



How to Select Your Oxygen Concentrator Machine

BOOK

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Oxygen Concentrator UAE
High Purity Oxygen Concentrators





Oxygen Concentrator Types

There are 2 Types of Oxygen Concentrators:

- Home Use Oxygen Concentrator
- Portable Oxygen Concentrator





1) Home use Oxygen Concentrator

Also called Stationary type or Electrical type oxygen concentrator which use electricity for operation

All Home oxygen concentrator are (CONTINUES MODE) machines means the machine can generate oxygen whether it is used by the patient or not.

So in (CONTINUES MODE) home oxygen concentrator machines, if you switch on the Home oxygen concentrator machine, its start generate oxygen automatically whether or not it is connected to the patient, so the home oxygen concentrator will generate higher flow oxygen unlike the (PULSED MODE) machines which generate oxygen ONLY when used or stimulate by the patient's breath as there is a sensor which sense the breath coming out from the patient, so if there is a breath the machine can sense it & will give oxygen, if there is no breathe there will be no oxygen so the oxygen coming out from small pulsed machine are very low compare to big continues machines. So the pulsed machine may or may not be suitable or you according to the medical case.

In general, there are 2 models of home oxygen concentrators: the first type can generate up to 5 LPM and the second type can generate up to 10 LPM

According to the medical case or the doctor requirements the patient can select the model in term of LPM (Litre per Mint), for example if the patient needs 3 LPM he is recommended to buy the machine which generate up to 5 LPM so he can select the oxygen flow rate to 3 LPM by the knob switch as in 5 LPM machine the flow rate can be selected from 1 LPM to 5 LPM according the requirement.

Same thing for example if the patient needs 8 LPM he is recommended to buy the machine which generate up to 10 LPM so he can select the oxygen flow rate to 8 LPM by the knob switch as in 10 LPM machine the flow rate can be selected from 2 LPM to 10 LPM according to the requirement.





Oxygen Concentrator 5 LPM
Model: Devilbiss Compact 525



Oxygen Concentrator 10 LPM
Model: Devilbiss Compact 1025

Home use Oxygen Concentrator Models

A) 5 LPM Machine

- Model: Compact 525
- Brand: Devilbiss - USA
- Up to 5 Liter per mint as (Continues Mode)
- Oxygen Flow setting: 1 to 5 LPM

B) 10 LPM Machine

- Model: Compact 1025,
- Brand: Devilbiss - USA
- Up to 10 Liter per mint as (Continues Mode)
- Oxygen Flow setting: 2 to 10 LPM





2) Portable Oxygen Concentrator

- Also called mobile type oxygen concentrator which use electricity and also battery
- portable oxygen concentrator can be (CONTINUOUS MODE) or (PULSED MODE) or BOTH
- unlike home use oxygen concentrator, the higher (CONTINUOUS MODE) in portable oxygen concentrator is 2 LPM or 3 LPM as in model: iGo from Devilbiss Brand. Also, it can be up to 6 LPM as (PULSED MODE).
- Smaller size portable oxygen concentrator which weight 2.5Kg approx. will be only (PULSED MODE) which may needed by only for some patients according to the medical case as it has lower oxygen flow and in pulsed mode, so patient who need low dose of oxygen they may go for small size machines with pulsed dose that will be always according to the medical case and to the doctor recommendation.
- To understand the difference between (CONTINUOUS MODE) & (PULSE MODE), for example in (CONTINUOUS MODE), if you switch on the oxygen concentrator machine, its start generate oxygen automatically whether it is connected to the user or not, so in (CONTINUOUS MODE) the machine will generate higher flow oxygen unlike the (PULSED MODE) machines which generate oxygen ONLY when used or stimulate by the user's breath.



- So with the machine which have only (PULSE MODE), it's generate low dose compared to the machines with (CONTINUES MODE)
- According to the medical case, many users are not recommended to used machines with only (PULSE MODE) implemented.
- machines with only (PULSE MODE) are small machines as it generates low oxygen dose as it has small generator and pulse dose mode,
- always make sure whether you need to use pulse or continuous mode for the maximum benefit.
- Don't look only to the weight and the size of the machine, but to your medical requirement in the first place.
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Portable Oxygen Concentrator
Model: Devilbiss iGo



Portable Oxygen Concentrator
Model: Zen-O (Continuous / Pulse) Modes

Portable use Oxygen Concentrator Models:

Two modes models (Continues with Pulse)

A) Model: iGo, Devilbiss Brand – USA as follows details:

- Modes: 2 Modes (Continues & Pulse) you can change between modes by a push of button
- 3 LPM as (Continues Mode)
- 6 LPM as (Pulsed Mode)
- Battery duration: up to 5.4 hours with single battery & 10 hours with dual battery depending on the selecting the modes and the oxygen flow rate*
- As the machine generate 3 LPM Continues model the machine weight is 7 kg approx.

B) Model: ZEN-O, GCE Brand – U.K as follows details:

- Modes: 2 Modes (Continues & Pulse) you can change between modes by a push of button
- 2 LPM as (Continues Mode)
- 6 LPM as (Pulsed Mode)
- Battery duration: up to 4 hours with single battery & 8 hours with dual battery depending on the selecting the modes and the oxygen flow rate*
- As the machine generate 2 LPM Continues model the machine weight is 4 kg approx.

*According to the model, 2 batteries can be connected to the machine at the same time or can be replaced with the running out primary battery.





Portable Oxygen Concentrator
Model: Devilbiss iGo2



Portable Oxygen Concentrator
Model: Zen-O Lite (Pulse) Mode

Portable use Oxygen Concentrator Models:

One mode models (Pulse)

A) Model: iGo2, Devilbiss Brand – USA as follows details:

- Modes: 1 Mode (Pulsed)
- 5 LPM as (Pulsed Mode)
- Battery duration: up to 4 hours approx. with single battery & 8 hours approx. with dual battery depending on the selecting the modes and the oxygen flow rate*
- As the machine is PULSED model the machine weight is 2.2 kg only.

B) Model: ZEN-O Lite, GCE Brand – UK as follows details:

- Modes: 1 Mode (Pulsed)
- 5 LPM as (Pulsed Mode)
- Battery duration: up to 4 hours approx. with single battery & 8 hours approx. with dual battery depending on the selecting the modes and the oxygen flow rate*
- As the machine is PULSED model the machine weight is 2.5 kg only.

*According to the model, 2 batteries can be connected to the machine at the same time or can be replaced with the running out primary battery.



How to Select your Oxygen Concentrator Model

If you or a loved one requires oxygen therapy on a regular basis, there's a good chance you're already familiar with the oxygen concentrator, which has been around for decades. Specifically designed to collect oxygen and nitrogen from ambient air and deliver it to a patient as safe, oxygen-enriched air for easier breathing after quickly filtering the air.

So, how exactly do oxygen concentrators function? What are their advantages and disadvantages? In order to operate, the device must first draw in ambient air (which is primarily composed of nitrogen and oxygen). Afterwards, the air is passed through a series of filtering apparatuses that remove nitrogen while purifying the oxygen. A pressure regulator, which regulates the flow of air, is then used to deliver purified oxygen to the patient through oxygen tubing and a mask or nasal cannula, which allows the patient to breathe normally.

Because of their widespread use and obvious utility, oxygen concentrators are numerous and diverse in terms of their features and advantages. Taking this into consideration, finding the right product to meet the needs of you or a loved one may appear to be a difficult task. This article will provide you with some essential information and assist you in determining which oxygen concentrator is the best fit for you by outlining some of the most important features and benefits to take into consideration.

What to Look for

Various oxygen concentrators have a variety of different features and benefits, which can make them suitable for different patients depending on their specific needs and circumstances. We've created a list of some of the most important variables to consider, which will guide you through the process and allow you to select the best concentrator more easily for your requirements.

Flow Rate (in liters per minute)

The flow rate capabilities of an oxygen concentrator are unquestionably one of the most important factors to consider when making a purchase decision. It is the rate at which oxygen can travel from the machine to the patient that is referred to as the "flow rate."

The ideal flow rate for a patient is typically recommended by a doctor, so it is recommended that you consult with your doctor before making any decisions about an oxygen concentrator purchase.

Certain oxygen concentrators may have lower flow rates (in the range of 251 to 750 milliliters per minute approx), whereas others may have higher flow rates (in the range of 1,000 to 2,000 milliliters per minute) (such as the 2 to 10 liters per minute range). Given the fact that not all oxygen concentrators offer the same range of flow rates, it is critical for customers to thoroughly research the flow rates offered by a product before making a purchase.



Continues or Pulse machine?

Patients with respiratory illness may require supplemental medical O₂. When your doctor writes a prescription, they will indicate the number of liters of oxygen delivered per minute (LPM) that you require. The LPM required will help determine whether a pulse dose or continuous flow oxygen concentrator best suits your needs and case

Portability

Consider how mobile you will need your oxygen concentrator to be when looking into oxygen concentrators. This is one of the first and most important factors to consider. Oxygen concentrators are available in a variety of sizes and portability options.

Some units are high-powered products that are designed to work hard and provide higher flow rates, but they are typically larger and heavier in order to accommodate their larger and heavier design. These models are frequently designed to deliver **higher flow rates**, and they are **continues mode** thus they are an excellent choice for in-home applications.

There are a variety of portable oxygen concentrators on the market. These portable oxygen concentrators, which typically weigh between 2.5 kgs and 8 kgs, make trade-offs in terms of higher flow rates in order to be significantly easier to transport and use while on the go. As a result, they are an excellent choice for patients who do not require high rates of oxygen delivery

So if you need more than 2 or 3 LPM as a continues rate), better to go for home use oxygen concentrator (stationary electrical type) as portable mobile type with battery oxygen concentrator oxygen concentrator which generate up to 5 LPM or up to 10 LPM (as a continues mode)

The concentration of oxygen

The oxygen that is delivered to the patient has a specific percentage of oxygen content because it has been compressed and filtered within an oxygen concentrator. Alternatively, the oxygen concentration is referred to as this value. The number and design of the filtration systems included in your oxygen concentrator, as well as the effectiveness of the concentrator's nitrogen-removing sieve system, all have an impact on the level of oxygen concentration you can achieve with it.

While most oxygen concentrators have oxygen concentration values ranging from 87 to 99 percent, it is important to note that the value can vary between different oxygen concentrator models. Patients who require high oxygen flow rates typically require higher oxygen concentrations, whereas patients who require lightweight, portable oxygen concentrators for use on the go do not typically require the highest oxygen concentrations, which is why higher-powered products are typically more expensive.



Can you sleep while using an oxygen concentrator?

A: Yes, it is possible.

In a word, yes. Nevertheless, in order for you to be able to sleep while using your oxygen concentrator, your doctor will most likely want you to participate in a sleep study in order to determine the optimal flow rate for you. In the following step, you'll want to choose a concentrator that's quiet enough so that you can sleep peacefully while it's running.

How long do most oxygen concentrators last?

A: The majority of oxygen concentrators last for several years.

This varies from model to model, but portable oxygen concentrators typically it may last 4 to 7 years, whereas standard oxygen concentrators last longer, typically between 4 and 8 years, depending on usage

In the end, it is recommended that the oxygen concentrator be replaced when the oxygen concentration product begins to fall closer to 80 percent of its maximum value (as opposed to the usual range of 87 to 99 percent). This is the point at which it becomes necessary to either replace the filters or purchase a completely new product.

When using an oxygen concentrator, what are some of the side effects that may occur?

A: Skin irritation and nasal dryness are the most common side effects of oxygen therapy devices, as is the case with most oxygen therapy devices. This is the result of consistent airflow into the sinuses, and it is most seen in patients who have used oxygen for an extended period of time or who have used high flow rates of oxygen.

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