



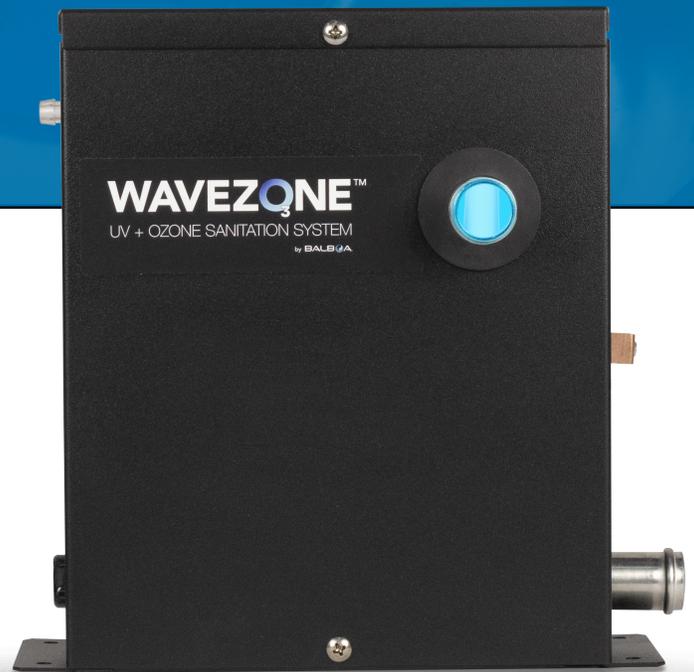
# Balboa WAVEZONE<sub>3</sub>™

## UV + OZONE SANITATION SYSTEM

The science of water treatment process using ozone and ultraviolet radiation! Disinfect your water naturally.

### OVERVIEW

- WAVEZONE<sub>3</sub>™ maximizes oxidation power.
- WAVEZONE<sub>3</sub>™ disinfects water by killing viruses and biological contaminants.
- WAVEZONE<sub>3</sub>™ reduces the use of chemical levels which means reducing the discomfort of skin and eye irritations.
- WAVEZONE<sub>3</sub>™ has low power consumption
- WAVEZONE<sub>3</sub>™ has been designed & tested specially for Spa and Swim Spa Applications
- WAVEZONE<sub>3</sub>™ is available in 240V, 50/60Hz
- WAVEZONE<sub>3</sub>™ is UL/cUL approved.



### FOR MORE INFORMATION

Visit us online: [www.balboawater.com/wavezo3ne-SanitationSystems](http://www.balboawater.com/wavezo3ne-SanitationSystems)

# WAVEZONE™

## UV + OZONE SANITATION SYSTEM

The WAVEZO<sub>3</sub>NE™ designed by Balboa, the leader in reliability in spa controls for over 20 years. This compact WAVEZO<sub>3</sub>NE™ UV + Ozone Generator Combo was created specifically to withstand the demanding environment of the hot tub. Our compact WAVEZO<sub>3</sub>NE™ UV + Ozone Generator Combo has a smaller footprint while saving energy. Balboa's WAVEZO<sub>3</sub>NE™ UV + Ozone Generator Combo's metal enclosure protects the unit from any harsh corroding environments.

## WHY BALBOA'S WAVEZO<sub>3</sub>NE™ IS SUPERIOR

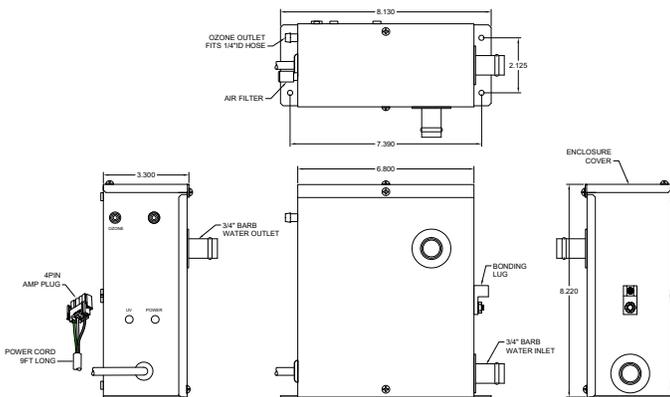


- ✓ Powerful UV and ozone generators designed for spa and swim spa applications
- ✓ Electronic UV ballast and ozone power supply
- ✓ US manufactured UV Lamp
- ✓ LED indicator lights
- ✓ Low power consumption
- ✓ Available in 240V, 50/60Hz
- ✓ Available with single ozone cell and dual ozone cells
- ✓ Ozone output options from 50mg/h to 200 mg/h
- ✓ Unique design CD ozone cell with solid stainless-steel electrode for exceptional longevity
- ✓ Ozone cells are fully potted with epoxy for complete water ingress protection
- ✓ 316L stainless steel with special heat-treated UV reactor – No degrading – No melting
- ✓ Electrical enclosure is made from galvanized steel with powder coated
- ✓ Cool operation with low heat generation
- ✓ Super low production and field failure rates
- ✓ Small compact unit requires very minimal room for installation
- ✓ Mounting tabs for easy installations
- ✓ Extra thick inlet/outlet barb to prevent breakage
- ✓ Silicone air filter included

# WAVEZONE<sup>TM</sup><sub>3</sub>

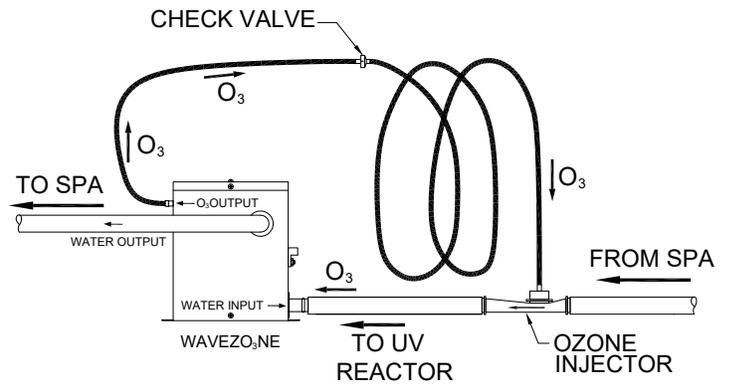
## SANITATION SYSTEMS

### DIMENSIONS



### INSTALLATION

(Ozone accessories kit P/N 54900 sold separately- see page 4)



### SPECIFICATIONS

BWG P/N NUMBER	SYSTEM VOLTAGE	LAMP WATTAGE	RATED AMPERAGE	SYSTEM FREQUENCY	FLOW RATE	QTY OZONE CELL	OZONE OUTPUT (2LPM)	CONNECTION SIZE	MAX VOLUME (GALLONS)	COMPLIANCE MARKS	AGENCY MODEL NUMBER
59326-01	230V	7W	0.5A	50/60Hz	6 GPM	1	50 mg/h	3/4" Barb	600	UL/cUL CE, RCM	UVOZ127-XX
59327-01	230V	7W	0.5A	50/60Hz	6 GPM	1	100 mg/h	3/4" Barb	1000	UL/cUL CE, RCM	UVOZ127-XX
59328-01	230V	7W	0.9A	50/60Hz	6 GPM	2	150 mg/h	3/4" Barb	1500	UL/cUL CE, RCM	UVOZ227-XX
59328-01	230V	7W	0.9A	50/60Hz	6 GPM	2	200 mg/h	3/4" Barb	2000	UL/cUL CE, RCM	UVOZ227-XX
59417	120V/230V	18W	0.5A	50/60Hz	6 GPM	1	50 mg/h	3/4" Barb	2000	UL/cUL CE, RCM	UVOZ137-XX

# WAVEZONE<sup>TM</sup><sub>3</sub>

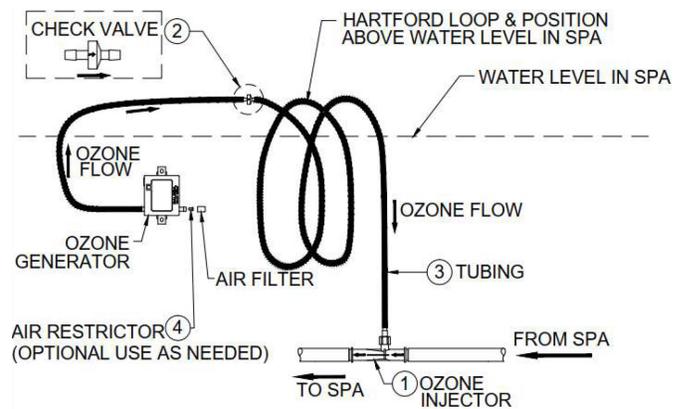
## SANITATION SYSTEMS

### OZONE ACCESSORIES KIT

PART NUMBER: 54900  
(sold separately)



### INSTALLATION



### PARTS

Key	Description	Qty	UM	
1	Ozone Injector	1	EA	
2	Valve Check 1/4 inch to 1/4 inch	1	EA	
3	1/4 x 3/8 tubing	5	FT	
4	0.015 Orifice Air Restrictor	1	EA	

### NOTES

1. Installation diagram is for reference only. Refer to spa manufacturer's installation instructions manual for specific instructions suitable for your spa.
2. Only parts shown in the Part List are included. Other parts shown in installation diagram are for references only.
3. Air restrictor to be used as needed to reduce air input to ozone and to spa

# WAVEZONE<sup>TM</sup><sub>3</sub>

## SANITATION SYSTEMS

### UV/OZONE COMBO: POWERFUL SANITATION METHOD

1. UVC radiation “kills” bacteria and viruses in the water that are exposed to the UV rays.
2. Ozone (O<sub>3</sub>) is a powerful oxidant that oxidizes organics contaminants in water.
3. UV generators and Ozone generators are being widely used for spa and hot tub applications today.
4. When combining Ozone and UV together in a reactor chamber, the sanitation power is multiplied.

### THE SCIENCE BEHIND IT.

#### AOP: ADVANCED OXIDATION PROCESS

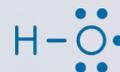
AOP is a set of chemical reaction process used to sanitize water through reaction with hydroxyl radicals.

AOP is based on production of hydroxyl radicals. The more hydroxyl produced the better sanitation power.

The chemical formula of hydroxyl radical is (·OH).

Hydroxyl radical is highly reactive. It is the strongest oxidant in water.

Hydroxyl radicals oxidize unselectively both organic and inorganic contaminants.



#### HOW HYDROXYL RADICALS ARE FORMED IN THE UV/OZONE CHAMBER?

1.  $O_3 + UV \Rightarrow O_2 + O \cdot$
2.  $O \cdot + H_2O \Rightarrow 2 (\cdot OH)$ . 2 Hydroxyl radicals
3.  $2 (\cdot OH) \Rightarrow H_2O_2$ . Hydrogen peroxide is an oxidant agent.
4.  $H_2O_2 + UV \Rightarrow 2 (\cdot OH)$ . 2 Hydroxyl radicals