

**TOP
ZONG®**



Ozone Generator

MOD. DB 4000 AC

Ozone Generator DB 400 AC



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



Caution: Do not manipulate or open the generator while it is connected to the electrical grid. **Risk of electric shock**



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

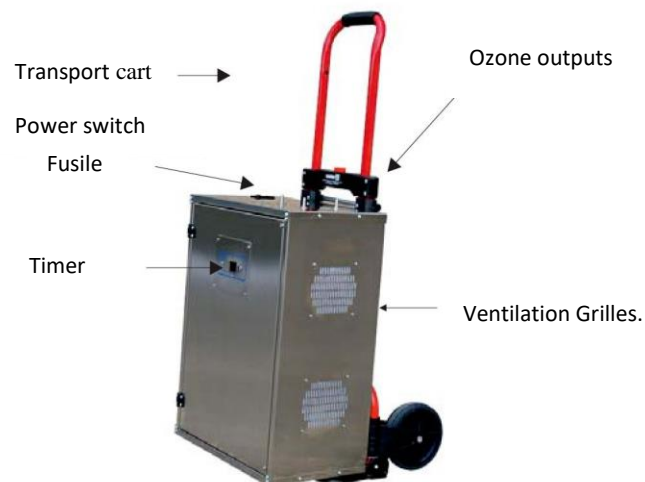


Protect from the elements and keep it away from humid and/or corrosive environments

The **DB4000AC** model is an ozone generator designed for wine barrel treatment application (up to 3 barrels) by diffusing ozone inside them using the internal compressor that the unit incorporates.

Additionally, the equipment can be used for ozone environmental treatments.

This model is constructed in a stainless steel casing. Regulation is carried out using a digital cyclic timer



Technical characteristics

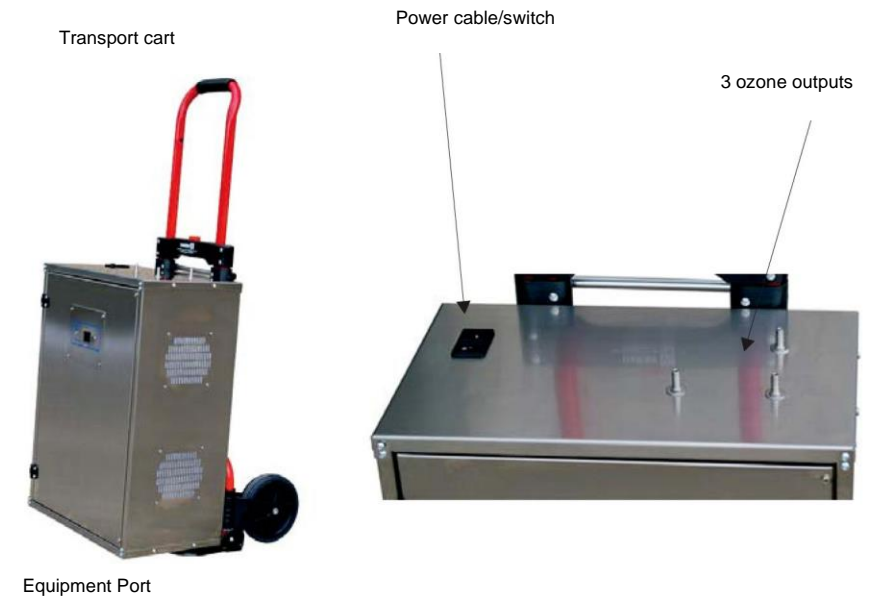
Features	
Power Supply:	230 V 50 Hz
Consumption:	160 W
Dimensions:	645x405x248 mm
Production:	4.000 mg/h
Regulation:	Digital timer
Output:	Internal compressor

- All features indicated above are subject to change without prior notice.
- Do not open without first disconnecting it from the power grid, and do not manipulate it by unauthorized personnel
- If the supply voltage exceeds $230V \pm 10\%$ or if there is excessive overvoltage in the line, the generator may not function properly and may deteriorate
- If the power cable and/or the connection are damaged, do not use the generator. In case of any malfunction, it must be repaired by an authorized agent.
- Maintenance and cleaning of the generator, as well as the replacement of parts, must be carried out by authorized personnel.
- This generator must be equipped with grounding.

Note: These units should never be installed inside refrigeration chambers. When performing shock treatments, take care to ensure that no people or animals are exposed to high concentrations.

Installation

The DB-4000 C model can be used both horizontally (on a flat surface) and vertically (directly on the transport cart). If you wish to release it from the cart, loosen the 2 screws located on the rear part that connect it to the upper fixing bracket of the unit.



At the top is located the power switch, the fuse holder, and the power cable, along with the ozone outputs. These outputs are stainless steel connectors for connecting distribution tubes. These tubes should have an inner diameter of 6 mm for proper adaptation.

If it's not necessary to use all 3 outputs simultaneously or if there's a need to increase the pressure/flow rate of the outgoing air, one or more outputs can be plugged without affecting the performance of the equipment, as the ozone will be redirected to the remaining output(s) with a much higher flow rate.

Special attention must be paid to not block the lateral air intakes, as insufficient airflow could damage the equipment or prevent it from functioning correctly.

It is crucial that the room where the generator is placed be a clean room (with clean and dry air) so that the air passing through the ozone reactor has the appropriate

Application

For ozone treatment inside barrels, it's necessary to place the equipment as close as possible to the barrel(s) to be treated, so that the length of the tube is as short as possible (no more than 2 meters). Connect one of the output terminals of the generator with a Teflon or silicone tube, and pass the other end through a hole made in a stopper that perfectly seals the entire barrel opening. This ensures that all the air entering through the tube cannot escape from the barrel, maximizing the treatment potential.

Generator Usage

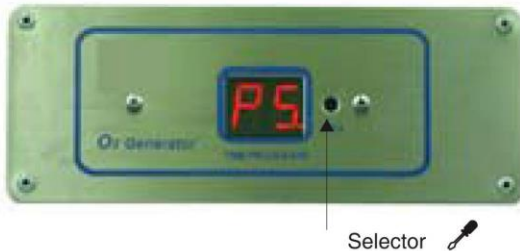
Connect the generator to the 230V network using a plug equipped with an earth socket. Activate the start switch and the equipment will begin to operate.

Production regulation is carried out by time, using a digital cyclic timer, with a cycle of 10 minutes, being able to regulate the operating time and the stop time within that cycle, which will repeat indefinitely. Using the selector, we vary the number of minutes the generator will remain active in that 10 minute cycle, with the rest of the time waiting until the start of a new cycle.

Timetable

N° Program	0	1	2	3	4	5	6	7	8	9
ON Time	30 s	1 min	2 min	3 min	4 min	5 min	6 min	7 min	8 min	9 min
OFF time	30 s	9 min	8 min	7 min	6 min	5 min	4 min	3 min	2 min	1 min
Regulation	test	10%	20%	30%	40%	50%	60%	70%	80%	90%

The program number change (P1 .. P9) is done through the selector located on the right side of the screen. A hole allows us to access the internal push button, using a small screwdriver or similar tool (so that the button is not manually accessible and accidental or unauthorized changes can be



Note: the digit point indicate when the generator is active

Regardless of the regulation timer, any type of external time switch can be used (to control usage at specific hours or days) and even connect the power in parallel with the air propulsion system in air ducts of air conditioning or cooling groups in chambers.

In generators used in conjunction with an existing ventilation or extraction system (air conditioning ducts, extraction systems, etc.), it is advisable to connect the generator's power supply in parallel with the system's fan, so that ozone is only generated when there is airflow.





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

DB4000AC

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

