



## WhirlpoolOzonator

Let nature clean your whirlpool bath

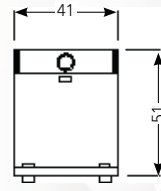
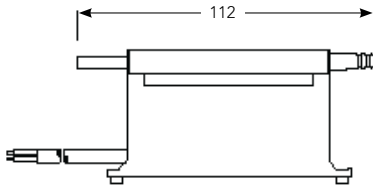
- Natural sanitation
- Easy to install and service
- RoHS compliant and EMC approved
- Compact design
- Low power consumption



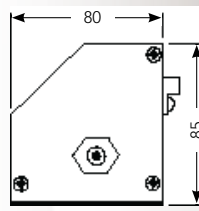
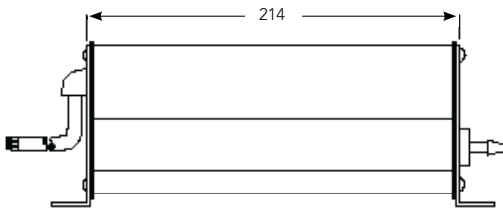
# Ozonator Drawings

## Measurement Drawings

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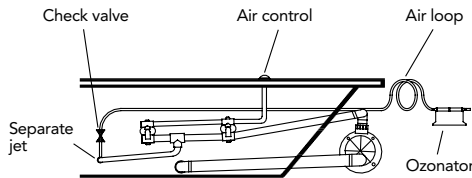


Dimensions in mm.

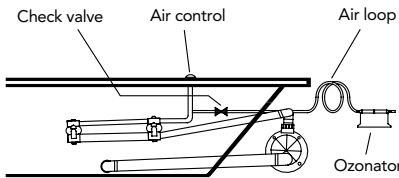
## Inner Workings

The whirlpool 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 and on the airline of the whirlpool. 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



### Connection to airline



It is recommendable to activate the ozonator together with a therapy pump in a whirlpool. 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 whirlpool 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

- Whirlpool ozonator 50 mg/h
- 230V/50Hz
- Includes transformer, cable 0.5 m, 1.5 m 6 mm I.D. tube, check valve and clamp
- With Corona discharge chip – lifetime of 500 hours
- Recommended airflow of 2 - 10 l/min
- Article number: 20-5130



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