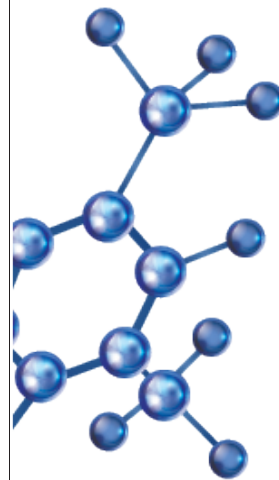



OZONE AIR AND WATER PURIFIER HYS-1668

USER MANUAL



 Please read this user manual completely before using device.

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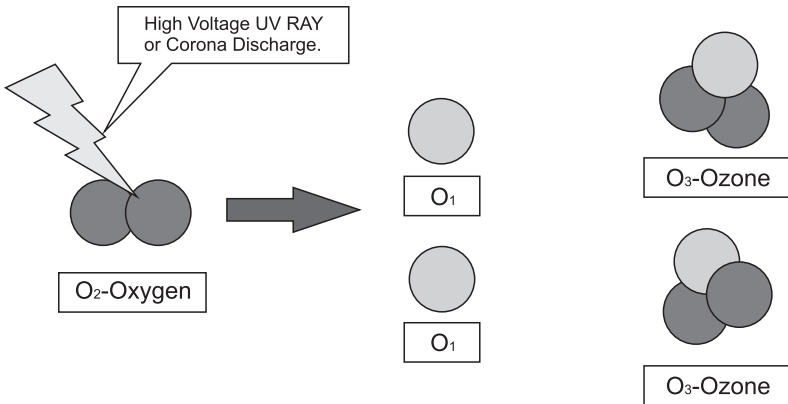
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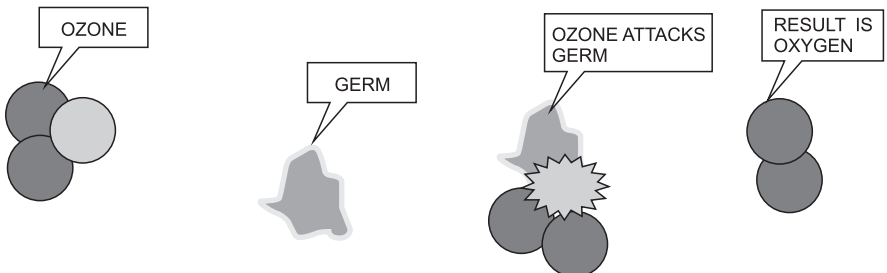
What is ozone

Ozone is a triatomic molecule. Whereas oxygen has two atoms, ozone has three. It is a blue gas with a distinct smell. It occurs naturally at the earth's stratosphere where the powerful ultra-violet rays of the sun breaks down dioxygen into singlet oxygen which quickly bonds with dioxygen to form trioxygen known as ozone. The third atom is very volatile and highly reactive. Ozone is one of the most powerful oxidizing agents and can kill lower life forms like bacteria and fungi in seconds. It can neutralise harmful chemicals. There is no residue but an oxygen enriched environment whether in water or air. (Adapted from Wikipedia)

How is ozone produced



How Does Ozone Work–Oxidation



Uses of ozone

Domestic Use :

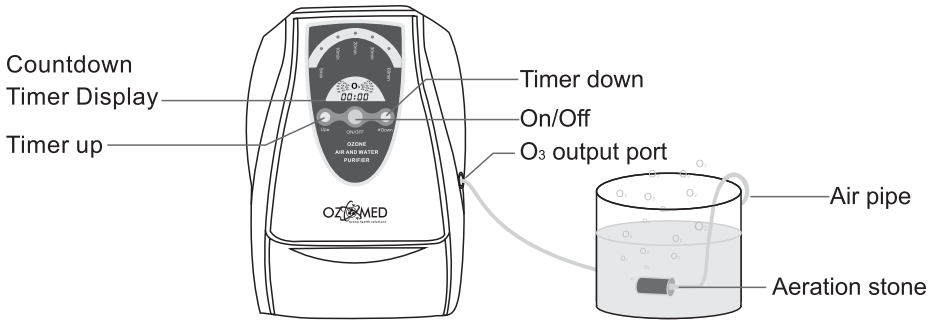
- Ozonated water is used to launder clothes and to sanitize food, drinking water, and surfaces in the home.
- According to the U.S. Food and Drug Administration (FDA), it is "amending the food additive regulations to provide for the safe use of ozone in gaseous and aqueous phases as an antimicrobial agent on food, including meat and poultry.
- " Studies at California Polytechnic University demonstrated that 0.3 $\mu\text{mol/mol}$ levels of ozone dissolved in filtered tapwater can produce a reduction of more than 99.99% in such food-borne microorganisms as salmonella, E. coli 0157:H7 and Campylobacter. Ozone can be used to remove pesticide residues from fruits and vegetables.[101] [102 (Extracted from Wikipedia)

Industrially, ozone is used to:

- Disinfect laundry in hospitals, food factories, care homes etc.;[90]
- Disinfect water in place of chlorine[22]
- Deodorize air and objects, such as after a fire.
- Kill bacteria on food or on contact surfaces;[91]
- Water intense industries such as breweries and dairy plants can make effective use of dissolved ozone as a replacement to chemical sanitizers such as peracetic acid, hypochlorite or heat.
- Sanitize swimming pools and spas
- Kill insects in stored grain[92]
- Wash fresh fruits and vegetables to kill yeast, mold and bacteria;[91]
- Chemically attack contaminants in water (iron, arsenic, hydrogen sulfide, nitrites, and complex organics lumped together as "colour");
- Eradicate water borne parasites such as Giardia lamblia and Cryptosporidium in surface water treatment plants.
- Many hospitals around the world use large ozone generators to decontaminate operating rooms between surgeries. The rooms are cleaned and then sealed airtight before being filled with ozone which effectively kills or neutralizes all remaining bacteria.[95] (Extracted from Wikipedia)

THE PRODUCT

FUNCTION:



OPERATION:

(1) Water Purification

- Connect one end of air pipe to the O₃ output port.
 - Connect other end of air pipe to aeration stone.
 - Insert aeration stone into container of water.
 - Connect power plug of device to power source and switch on.
 - Switch device on using on/off button.
 - Using timer up button select duration of purification on the basis of one minute per one litre of water.
 - Use timer down button to reduce duration if necessary
 - Once the countdown reaches zero the device will run for a few seconds to blow out residual ozone then it will switch off automatically.
 - Ozone will be active for 20 minutes in the water after which it will dissipate.
 - The water will then be sterile.
 - Switch power source off and disconnect from power source.
 - Disconnect air pipe from device then remove from water container.
- (Caution : ensure that the device is always higher than the container of water to prevent backflow of water in the device)

(2) Air Purification

- Ensure windows and doors of the treatment area is closed.
- Connect power plug of device to power source and switch on.
- Switch device on using on/off button.
- Using timer up button select duration of purification on the basis of one minute per one cubic meter of air.
- Use timer down button to reduce duration if necessary
- Make sure that you leave the room and that no one else is in the room.
- Once the countdown reaches zero the device will run for a few seconds to blow out residual ozone then it will switch off automatically.
- Ozone will be active for 20 minutes in the air after which it will dissipate.
- The air will then be sterile.
- Once entering the room immediately open all windows and doors and vent the room.
- Switch power source off and disconnect from power source.

(Caution : Breathing in ozone can harm the respiratory system. There is no need to breathe in ozone. Many problems are due to the poor environment which is generally the cause of our respiratory problems. The device is designed to purify the air in that environment leaving it clean and fresh.)

ACCESSORIES

Please take out the machine from color box to confirm it.

1. Aeration stone (2pcs)



2. Air pipe (1pc)



3. Screws, rubber plug(2 sets)



4. User manual(1pc)



5. Warranty card

6. Quality certificate(1pc)

Application

(1) Preserve Freshness: Seafood, Meat , Lentils, Vegetables and Fruit.

- Washing with ozone can remove Smell, Bacteria. Improves quality of item.
- Can Extend Freshness .
- Wash Raw Meat For Disinfecting.
- Can Prevent Discolouration of Peeled Vegetables and Fruit.

(2) Removes Chemicals: Fruit and Vegetables.

- Washing with ozone can remove Pesticides and Toxic Residue.
- Degrades Chemical Fertilizers
- Kill Bacteria and Viruses on the surface
- Does not change the taste

(3) Disinfection: Tableware, Kitchenware and other household items.

- Wash with Ozone to Disinfect.
- Can Kill Bacteria on the surface.
- Treat Pet Odours
- Sterilize Footwear
- Baby Bottles and Toys
- Use at work place as well to Avoid Cross Contamination.

(4) Personal Hygiene: Mouth, hands and feet

- Reduce and Prevent Pollution of the Intestinal Tract.
- Oral Sterilization – Gargle to Kill Mouth Bacteria and Dispel Halitosis.
- Washing Hands to Prevent Bacterial Infection
- Feet to Prevent Fungal Infection and Odour

(5) Drinking Water: Tap Water and Homemade Mineral Water

- Can Eecompose Organic Impurities
- Heavy Metal Ions
- Kill Bacteria
- Increase Oxygen
- Prevent Water Discolouration
- Preserves Freshness
- Use to Cook Food, Teas and Soups

(6)General: Home and Work Place

- Vent kitchen – frying and fishy smell
- Decompose the formaldehyde, toluene and other harmful gas of new furniture.
- Eliminate the peculiar smell of toilets.
- Use to get rid of spores and mold in rooms and offices.
- Get rid of dust mites.
- Smoke and foul odours.
- Sterilize air in general.

PRECAUTIONS

- Use with adult supervision.
- Do not immerse in water.
- Do not ingest any part or accessory.
- If you are sensitive to Ozone, discontinue use immediately.
- Discard device as per country environmental safety standards.

SPECIFICATION

Name: Ozone Air and Water Purifier

Type: HYS-1668

Power Supply: 220V~, 50Hz

Input power: 9.3W

Emission: 500mg/h

Operation temperature humidity: +5°C~+40°C 30%RH-80%RH

Transportation and storage temperature humidity: -20°C~+55°C 10%RH-95%RH

Operation atmosphere pressure: 86kPa-106kPa

Transportation and storage atmosphere pressure: 50kPa-106kPa

Net weight: 0.7Kg

Size: (L)173mm*(W)70mm*(H)240mm