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Exalta develops portable ventilator with inbuilt oxygen concentrator

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New Delhi-based Exalta has developed a portable mini ventilator with an inbuilt oxygen concentrator. A water-based pure oxygen concentrator, the mini ventilator provides 1-8 litres of oxygen per minute. All that one needs to do is put water inside the ventilator and rest it'll process on its own.

It creates pure oxygen through the water like other oxygen concentrators found in the market based on normal pressure swing adsorption (PSA). They consist of a pressure exhaust mechanism that draws oxygen from normal air with a zeolite process. Zeolite is the process that purifies the air and removes other gases into a compressor.

An effective way to process oxygen through water, consumption of this air for 15 minutes, shows an increase in oxygen level, flow rate, perfusion index (PI) level, and other functions in the body. It also helps in treating health problems like Alzheimer's, diabetes, toxicity, among others.

Speaking about the launch Ashutosh Verma, Founder Exalta India, said, "This product works as an oxygen concentrator, compressed oxygen, and mini ventilator which is 100 per cent made in India with no foreign components used. It's portable, handy, and easy to carry. In the last three days, we have got more than 200 orders and also, we have started manufacturing oxygen concentrators for hospitals and nursing homes. The machines use pressure swing adsorption (PSA) technology and come in three variants viz 50 ltrs, 100 ltrs, and 200 ltrs per minute."