

### Output

- O<sub>3</sub> Water Concentration: 1.0 ~ 3.0 ppm\*
- O<sub>3</sub> Water Output Capacity: 150 L/hr ± 15%
- Output Pressure: 0.3 ~ 0.5 kg/cm<sup>2</sup>

### Input

- Input Water: Municipal water
- Input Pressure: 1.2 ~ 6.0 kg/cm<sup>2</sup>
- Input Water Temperature: 5 ~ 30°C

### Appearance

- Model Type: Under Counter
- Dimension (W x D x H): 330 x 176 x 435 mm
- Net Weight: 7.5 kg / 16.7 pounds
- Colour: Silver

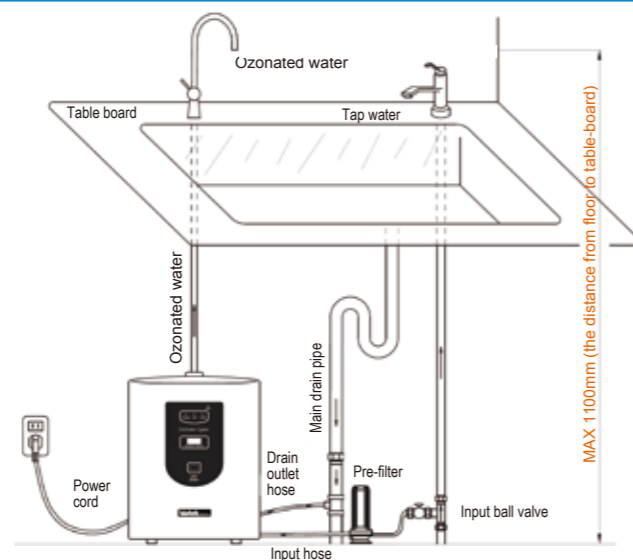
### Features

- Power Supply: 200 ~ 240 V / 50 ~ 60 Hz
- Power Consumption: 80 W (3 W in standby mode)
- Installation Accessories: Professional faucet and other plumbing accessories included for instant installation



\* Note: 1) ppm (part per million) is a standard unit to indicate concentration. A solution with a concentration of 1 ppm has 1 gram of substance in every million grams of solution.  
2) O<sub>3</sub> water concentration is subject to genuine situation, for instance, ambient temperature, operation duration.

## Installation Instruction



Hong Kong Distributor:



Since 1973

飛達工程貿易有限公司

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# biotek

## Make your home a safer and healthier place!



## H-7100U Home Care System



## About Biotek

Biotek United Kingdom has been dedicated to research and development in ozone generation for over 20 years. With over 40 worldwide patents, Biotek is the first and only company that applies Electrolytic Ozone Generation (EOG) technology to separate oxygen atoms (O) from water molecules (H<sub>2</sub>O) for the synthesis of ozone (O<sub>3</sub>).

### The patented Biotek Electrolytic Ozone Generation (EOG) technology



## Specialities of Biotek H-7100U

### All-in-one solution

- Eliminates bacteria and viruses
- Decomposes pesticide and insecticide
- Removes odours
- Preserves freshness

### Effective and convenient

- Generates concentrated O<sub>3</sub> water for fast, clean and effective disinfection
- Produces effectiveness over 3,000 times more powerful than chlorine bactericide (a common household disinfectant)

### Safe and environmentally friendly

- No production of harmful by-products or chemical residues (safer than using chemical disinfectants)
- Objects disinfected by O<sub>3</sub> do not need any rinsing
- O<sub>3</sub> reverts automatically to oxygen (O<sub>2</sub>) after disinfection

## Safety Compliance and Certifications

- Passes cytotoxicity, irritation and allergy tests on skin cells and mucous membrane of the eye
- Complies strictly to the **US Federal** requirements, the **US Occupational Safety and Health Administration (OSHA)** regulations and the **US Environmental Protection Agency (EPA)** safety standards regarding off gas requirements
- Listed in **NSF** Official Listing of Special Purpose Food Equipment and Devices (Standard 169)
- **US Food and Drug Administration (FDA)** endorses O<sub>3</sub> for use in the food service industry and kitchen applications
- CE approved

## SGS Test Report from SGS (Biotek O<sub>3</sub> water)

SGS is the world's leading inspection, verification, testing and certification company, with headquarter located in Switzerland. It is recognized as the global benchmark for quality and integrity.

### Antimicrobial Effectiveness Testing

Test Item	Initial Inoculation (CFU / ml)	15 seconds (CFU / ml)	Reduction (%)
Methicillin-resistant Staphylococcus aureus (MRSA)	1.2 × 10 <sup>5</sup>	Not Detected	> 99.999
Salmonella	1.8 × 10 <sup>5</sup>	Not Detected	> 99.999
Pseudomonas aeruginosa	4.4 × 10 <sup>5</sup>	Not Detected	> 99.999
Candida albicans	1.3 × 10 <sup>5</sup>	Not Detected	> 99.999
Escherichia coli	2.4 × 10 <sup>5</sup>	≈ 30	99.99

Note: CFU/ml (Colony Forming Unit per millilitre) is used to measure viable bacterial or fungal numbers per millilitre in the sample.

### Decomposition of pesticide and insecticide

Test Item	0 second (mg / L)	60 seconds (mg / L)	Reduction (%)
Mevinphos (Organophosphate)	0.6420	0.0000	100.0
Permethrin (Organochlorine)	0.5590	0.0337	94.0

## Applications



### Hand sanitization

Eliminates 99.99% of all known bacteria and viruses within 15 seconds

### Skin therapy

Accelerates recovery of skin wounds and burns

### Skin care

Assists facial wash in skin detoxification, impurities removal, bacteria and viruses elimination and acne prevention

### Oral therapy

Kills bacteria and helps ulcer curing

### Oral hygiene

Decomposes odours to fight bad breath

### Baby care

Sterilizes milk bottles and toys

### Surface disinfection

Sanitizes kitchenware, workbench, and other utensils to inhibit cross contamination

### Laundry sterilization

Disinfects and deodorizes linens, towels and clothes

### Pet care

Removes unpleasant smells and fleas

### Washroom hygiene

Substitutes household bleach and chemical disinfectants and eradicates pathogens, fungi, mold spores, unpleasant odours in bathroom and lavatory

### Food preservation

Retains original flavour, maintains freshness and extends shelf life of fruit and vegetable, meat and seafood

### Food disinfection

Decomposes agricultural pesticide, insecticide, chemicals and eliminates bacteria and viruses on food surface

### Frozen food unfreezing

Defrosts frozen food by killing fungi, mold spores and bacteria simultaneously to prevent food decay and contamination

## Comparison of different disinfection methods

	Biotek	Heat	Water purified by Reverse Osmosis (RO)	Electrolyzed Water	Sodium hypochlorite (household bleach) (1:99)	Alcohol 75%
Feeding bottle disinfection	✓	○*	✗	○#	✗	✗
Toy and layette disinfection	✓	○*	✗	○#	✗	○
Tableware and kitchenware disinfection	✓	✓	✗	○	○	○
Sashimi and cold dish preparation	✓	✗	✗	✗	✗	✗
Vegetable and fruit preservation	✓	✗	✗	✗	✗	✗
Pesticide and insecticide decomposition	✓	✗	✗	✗	✗	✗
Hand sanitization	✓	✗	✗	○#	○	✓
Clothing and footwear deodorization	✓	✗	✗	✗	○	○

✓ Effective ○ Feasible ✗ Not feasible

\* High temperature hastens aging process of plastics. Research found that Polycarbonate (PC) releases Bisphenol A (BPA) at around 80°C to 90°C, which can have adverse effects on babies. Special attention should be paid on storage after high temperature disinfection as high humidity and warm environment favours the multiplication of bacteria.

# Electrolyzed water with mild pH value takes time for disinfection and has low sterilization efficiency; whilst electrolyzed water with extreme pH value is corrosive.