



## 10G ozone generator with transformer C-6890T



### Technical characteristics

Reference: C-6890T  
10 grams per hour  
Coverage 5000 m<sup>2</sup>  
Power supply: 220VDC - 50Hz  
Working current: <370mA  
Working power: <80W  
Output voltage: AC4.0 ± 0.5KV  
Transformer measurements: 150 x 60 x 42 mm  
Ozone tube measurements: Ø 60 x 260 mm

Ozone is a 100% natural and ecological gas, composed of 3 oxygen atoms (O<sub>3</sub>) that protects us from the sun's ultraviolet rays by forming a layer called the ozone layer.

Ozone has a molecule characterized by a high oxidant potential higher than that of chlorine more than 100 times. Many studies have shown that compared to traditional commercial disinfection techniques that only disinfect where they are sprayed, ozone gas disinfection appears to remove more than 99% of bacteria and viruses present in the air and on surfaces because by saturating the treated environment reaches the most hidden points, in addition, it is a 100% natural and ecological disinfectant because it turns into pure oxygen after use.

Ozone treatments renew and oxygenate the air in closed spaces, eliminating odors and all kinds of harmful agents.

Ozone, thanks to its disinfection and sterilization power, can be used to disinfect small, medium and large environments, cars, trucks, clinics, hotels, offices, hospitals, apartments and any other environment with maximum efficiency. Ozone has the power to disinfect surfaces, objects, equipment, seats, and fabrics.

We can use ozone in the domestic sphere. It has multiple uses in the home, where it purifies the air and simplifies the tasks of cleaning surfaces and fabrics, eliminating bad odors from clothing, footwear, or stuffed animals.

Because ozone is heavier than air and to achieve the highest efficiency, the generator has to be located at a certain height.

Place the generator outside a chamber, injecting the OZONIZED air through a small compressor or fan, through an opening made for this purpose.

The injected air must be clean and dry. Moist air will cause damage and can cause nitric acid precipitation. A good flow of air forced by a fan reduces the concentration of the ozone produced, but increases the net production. The more ozone the better, the less concentrated too, since it is less irritating and oxidizing.

For OZONIZED water applications, the same procedure is used to inject the enriched air through a compressor. As a guide, we can indicate that for a cold room of about 75m, around 40-80 mg / hour are required.

Example concentrations of ozone can be:

- Environmental ozone for refrigerated fruit: from 2 to 4 mg / m.
- Environmental ozone for refrigerated meat: 2, 4 and up to 10 mg / m.
- Environmental ozone in slaughterhouses and cutting plants: 0.02 to 0.03 mg / m.
- Ozone in cold rooms to avoid the formation of molds: 0.6 to 1.6 mg / m.
- Maximum value of ozone in an environment where people must stay for 8 hours: 0.5 parts per million = 0.1 mg / m.

The protection box must be suitably ventilated, both to avoid the accumulation of heat from the transformer, and to avoid high concentrations of ozone, which can deteriorate some equipment materials.

Ozone is highly oxidizing. Discard iron flanges and screws, use only plastic, stainless steel, brass or non-oxidizable and ozone inert materials.

Install all regulatory protection elements (fuses, PIA's, differential, etc.) in the primary of the transformer and away from the ozone outlet.

They can use the CEBEK cyclic timer ref. I-111 with separately adjustable times.

The new regulation requires the periodic disconnection of the ozone producing units, which are fed by the power grid. For this, it is necessary to connect it through a cyclical timer whose rest and work can be adjusted independently.



Take the proper safety precautions when handling the equipment and use the regulatory protections.

Protect the equipment and put the appropriate indications to avoid possible manipulations and accidents by users and third parties.

Protection boxes must be sufficiently ventilated to avoid ozone concentrations that can oxidize the components.

Apply the regulations established by the laws.

Ozone generators are components that work with HIGH VOLTAGE, therefore they are NOT components for DIY. They should only be connected and manipulated by persons with sufficient technical knowledge about connection, manipulation and protection methods, tools and suitable materials in equipment that works with high voltages.

Educate yourself properly about ozone, its properties and dangers. Ozone is an irritant gas, the limit for a regular occupational exposure of up to 8 hours a day, 5 days a week varies between 0.1 and 0.06 ppm according to different European legislation. Can reach 0.3 ppm if exposure is limited to 15 minutes.

