



HIDRO VT GRZO200-EPSF Industrial Ozone Plant

High-efficiency HIDRO VT type industrial Ozone Plant. 200gO₃/h, 148g/Nm³, 400v, 3P+N, 50Hz, 7,4 KW. This system is used to ozonize a water line. It has an industrial ozone generator, a dilution system with a tank, a pump and a venturi. It has advanced control by PLC and Redox.

This ozonation plant is used to **treat water in the water line**. Allows to inject and maintain a desired amount of ozone in the water pipe: homogeneous, constant and automated. The plant includes everything that it is necessary to function autonomously.

You only need to plug it and connect it to the water line to be treated.

The equipment includes a **high-performance industrial ozone generator** with an oxygen concentrator that works at a concentration of 148g/Nm³. It provides high efficiency in the dilution and oxidation of pollutants. The accelerator pump allow the injection of ozone into the water over a wide range of pressures. The system includes a **PLC with advanced control** through automatic power self-adjustment. This allows you to keep the desired amount of ozone constant.

★★★★★ Highly recommended

2 years warranty (expandable if you have a maintenance contract)

Manufacturing in 30-40 days



Save without the need for added chemicals



Great power of oxidation, deodorization and disinfection



Environmentally friendly, no waste



Automated system, with remote access and control



What is it used for?

This equipment is used to **dose ozone in a pressurized water pipe**, maintaining a constant ozone concentration. It is used to **disinfect and purify water and pipes**. Widely used in agricultural water treatment, **for drip or sprinkler irrigation, in drinking water treatment, waste water, 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	Model GRZO200-EPSF, last generation
Oxygen concentrator	With compressor, oxygen concentrator 95% purity y -30°C dew point
Ozone Dilution System	Composed of pump, venturi, 316L stainless steel tank and anti-return safety system
Control	By PLC V700, 7 ". Recipe manager, weekly programmer, alarm and maintenance manager. Power PID control based on Redox or dissolved Ozone.
Communication	Wired remote ON, Status relays (Started, Generating, Failure), Allows ModBus communication and Remote Access with Total Control with VPN router included.
Sensors	Amps in Ozone, Compressed Air Pressure, Oxygen Pressure and Oxyge Flow, Refrigeration Flow and Temperature, Ozone Leaks, Door Opening. In the plant: Redox control, maximum and minimum pressure switch in tower, pressure gauge. Optional dissolved ozone sensor.
Technical Valves	Motorized ozone outlet valve. Oxygen flowmeter with manual regulation. Stainless steel and motorized 316L safety non-return valve in the venturi. nti retorno de seguridad Inox 316L en el venturi.
Included in the packaging	Coolant Carafe + User's Manual

Technical characteristics

Ozone Production	200 gO3/h
Ozone concentration	Óptima =148 g/Nm3 Máxima= 200 g/Nm3
Air flow	20 lpm
Power supply	400V, 50HZ, 3P+N
Electric Power	Generador Ozono = 1,6 KW PSA = 1,9 KW Enfriadora = 1 KW Bomba = 3 KW
Hydraulic connection	Inlet and outlet in DN 150
Dimensions	1750 x 1100 x 1950 mm (Width x Depth x Height)
Packed size	1300 x 1950 x 2100 mm (Width x Depth x Height)
Weight	568 kg
BOMBA	21 m3/h - 2,3 bar

Additional Information

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

Working Conditions

Humidity	<85%
Room temperature	5-40°C
Hydraulic Working Pressure	Entre 0 y 6,5 bar
Fluid temperature	5-30°C
Fluid freatures	Ø Solid <1mm; Suspended solids (SS) <150mg / l; Density = 1 g / cm ³ ± 5%
Working pressure	1 - 3 bar

Room fittings

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

Functioning

This HIDRO VT 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 running order, the refrigeration circuit is activated. Then the compressor is started and takes air from the atmosphere. The air is **filtered, dried** and introduced into the **PSA** where the nitrogen is removed from the 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. Subsequently, the ozone is channeled to the venturi where the ozone is injected into the water of the customer's line. In the tank, it will be homogenized and a contact time is given for the ozone to react, disinfect and purify.

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



We comply with biocidal regulations and ISO certificates.