



Concentrator Talk - July 21, 2022

| # | Topic | Video Link |
|---|---|----------------------|
| 1 | Introduction and Welcome | Link |
| 2 | I am working on an Airsep Newlife elite oxygen concentrator and I want to service the compressor but I do not have spare cylinder sleeves to replace the worn out sleeves. Can I reuse the worn out cylinder sleeves? | Link |
| 3 | An AirSep intensity 10 oxygen concentrator was brought to the maintenance workshop. I measured the oxygen purity with an analyzer and it was fluctuating between 87.5% and 92%. After troubleshooting, it was discovered that the one way valve placed near the outlet of the concentrator was damaged and it needed replacement. The hospital does not have any spare one way valves available. There's a damaged DeVilbiss 525 concentrator in the workshop that we scavenge spare parts from. Is there any problem if I take a one way valve from the DeVilbiss 525 and place it in the AirSep concentrator? | Link |
| 4 | During routine maintenance of a Longfian Jay-5 concentrator I noted that the copper pipe found on the cooler section was partially cut off just near one of the fins. Is there a simpler way to solve this problem than soldering with a copper rod? | Link |
| 5 | Am a newly employed biomedical engineer, I was assessing concentrators at a health center that has a covid unit too. I found OLV-5 concentrators that were being used in the wards and covid unit. The nurse incharge complained that the concentrators get hot after running for a short time. When I checked them out I found that the concentrators were being used while placed in a foam as shown in the figure. When I asked why they placed the concentrators in the foam I was told that they were preventing water and other dirt from getting to the concentrator. Upon removing the concentrator from the foam and opening it up, I saw that the base started melting. What might have caused this and how can it be resolved? | Link |
| 6 | Hello, at our workshop we have 3 Oxygen concentrators that are in good shape but the only problem is that they do not have power cables. Can I use a cable made for a laptop charger or a Television screen on these concentrators? | Link |
| 7 | I have a DevilBiss 1025 oxygen concentrator that was brought to the workshop for fixing. It was suspected that water got to the sieve beds and when the concentrator was running the water got to the control board and caused a short circuit. I replaced the burnt board with a new one. I switched the concentrator on and immediately the new board got burnt again immediately. I bought another one and am afraid to lose it. What steps can I follow to save my Oxygen Concentrator? | Link |
| 8 | Oxygen Concentrator Maintenance Standard Operating Procedure (SOP) | Link |
| 9 | I was servicing a compressor on a Devilbiss 525 oxygen concentrator. After servicing it, I switched on the concentrator but the compressor was not spinning. What could be the cause and how can I solve this problem? | Link |



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| 10 | 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 underperforming 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 |
| 11 | I am a biomedical engineer and I am currently working on an Airsep. The oxygen concentrator was giving low oxygen purity levels so I refilled the sieve beds. After testing the concentrator, the purity was still low so I then serviced the compressor. The purity is below 80% at 5 LPM but falls within normal ranges when I set it below 5LPM. Can the oxygen concentrator still be recommended to be used on patients ? | Link |