

# **[household oxygen generator] how to check the oxygen purity of the oxygen concentrator**

Oxygen generator is an important medical equipment, but like all technologies, they will be continuously consumed in the process of use. As for the oxygen concentrator, the purity of oxygen from the concentrator is very important, and the concentration range of oxygen determines whether it can play a role.

When you set 2 liters per minute (LPM) on the device, you will get at least > 95% purified oxygen of 2 LPM. However, when the concentrator fails, you may think you get 2 LPM, but in fact, the concentration may be 85% or less. This will cause serious problems in the medical field, because in this case, you will not be able to rely on oxygen generation equipment to provide the required oxygen concentration.

In this article, we will discuss how to detect whether your equipment needs purity inspection and find some effective methods.

How to know whether the oxygen generator needs purity testing?

Although in the medical field, the only way to provide effective purity is through medical evaluation, a clue you should pay attention to may indicate the need for evaluation. If you have chronic obstructive pulmonary disease (COPD) or other lung diseases that require oxygen, and you are not currently ill or getting worse, and you find yourself more tired or bored with activities that were easy in the past - it may be time for an oxygen purity test.

In other words, when this happens, you may face an urgent need for replacement, so this is not an ideal way to find that your oxygen concentrator needs purity evaluation.

Regular maintenance of oxygen generator is a method to maintain oxygen purity

Like most household appliances, it's best to maintain your equipment regularly to ensure normal operation and find problems before they become an emergency. Oxygen concentrators are no exception.

Regular maintenance involves three overall strategies:

Call your oxygen concentrator supplier to request an oxygen purity assessment

Your oxygen concentrator supplier should be able to manually test your concentrator to ensure normal operation at reasonable intervals. Ask your provider if you can arrange an appointment to evaluate your concentrator regularly and if you suspect there is a problem.

When they come out to test your equipment, they will use an oxygen analyzer to check the output flow of the equipment to evaluate whether the output is consistent with the control measures. These devices are very reliable and can detect deviations in oxygen purity as low as one percent.

Clean total filter particles

One reason why your oxygen generator may filter oxygen with low purity is that the filter needs to be cleaned. Check your user manual to see if your oxygen unit has a coarse particle filter.

The coarse particle filter shall be cleaned and replaced regularly. When the concentrator is opened, the ambient air must first pass through the coarse particle filter to remove dust and debris from the air. If the filter is not cleaned regularly, the accumulation of dirt and debris will reduce the amount of purified oxygen that the concentrator can eventually produce. To clean the coarse particle filter, follow the instructions in the user's manual on how to remove, clean and replace the coarse particle filter.

Let the manufacturer of the equipment carry out maintenance

Sometimes, internal filters and accessories may also need maintenance. At that time, the oxygen generator should be sent back to the manufacturer or retailer for maintenance. We can't clean the internal filter or components by ourselves, otherwise we may damage more equipment or invalidate the warranty. Therefore, it's best not to take risks, and the best way is to let professionals repair, especially for medical equipment.

The fourth method is to check the purity of oxygen

Although you can buy your own oxygen analyzer and test your equipment yourself, there are two things to pay attention to: price and calibration.

The price of oxygen purity analyzer is relatively expensive, and the starting price of more affordable analyzer is thousands of yuan. Having a home oxygen analyzer is a good way to track any deviation in concentrator purity over time if you don't worry about cost.

Another thing to note is calibration. The oxygen analyzer itself is a device. Like all devices, they will drift and fail over time. The advantage of oxygen analyzers is that they have self calibration function, so you can conduct your own quality control test at home and ensure that you can obtain accurate purity readings.

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Oxygen purity is an important aspect of having an oxygen concentrator or oxygen tank, but it is rarely mentioned to patients. In general, most oxygen concentrators and oxygen tanks are regulated and tested to meet specific purity standards, but sometimes defective units are transported to transport trucks. With this knowledge, you can now use tools to check the oxygen purity of your own oxygen therapy equipment or know how to request an assessment.

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