

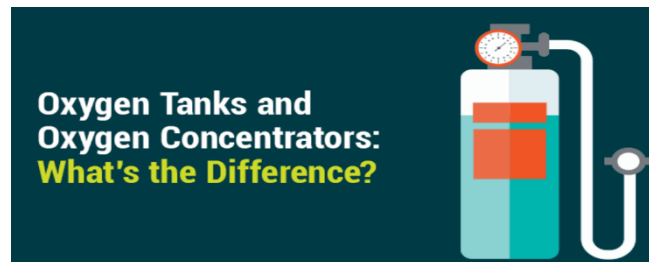
PRODUCT PROFILE: OXYGEN CONCENTRATORS



Oxygen concentrators????

An oxygen concentrator is a medical device that concentrates oxygen from ambient air. Atmospheric air has about 78 per cent nitrogen and 21 per cent oxygen, with other gases making up the remaining 1 per cent.

It's only a little bigger than a computer monitor, yet as cases surge and with oxygen cylinders in short supply across several states, the concentrator is among the most sought after devices for **oxygen therapy**, especially among patients in home isolation and for hospitals running out of oxygen.



Oxygen concentrators are the easiest alternatives to cylinders but can only supply 5-10 liters of oxygen per minute (critical patients may need 40-50 liters per minute) and are best suited for moderately ill patients. Concentrators are portable and unlike LMO that needs to be stored and transported in cryogenic tankers, need no special temperature. And unlike cylinders that require refilling, concentrators only need a power source to draw in ambient air.

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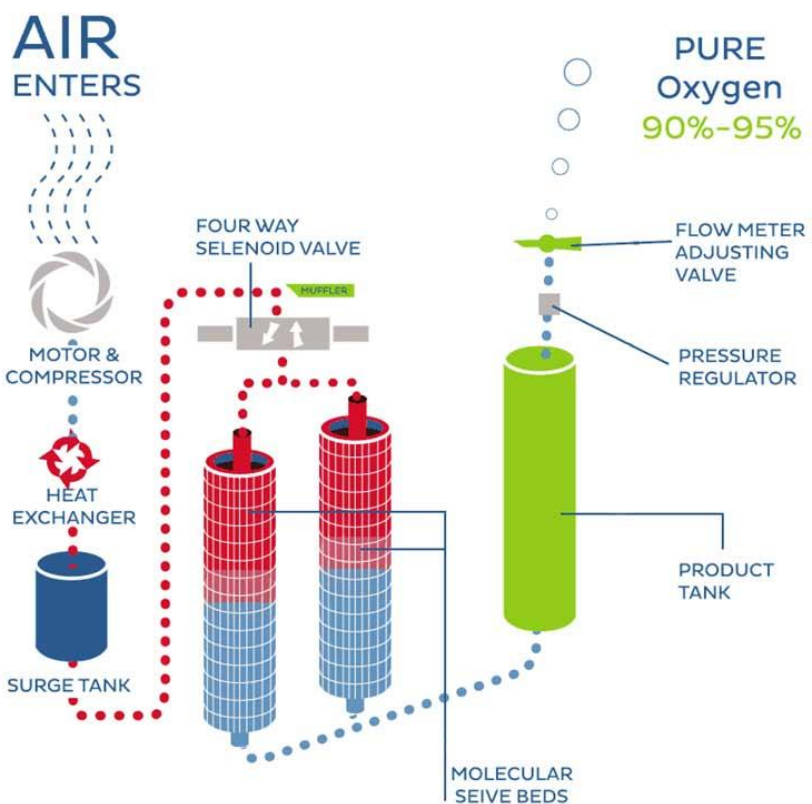
How Are They Helping The COVID-19 Patients?

As most of the states in India are facing scarcity of oxygen right now, Oxygen saturation level between 94-100 percent is considered safe and healthy.

These concentrators are effective on patients whose saturation level doesn't drop below 90 percent, but they can be of help even for those with oxygen saturation dropping as low as 85 percent. Patients, whose oxygen level drops below this point, will require a better flow of oxygen than these concentrators can offer.

How an Oxygen Concentrator Works

1. Takes air from the room.
2. Compresses the oxygen.
3. Takes out nitrogen from the air.
4. Adjusts the way the air is delivered.
5. Delivers the purified air.



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TECHNICAL SPECIFICATIONS

Power: AC220V@50Hz, 400VA

Flow range: 0.5–5.0 LPM

Oxygen concentration: 95.5% - 87%

Output pressure: 40–70 kPa

Operating noise: 48 dB (front), 52 dB (overall)

Net weight: 15.5 kg