

Ozone Disinfectant

SGH-O₃

O₃GH-Sterilizer



Specification

O₃ GENERAL KNOWLEDGE

The Characteristics of Ozone

Ozone, which has the scientific name O₃, with the molecular weight 48.00 is created by combining three oxygen atoms. The density is more than 1.658 times that of air. It has a high oxidizing ability which is effective for disinfecting and sterilizing. It can destroy most bacteria in the water or in the air. It is accepted as broad-spectrum, effective disinfectant and antiseptic. Ozone is an important component of our atmosphere. Our atmosphere contains 0.01 ppm-0.04 ppm of ozone, which balances the level of bacteria and mildew in nature. Ozone is also created electrically in nature during active thunderstorms.

The molecule of ozone is inherently unstable and tries to break down into the oxygen molecule as quickly as possible. This is what makes ozone such a great air and water cleanser. The ozone molecules need to combine with something in order to break down, so they end up oxidizing organic compounds and turn them into harmless carbon dioxide and water. Because ozone quickly breaks down into oxygen; it's considerably less toxic than disinfectant chemicals like chlorine. It has been called "the cleanest oxidizer and disinfectant".

Bacteria-killing functions

- 1) Killing microbes
 - a) Ozone is able to kill staphylococcus, coli bacillus and bacillus pyocyaneus up to 99.9%.
 - b) Ozone is able to kill Pseudomonas Fluorescens, Salmonella, Typhimorium, Shihella Flexneri and Vibrio Cholerae up to 100 %
 - c) Ozone is able to destroy hay bacillus variant spores up to 100%.
- 2) Inhibiting fungi
 - a) Ozone is able to destroy mix-color aspergillus, peach pecilocin and VUQ protozoa up to 100%.
 - b) Ozone is able to destroy black, green and orange mold and falciform spore mold up to 100%.
- 3) Resisting viruses
 - a) Ozone can damage Hepatitis A virus (HAAg) and HbsAg.
 - b) Ozone can destroy the influenza virus and SARS in the air up to 97.2%.
 - c) Ozone water can kill poliomyelitis virus 1 (PV1) and simian rotavirus SA-11 as well as rotavirus 11.
- 4) Removing toxins and odors
 - a) Disintegrates pesticides, chemical fertilizer and hormones.
 - b) Oxidizes heavy metals and organic substances.
 - b) Removes various odors.

Safety instruction:

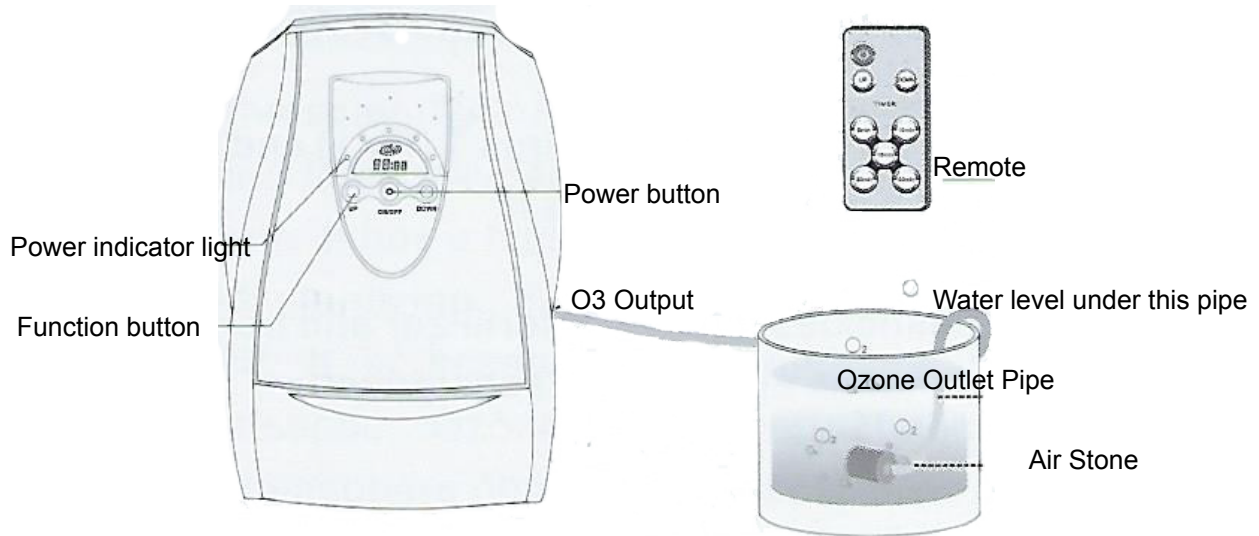
Disconnect the power before cleaning or repairing.

1. When this product is used to Sterilize water, place it 'above' water surface to avoid water from flowing in.
2. Do not use in high temperature environment (above 42C) or places with high humidity or high oil content. It will reduce the effectiveness or shorten the usage life of the product.
3. Do not throw or cause any impact on the unit. Do not block the air outlet as it will affect the air ventilation. (Do not smash the product).
4. When this unit is used in a non-ventilated room to sterilize the air please enter the room after the unit stops working for around 10 minutes.

The principle for O₃ Killing the bacteria

1. The process for O₃ disinfections is to release the third oxygen atom to destroy the cell wall of bacteria, the cell membrane and the protein shell of viruses, then to directly destroy their RNA and DNA by oxidizing and decomposing. For example, HCHO combined with O₃, will generate CO₂, H₂O and O₂. It can destroy the protein after acting with the sensitive amino acid and breaking through the protein.
2. The process for O₃ oxidizations is that one of the oxygen atom of O₃ acts with the surface of metal or organics to generate other harmless substances.

Product Layout:



Notice:

1. The Machine should be mounted in the position, where is higher than water level, to protect water from backflow into the machine.
2. O_3 removes foul smell without the tube and the Blaster stone.
3. Do not stay in an airtight room when purifying the air.

Accessories:

Please check the accessories carefully in the carton

Accessories Name	User Manual	Ozone Tube & Stone	Remote Controller	Warranty Card
Quantity	1 Pcs	1 Set	1 Pcs	1 Pcs

Technical parameter:

Product Name	SGH-01-1668A-IT
Input Electrical	AC 220 V – 50/60 Hz
Power Consumption	18 W
O3 Disinfector	500 mg/h
Weight	1.2 Kg
Size	W 170mm – D 70mm - H240mm

Operation Instruction:

1. Connect to the power and turn on power switch. When the power indication light is on check all the automatic functions.
2. To set the function, press "UP | DOWN" button It is preset to 5, 10, 15, 30, and 60 minutes.
3. To sterilize, connect the air tube to the ozone outlet connector, then put the ozone outlet ball to the bottom of the container (When the air has sterilized, disconnect the air tube).
4. Remote controlled within 3 meters.

HOME APPLICATION:

1 Preserve Freshness (5 Min.)

Application	Function and Effects
Fish and Meat Washing	1 Eliminate the Fish odor. 2 Kills the bacteria in the meat and fish. 3 Decomposes hormones and antibiotics in meat, fish, poultry.
Food preservation	Disinfects the food in refrigerator. Extend fresh fruit and vegetable storage life in refrigerators and cooler. Keep the food fresher.

2 Kills Bacteria (10 Min.)

Application	Function and Effects
Fruit and vegetable Washing	1 Dissolves and eliminates pesticide on the surface of fruit and vegetables. 2 Kills the bacteria on the surface of fruits and vegetables.

3 O₃ Sterilization (15 Min.)

Application	Function and Effects
Tableware Washing	Kills bacteria on the surface of the tableware
Water treatment	1 Dissolves the organic impurities and bleaches the water 2 Increases the oxygen level in the water
Children's articles	Disinfects nursing bottles and toys, etc
Bathing	Prevents diseases such as epiphyte from infection
Oral hygiene	1 Kill bacteria in oral cavity. 2 Helps to cure some oral cavity diseases such as faucitis and stomatitis.
Pets	Remove pet odor.

4 Removes foul smell (30 Min.)

Application	Function and Effects
Carpets, Furniture	Removes harmful gases such as formaldehyde emanating from new furniture, painting, and carpeting.
Kitchen	Remove odor and smoke in air.

5 Removes toxins (60 Min.)

Application	Function and Effects
Bathing	Kills bacteria, eliminates any odor and bleaches the clothes..

PRODUCTS INTRODUCTION

Products characters

Ozone Disinfectant is the newest product which adopts the advanced technology and the sole patent in the world. It generates O_3 by the principle of thunderstorm. With the air to be material using high voltage to ionize air forming the corona to generate O_3 . It is the necessary product for health protection with science and technology for human being.

Precautions Warning

1. Do not use the equipment in presence of strong static electricity and strong magnetic field.
2. Product must not come in direct contact with water or other liquids.
3. As ozone has a strong oxidizing property, the time taken for washing rubber products, hardware and plastics must not be too long.
4. When the unit is used for ozone "air-cleaning" purposes, it is recommended that both human and animals are not present to prevent discomfort, caused by the specific odor generated by ozone.
5. It is not recommended that the equipment be used by children under the age of 10.
6. Do not tamper with the equipment or attempt to open or dismantle.