



# Mobile Disinfection System

MDS



The BioSure Professional MDS is a cart based ozonated water system offering the most flexibility in setup and use. Connect directly to supply ozonated water to an existing process operation or attach the included spray bar to clean and spray down surfaces and equipment. Adjustable ozone concentration and flow rate selections to increase disinfection strength or cleaning efficiency. Ozone is a powerful oxidizer and disinfect that reverts back to oxygen, thus does not require a final rinse. It is US FDA approved for direct food contact and is the most effective and safest disinfectant available.

The MDS was specifically designed for the food industry and is ideal for use in high risk and food areas.

## APPLICATIONS

- Food processing plants
- Surface sanitation of floors and walls
- Seafood processing plants
- Butcher blocks
- Daires
- Wineries
- Poultry processing plants
- Meat processing plants
- Ready-to-eat foods

## INCREASE SANITATION AND REDUCE OR ELIMINATE

Chlorine  
Quaternary ammonia

▶ Ozone's relative sanitizing strength  
1ppm ozone = 50ppm chlorine  
1ppm ozone = 200ppm quat

Safety concerns

▶ Ozone reverts back to oxygen.  
Residual-free, rinse-free.

Final rinse

▶ Terminal surface sanitizer

## PATENTED BIOTEK TECHNOLOGY

- Electrolytic Ozone Generation (EOG)
- Pure Water System
- Gas-Liquid Dissolving Pump
- Built-in Off-Gas Destruct Unit
- Complies with US OSHA safety

## ADVANTAGES

- Tap water as the only required input
- NOx-free ozone generation (only ozone and oxygen produced)
- 6000 hours lifetime ozone generator cell
- Low variability to external factors such as air quality, humidity, and temperature
- Does not require an oxygen source, concentrator or input air dryer
- Consistent, on-demand ozone production
- Exceptional capability to support high frequency intermittent ON/OFF operation
- Instant and continuous flow of ozonated water
- Powerful disinfection, eliminates pesticides, viruses, bacteria and without the use of harmful chemicals

## PERFORMANCE

- Ozone gas generation rate 3.0g/h
- Ozonated water concentration and flow rate (Adjustable with interchangeable flow nozzle)  
6.0 - 0.5 ppm @ 400-3000 L/h (1.76 - 13.2GPM)

## FEATURES

- POU (Point of Use) system
- Multi-directional front wheels for easy mobility and brakes for safety.
- Input water temperature and flow rate sensor
- Low water and power consumption
- Water-cooled system
- Isolated electrical components for high humidity applications
- Safe to use

## USER FRIENDLY DESIGN

- Convenient for mobile applications
- Front Mounted Digital Control Panel
  - Displays remaining lifetime of consumable parts

## APPEARANCE

- Stainless Steel 304 Frame and Enclosure
- Dimensions: W400\*D1100\*H930mm
- Net weight: 150 kg



## SPECIFICATIONS

### INPUT SPECIFICATIONS

- Input Water: Municipal water
- Input Water Temperature: 5~30°C
- Input Pipe Size: 3/4"
- Input Water Pressure: 2.0~16 kg/cm<sup>2</sup> (29~227 psi)
- \* If the input water pressure is over 16.0 kg/cm<sup>2</sup>, an exterior water regulator is required.

### OZONATED WATER OUTPUT SPECIFICATIONS

- Ozonated Water Output(Adjustable settings)
  - Concentration: 6.0 – 0.5 ppm\*
  - Flow rate: 400~3000LPH(1.76~13.2GPM)\*
- Output Pipe Size: 3/4"
- Ozonated Water Pressure: < 3.0 kg/cm<sup>2</sup> (< 42 psi)
- \* Test Conditions:
  - Input water pressure: 3.0 kg/cm<sup>2</sup>;
  - Input water Temperature: 15 °C;
  - Ambient Temperature: 20 °C;
  - Water Quality: 500 µs/cm
- \* The test results based on operating the ozonated water generator for 30 minutes.

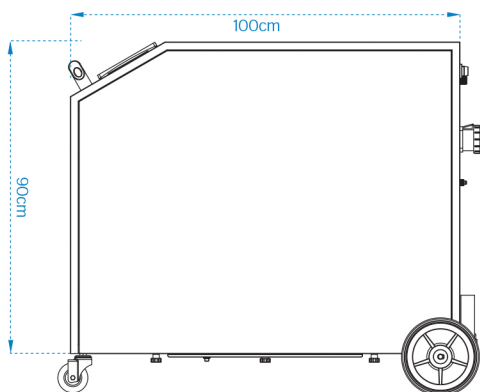
### POWER SUPPLY

- Power Consumption: 900 Watts
- AC Input: 220~240V, 120~120V, 50/60Hz

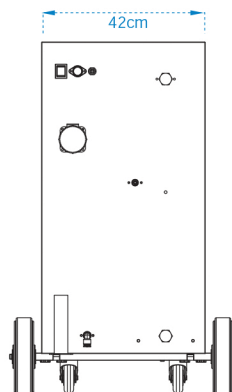
### WARRANTY

- Limited warranty for 1 year or up to 3,000 operation hours (whichever comes first)

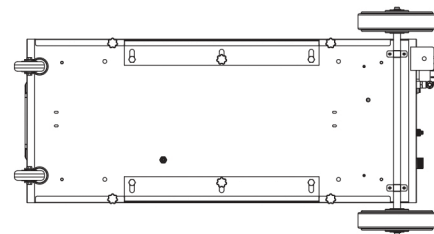
## DIMENSIONS DIAGRAM



LEFT VIEW



BACK VIEW



BOTTOM VIEW

## CONSUMABLE PARTS LIFETIME

PART	ESTIMATED DAILY USE	REPLACEMENT PERIOD
Ozone generator cell	8 hours	2 years
RO filter	8 hours	2 years
Destruct unit	8 hours	2 years
Seal of Gas&liquid mixing pump	8 hours	2 years
DI filter	8 hours	1 year
Ternary filter	8 hours	1 year
Ozonated gas solenoid valve	8 hours	1 year



- Built-in pure water system
- Gas-liquid mixing pump >80% efficiency
- Off-gas destruct unit
- 18L reactor tank



### BIOTEK EOG TECHNOLOGY

The highest ozone purity resulting in the highest dissolution efficiency, 3.0g/h can achieve 6.0ppm dissolved ozone in water 400LPH(1.76GPM).

\*Other manufacturers may specify applied ozone dose to water. This is the gas concentration prior to dissolution. Only dissolved ozone concentration is effective for water applications.