----------------------|
| 8 | <p>I'm a biomedical technician at a private hospital. I received an oxygen concentrator from the theater with a complaint that when switched ON there was no oxygen flowing out of the concentrator though the compressor was running and that it goes off automatically after some minutes. When I turned on the concentrator, I heard the sound of pressurized gas inside the concentrator. When I opened the concentrator, I found all tubes intact and with no kinks but the air was being released through the relief valve. I then disconnected the tubes that go to the sieve bed outlets and there was no air flowing out of the sieve beds but when I removed the pipe from the outlet of the compressor, air was being released through the exhaust port instead of the relief valve. What could be the cause of this problem?</p> | Link |