USER MANUAL
FOR
OZONE GENERTOR AOT-10G

1.Foreword

Thank you for purchasing our product! This operation manual contains function, operation steps, attention, simple trouble solution, etc. To ensure your efficient use of the machine, please read this operation manual carefully before operating

REMARK: Product images and description only for reference purpose, kindly refer to the subjected produce.

2. Safety notice

- This equipment is intended for use by persons who have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- 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 (UK) recommended level of exposure of 0.2 ppm over 15 minutes. This equipment delivers much more ozone than this level.
- Keep this equipment far away from naked lights or fire resource, no smoking.
- Keep this equipment far away from flammable or explosive areas.
- This equipment delivers ozone with very high concentration. Avoid inhaling ozonated air directly from the outlet or extended tubes.
- Turn off this equipment if not in use. Unplug the power cable if it is not in use for a long while.

- Unplug the power cable before cleaning the dust on this equipment to avoid safeguard electric shocks.
- This equipment generates very high voltages internally. Do not open unless it is disconnected to the mains power.
- Do not dismantle this equipment if you are not the person who is responsible for the maintenance if there is any malfunction issue. Contact the right person or supplier/agent for help.

3. Attention

- This equipment should be switched off at once if there is ozone leakage.
- Ensure the bottom of the equipment is free from obstruction for exhaustion of the cooling air outlet correctly during operating to avoid over-heated.
- Do not restrict the air inlets and outlet. Ensure free flow of Ozone to the point of delivery. Restricting flow will cause over- heating or failure problems
- The oxygen concentration will be up to 90%, only when flow rate reaches its normal flow.
- The internal filters should be replaced directly every 4000 hours in normal environment.
- When adjusting flow regulator for different flow rate, but the float remains stationary, turn off the machine immediately and check for the reason.
- In order to check the function of the oxygen concentrator, please switch on oxygen concentrator only using the power switch. The function of the oxygen concentrator can then be tested without the danger of producing ozone.
- Do not turn ON and OFF frequently : Pls wait for at least 5 mins when you want to restart the equipment after switching off, to avoid shortening the life of the compressor for the whole system.
- It is recommended to rotate the flow meter to max. before switching on the equipment
- Do make sure the flow level is no less than 0.5L/min when operating.
- Make sure to keep water away to the equipment. If it happens, switch off the mains supply immediately.

4. Product Description

This ozone generator is designed as All-In-One product for water or air treatment using ozone, with built-in oxygen concentrator to provide oxygen as gas source to produce ozone. And the housing is with high level ozone resistant, which is 304 Stainless Steel.

The built-in oxygen concentrator, which is medical use standards, separate oxygen from nitrogen and other gas from the air using the pressure swing adsorption principle, which means the oxygen is generated by pure physical method. It is also with a long life feature, reaching up to 20,000 hours.

REMARK: There is no influence on indoor oxygen level, whilst the oxygen concentrator is operating.

5. Operating condition

1. Ambient temperature: 10℃-50℃
2. Relative humidity: 30%-85%
3. Air pressure: 700 hPa-1060 hPa
4. No strong magnetic field in the surrounding area.

6. Scope of application

This equipment is with high level performance ozone, where you require very high concentrations and purity, especially when you need to clean water for drinking purposes.

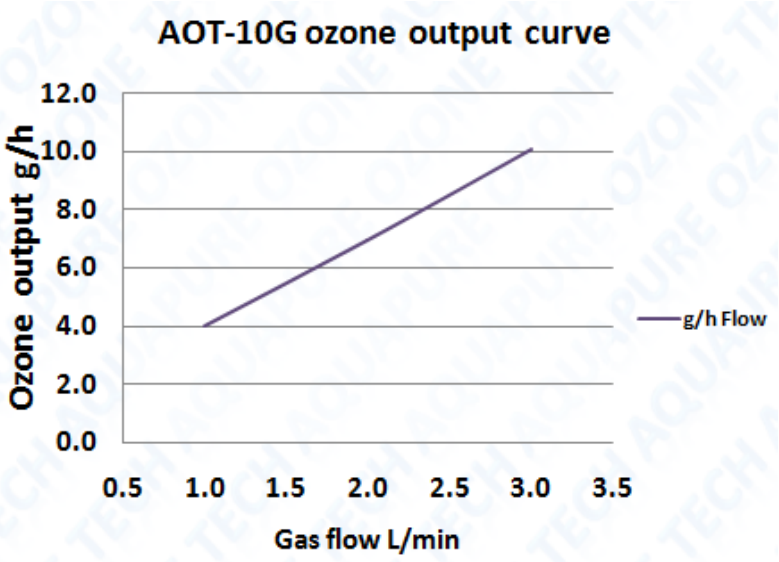
7. Technical Parameter and Performance Curves

1). Technical Parameter :

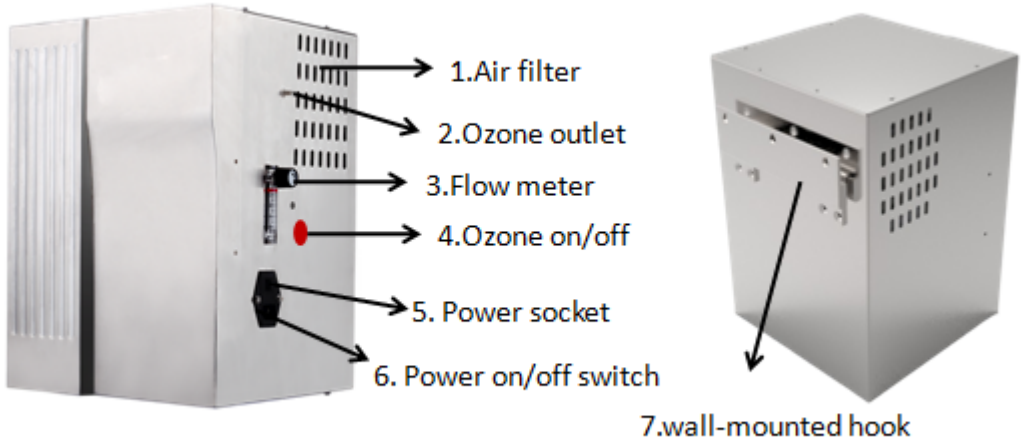
Model	AOT-10G
Ozone output	4 ~ 10 g/h
Rated power (W)	370
Operation voltage (V/Hz)	110/220V AC
Oxygen flow (L/min)	0.5 ~ 3
Oxygen concentration (%)	90%±3%
Outlet pressure (Mpa)	0.04—0.06
Sound level (dB)	≤50
Product Net Weight (kgs)	15
Product Dimension (mm)	301(D) x 277(W) x 393(H)
Package Dimension (mm)	385(L) x 360(W) x 490(H)
Fuse	3A

2). Typical Performance Curves :

	AOT-10G		Oxygen
Gas Flow	Ozone Conc.	Ozone output	Oxygen Purity
L/min	mg/L	g/h	%
1.0	67.0	4.0	94%
1.5	62.0	6.0	94%
2.0	58.0	7.0	94%
2.5	57.0	9.0	94%
3.0	56.0	10.1	94%



8. Structure and Function



1) Built-in air filter

Once need to replace, replace it by special filter for the machine.

2) Ozone outlet

Suitable for extended tube Inner Diameter 4mm

3) Flow meter

The float in the flow meter shows the flow level (L/min) of oxygen. It adjusts and controls the outlet ozone flow by adjusting the oxygen flow level. Do not rotate it over-forced, otherwise the valve core will be easily damaged..

Flow turning up : rotate counter-clockwise

Flow turning down : Rotate clockwise

4) Ozone on/off

Off the ozone function if need to check the oxygen works normal

5) Power socket

6) Power On/Off switch

7) wall-mounted hooks:

Mounted the machine on the wall if you want, or you leave it on the flat floor

9. Operation steps

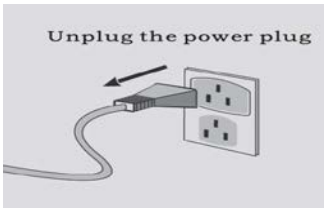

1. Unpack the equipment, and install the ozone generator wall-mounted with the bracket, leave it on the ground if not mounted.

2. Plug in with the power cable to the mains supply

3. Insert a silicon pipe to the ozone outlet, which will pipe ozone to water for treatment. A venturi will be ideal for ozone being dissolved into water.

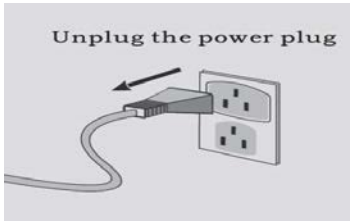
4.Turn on the power switch . Adjust the oxygen output flow according to the requirement. (turning down —counterclockwise, turning up —clockwise). Make sure the air flow is >0.5L/min when the equipment is switched on. If test the oxygen concentrator first, do wait 5 minutes to let the compressor exhaust all the residual air before switching it on again.

5. When finished producing ozone , turn off the power ; if there is discontinuous use, please unplug the power .



6. In case the oxygen concentrator works well when power is switched , but no any ozone output, please check out the connection of the ozone cell to the power.

10. Maintenance description

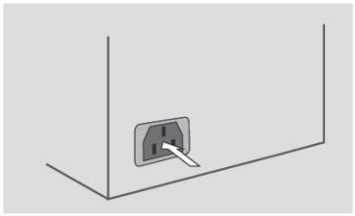


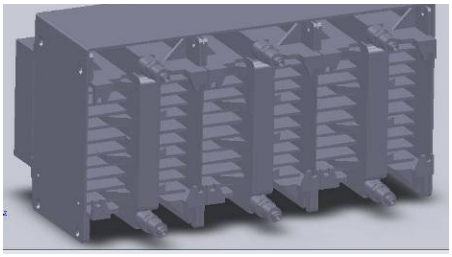
1) Clean the product once or twice per month, use soft cloth to with little detergent to wipe throughout the surface of the equipment. DO unplug the power from the mains supply before cleaning.

2) Replace the internal filter once per 4000 hours operation or shorter. Screw open the housing and take off the filter, put in a new one. This is HEPA Filter (High Efficiency Particulate Air Filter) which is able to stop small particulates > Φ0.3μm.

Do not switch on this equipment without filter, or when it is wet. Otherwise, it could cause permanently damage to the oxygen concentrator.

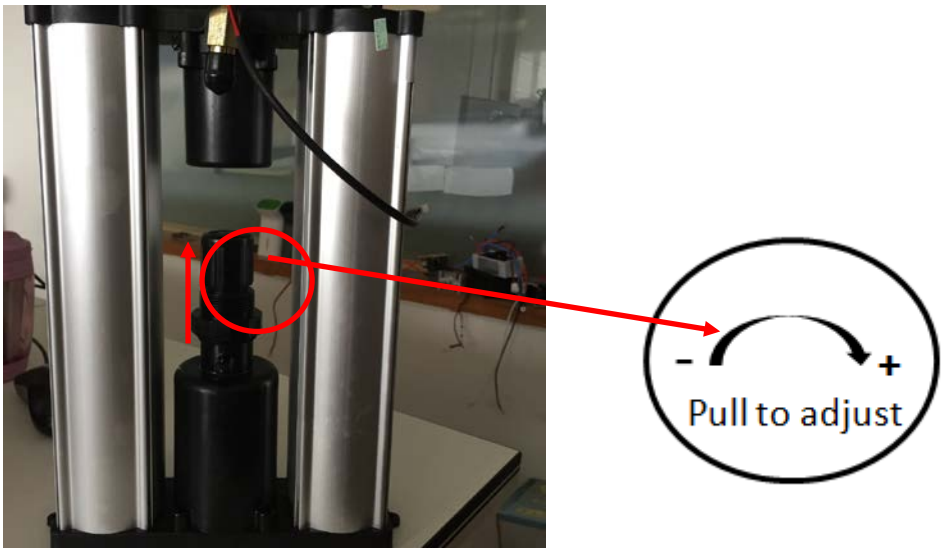
3) Replacement of fuse. Take off the cover of fuse, which is in the power socket, dismantle the fuse tube off by small screwdriver. Close the cover after fuse tube is replaced.





4) Replacement of internal pipes for ozone cell. Replace the Teflon pipe every 1.5 years, or shorter when needed. This is critical for the pipe which connect to the ozone cell

5) Adjust the pressure if low oxygen flow , open the housing , find the black oxygen tank between the oxygen molecular sieve, pull up the valve, then rotate it to decrease the pressure and check if the flow meter float goes up normal, pull down the valve after finish adjustment.



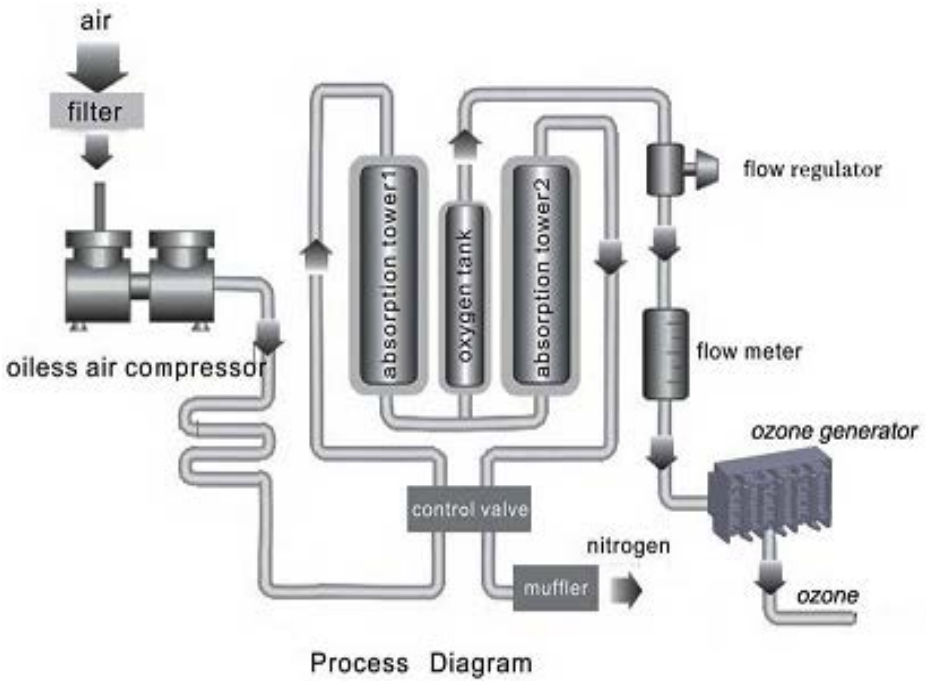
11. Troubles and solution

No.	Trouble	Causes	Solution
1	No any operation after power connected	1.No connection between circuit of oxygen concentrator and power 2.Circuit of fuse protector broken 3.Capacitor of compressor broken 4.Compressor broken	1.Check out whether switch, plug, power line in good connection. 2.Replace the fuse protector and find the cause 3.Replace start capacitor 4.Have the compressor replaced
2	No gas output or low outlet flow	1.Folded tubes, no smooth outtake 2.Filter clogged, air inlet flow too low	1.Reconnect the tubes 2.Clean the filters
3	No exhaust sound	1.Air control valve not working correctly 2.Electrical control board defect	1. Replace air control valve. 2. Replace electrical control board
4	Too noisy exhaustion	1.The joint of exhaustion muffler fallen off 2.Exhaustion muffler broken	1. Reconnect the joint well 2. Replace the muffler
5	Oxygen concentrator is OK, but no ozone	1.No connection between ozone electronics and power. 2.Connections between ozone electronics and ozone cooling ribs are loose or incorrect. 3. Ozone cells are broken	1.Check out whether switch, plug, power line in good condition. 2.Check out whether the cables from one electronic go to a certain cooling ribs both side. 3.Replace ozone cells.

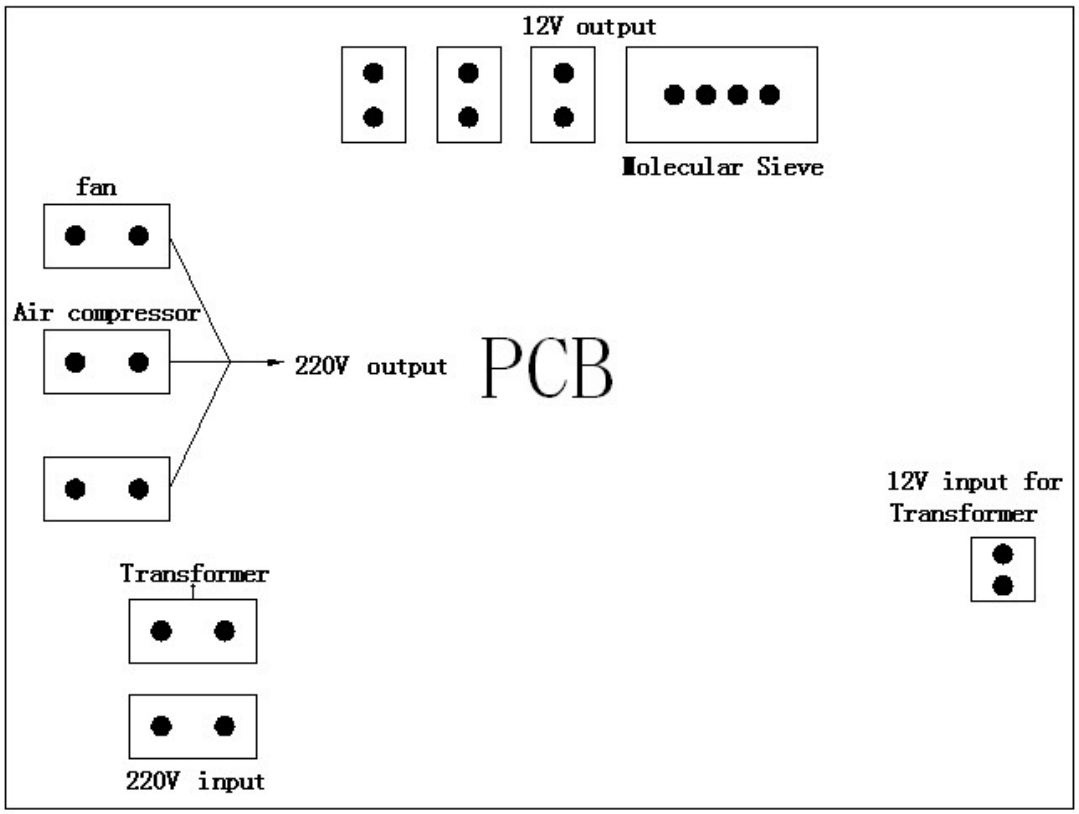
12. Condition for transportation & storage

Environment temperature scale: -20-5o℃
Comparative humidity scale: ≤95%
Air pressure scale: 500 –1060 hpa

13. Process diagram of ozone generator



14. Circuit Diagram of Oxygen Concentrator



15. Quality Warranty

This ozone generator is warranted to be free from all defects in material and workmanship for non-artificial quality issues for a period of (1) year from date of purchase.