



Description and operation of the Oxyzone Total Ozone System

Description

The Total Ozone System is a complete ozone generation package that delivers high strength ozonated water direct to the work area. It contains its own contact tank, pump, injector and degas and is a complete system ready to integrate with your application.

Use it for:

- Clean in place (CIP) equipment
- Sanitising rinse for food processing equipment
- Sanitising wash for fish cleaning and preparation tables
- Sanitising rinse for meat and poultry preparation
- Storage tank and container rinsing
- Wine barrel rinsing

Plus many more self contained ozone treatment solutions

Using the highest quality components available, the system comprises:

- All 316 stainless steel frame, fixed or on wheels, with a 300L contact tank and header built into the base.
- Power control panel that monitors water flow to ensure safe ozone injection
- Mazzei 1078 Kynar injector
- Mazzei DS150 Kynar contact and degas unit
- Off gas water trap with ozone destruct unit
- Plastomatic 25mm Kynar pressure relief valve
- AirSep Topaz 5LPM PSA oxygen generator
- Oxyzone T4400 20 gm/hr ozone generator

Optional monitors for ozone environmental measurement, ORP controllers, dissolved ozone controllers, can all be integrated into the control of the system

Its innovative, it's Australian and it works.



Oxyzone Total Ozone system, rear view



Oxyzone Total Ozone system, front view



Operation

Position skid on level surface and connect water supply.

Once the tank has filled above the pump inlet the system may be started. Press start and hold while pressure is established (about 3 seconds).

Allow the system to run for 2-3 minutes with outlet closed for the oxygen generator to stabilise.

Connect hose or fitting to the outlet, open the valve and pipe the ozonated water to its point of use. The system will automatically bypass any water not used back into the contact tank. Full strength ozonated water is available at the outlet without any delays.

If the water used is greater than the capability of the water supply then stop occasionally to allow the tank to refill.

Using the system

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| Clean in Place | Connect the outlet to the CIP equipment. Open the ozonated water outlet valve on the skid and monitor the final water outlet on the equipment being cleaned. Once the selected outlet ozone level has been reached the rinse is complete. The rinse water can be recycled once it is running clear but filtration will be required. |
| Wine barrel rinse | 160Kpa pressure at the outlet should be adequate to operate the spray ball cleaning system. Use ozonated water as the alternative to a plain cold water rinse. Measuring residual ozone in the runoff water from the barrel will give a tangible measurement of a satisfactory rinse. |
| Fish clean and fillet | Using an ozonated water supply for the tables will provide a significant level of bacteria reduction on the finished product, resulting in an increase in shelf life. With fully dissolved ozone there is no off gas except for the small amount produced by the splashing of the water. Satisfactory OH&S levels are maintained with normal ventilation. |
| Wash down | Use ozonated water as a sanitising rinse for work tables and food processing equipment. |
| Trolleys and crates | Using ozonated water at these levels will deliver a sanitising rinse for this equipment |

At Oxyzone we have the product and the flexibility to meet your needs.