



Ozonisator CERTIZON C25 C50 C100 C200 C300



Erwin Sander Elektroapparatebau GmbH
Am Osterberg 22
DE 31311 Uetze-Eltze
Tel +49 5173 971 0
Fax +49 5173 971-197
www.aqua-sander.de
info@aqua-sander.de

Version 07/2024

Introduction

Thank you for buying this quality product from Sander! We are confident that you will be satisfied with this device. You will benefit in every respect from our many years of experience in the manufacture of aquarium technology.

Please familiarize yourself with the product before using it for the first time. To do so, carefully read through the instruction manual and safety information. Unpack the ozonizer and examine it for shipping damage. Operate the device only as described below for the specified applications. Keep this instruction manual in a safe place for future reference. If you give, sell, or lend this device to a third party, please do not forget to include this instruction manual when you do so.

Proper Use for Aquariums and Ponds

Depending on their size, the CERTIZON ozonizers offer a rated output of 25, 50, 100, 200, or 300 mg of ozone per hour (as measured in dry air). Under ambient air conditions (approximately 40–80% air humidity), the ozone output decreases by approximately 50%.

The ozonizer generates ozone from the air and has been specially developed for aquariums and ponds. It is important that the ozone is injected into the water at a sufficient depth (at least 0.66 ft.), which is why we recommend the use of a skimmer in marine water (e.g. our power skimmer device). For fresh-water applications, we recommend our Maxi-Skim range. Further suitable products can be found on our homepage: www.aqua-sander.de.

Other applications of, or modifications to, the ozonizer constitute **misuse** and entail a risk of personal injury and/or damage to the device. The manufacturer shall assume no liability for injury/damage caused by misuse of the device. The device is not intended for commercial use.

Erwin Sander shall not be held liable for any damages that occur as a result of any unauthorized modifications, reengineering or amendments made to the ozonizer or its improper use.

Categorization of Safety Information



DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

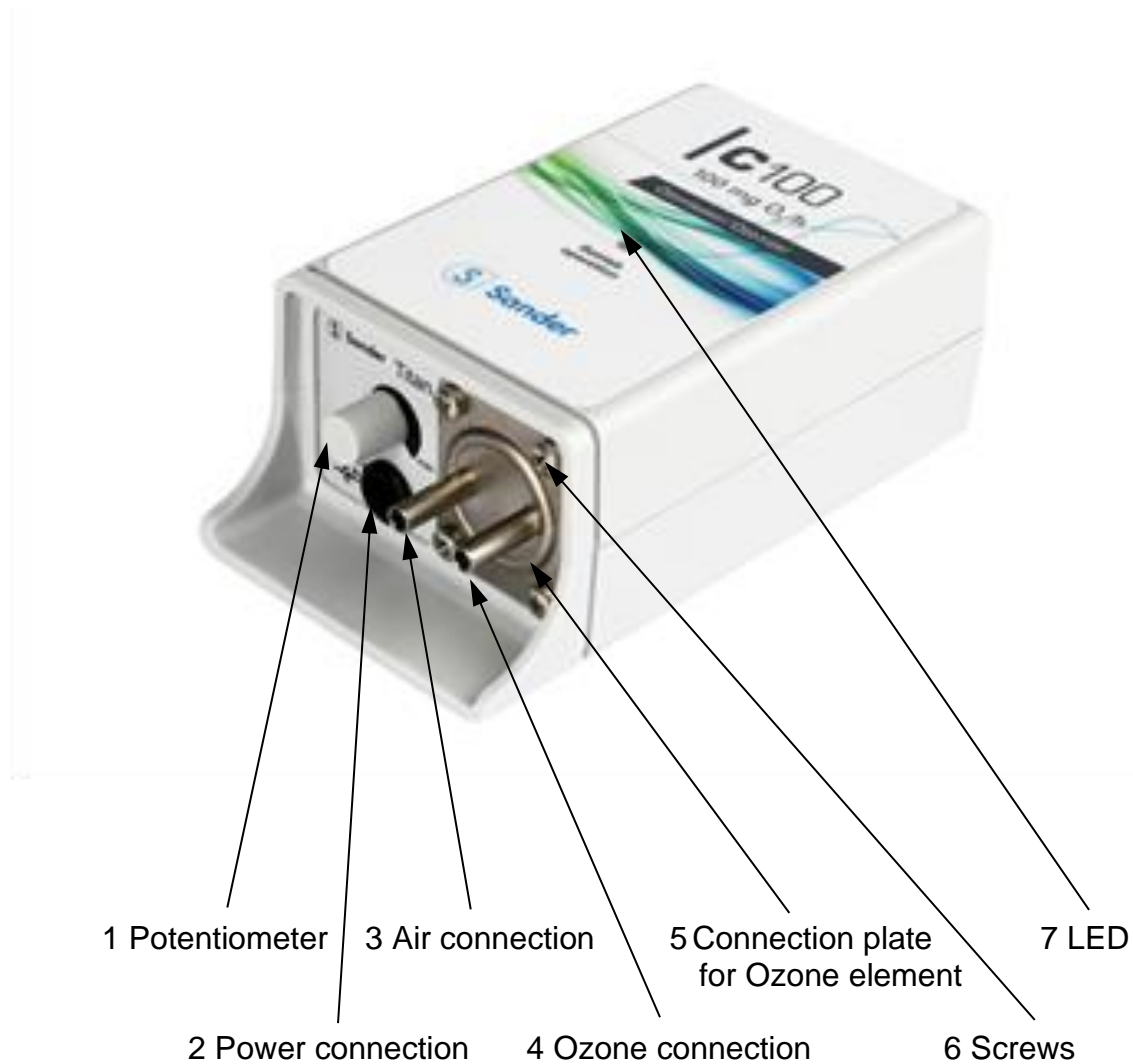


CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE refers to any actions that do not entail any risk of physical injury.

Device Setup



The air and ozone connections are designed for 4i/6a mm tubes.

Technical Data

Ozone output: 25 mg/h, 50 mg/h, 100 mg/h, 200 mg/h, 300 mg/h

Power supply: 100 to 240 VAC 50/60Hz

Operating voltage: 12 VDC

Power consumption: 0.25 A, 0.3 A, 0.4 A, 0.5 A, 0.65 A

Scope of Supply

As soon as you have removed the device from its packaging, please check to ensure that all the necessary parts have been delivered and that they are in perfect working order.

- 1 x CERTIZON ozonizer
- 1 x wall power supply unit
- 1 x instruction manual
- 1 x Ozone Info
- 4 x screws for closing the connection plate of the ozone element

Safety Information

NOTICE

The ozonizer is used at the owner's risk. Do not use the ozonizer before reading and understanding all instructions, procedures and warnings.

⚠ DANGER

The ozonizer must not be allowed to fall into water or otherwise come into contact with water. Do not use the Ozonizer in a flammable or explosive atmosphere.

⚠ CAUTION

The surfaces of the connection plate of the ozone element (5) can be hot. Allow the device to cool down before cleaning it.

⚠ DANGER

Airborne ozone can be harmful to health if it enters the respiratory system. Every effort must therefore be made to ensure that only the volume of ozone that is required in the application is produced. The permissible TLV (threshold limit value) for ozone is 0.1 ppm (200 µg/m³); although ozone can be sensed even at 1/5 to 1/10 of this value (0.02 ppm). In the USA, an IDLH (Immediately Dangerous to Life and Health) value of 5 ppm / 10 mg ozone/m³ additionally applies [NIOSH, 1994].

Symptoms of prolonged or excessive exposure to ozone are: burning, watery or irritated eyes, throat and nose, difficulty in breathing, dry cough, irritation to nasal passages, bronchial and pulmonary membranes, headache, nausea.

If excess ozone is produced (ozone odour), the air discharged from the skimmer should be released into the atmosphere or passed through a residual ozone destructor.

⚠ WARNING

DO NOT BLOCK AIR FLOW THROUGH EQUIPMENT. Ensure that enough air passes through the ozone element (min. 0.22 gpm). If this minimum value is undershot, the ozonizer is at risk of overheating.

Children must not be allowed to play with the device, as a mishandling can cause severe injuries and death.

⚠ DANGER

The ozonizer housing must never be opened under any circumstances. Improper repairs can seriously endanger the user. **DO NOT PUT FOREIGN OBJECTS INSIDE THE EQUIPMENT.** If repairs are necessary, please contact a specialist dealer or the manufacturer directly.

⚠ DANGER

Do not operate the ozonizer if it is damaged. Damaged ozonizers can seriously endanger the user.

⚠ WARNING

The ozone generator may be operated only with the power supply unit that was delivered with the ozone generator. Usage of the ozone generator with any other power supply UNIT constitutes a material alteration of the product and Erwin sander shall not be held liable for any damages that occur as a result of such an alteration.

Warranty and Limitations of Liability

NOTICE

All ozonizers that we manufacture are covered under a 24-month warranty. During this period, any component(s) that fail(s) as a result of material defects or manufacturing faults can be replaced free of charge. In order to maintain the warranty for your ozonizer you are required to follow the proper use guidelines as described in this instruction manual.

The ozonizer must not be allowed to fall into water or otherwise come into contact with water.

Proof of purchase including place and date will be required.

The warranty does not cover any product on which the serial number has been defaced, modified or removed.

The terms of this warranty do not affect your statutory warranty rights.

If you have any questions or concerns regarding this manual or our machines contact Erwin Sander directly.

NOTICE

Please note: The following types of damage are not covered by the warranty:

- Damage from misuse, as DESCRIBED IN THIS INSTRUCTION MANUAL, accident, neglect or operation of your ozonizer NOT in accordance with the instruction in this manual is not covered under this warranty.
- Damage caused by improper repairs, cleaning, opening of the device, etc.
- Damage caused by unauthorized device modification(s), etc.
- Damage caused by improper transportation, dropping, exposure to shocks, etc. after the purchase date.
- Damage caused by electric power fluctuations or failure.
- Damage caused by normal wear and tear and any other causes which do not relate to a product defect.
- Material alterations by you or a third party which constitute a substantial change in the condition in which the product was sold by destroying the functional utility of a key safety feature, regardless how foreseeable they may have been.

DISCLAIMER

To the extent permitted by law, this warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, statutory, express or implied. As permitted by applicable law, Erwin Sander specifically disclaims any and all statutory or implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose and warranties against hidden or latent defects. If Erwin Sander cannot lawfully disclaim statutory or implied warranties then to the extent permitted by law, all such warranties be limited in duration to the duration of the express warranty and to the repair or replacement service as stated above.

Except as provided in this warranty and to the maximum extent permitted by law, Erwin Sander is not responsible for direct, special, incidental or consequential damages under any legal theory.

NOTICE

Installing/Positioning the Ozonizer

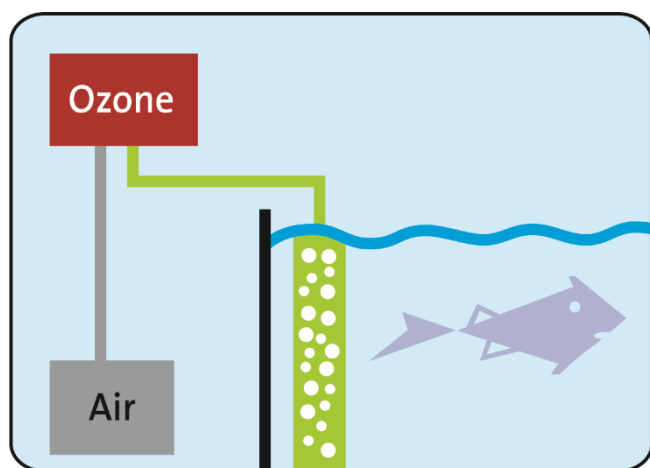
Proposal A: Wall mounting

On the rear of the ozonizer is a suspension hole for mounting the ozonizer on a wall. If possible, the device should be installed at a level higher than the surface of the water (e.g. to prevent water from flowing back into the device in the event of a power outage).

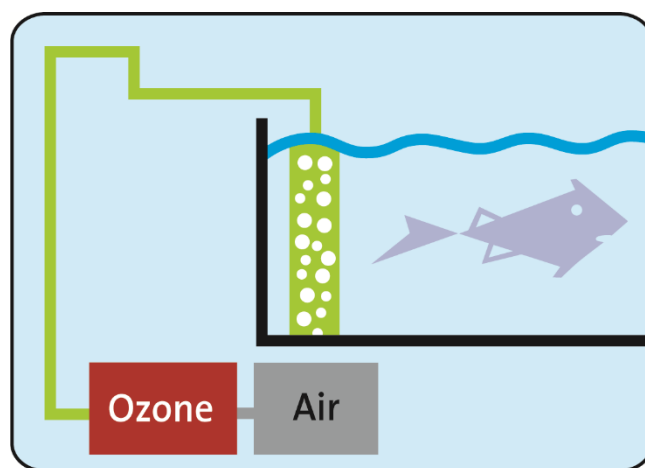
Proposal B: Cabinet installation

The ozonizer can also be installed in the cabinet under the aquarium (ensure adequate ventilation). In this case, however, a tube that extends at least 0.66 ft. above the surface of the water should be fitted to prevent water from flowing back into the ozonizer.

Proposal A



Proposal B



Connecting the Ozonizer with Skimmer / Ozone Reactor Operation with Airstones

The ozonizer has two tube connections. The first (3) is connected to an air tube leading to an air pump. The second (4) on the connection plate for the ozone element is connected to the airstones via the skimmer.

If ozone production is deactivated while the ozonizer is still connected to the skimmer, the air supply must remain switched on. This stops water from entering the ozone generator.

Alternative: Connecting the Ozonizer with Skimmer with Injector

Connect the injector to the ozone connector (4). Air is automatically sucked through the device. The air connection (3) remains free.

Startup Procedure

Place the ozonizer and power supply unit on a dry surface. Plug the 12V connector into the socket (2) on the ozonizer. The ozonizer is equipped with a controller (potentiometer) (1), which allows continuously variable adjustment of the ozone output. Plug the power supply unit into a socket.

The following guide values for setting the ozone volume apply: approx. 10 mg of ozone per hour for 26.4 gallons of marine water; approx. 5 mg of ozone per hour for 26.4 gallons of freshwater.

The LED (7) lights up when the ozonizer is in operation, though not when the output is zero. Above zero, the LED (7) lights up and gets brighter as the output increases. At 100% output, the LED is permanently lit up.

To determine the ozone requirements, we recommend measuring the redox potential with a Sander redox measuring and regulating device, which switches the ozonizer on and off automatically depending on the set target value. For this purpose, the ozonizer should be set to full output.

When the device is new, we recommend gradually increasing the output over a period of roughly 14 days. This allows the living organisms in the water to slowly adjust to the improved water quality.

Cleaning and Maintaining the Ozonizer

To ensure that the ozonizer functions properly at all times, the ozone element must be cleaned regularly. The ozone element has therefore been designed to be easily opened and cleaned. If the device is in permanent use, we recommend checking the ozone element every three to six weeks for dirt and, if necessary, cleaning it.

Cleaning procedure

- Before cleaning the ozonizer, set the ozone output to zero by turning the potentiometer, and allow the device to run in this state for a few minutes. This ensures that any residual ozone is discharged from the ozone element.
- Switch off the ozonizer.
- Allow the ozone element (5) to cool down.
- Unplug the power supply unit.
- Remove the power plug (2) from the ozonizer.
- Remove the tubes from the tube connections.
- Unscrew the locking screws (6) for the ozone element (5) using a standard Phillips screwdriver.
- Remove the cover for the ozone element (5).
- Clean the ceramic and titanium plate using a cloth and warm water (and standard cream cleanser, if necessary); when doing so, also remove any dirt from the connecting nipples.
- Allow the device to dry thoroughly.

Reassembling the device and switching it back on:

- Place the cover back on the ozone element (5), making sure that the sealing ring is firmly seated in the groove.
- Reinsert the screws (6) partway and then tighten evenly.
- Reattach the tubes to the tube connections.
- Plug the 12V connector back into the power connection (2).
- Plug the wall power supply unit back into the socket.
- Use the potentiometer (1) to set the desired ozone output.

Faults

The ozone output can be reduced or interrupted through the ingress of water or dirt particles. Such impairments can be rectified by cleaning the device (see “Cleaning procedure”).

If such impairments cannot be rectified by cleaning the device, please contact your specialist dealer or send the device directly to the manufacturer.

Disposal

The packaging is made from eco-friendly materials that you can dispose of at your local recycling center.

To find out how to dispose of the device once it has reached the end of its service life; please contact your local or municipal authorities.

Once the device has reached the end of its service life, do not dispose of it with your household waste; instead, in the interests of environmental protection, take it to a professional waste disposal facility. For information on where you can find your nearest collection point and opening hours, please contact your local authorities.

