



WhirlpoolOzonator

Let nature clean your spa

- Natural sanitation
- Easy to install and service
- RoHS compliant and EMC approved
- Compact design
- Low power consumption

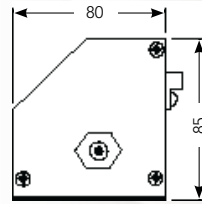
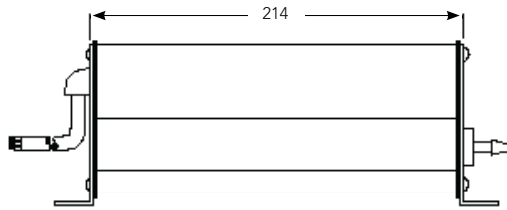


BALBOA
water group

Ozonator Drawings

Measurement Drawings

20-5134



Dimensions in mm.

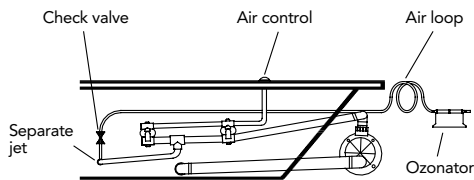
Description: 21-5134

Spa ozonator 178mg/h, 230V/50Hz, Includes transformer, cable 0,5m. 1.5m 6 mm I.D. tube and check valve. With UV lamp - lifetime 20,000 hours with recommended airflow of 1.4 l/min.

Inner Workings

The spa ozonator works by converting oxygen into ozone. When an air stream passes a corona discharge (CD) chip or an UV lamp – ozone is created. The airflow is created through a small tube mounted on the ozonator. The flow created by the whirlpool pump creates a venturi suction, which draws oxygen through the ozonator. The oxygen is then transformed into ozone and added to the water, where it dissolves.

Connection to venturi on separate jet



It is recommendable to activate the ozonator together with a filtration pump on a spa. For optimal sanitizing effect ozone must be added as deep as possible in the tub. The venturi airspeed is optimal for creating ozone. Higher air speed will reduce the lifetime of the ozonator and eliminate the effect.

Ozone improves both the water quality in your spa and also helps chemical sanitizers work more efficiently. It is considered the most powerful oxidizer and disinfectant and is the alternative water sanitizer to traditional chemicals such as chlorine and bromine. Ozone kills bacteria 3,000+ times faster than chlorine and bromine. It will not burn the eyes or leave them red and irritated. Ozone will not irritate or dry out skin, but rather eliminates disease-causing micro-organisms. Essentially, ozone in the quantities needed for water purification, does not irritate humans or equipment.

Production Technologies



Ultraviolet (UV) Light – Light Energy

This is how ozone is produced in the upper atmosphere via UV rays of the sun.

UV Ozonators:

Use a UV lamp to produce ozone.

A special UV lamp gives off a specific frequency instantly converting oxygen (O_2) molecules into ozone (O_3 active oxygen molecules) inside the ozonator.



Corona Discharge Chip (CD) – Electrical Energy

This is how ozone is produced in the lower atmosphere via lightning.

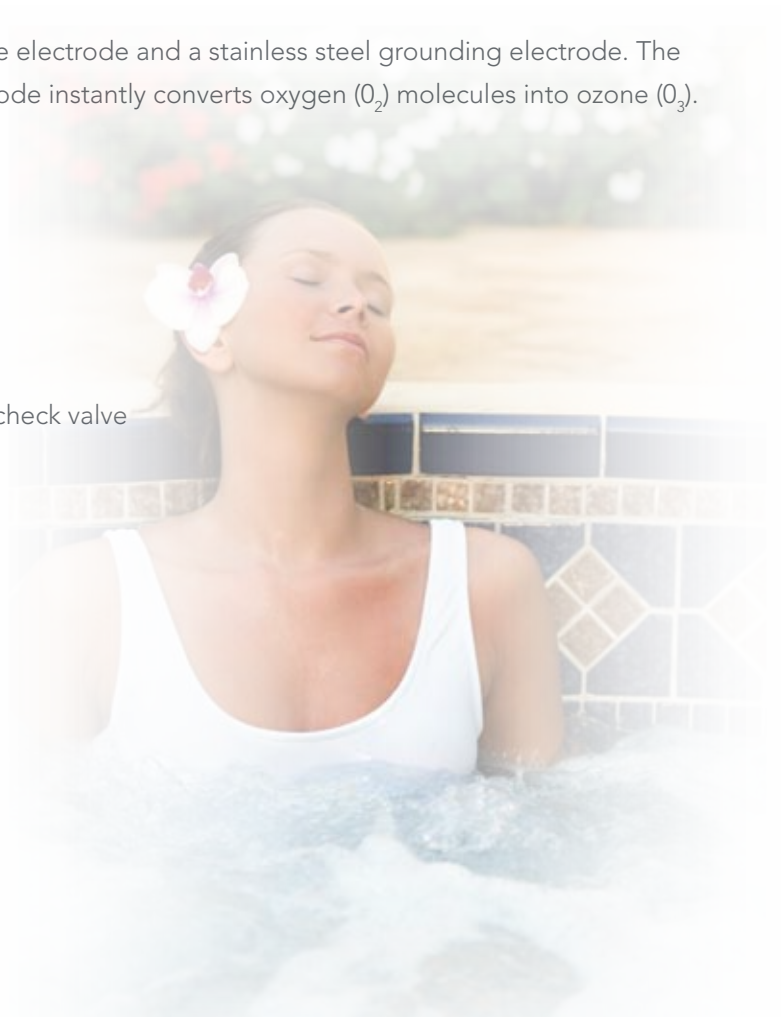
CD Ozonators:

Use a CD electrode to produce ozone.

Oxygen (O_2) passes through an air gap between a high voltage electrode and a stainless steel grounding electrode. The “energy field of electrons” created by the high voltage electrode instantly converts oxygen (O_2) molecules into ozone (O_3).

Model Overview

- Spa ozonator 178 mg/h
- 230V/50Hz
- Includes transformer, cable 0.5 m, 1.5 m 6 mm I.D. tube and check valve
- With UV lamp – lifetime 20,000 hours
- Recommended airflow of 1.4 l/min
- Article number: 20-5134



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