



Concentrator Talk - May 5, 2022

#	Topic	Video Link
1	Introduction and Welcome	Link
2	I was working on a deVilbiss 1025UK oxygen concentrator which had a damaged compressor start/run capacitor. I had to test the concentrator after replacing the capacitor and I noticed that the concentrator was making some pulsating noise. What could be the cause of this noise?	Link
3	I am a biomedical technician working in Malawi. I have received an SKOC-8 oxygen concentrator from Ikwanga private Hospital that is displaying E05 and the yellow light is turning on whenever the oxygen concentrator is turned on. I am currently searching for the manual for this oxygen concentrator. Is there anyone who knows the problem associated with this error message?	Link
4	We have an oxygen concentrator that requires a replacement of an exhaust muffler. In our workshop we have mufflers that are bigger in size and others that are smaller in size than the required muffler. Is it advisable to interchange the size of the muffler , if not why?	Link
5	I am working on a DeVilBiss 515 oxygen concentrator and it has a rotary valve problem. At first I thought the problem was the rotary valve but after testing it on another oxygen concentrator, the rotary valve is performing. I am thinking the problem is the Control Board, how can I troubleshoot to confirm this?	Link
6	Airsep intensity 10 LPM keeps turning On and Off unnecessarily. What could be the problem and how can one solve this problem?	Link
7	I am a technician at a district hospital. Yesterday, I received a deVilbiss MC44 from the male ward. The nurses complained that it was making a certain sound as if air was leaking. After troubleshooting, I noticed that the relief valve on the compressor was kicking in. This was caused by the faulty solenoid valve that controls the flow of air from the compressor to the sieve beds. I unscrewed the covers of the concentrator and I noticed that the solenoid valve was different from that from the deVilbiss 515 and 525 . There is a picture of the solenoid valve attached below. Please assist in explaining how this type of solenoid valve works and how it can be fixed. (the answer will focus on pressure controlled pneumatic valves.	Link
8	I am working on a Respironics oxygen concentrator that was malfunctioning. After troubleshooting the concentrator, I discovered that its fuse had blown out and I do not have a spare fuse to replace it. Is it proper to just use a wire for the meantime?	Link
9	Flow Splitter Use and Infection Prevention	Link



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#	<u>Topic</u>	<u>Video Link</u>
10	I am a technician at a district hospital. I have been working on different concentrator models and I have found out that there are different types of solenoid valves used in these concentrators. Some of these concentrator models use rotary valves while others use solenoid valves. What is the difference between the rotary valves and solenoid valves?	Link
11	I am a biomedical engineer at a certain private Hospital, I was working on a 515 Devilbiss concentrator. It was performing well after I finished fixing it and it was giving out 92.0% at 5 Lpm after a 2 hour test. A nurse came to collect it from the workshop, to use it on a patient. When they switched it on and connected a humidifier bottle in the ward, the flowmeter ball wasn't rising above 3lpm. The ball could drop to 1lpm but it couldn't go above 3lpm, what could have caused this?	Link