

USER'S MANUAL FOR HOUSEHOLD OXYGEN GENERATOR



Important

Please make sure you read this user manual carefully before using the Household Oxygen Generator.

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1. Foreword

Thank you for purchasing our products, hoping you will be satisfied with our products.

This operation manual contains function, operation steps, attention, basic trouble solution and so on. To ensure your efficient use of the machine, please have a close read of this operation manual before operating it.

Maybe there are some pictures, which are different from what you have seen in the real model in this manual.

2. Safety notice

- The device is not a medical device, so it is not considered for life support of life extension!
- The device shall be placed in an indoor ventilated place and protected from direct sunlight, and the distance from it to walls and other objects shall be more than 30CM.
- Please do not place any foreign matters or liquid containers on the chassis.
- It is forbidden to stack sundries at the side air inlet and the back air holes of the machine, so as to prevent the high temperature caused by the blockage of air inlet and exhaust, which may cause shutdown or decrease of oxygen concentration.
- Ensure the bottom of the equipment is free from obstruction, to guarantee that the cooling air outlet is free to exhaust correctly during operating, or else the machine will be over-heated.
- It is not allowed to place the machine upside down or horizontally.
- If the power supply voltage is unstable and exceeds the normal voltage range of 15V, please connect the voltage regulator before use.
- Oxygen is combustion-supporting gas. Keep the device far away from naked lights or fire resource, no smoking. Keep this device far away from flammable and explosive areas.
- Do not start or stop the machine frequently. To restart the machine after turning off, please wait at least 5 minutes (namely, exhaust internal gas of the machine completely, for if air compressor turns on with pressure, its life will be shortened)
- Do not apply oil or grease on any part of the oxygen machine.

- Turn off the switch if not in use.
- Before cleaning the dust on the device, the power plug must be removed from the power socket, in order to safeguard electric shocks.
- In case there are quality problems, do not dismantle it unless the person is correctly qualified.
- If device is used for ozone generators, it should only be used by trained personnel.
- If device is used for ozone generators, please ensure that you are aware of the safety requirements associated with the use of Ozone. The directive issued by the Health and Safety Executive give a recommended level of exposure of 0.2 ppm over 15 minutes. The ozone generators with this machine will deliver much more ozone than this level. Avoid inhaling ozonated air directly from the outlet tube.

3. Attention

- Do not use the device without air filter. The intake air filter need to be cleaned every 100 hours if the local air is dirty.
- When using the machine, avoid bending the oxygen inhalation tube, or else the water will overflow from the water tank.
- ✘ **Important:** if use the device for ozone generators, do not put any water into the water tank.
- There is a small non-return valve inside the machine, but still be careful and do not allow water goes in to the equipment. Should this happened, switch off the main supply immediately.
- Turn up the flow meter switch immediately when power switch is turned on.
- The oxygen concentrator needs 5 min to warm up before reaching the correct operating condition. The oxygen concentration won't be high and stable after warming up.
- There is intermitted exhaustion sound "puff" during operating (a few seconds in intermission).
- The oxygen concentration will be up to 90%, only when the device is under 1 LPM flow rate, and under good condition. It is not allowed to use this device for medical ozone gearators which request oxygen flow at high purity and high accuracy.

·When adjusting flow regulator for different flow rate, but the float remains stationary, turn off the machine immediately and check for the reason.

4. Product Description

This machine is designed according to the standard of household appliance, and can be used for home oxygen supplementary at maximum of 1 LPM oxygen flow rate. It can be used for some ozone generators which need oxygen source too.

This machine adopts air as raw material, using Pressure Swing Adsorption (PSA) method which can separate oxygen from nitrogen and other gas from the air, to produce high-purity oxygen gas for supplementary oxygen for domestic use. The high quality mini oil-free compressor and long life molecular sieve are used, and the oxygen is generated by pure physical method and at constant flow. The device is equipped with large clear LED, not only looked nice but also easy to operate. When the working temperature of the compressor is too high, it will stop working automatically to protect the compressor and make sure the whole machine is under safety situation. Moreover, the device is light and portable and easily movable with 4 wheels at the bottom. It is suitable for the supplementary oxygen users or the mini ozone generator users.

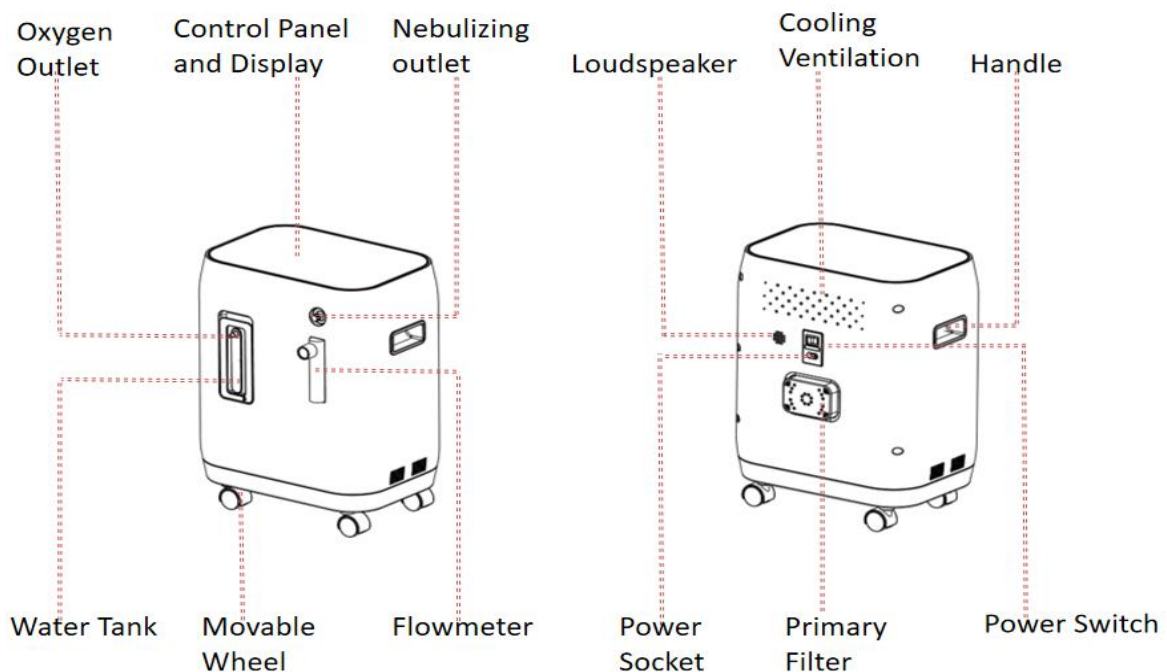
5. Operating condition

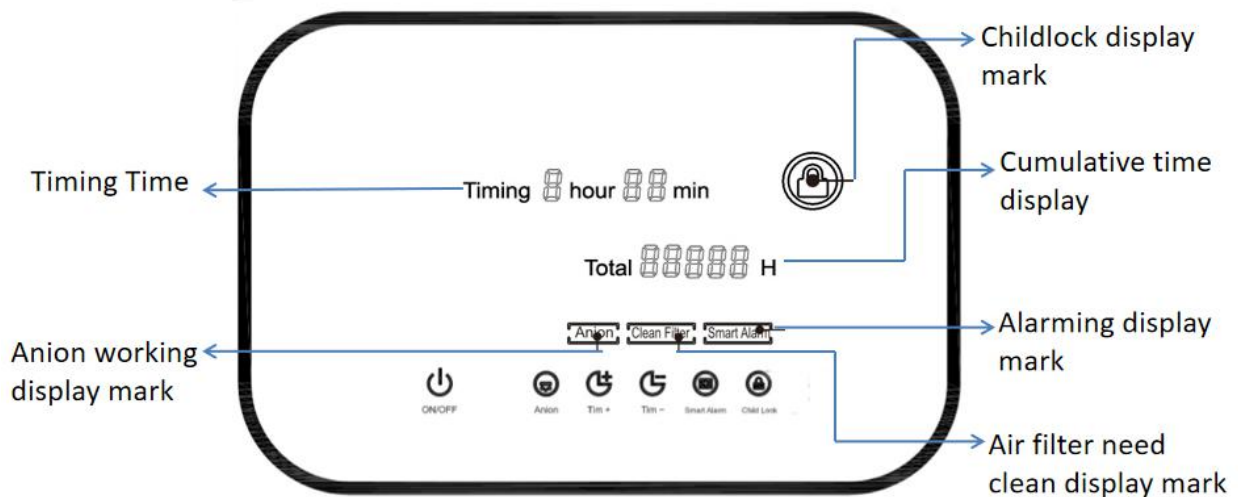
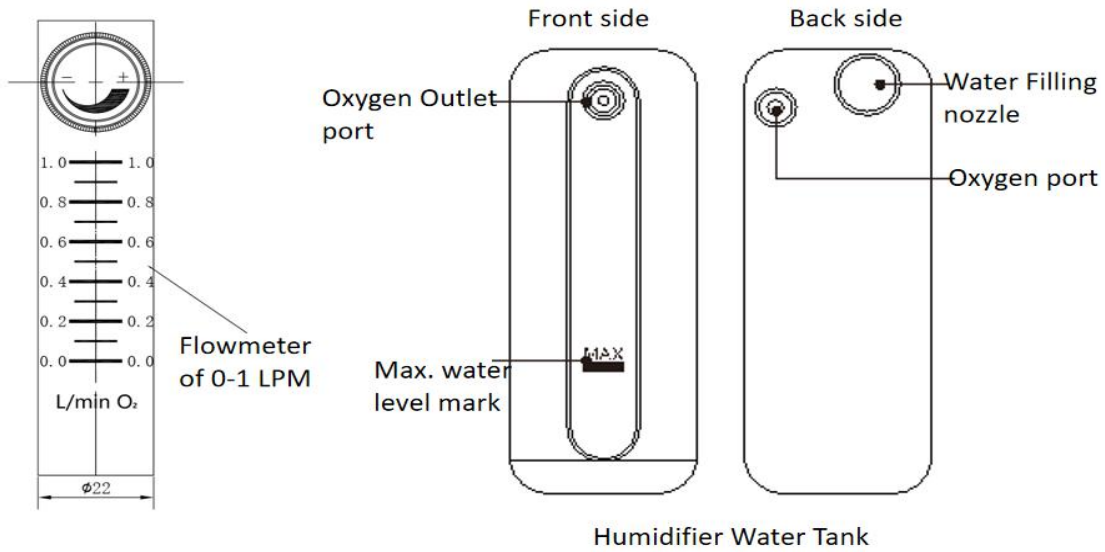
1. Ambient temperature: 10°C-40°C
2. Relative humidity: <80%
3. Air pressure:30 kPa-70 kPa
4. No strong magnetic field in the surrounding area. When storage temperature is < 0°C, please place the device at normal temperature environment for over 4 hours before working.

6. Technical Parameters

Product name	Household Oxygen Generator
Model	OX1L-01
Oxygen Production Method	PSA method
Oxygen flow	0.1 - 1 LPM
Oxygen Purity	90%±3%
Atomizing rate	>0.2 LPM
Oxygen Outlet Pressure	20 - 70 kPA
Rated power	120 W (ave.)
Operation voltage (V/Hz)	220V AC, 50 Hz / 110V AC, 60 Hz
Negative Ions	$\geq 8 \times 10^6 / \text{cm}^3$
Timing for work	15, 30, 45, 60, 75, 90, 105, 120 minutes or non-stop
Large LCD display	power on/off, Anion, Timing+, Timing-, Alam, Child lock, accumulating timing (range: 0~10000hours);
Sound level	< 45dB (A)
Net Weight	6.5 Kg
Product Dimension	31 * 25 * 39 cm
Gross weight	8.5 Kg
Package Dimension	38 * 31 * 50 cm

7. Appearance Diagram





8. Operation steps

1. Unpack the package, and check the parts as following:

- ① Main machine
- ② Power cord
- ③ Oxygen inhaler set
- ④ Parts used for atomizing
- ⑤ Instruction manual

For any missing items, please contact the dealer for replacement in time.



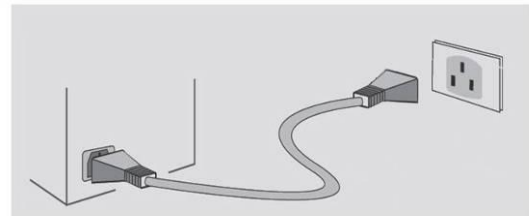
2. Open the water tank panel and inject pure water to the humidifier water tank.

Important: if to be used for offering oxygen to ozone generators, do not inject any water, and make sure there is no any water in the tank.

For oxygen breathing, cold boiled water or distilled water can be used to inject to the water tank. But the water amount should not be higher than the MAX. Water level.

3. Open the air inlet cover at the back of the device, and check whether the “air filter” is installed in place and clean.

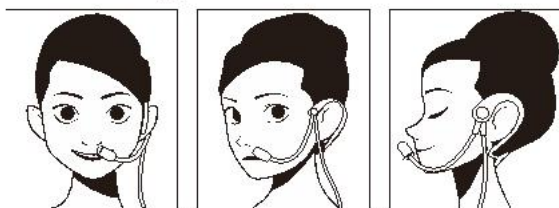
4. Connect the power, insert the connector of the power cord into the power socket at the rear of the machine, and insert the plug at the other end of the cable into the power



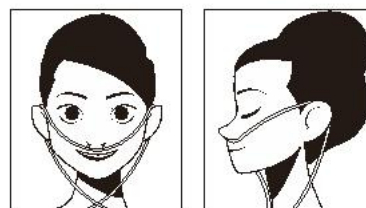
4. Turn on the power switch. Adjust the oxygen output flow according to the requirement. (counterclockwise—on, clockwise—off). Make sure the air flow is >0.1L/min when working.

5. If for oxygen supplementary, insert the oxygen inhalation tube into the “oxygen outlet”. There is a water collector on the tube. Please open the water collector and pour out water if too much water drops inside. Hook up the oxygen inhaler to head and starting inhaling oxygen.

Right to wear earphone type oxygen inhalation device



Nasal suction oxygen is right to wear



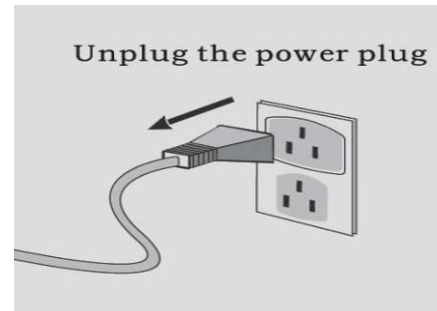
Note: the above method is for reference only, you can according to the individual's body posture and living habits, in the most comfortable way to use

6. If for feeding oxygen to ozone generators, connect a silicon tubing to the oxygen outlet on this device and the oxygen inlet on the ozone generator. Make sure the ozone machine is >30cm far from this device for safety, and ensure the silicon tubing are connected well without any blocks.

7. If need timing operation, press Tim+ or Tim- button to setup the countdown working time. Each press will increase or decrease the working time of 15 minutes as the working time, with max. 2 hours limitation.

8. Anion function can be used. Slight press the "Anion" button to turn ON or OFF the negative ions generating mode.

9. When finished producing oxygen, turn off the power; if there is discontinuous use, please unplug the power plug.



9. Atomizing purpose

1. Before starting up, screw down the nut of atomizing port.
2. Connect one end of the atomizing tube to the atomizing port. Please use it as needed or under the guidance of a professional doctor, and wear the atomizer as required.
3. Press the ON/OFF button. Please confirm that the flowmeter is at least over 0.2 LPM. The oxygen machine will switch to atomizing purpose.
4. After atomization , please press ON/OFF button to shut down the machine, remove the atomizer connection pipe, and re-install the atomizing port nut tightly.

10. Maintenance description

1. Clean the housing

The housing surface shall be cleaned at least once a month. First, cut off the power supply and wipe it slightly with wet clean and soft cloth soaked with disinfectant, and prevent the liquid from seeping into the machine.

2. Clean the water tank

To keep the water tank clean, fill the water tank with pure water, distilled water or cold boiled

water, and try to replace the water every day. The water tank shall be cleaned once a week. Firstly shake and wash it with detergent, and then rinse it with clean water to ensure the hygiene when using oxygen.

3. Clean or replace the filter

The “white air filter” behind the frame can reduce noise, isolate dust and purify air. The cleaning and replacement of the filter is very important to protect the compressor and molecular sieve and prolong the service life of the oxygen generator. So please clean or replace it in time. Generally, clean or replace it every 100 hours. When the machine has worked over 200 hours, the LCD display will turn on “Clean Filter” mark and remind you to clean it. And such remind will keep for 1 hour.

Notice: Do not operate the oxygen generator when the filter is not installed or is wet, or it will damage the machine for a long time.

The filter is located at the back of the machine. Pull out the inlet cover and take out the filter directly. The actual cleaning or replacement time of the filter shall be determined according to the actual working time and environmental impact. If the filter is dirty and blocked, it shall be cleaned or replaced immediately no matter how long it is used.

Clean the filter with light detergent, rinse it with clean water, and then fully dry it before install it back to the machine.

Notice: the filter is recommended to replace to new one regularly as consumables.

4. Clean the oxygen inhaler and atomizing components

They shall be cleaned once after each use. The nasal aspirator on the snuffing oxygen inhaler shall be cleaned and disinfected after each use. Soak them in 5% potassium permanganate solution for 5min, and then clean it with clean water or wipe it with alcohol. It is recommended to regularly replace the oxygen inhalation tubes and atomizing components as consumables.

11. Troubles and solution

No.	Trouble	Causes	Solution
1	No any operation after power connected	1. No connection between circuit of oxygen concentrator and power 2. No power from the power socket seat 3. Circuit of fuse protector broken	1. Check out whether switch, plug, power line in good connection. 2. Change to another power socket seat where has power. 3. Replace the fuse protector and find the cause
2	The Screen display is normal, but no gas output or low outlet flow	1. Folded tubes, no smooth outtake 2. Filter clogged, air inlet flow too low 3. Capacitor of compressor broken 4. Compressor broken 5. The ambient temperature is too high, and the self-protection program of compressor is started 6. Electrical control board defect	1. Reconnect the tubes 2. Clean the filters 3. Replace start capacitor 4. Have the compressor replaced 5. Keep the machine at cool place and keep other stuff 30 cm far from it. 6. Replace electrical control board
3	Too noisy exhaustion	1. The joint of exhaustion muffler fallen off 2. Exhaustion muffler broken	1. Reconnect the joint well 2. Replace the muffler
4	The machine makes a "puff" sound every few seconds.	This is the sound generated during nitrogen emission. It is normal, and it is a sigh of good operation of the machine.	No need repair.
5	Water is bubbling inside the water tank, but no oxygen coming out.	The rubber plug of the humidification water tank is not properly inserted.	Take down the water tank and insert properly.

12. Condition for transportation & storage

Environment temperature scale: -20-45°C

Comparative humidity scale: ≤90%

13. Quality Warrant

One year guarantee for the whole machine.

14. Diagram of Oxygen Generator

