



STEPS TO CHOOSE THE CORRECT OXYGEN CONCENTRATOR

A PRESENTATION COMPILED BY BIO MEDICAL
ENGINEERS OF ENTRUSTED MEDICAL DEVICES

FLOW RATE & DURATION OF OXYGEN TO BE INFUSED TO THE PATIENT



FLOW RATE IS THE QUANTITY OF OXYGEN REQUIRED BY THE PATIENT TO MAINTAIN A GOOD OXYGEN SATURATION. IT WILL BE IN LPM (LITERS PER MINUTE)



TALK TO YOUR DOCTORS AND FIND OUT THE EXACT VALUE. IN MAJORITY OF THE CASES, IT WILL BE BETWEEN 1 TO 5 LPM AT TIME OF DISCHARGE. FOR SOME, IT MAY BE EVEN MORE DEPENDING UPON THE LUNG COMPLEXITY



DURATION. ASK YOUR DOCTORS THE EXACT TIME INTERVAL IN WHICH THE PATIENT NEEDS TO BE WITH OXYGEN SUPPORT. SOME WILL REQUIRE THROUGHOUT THE NIGHT, SOME MAY REQUIRE 24X7 & SOME MAY REQUIRE ONLY AT INTERVALS AND FINALLY SOME WILL CONSUME WHENEVER THEY FEEL TIRED OR SPO2 LEVELS DROPS.

PURITY – OXYGEN CONCENTRATION

- This is very important. A standard oxygen concentrator with good build and quality will deliver 93% +/- 3% in all flow rates from 1 to 5 LPM.
- Do not get fooled by low cost cheap concentrators. They usually cheat the customers by telling you they have lightweight model with high flowrates like 1 to 7 LPM, but their hidden agenda is to sell you a product which will deliver oxygen purity at only 1 LPM. As we increase the flow, the purity will drop to 30% whereas our ambient air will have 21% oxygen. This will cause harm to the patient and during times of emergency, he / she may not receive the required oxygen concentration.
- A good oxygen purity producing oxygen concentrator should be equipped with excellent quality molecular sieve (the membrane which will separate nitrogen from air) & heavy duty compressor to flush out nitrogen and retain pure oxygen inside the container.
- Simple solution – A good vendor will demonstrate the purity of oxygen from the outlet using an oxygen analyzer.

Weight, Transportability, Noise level

- Now that we have understood about the flow rate and purity which are major attributes of an oxygen concentrator, now let us look into the additional features.
- Weight – Home Care or Transport. If you would like to keep the patient at home and administer oxygen, settle for only the electrical models which weigh between 15 to 20 kgs. The reason asking you to settle for these machines is that a heavy machine in this range will have a perfect heavy duty compressor and overall build will be excellent. Any concentrator less than 20 kgs in medical terminology is considered to be a portable oxygen concentrator and will be equipped with wheels for easy maneuverability
- Oxygen Concentrators though equipped with compressors will provide excellent noise cancellation using perfectly designed vents and noise cancellation techniques. You will not have issues with majority oxygen concentrators due to noise issues until the compressor is worn out and starts to give heavy noise due to friction. At that instant, a proper service may be required from the company end.

Extra Options

- The more, the better. Several oxygen concentrators have inbuilt nebulizer ports and for those of you who feel this is not required, you may in future if the doctor starts prescribing lung medicines which need to be inhaled in atomized format.
- Since oxygen concentrators use a compressor for oxygenation, several brands have incorporated a built in nebulizer as it will reduce the burden of the end user to purchase a separate nebulizer with a small compressor.
- There are digital oxygen concentrators which are now widely used by many people. It all depends on the individual choice. If looks don't matter, you can settle for the analog version. If you want to use an oxygen concentrator which looks good and works good, you can go for the digital version by paying an extra premium. You will get to see the output flow rate and oxygen purity on the device display. Rest of the working remains the same.

Do's & Don'ts

- Always cut the bottom tag or release the Velcro at the bottom of the device. If you purchase from a reseller or someone who does not know about the oxygen concentrator, your product will end up getting fried because the compressor tag will be present in all brands and models. It is mandatory to remove them before use.
- Allow adequate spacing on all sides of the oxygen concentrator to enable the heat generated to escape freely.
- Give a mandatory break of 15 to 20 minutes once after every 8 hours usage to allow the compressor to cool down thereby increasing its long life.
- Clean the filters properly, dust it every weekend and place them back carefully.
- Once you get any error alarms, call our customer support and small issues can be resolved easily at the starting stages without much effort.
- If you experience voltage fluctuations or voltage more than 220V +/- 10 V in your usage area, kindly purchase a 1.5 KVA Medical Grade Stabilizer which will limit the output to 220V at all input ranges.

Choose Entrusted – Pioneers in Oxygen Concentrators.

- With all said, kindly scroll to the order section & purchase your oxygen concentrators from us & allow us to offer you a premium service & best equipment which already been used in majority of the Indian Household.

