



## MODEL WMS - OWNER'S MANUAL



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Thank you for purchasing our powerful and compact ozone system. Using our patented electrolytic ozone technology, this system safely generates high concentration ozonated water without releasing any poisonous byproducts.

The ozone system produces ozonated water for the following purposes: effective and convenient hand sanitizing, disinfecting foods, and sanitizing work surface areas and equipment to prevent cross contamination.

This is a complete, compact and mobile point-of-use ozone system. It installs quickly and easily into existing operations. The system meets the strict EPA standards: its ozone gas emissions do not exceed 0.30ppm within 15 minutes.

**The system can be used for:**

1. Hand disinfection.
2. Sanitization of kitchenware and utensils.
3. Food sanitation and deodorization.
4. Sanitization & removal of pesticide on the surface of fruits and vegetables, decomposition of organics, deodorization of seafoods, fish & meats.

**Efficacy Study Conducted by SGS, Leaders in Microbiological Testing:**

Microbe	Exposure Time	Reduction Rate
E. coli 0157:H7	20 sec.	99.999%
Salmonella	20 sec.	99.98%
Pseudomonas aeruginosa	20 sec.	>99.999%
Staphyococcus aureus	20 sec.	>99.999%
MRSA	20 sec.	>99.999%

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 48,000 employees, SGS operates a network of over 1,000 offices and laboratories around the world.

1. Instructions:
  - A . Do not slice the food prior to using ozonated water to sanitize vegetables, fruits, fish, shrimps, meat, poultry, etc. The food should be treated as a whole.
  - B . Organic substances like sauce, milk, tea, salad dressing, etc., can quickly consume ozone and lower ozone concentration of ozonated water.
  - C . To obtain maximum results, kitchenware & utensils should be pre washed prior to flush or immersion in ozonated water.
  - D . Factors that can influence ozone treatment of sanitation and sterilization:
    - a .The variety and quantity of pollutants
    - b .Environmental factors either physical or chemical
    - c .Storing time of ozone
    - d .Input water temperature
    - e .Ozonated water concentration
    - f .Chemical elements and conductivity in water
    - g .Microbe content
2. During initial start-up, the machine will start auto-refresh for approximately 18hrs; to maintain system, the unit will also automatically refresh periodically for 12hrs. If user need to use Ozonated water, during refresh process, press any one of the function (“hand disinfection”, “surface disinfection”, or “produce wash”) buttons. After pressing any one of the “function” buttons, it takes a few seconds to produce Ozonated water.
3. Waste water will be discharged for 10~15 minutes during start-up or water replenishment.
4. Please keep power on during daily use, this allows the machine to stay fully replenished. The machine will automatically go into normal stand-by mode when replenished.
5. Press the “refresh” button to clean the system at least once after longer period of non-use (more than 1 week).
6. Install the machine in a well ventilated location. The drain line should be place into a closed rather than open drain and preferably as low as possible into the sink drain line to avoid having “fumes” come back up into the sink which can cause nausea.
7. The lifecycle of Ozone Generator is about 3000 hours (about 3 years if daily use for about 3 hours). When Ozone Generator reaches the end of its lifecycle, the machine will sound 2 beeps upon any operation. Please contact the supplier to change the Ozone Generator. After continuing using for 30 hours, the machine will alarm for five times which means the Ozone Generator needs replacement. Upon such case PLEASE REPLACE OZONE GENERATOR immediately.
8. Ozone has very strong oxidation ability. Utensils made of Stainless Steel, wood, bamboo and Teflon, can be freely sanitized and disinfected with Ozonated water. Utensils made of iron, natural rubber or other materials which may react with ozone, should avoid contact with ozonated water during sanitization and disinfection for long periods of time.
9. Machine cleaning: turn the machine off and then wipe the unit with a soft moist cloth, followed with a dry cloth. Do not use chemicals. Do not soak the machine in water.

1. Be sure the power supply meets the requirements as indicated in the product specifications.
2. Be sure the water inlet and drain outlet are both connected to the corresponding hoses and are properly installed.
3. Ensure that the pressure of the supply water meets the following requirements water pressure: between 2.0-7.0 Kg/cm<sup>2</sup> (28-98 psi).
4. **GROUNDING INSTRUCTIONS** - This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an appliance-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.
5. **WARNING** - Improper connection of the appliance-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the appliance is properly grounded. Do not modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified technician.
6. Immediately replace damaged power cords.
7. Always place the machine on a solid and flat surface or fix securely on a wall. Make sure that all hoses allow free flow of water.
8. Do not open the enclosure of the machine—all service must be performed by an authorized technician.
9. DO NOT put the machine in water or spray water to it. Otherwise it may damage the unit or cause electric shock.
10. Please use well grounded, 15 AMP socket.
11. Keep the ozone system out of reach of children.
12. Please hold the power cord plug to disconnect power supply. Never pull the power cord to disconnect power supply. Otherwise may cause risks of electric shock, short circuit or fire.
13. DO NOT use damaged power cord.
14. DO NOT stretch, twist or tie power cord.

**note**

The GO-3 Ozone WMS Series products are equipped with an off-gas separation and destruct process. Off-gas from the water stream is within EPA/ OSHA regulations and does not pose any threat.

## MANUFACTURERS LIMITED WARRANTY AND RESPONSABILITY.

MVP Group Corporation hereby warrants all new equipment bearing the brand name “GO-3” to be free from defects in material and workmanship, under normal and regular usage and operation, for a period of one (1) year following the date of original installation or eighteen 18 months from the ship date from our warehouse, whichever comes first. This warranty is valid ONLY for the original owner of the “GO3” unit and is not transferable.

If a defect in material(s) or workmanship is detected; or found to exist, MVP Group, at its sole discretion, shall either repair or replace any original equipment manufacturer parts which has proven to fail within the machine; providing that the equipment has not been altered or tampered with in any manner, has been installed correctly as per the owner’s manual, and maintained and operated in complete accordance with this manual.

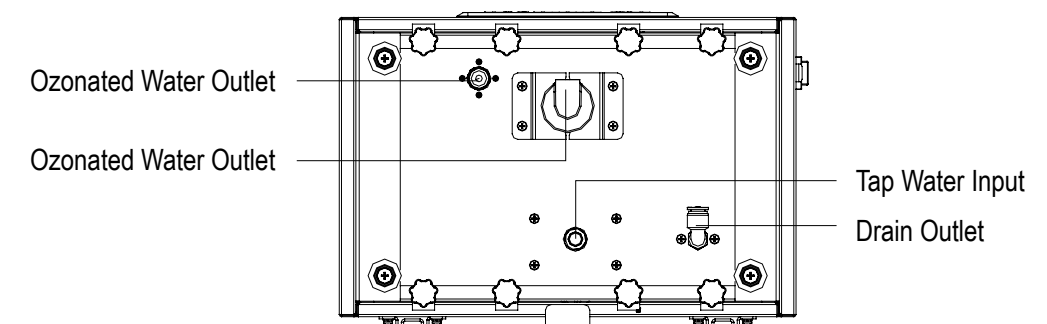
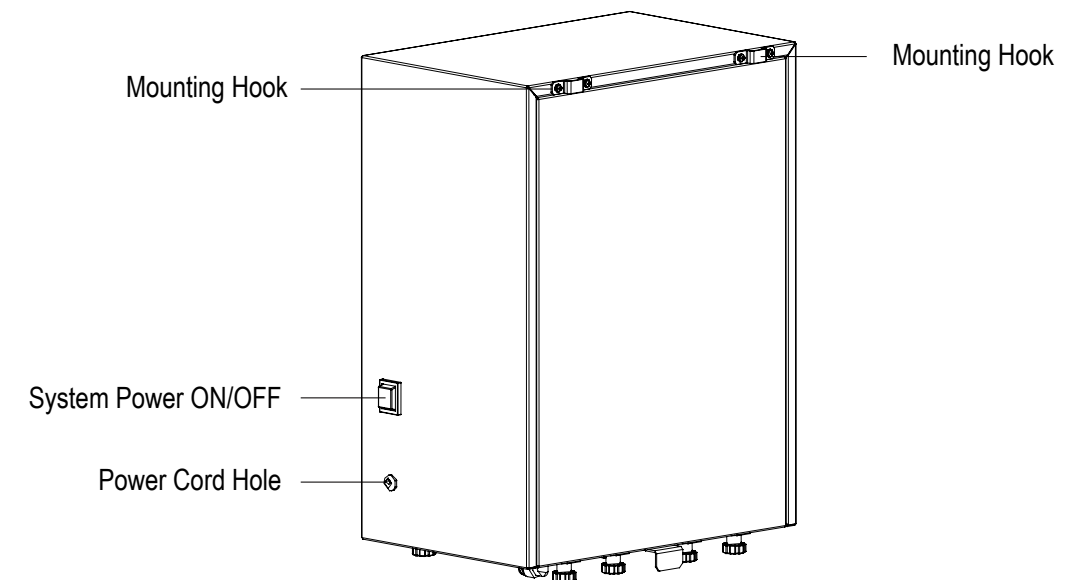
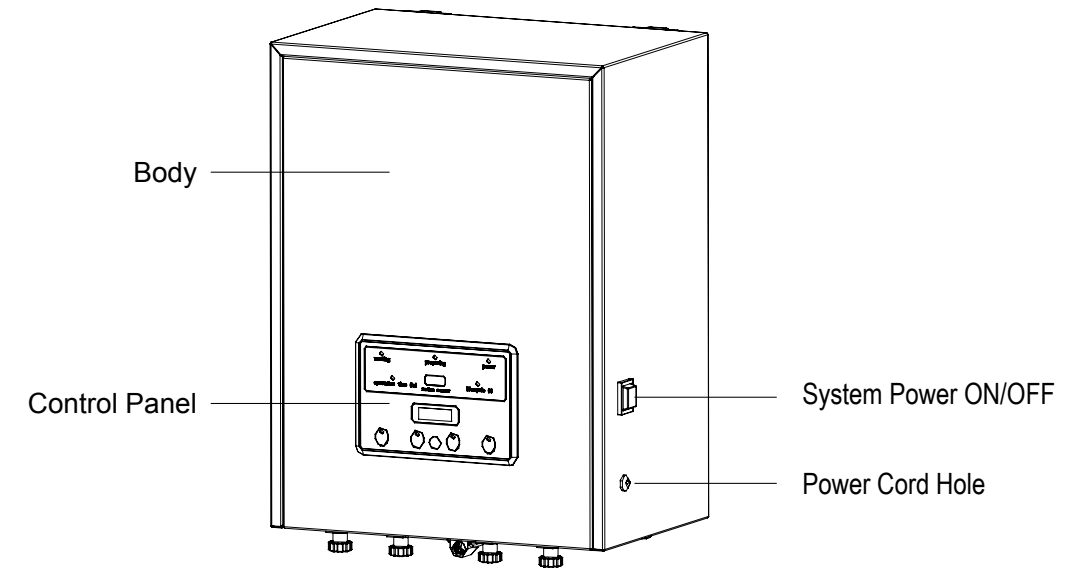
The labour cost to repair or replace any part proven to be defective, as per above clause(s) shall be covered by MVP Group; provided that: prior authorization for this labour was approved by MVP Group in writing, the service work was performed by an authorized GO-3 service agency; and that this agency installed an original and genuine GO-3 part in this equipment. Any repair work performed by a non-authorized service depot remains the sole responsibility of the user, and MVP Group will not be held responsible. **The installation of any generic part will not be valid; and therefore voids this warranty.** All authorized labour coverage shall be limited to regular hourly rates only. Any supplemental hourly rates or charges, such as weekends or emergency premiums remain the responsibility of the user.

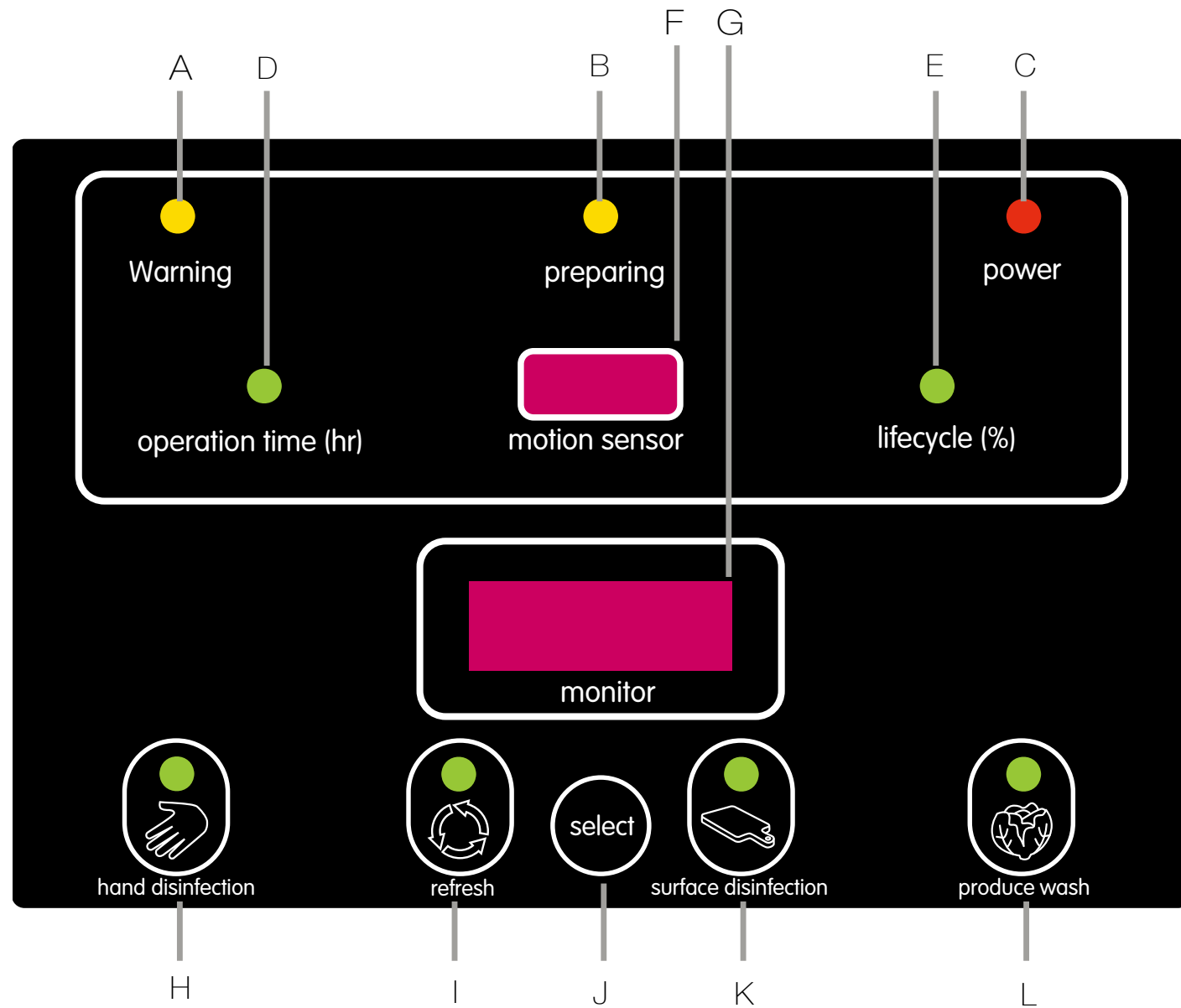
MVP Group hereby states that: warranty travel time shall be limited to, and without exception, a round trip total of two (2) hours OR mileage up to a maximum of one hundred (100) miles or one hundred sixty (160) km round trip. Any charges exceeding those stated herein must have prior authorization by the factory or been at the charge of the customer.

**Exceptions to above warranty and responsibility are:** (A) Damages resulting from shipping, handling or abuse. (B) Incorrect installation and/or connections. (C) Adjustments or calibration of any parts. (D) Faults due to lack of regular maintenance. (E) Poor results due to: use of excessive or inadequate water temperature(s) or pressure conditions or incorrect use.

MVP GROUP CORPORATION STATES THAT THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, THAT ARE NOT SET FORTH HEREIN. MVP GROUP CORPORATION SHALL ASSUME NO OTHER RESPONSABILITY, EITHER DIRECT OR NON-DIRECT, OR BE LIABLE FOR ANY OTHER OR ADDITIONAL LOSS OR DAMAGE WHETHER BEING DIRECT OR CONSEQUENTIAL, AS A RESULT OF ITS EQUIPMENT.

*The manufacturer reserves the rights to alter design and specifications without notice.*





- A. warning indicator
- B. preparing indicator
- C. power indicator
- D. operation time
- E. the lifecycle of components
- F. motion sensor
- G. monitor
- H. "hand disinfection" button
- I. "refresh" button
- J. "select" button
- K. "surface disinfection" button
- L. "produce wash" button

- ★ Please read the safety precautions carefully before installation/operation.
- ★ Please follow the install procedures in the manual.
- ★ Please install in solid and firm place.
- ★ The machine needs to be grounded. Make sure the socket is well grounded before inserting the plug. Consult qualified technician if you are not sure.
- ★ Keep away from heat source.

Pre-installation preparation

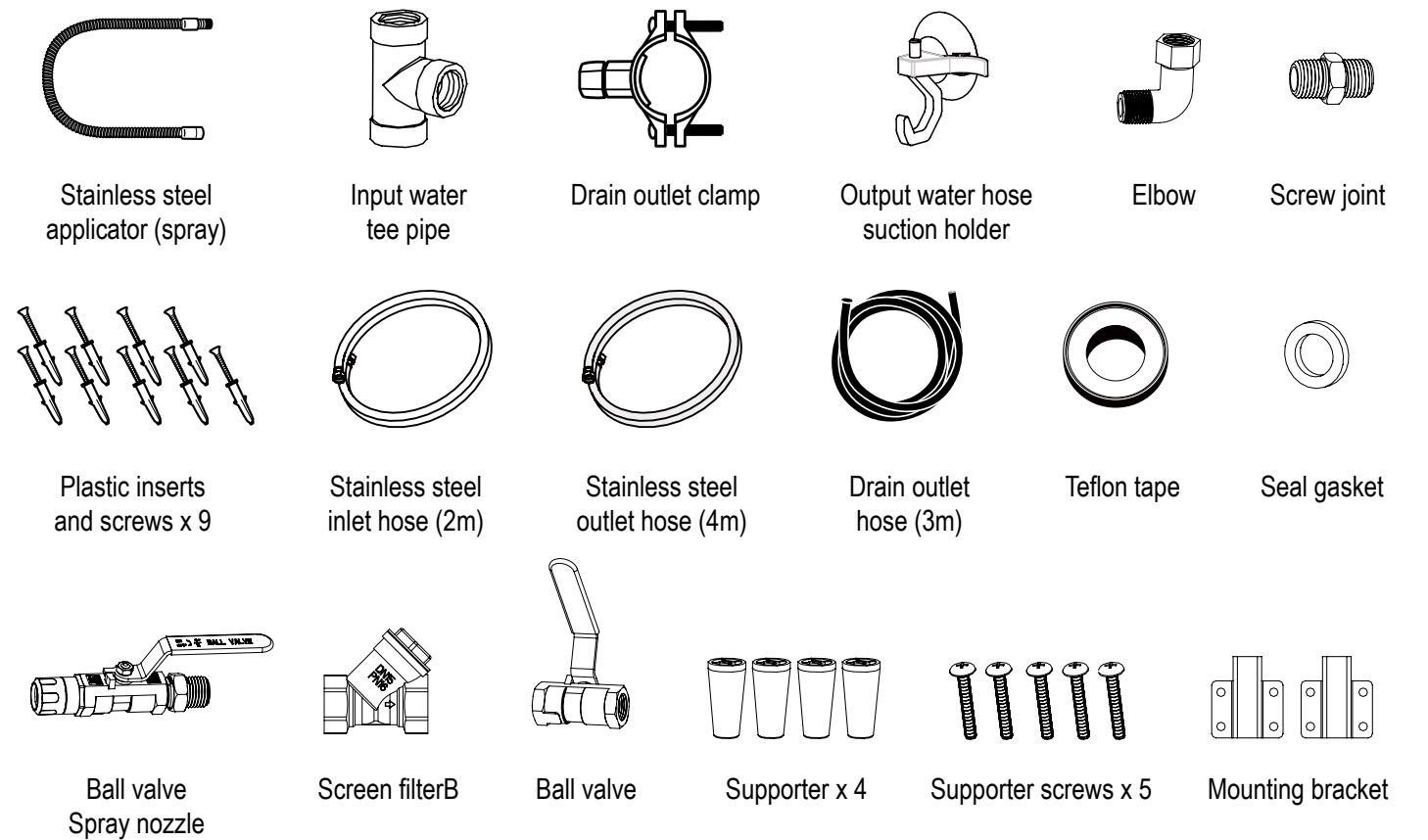
Check Place

- A. It is recommended to install in a place above a sink.
- B. To install at least 0.5m (19") away from heat sources such as kitchen stoves or other electrical heaters.

Check the tightness

- A. Please check if the place is firm enough before installation.
- B. Be careful during installation to avoid accident.

Accessories



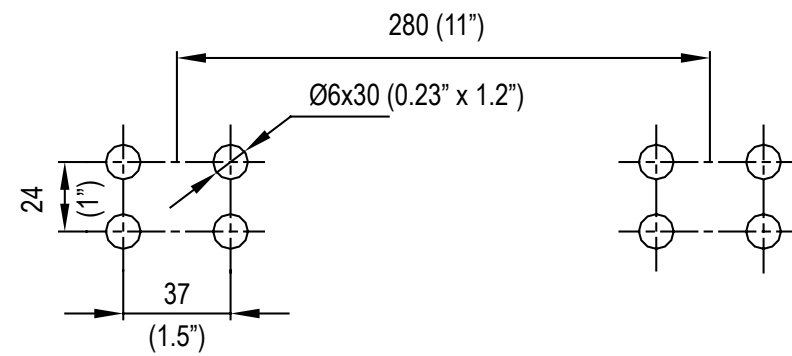
## installation instructions

### Electric Connection

- A. Consult qualified technician for electric connection.
- B. Socket to be within 1.2m (47") in distance from the machine.
- C. Use well grounded, 15 AMP electrical outlet.

### Install

- 1. Drill eight 6mm (0.23") holes with 30mm (1.2") depth in the wall above the top of the sink or counter as the figure.



- 2. Press the plastic anchor inserts into the holes as pictured below. Push the plastic anchor insert so that the opening is flush with the wall.

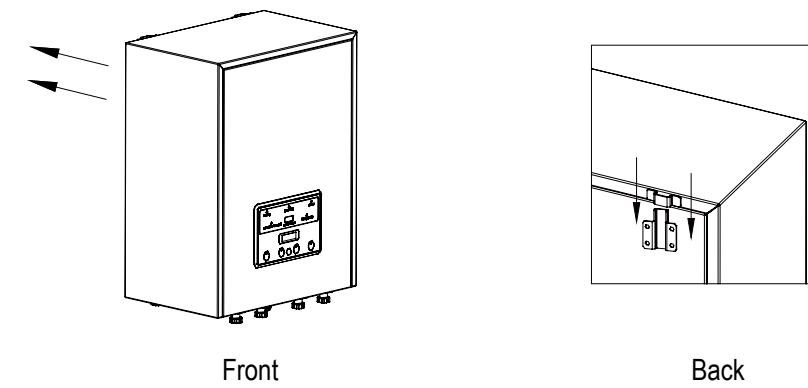


- 3. Place the mounting bracket onto the wall and fix with screws as pictured below.

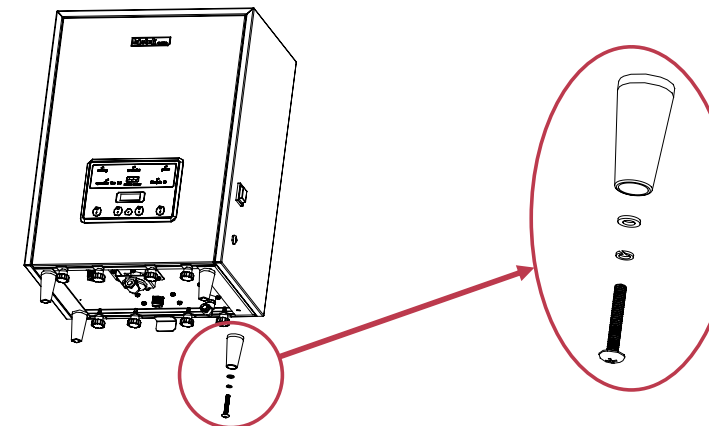


## installation instructions

- 4. Fix the machine on the mounting bracket. Be careful about the position of the mounting bracket.



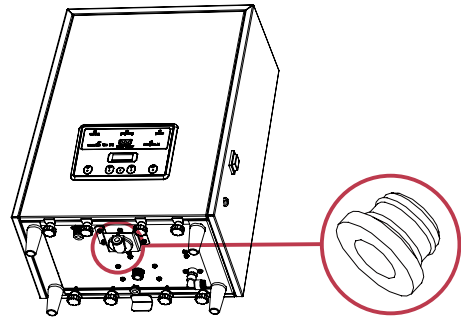
- 5. If need to place ozonated water generator on the table, please install the system feet follow by instruction fig.



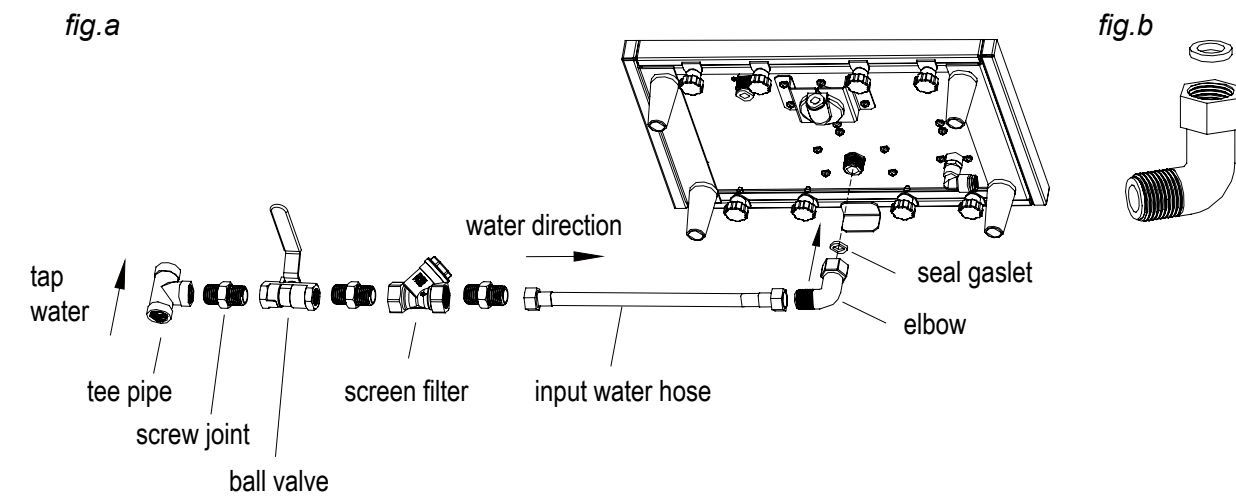
# installation instructions

## Pipeline Connection

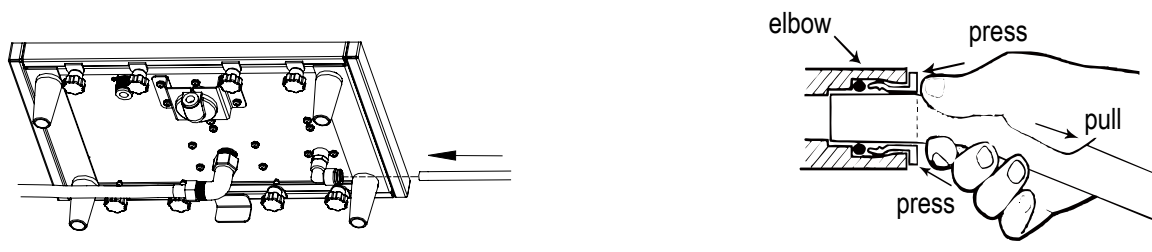
1. Remove the plug from the high flow ozonated water outlet.



2. Install the input water hose as the figure a.  
Note: The elbow must be used as figure b.

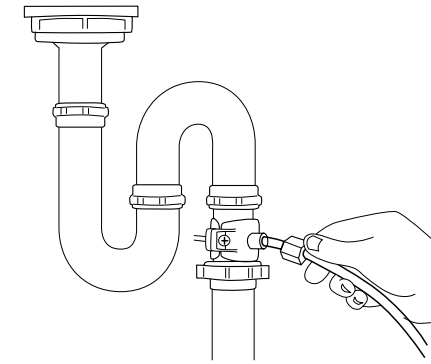


3. Install the drain water hose as the following figure.

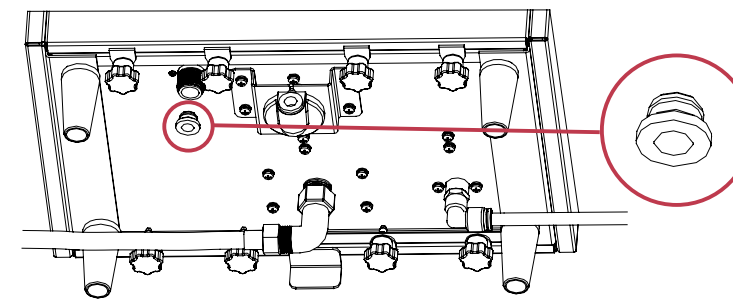


# installation instructions

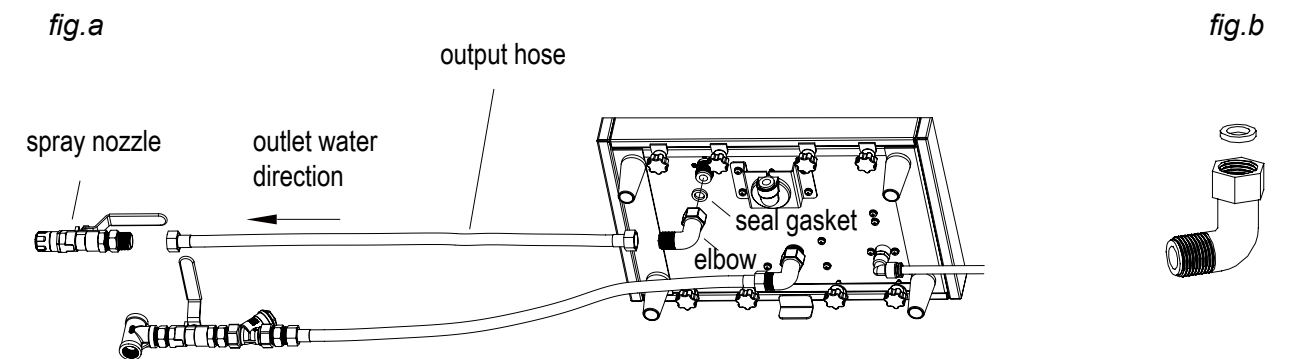
4. Connect the drain water hose with the main drain pipe using the drain outlet clamp after the drain pipe trap. (see page 13 for installation instruction of drain outlet clamp)



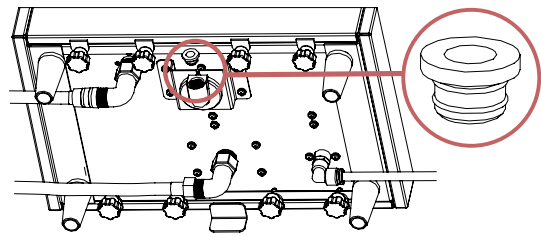
5. Remove the plug.



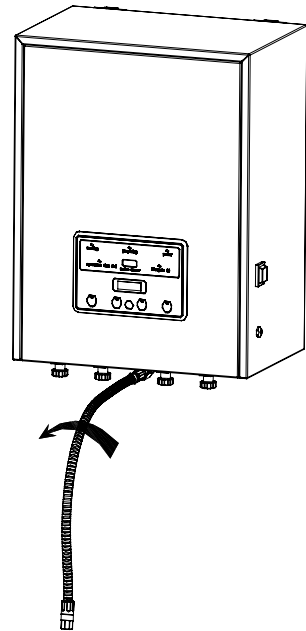
6. Install the output water hose as the figure a.  
Note:  
The elbow must be used as figure b.



7. Remove the plug.

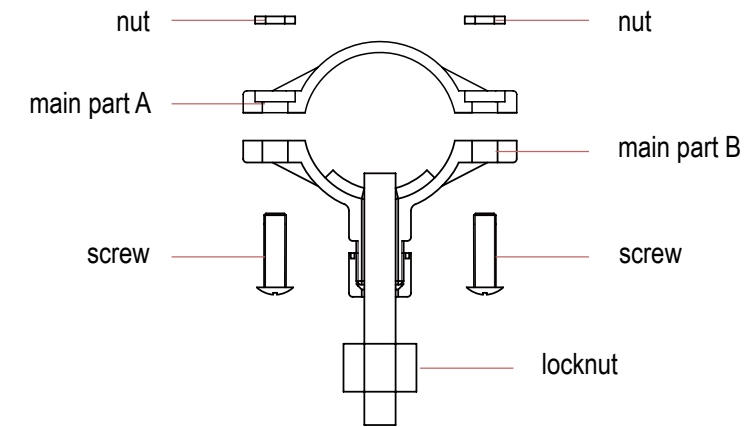


7. Install the stainless steel applicator.  
(Carefully screw the ozonated water applicator into the outlet base as the counter clockwise.)

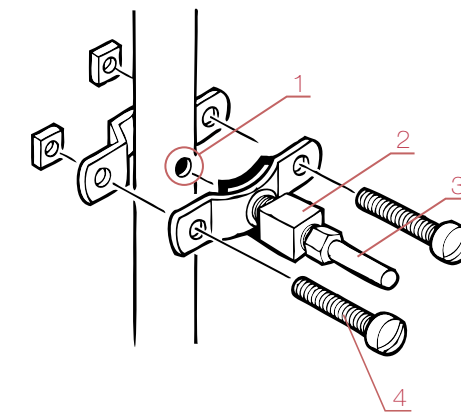


Installation of Drain Outlet Clamp

The Structure Of Drain Outlet Clamp



Install



1. Drill a  $\phi$  10mm (0.4") hole on the main drain pipe.
2. Fix the drain outlet clamp to the main drain pipe.  
Note: the lockhole of the clamp should be in line with the hole on the main drain pipe.
3. Put the hose and locknut around the drain hose and insert the drain hose into the lockhole.  
The hose should be extended to the main drain pipe for 5mm (0.2").
4. Fasten the locknut.

### Operation Start Up

**Before connecting the power cord to the electrical outlet, be sure that:**

- 1) The pipe and the plug have been removed from the inlet and the outlet.
- 2) The “water inlet”, the “water outlet” and “drain outlet” are all connected to the corresponding hoses and are properly installed.
- 3) The power supply meets the requirements as indicated in the product specifications.
- 4) Ensure that the input water pressure is between 2.0-7.0 kg/cm<sup>2</sup> (28-98 psi).
- 5) Ensure good ventilation in the room where the machine is used.

### Water Replenishment

Once the system has been installed and the power is turned on, the machine will automatically replenish purified water with both the “power” and “preparing” indicator light on. The process takes about 10-30 minutes for the first start-up operation, and no more than 10 minutes subsequently.

### Auto Refresh

After water replenishment, the unit will automatically refresh about 18 hours as part of the first time automatic start-up procedure. The unit will function normally during auto refresh except manual refresh.

### Operation Instructions

#### Hand disinfection (Button Control)

Operation:

Under standby mode, auto refresh, surface disinfection or produce wash, press “hand disinfection” button (you will hear one beep), WMS will dispense a 150l/h (39 gallon/hour) flow of ozonated water (under 3.0kg/cm<sup>2</sup> (42 psi) water pressure) with the green indicator above “hand disinfection” on. There will be some waste water discharged from the drain outlet.

#### Manual Stop:

The water flow stops automatically with one beep sound after 5 min, or press the “hand disinfection” button again to stop the water flow. The green indicator above “hand disinfection” will extinguish.

#### Hand disinfection (Sensor Control)

Operation:

Under standby, auto refresh, surface disinfection or produce wash mode, place hand in front of sensor for 0.5 seconds (you will hear one “beep”) (your hand must be between 2 to 10 centimeters (1 to 4”) away from the sensor ), WMS will dispense a 150l/h (39 gallon/hour) flow of ozonated water (under 3.0kg/cm<sup>2</sup> (42 psi) water pressure) with the green indicator above “hand disinfection” slowly flashing. There will be some waste water discharged from the drain outlet.

Manual Stop:

The water flow stops automatically with one beep sound after 20 seconds. Place hands in front of sensor for 0.5 seconds again to stop the water flow. The green indicator above “hand disinfection” will extinguish.

#### Turn On or Turn Off the Sensor Function:

Press the select button for 5 seconds to turn on or turn off the sensor function. The sensor function is on with sensor indicator light blinking, and the sensor function is off with sensor indicator light off.

### Produce Wash

Operation Method 1:

Press “produce wash” button, with green indicator above “produce wash” slowly blinks, system is in “produce wash” standby mode. This status continues for approximately 1 minute. Within the 1 minute, turn on the ball valve, after “beep” sound, system supplies 300l/h flow rate ozonated water and the green indicator above “produce wash” remains on.

Operation Method 2:

Under “surface disinfection” function, press “produce wash” button, the green indicator above “produce wash” turns on, and the indicator above “surface disinfection” turns off. The ozonated water flow rate changes from 600l/h to 300l/h (under 3.0kg/cm<sup>2</sup> (42 psi) water pressure).

Drain water:

There will be small amount of drain water coming from drain water hose.

Manual Stop:

Close the stainless steel ball valve (you will hear one beep), to stop the water flow. The green indicator above “produce wash” will extinguish.

(When the system is used again next time, turn on the ball valve, the system will automatically perform the function that performed last time before it stopped.)

## Surface disinfection

### Operation Method 1:

Press “surface disinfection” button, when green indicator above “surface disinfection” slowly blinks, system is in “surface disinfection” standby mode. This status continues for approximately 1 minute. Within the 1 minute, turn on the ball valve, after beep sound, system supplies 600l/h flow rate ozonated water and the green indicator above “surface disinfection” remains on.

### Operation Method 2:

Under “produce wash” function, press “surface disinfection” button, the green indicator above “surface disinfection” turns on, and the indicator above “produce wash” turns off. The ozonated water flow rate changes from 300l/h to 600l/h (under 3.0kg/cm<sup>2</sup> (42 psi) water pressure).

### Drain water:

There will be small amount of drain water coming from drain water hose.

### Manual Stop:

When finish using the system, turn off the ball valve, after “beep” sound, the green indicator above “surface disinfection” turns off. The system stops supplying ozonated water. (When the system is used again next time, turn on the ball valve, the system will automatically perform the function that performed last time before it stopped.)

### Notes:

*Under “surface disinfection” or “produce wash” mode, if user wanted to use “hand disinfection” function, the system will supply “hand disinfection” function as priority, after 20 sec “hand disinfection” function, system will automatically revert back to previous function.*

## Manual System Refresh Operation

Apply any time the power has been off referring to the following recommendations:

1 day: refresh for 2 hours

3 days: refresh for 6 hours

7 days: refresh for 12 hours

1 month: refresh for 18 hours

1-6 months: refresh for 24 hours

7-12 months: refresh for 36 hours

more than 12 months: refresh for 48 hours

*Note: Power off can cause decay to the concentration performance.*

Press “refresh” button for 1 second. The green indicator above lights up with one beep. The unit is in the process of refreshing the internal ozone generator. During the refreshment, there will be some wastewater discharged from the drain outlet. After 12 hours the machine completes the refresh process and enters standby mode. To manually stop this operation, press the “refresh” button again.

*Note: All functions are available for use during the manual refresh period.*

Press “select” button to display part lifecycle and operation time. When the lifecycle indicator is turned on, the numeric monitor will display the remaining lifecycle of the part in percentage. Go on pressing “select” button to shift to OG, dl, ro, or du in turn. The first two letters in the numeric monitor displays the selected item while the next two digits display the remaining lifecycle in percentage of the selected item. Press “select” button until the indicator of operation time is turned on. The numeric monitor will display the operation time of the unit or display error types, such as “EE2” or “EE50”.

### For example:

#### (1) Lifecycle display:

OG99—the remaining lifecycle of OG is 99%

ro99—the remaining lifecycle of RO is 99%

dl99—the remaining lifecycle of DI is 99%

du99—the remaining lifecycle of DU is 99%

#### Legend:

OG—Ozone Generator

ro—Reverse Osmosis filter

dl—De-Ionization filter



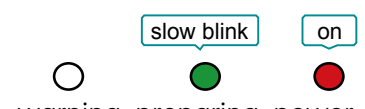
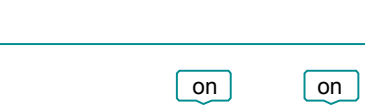
du—Destruct Unit

#### (2) Operation time display: 01 stands for the operation time of the unit is 1 hour.

#### (3) “EE2”- No input water or the input water pressure is too low.

“EE50”- System internal pressure is too high.

### Indicator and Display Reference Table

INDICATOR	DISPLAY MESSAGE	STATUS	BUZZER	REMARK
 <p>warning preparing power</p>		Ozone Generator is operating normally.	No	All functions are available for use.
 <p>warning preparing power</p>	<p>St 1</p> <p>St 2</p> <p>St 3</p>	In the process of auto refresh.	No	All functions are available for use. Waste water discharge.
 <p>warning preparing power</p>		In the process of pure water replenishment. Water replenishment process when re-connect power.	No	All functions are suspended. Waste water discharge.
 <p>warning preparing power</p>		Pure water replenishment during system operation.	No	All functions are available for use. Waste water discharge.

Replacement Parts Lifecycle Reference Table

INDICATOR	DISPLAY MESSAGE	STATUS	BUZZER	REMARK
	001 002	Ozone generator approaches end of lifecycle	Press refresh button or operation button, 2 beeps sounds.	Contact the supplier to replace the Ozone generator. 001 When Ozone Generator lasts 1% of remaining lifecycle. 002 When Ozone Generator lasts 2% of remaining lifecycle.
	r01 r02	RO filter approaches end of lifecycle	Press refresh button or operation button, 2 beeps sounds.	Contact the supplier to replace the RO filter. r01 When RO filter lasts 1% of remaining lifecycle. r02 When RO filter lasts 2% of remaining lifecycle.
	d11 d12	DI filter approaches end of lifecycle	Press refresh button or operation button, 2 beeps sounds.	Contact the supplier to change the DI filter. d11 When DI filter lasts 1% of remaining lifecycle. d12 When DI filter lasts 2% of remaining lifecycle.
	du1 du2	Destruct unit approaches end of lifecycle	Press refresh button or operation button, 2 beeps sounds.	Contact the supplier to replace the Destruct unit. du1 When Destruct unit lasts 1% of remaining lifecycle. du2 When Destruct unit lasts 2% of remaining lifecycle.

Trouble Status Reference Table

INDICATOR	DISPLAY MESSAGE	STATUS	BUZZER	REMARK
		No power		Check power supply
		Power supply failure		Contact supplier
	EE2	No input water or the input water pressure is too low.	Short buzzers for 10 seconds	1 All functions are suspended 2 Check the water supply 3 Check inlet connection 4 Check tap water pressure
	EE10	Ozone generator is broken	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Contact supplier
	EE21	Ozone generator reached end of lifecycle	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Contact supplier to change Ozone generator
	EE30	RO filter reached end of lifecycle	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Contact supplier to change RO filter
	EE35	DI filter reached end of lifecycle	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Contact supplier to change DI filter
	EE40	Destruct unit reached end of lifecycle	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Contact supplier to change destruct unit
	EE45	Obstruction during pure water replenishment process	Short buzzers for 10 seconds, 5 beeps after each function	1 All functions are suspended 2 Check the water supply 3 Contact supplier
	EE50	Increased internal pressure		1 All functions are still available for use 2 Check if there is block to drain 3 Contact supplier

**Lifecycle of Consumable Parts**

WMS Consumable Parts	Estimated Daily Use	Recommended Replacement Period
1 RO	3 hours	3 years
2 DI	3 hours	3 years
3 off-gas Destruct Unit	3 hours	3 years
4 Ozone Cell	3 hours	3 years
5 Relief Valve	3 hours	1 year
6 Outlet Check Valve	3 hours	1 year
7 Vertical Check Valve	3 hours	1 year
8 Power Supply	3 hours	Semipermanent
9 Electronic Solenoid Valve	Depending on usage	Semipermanent
10 Pressure Relief Valve	3 hours	Semipermanent
11 Water Flow Meter	Depending on usage	Semipermanent

Note: Calculation based on 330 days per year.

**WMS**

Items	Quantity
Ozonated water machine	1
Owner's manual	1
Stainless Steel outlet hose	4m (13')
Ozonated water applicator (spray)	1
Stainless steel inlet hose	2.0m (6.6')
Drain outlet hose	3.0m (10')
Drain outlet clamp	1
Plastic inserts and screws	9
Mounting bracket	2
Input water tee pipe	1
Stainless steel ball valve spray nozzle	1
Teflon tape	1
10 cm (4") Screw joint	5
Screen filter	1
Supporter & supporter screen	4
Elbow	2
Ball valve	1
Output water hose suction holder	1
Seal gasket	4

material safety data sheet for ozone gas (cont.)

product information

Product Name	Ozone
Synonyms	Triatomic Oxygen, O <sub>3</sub>
Chemical Formula	O <sub>3</sub>
Description	Gaseous oxidant
Molecular Weight	48.0
Other Designations	None

hazardous components

Components	Ozone Gas
Concentration	0-15% by weight
CAS#	10028-15-6
ICSC#	0068

physical data

Boiling Point (760mm Hg)	-111.9°C
Melting Point	-192.7°C
Gas Density (0°C and 1 atm.)	2.14 g/l
Vapor Density (air=1)	1.6
Water Solubility (20°C, 4% ozone in oxygen)	19 mg/l
Specific Gravity	1.614
Odor	Pungent
Appearance and Odor	Colorless gas with pungent odor generally detectable at 0.01 to 0.04ppm and a sharp disagreeable odor at 1.00ppm.

fire and explosion hazard

Flash Point	Not Applicable
Auto-Ignition Temperature	Not Applicable
Flammability	Non-Flammable but enhances combustion of other substances. Some reactions may cause fire or explosion.

material safety data sheet for ozone gas (cont.)

fire and explosion hazard (cont.)

Extinguishing Media	Use extinguishing media appropriate for the fuel source.
Special Fire Fighting Procedures	Use self-contained breathing apparatus. Ozone is an oxidizer.
Unusual Fire and Explosion Hazards	Ozone can react explosively with readily oxidizable substances and reducing agents.

reactivity data

Stability	Unstable. Decomposes to form oxygen under ordinary conditions thus is not encountered except in the immediate area where it is formed.
Reactivity	Reacts with any materials that can oxidize. Reactions with some materials such as alkenes, ether and other compounds are highly unstable and explosive.
Hazardous Decomposition	None. Ozone decomposes rapidly to oxygen (O <sub>2</sub> ).
Conditions to Avoid	Do not concentrate to high levels(>17%/wt.). The decomposition of ozone at high concentrations can become explosive.
Incompatibility	Avoid contact with materials that can oxidize.

health hazard data

Incompatibility	The Occupational Safety and Health Administration (OSHA) requires that workers not be exposed to an average concentration of more than 0.10 ppm (of ozone gas) for 8 hours. The short-term exposure limit of 15-minutes is 0.30 ppm.
Primary Route of Entry	Pulmonary system

**material safety data sheet for ozone gas (cont.)**

**health hazard data (cont.)**

Effects of Single Overexposure	May cause irritation of the respiratory tract experienced as nasal discomfort, dryness, irritation of the throat, pain or congestion of the chest, difficulty breathing or coughing. Irritation of the eyes, headache, nausea and drowsiness may also occur.
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**emergency first aid**

exposure	symptom/prevention	first aid
Emergency Over view	Ensure adequate ventilation in the area where ozone is present.	Remove from the presence of air containing ozone.
Inhalation	Irritating to respiratory system. Cough, headache, shortness of breath. Ventilation.	Remove from the presence of air containing ozone. Administer oxygen if necessary. If breathing is difficult or discomfort persists, obtain medical attention.
Skin	Not an expected route of entry.	
Eyes	Irritating to eyes. Ventilation. Face shield or eye protection with breathing protection.	Remove from the presence of air containing ozone. Rinse with water for several minutes and seek medical attention if necessary.
Ingestion	Not an expected route of entry.	

**exposure control/personal protection**

Engineering Controls	Ozone equipment should be operated with an ozone off-gas destruct process.
Ventilation	Ozone off gas should be collected and destroyed prior to release.
Respiratory	Respirator or self-contained breathing apparatus for concentrations greater than 0.10 ppm.
Storage	Ozone gas cannot be stored. Ambient ozone gas monitors should be used for detection.

**note**

The GO-3 Ozone WMS Series products are equipped with an off-gas separation and destruct process. Off-gas from the water stream is within EPA/ OSHA regulations and does not pose any threat.

**WMS**

<b>Product</b>		<b>Electrolytic Ozonated Water System</b>		
<b>Model No.</b>		WMS		
<b>Ozonated Water Flow Rate [Input Water Pressure 3.0kg/cm<sup>2</sup> (42 psi)]</b>		150±10% L/h (0.7 gpm)	300±10% L/h (1.4 gpm)	600±10% L/h (2.8 gpm)
<b>Ozonated Water Concentration (Input Water Temperature 60°F)</b>		≥ 4.0ppm)	≥ 2.0ppm)	≥ 1.0ppm)
<b>Ozonated Water Output Pressure</b>		0.3-0.5kg/cm <sup>2</sup> (4.27-7.1 psi)		
<b>Power Supply</b>	<b>Voltage</b>	□ 110-120V, 50/60Hz □ 230-240V, 50/60Hz		
	<b>Power Consumption</b>	140W		
<b>Input Water</b>	<b>Water Quality</b>	Municipal Water		
	<b>Water Temperature</b>	5°C-30°C (40°F-86°F)		
	<b>Water Pressure</b>	2.0-7.0kg/cm <sup>2</sup> (28-98 psi)		
	<b>Water Flow</b>	≥1200L/h (5.2 gpm)		
<b>Environment</b>	<b>Ambient Temperature</b>	5°C-30°C (40°F-86°F)		
	<b>Room Condition</b>	Good Ventilation		
<b>Appearance</b>	<b>Dimension(mm)</b>	W410×D270×H545 (16"W×11"D×22.25"H)		
	<b>Model Type</b>	Wall Mounted		
	<b>Net Weight</b>	22kg (48.5 lbs)		



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