FABHVGZO.0001



# HIDRO V GZO7-EPS Professional Ozone Plant (PENDIENTE)

**Hydro V type Ozone Generating Plant for water treatment in tank. With Professional Ozone Generator, with compressor, oxygen concentrator, PLC, venturi dilution system and pump. Ozone production of 7 gO3/h, at a concentration of 30 g/Nm3. 230V, 50Hz, 1.4KW.**

**[Spanish design and manufacture]** Ideal for injecting ozone into a tank or water pipe.
**[Built-in dilution system]** It manages to inject ozone into the water, thanks to the pump and venturi.
**[PLC automatic operation]** Select the amount of ozone you want and the system automatically adjusts itself.
**[Simple Installation]** You only have to connect the equipment to the tank you want to treat and provide it with a light point.
**[No replenishment of chemicals]** Ozone is generated from the air we breathe.
**[Maximum Security]** The system controls the entire process and includes an ozone leak sensor.

★★★★★ Highly recommended
**2 years warranty (expandable if you have a maintenance contract)**
**Manufacturing in 10 days**






Contact **(34) 956 854 783** | **info@zonosistem.com**
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More information
**www.zonosistem.com**

# What is it used for?

**To dose ozone in a water tank**, maintaining a constant ozone concentration. Used to disinfect and purify water, tanks and pipes. Widely used in agricultural water treatment, **for drip or sprinkler irrigation, in treatment of drinking water, wastewater, process water, cooling towers, swimming pools, aquariums**, etc. Ozone is an excellent disinfectant, which allows you to maintain hygiene both in the water and in the pipes.

# Product Details

## Equipment

| | |
|---|---|
| Ozone generator | Latest generation GZO7-EPS model |
| Oxygen concentrator | With compressor, oxygen concentrator at 95% purity and -30ºC Dew Point |
| Ozone Dilution System | Composed of pump, venturi and anti-return safety system |
| Control | By PLC with 4.3" touch screen. Recipe manager, daily programmer, alarm and maintenance manager. Power PID control based on Redox or Ozone dissolved. |
| Communication | Wired remote ON, Status relays (Initiated, Generating, Fault), Allows ModBus communication. Optionally allows Remote Access with full control with VPN router. |
| Sensors | Amps in Ozone, Compressed Air Pressure, Oxygen Pressure and Flow, Ozone Leaks, Door Opening.<br>In the plant: Redox control, maximum and minimum pressure switch in the tower, manometer. Optional dissolved ozone sensor. |
| Technical Valves | Outlet ozone solenoid valve, oxygen flowmeter with manual regulation. Stainless steel 316L motorized safety anti-return valve on the venturi. |
| Included in the packaging | User manual |

## Technical characteristics

| | |
|---|---|
| Ozone Production | 7 gO3/h |
| Ozone concentration | Maximum = 50g/Nm3<br>Optimum = 30 g/Nm3. |
| Air/Oxygen flow | 5 lpm |
| Power supply | 230V, 50-60Hz |
| Electric Power | Ozone Generator = 650 W<br>Pump = 750W |
| Hydraulic connection | PVC Input and Output Glue 32mm |
| Dimensions | 680 x 650 x 1600 mm (Width x Depth x Height) |
| Packed size | 1000 x 1000 x 2000 mm (Width x Depth x Height) |
| Weight | 170 Kg |



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## Additional Information

| | |
|---|---|
| Made by | ZonoSistem |
| Made in | Spain |
| Sold from | 2015 |
| Last revision | 2021 |
| Certificates | CE, BIOCIDA PT2, PT4, PT5, PT11 |
| Warranty | 2 years extendable indefinitely, with maintenance contract |
| UFI number | G000-W09P-Y00M-TV8V |

## Working Conditions

| | |
|---|---|
| Humidity | <90% |
| Room temperature | 5-40ºC |
| Hydraulic Working Pressure | Between 0 and 6.5 bar |
| Fluid temperature | 5-40ºC |
| Fluid freatures | Ø Solids < 1mm; Suspended solids (SS) <150mg/l; Density = 1 g/cm3 ± 5% |
| Working pressure | 0 - 0,4 bar |

## Room fittings

The room must be well ventilated, and provide an extraction system in case of leaks. Install sign with safety warnings. It is recommended that the room have a drainage box.

# Functioning

This HIDRO V GZO-EPS ozone plant includes a **touch screen** from which you can easily and intuitively program different treatments throughout the day, using a recipe planner. When the equipment receives a start order, the refrigeration circuit is activated, and the compressor starts up, takes air from the atmosphere, **filters it**, **dries it** and introduces it into the **PSA**, where nitrogen is removed from the air, and the oxygen is **concentrated to a purity of 95%**. This flow of oxygen is conducted to the generation core, where the corona discharge is applied and the **oxygen is transformed into ozone**. With the oxygen flow meter you can regulate the desired flow. The recirculation pump takes water from the tank, and the ozone generated is injected into the venturi, returning a highly ozonated water to the tank, where it is homogenized and reacts with the pollutants. In this way you can disinfect the water, the tank and the pipes.

# Included documentation

- Safety manual.
- User manual, installation and commissioning.
- Maintenance manual.
- Declaration of conformity.
- Certificate of guarantee.
- Compliance with the biocidal regulation.
- Results of the Quality Test in the factory.

# Technology

This GZO ozone generator uses high frequency corona discharge technology with ceramic dielectric.

We comply with biocidal regulations and ISO certificates.



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