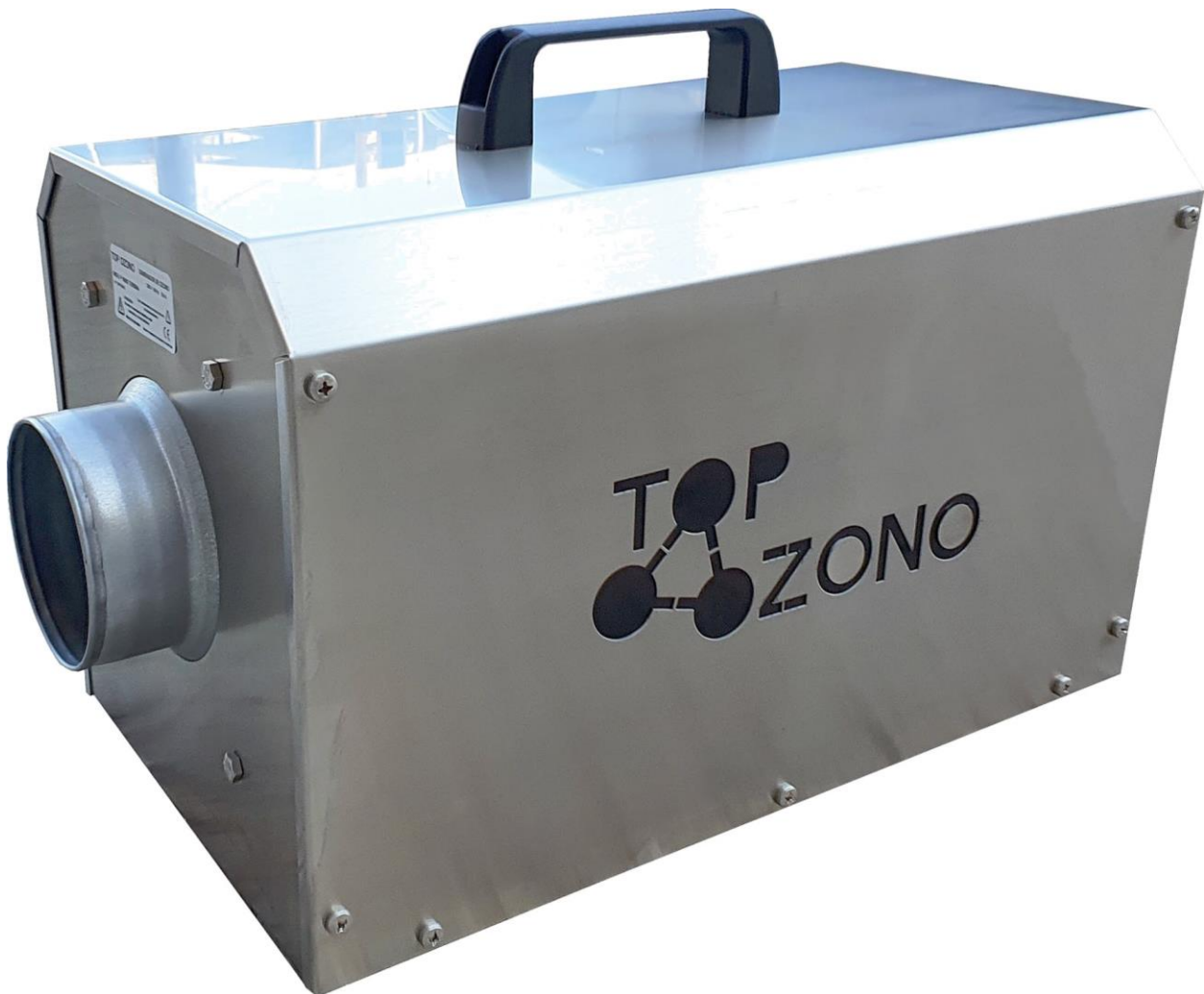


# Ozone Generator

P16.000TTA

Installation and use instructions





Read this manual carefully before installing and/or connecting the generator



Caution: Do not tamper with or open the generator while is connected to the mains. Risk of download



Do not use in environments where the temperature may exceed 50°C



Protect from the elements and preserve it from humid and/or corrosive environments

## Safety Instructions

Read this manual completely before installing your computer.

Electrical connections must be made by qualified personnel and following current regulations. Make sure that the electrical installation of the equipment has a ground shunt and differential switch according to current regulations.

Do not tamper with the equipment while it is connected to the mains. Failure to respect this indication can cause serious harm.

Do not use the equipment if any defect in the electrical conductors (power cord) is observed and go to the technical service as soon as possible.

The installation of the equipment should be done in a clean and dry place.

Ozone treatment cannot be applied in the presence of people and/or animals. The treated place should be properly ventilated before use.

For your safety do not store or use flammable products in the place where the equipment is installed, it can produce dangerous chemical reactions on contact with other chemical components.

Use only conduction of ozone-resistant materials for the connection of the ozone outlet.

Install the equipment in a place where the environment is clean, free of moisture and grease to prevent dirty air from entering the equipment and reduce its performance and/or deterioration.

The maintenance and cleaning and any action on the equipment must be carried out by authorized personnel.

**VERY IMPORTANT:** The installation of the generator and any manipulation that is carried out in it must ALWAYS be done with the equipment disconnected from the electrical network.

## Technical characteristics

<b>Power Supply</b>	<b>230V 50Hz</b>
<b>Consumption</b>	0.9 A
<b>Dimensions</b>	LxWxH 480x250x280 mm
<b>Weight</b>	8 kg
<b>Production</b>	16.000 mg/h max
<b>Elect Protection</b>	Fuse 2 A
<b>Box</b>	Stainless Steel case
<b>Output</b>	Turbine 460 m <sup>3</sup> /h

## General Description

The portable Ozone Generator model P16000TTA built in a robust stainless steel case, is a direct discharge generator for environmental treatments or in ducts, both ventilation as air expulsion. The Generator incorporates a powerful turbine that takes the air from the environment in which it is installed and, previously passing through the particulate filter installed in the rear, propelling it outwards through the Ozone generating valve. The ozonated air is expelled into the environment through the standardized ventilation outlet, with a diameter of 100 mm, which is made of galvanized steel.

The equipment, with dimensions and its handle for transport, is designed for applications where a mobile generator is required, of high production, With it, we will achieve cleaning and deodorization in all types of premises and rooms by treating the ambient air thanks to the high oxidation capacity of ozone.



## Equipment installation

It is convenient to install the equipment in a dry and ventilated place, since the ozone generated by the equipment is transformed from the ambient air by an electric discharge reaction inside of the reactor (corona discharge). The humidity and dirt of the air that enters the equipment can dirty the electrical valves where ozone is generated and reduce their performance and even deteriorate them, which can cause a malfunction in the equipment.

Equipment life and maintenance intervals depend on these installation conditions.

If the application of ozone is needed in a wet place or with dirty environment (dust, grease, etc.), the generator is required to be installed in another room with the conditions suitable and carry the ozone conducted by means of a conduit of diameter 100 mm of steel, galvanized, pvc, ..., or any other material resistant to oxidation

The length of this tube should not exceed 7 - 8 m, to ensure a correct flow of ozone.

Connect the equipment to the mains and turn on the switch on the back. The generator will start producing ozone until we turn off the switch.

If the use of some type of timer external to the equipment is required, one that controls the electrical supply of the equipment (the application of 230V or the cutting of the food) but no element that regulates the voltage (such as a lighting regulator) should be used.

## Application

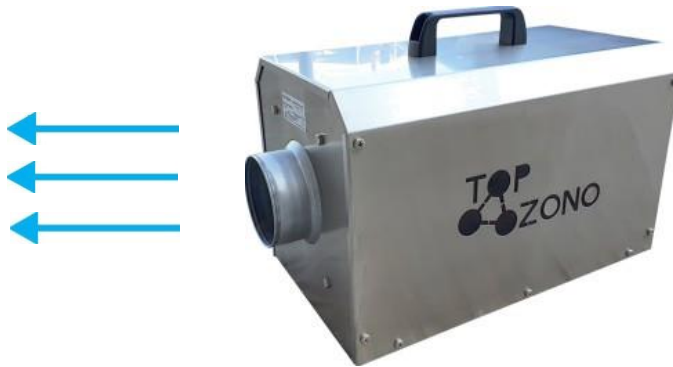
The ozone generator model P16.000TTAhas, among others, the following applications:

### Shock treatments

Completely close the room to be treated and, with the generator located outside, carry the air with ozone conducted by a tube (corrugated, galvanized, pvc ...) to the room to be treated.

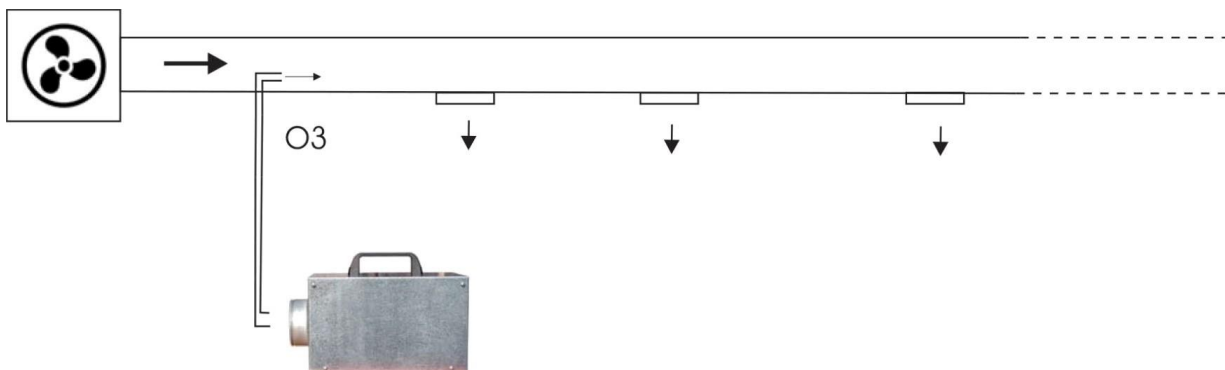
If the generator is placed in the same treatment room, the ozone will circulate inside the equipment, which being an oxidizing component, will reduce the useful life of the team.

Once the application time has elapsed, be careful to wait between 20-30 minutes before entering the room so that residual ozone is completely reduced or ventilate correctly the room.



### Air conditioning ducts

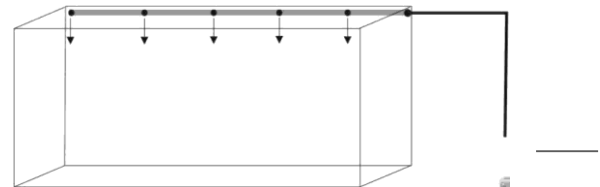
Installing the generator as close to the duct as possible, injecting the ozonated air into the interior of the distribution duct, always after the impeller turbine. The generator should operate only when the air circuit (can be fed in parallel with the turbine engine) to ensure that ozone is only generated when there is air flow to distribute it.



### Cold rooms

Installing the generator as close as possible to the chamber (never inside) and injecting the ozone through a hole in the chamber to pass the duct

For large cameras, a distribution tube can be installed inside to better distribute ozone throughout its volume.



**Treatments in clean rooms and laboratories**

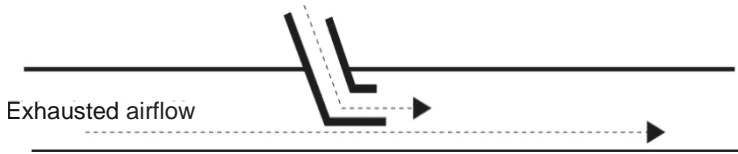
For this application, a high concentration of ozone in the environment is necessary to perform a shock treatment. Make sure there are no people or animals in the room during the treatment process. Once finished, let go for 20 to 30 min before entering

**Odor removal in air extraction systems**

In extractor hoods, ozone is injected into the exhaust chimney so that the ozone can perform its effect during the entire time that the air is expelled circulates through the chimney. In these cases, the longer the chimney, the greater the oxidation effect of the substances that generate bad odors and their effectiveness, since ozone performs its function during the time it is in contact with the fumes of exit.

By means of a tube, the generator outlet is connected to the smoke outlet duct, through a T the size of the outlet tube with reduction to 100 mm for the inlet of ozone, or by making a hole and introducing the ozone outlet tube, preferably in the same direction of the outflow airflow to facilitate entry and diffusion of ozone.

Ozone



Exhausted airflow



Direct injection system in duct





# Certificate of Conformity

European conformity

## Declaración de Conformidad

Conformidad Europea

The manufacturer  
El fabricante

**TOP OZONO, SL**

B66297524  
Av. Mistral 24  
08015 Barcelona

In accordance with Directive 2006/42 /EC of the European Parliament and of the Council, of May 17, 2006, relating to machines, the product indicated below, based on its conception and construction, as well as the version placed on the market by Top Ozono, complies with the mandatory basic requirements of safety and health of the **CE** directive.

De acuerdo con la Directiva 2006/42/CE del Parlamento Europeo y del Consejo, de 17 de mayo de 2006, relativa a máquinas, el producto indicado a continuación, en base a su concepción y construcción, así como a la versión puesta en el mercado por Top Ozono, cumple con los requisitos básico obligatorios de seguridad y sanidad de la directiva **CE**

Product Description  
Descripción de producto

**Ozone Generator / Generador de Ozono**

Product type  
Modelo

**P 16000 T TA**

In addition, it is in compliance with the following provisions of European Directives:

Además, está en conformidad con las siguientes disposiciones de Directivas Europeas:

**Directiva 2014/35/UE del Parlamento Europeo y el Consejo**, de 26 de febrero, sobre la armonización de las legislaciones de los Estados miembros en materia de comercialización de material eléctrico destinado a utilizarse con determinados límites de tensión.

**Directiva 2014/30/UE del Parlamento Europeo y del Consejo**, de 26 de febrero de 2014, sobre la armonización de las legislaciones de los Estados miembros en materia de compatibilidad electromagnética.

**Directiva 2014/68/UE del Parlamento Europeo y del Consejo**, del 15 de mayo de 2014, sobre la armonización de las legislaciones de los Estados miembros sobre la comercialización de equipos a presión.

**Directiva 2011/65/UE del Parlamento Europeo y del Consejo**, del 8 de junio de 2011, sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos.

**Directiva 2009/125/CE del Parlamento Europeo y del Consejo**, de 21 de octubre de 2009, por la que se instaure un marco para el establecimiento de requisitos de diseño ecológico aplicables a los productos relacionados con la energía.

**Directiva 2004/40/CE del Parlamento Europeo y del Consejo**, de 29 de abril de 2004, sobre las disposiciones mínimas de seguridad y de salud relativas a la exposición de los trabajadores a los riesgos derivados de los agentes físicos (campos electromagnéticos)

1 de Enero de 2020

  
**TOP OZONO, S.L.**  
N.I.F. B66.297.524