

# TANKOZONE



## Tank water Ozone treatment systems

Info for TZ-M10 with 10m<sup>2</sup> Washable Filter

A Tankozone® system will continuously **treat, condition** and **filter** the entire contents of your tank water using *Activated Oxygen, also known as Ozone or O<sub>3</sub>*, this is an effective, economical and proven technology. **The tank water thus treated with Activated Oxygen will ensure improved water quality used for livestock, horticulture or home use.**

The technology's been used to treat drinking water in Europe since the early 1900s – and in North America for the past three decades. In New Zealand **Timaru, Whanganui** and **Oamaru** are leading the way in ozone water treatment.

Tankozone® harnesses the power of Activated Oxygen, O<sub>3</sub>, to solve common tank water problems associated with ground, surface and roof water.

**Roof water** often contains faecal and urine deposits from birds, possums and rodents, also tannins from decaying organic matter. This Ozone, kills coliform bacteria on contact – a lot more effectively than chlorine or bromine. It also treats fungus, mold and yeast spores. Most household water filters do not remove chemicals, viruses or bacteria.

Spray drift in agricultural areas poses a serious risk to both roof and ground water – potentially contaminating these with pesticides and glyphosate. Activated Oxygen in the form of Ozone is very effective in neutralising these contaminants – of particular benefit to people with compromised immunity.

Water deliveries from a contractor may unknowingly contain coliforms if the source bore/aquifer is contaminated as occurred in Havelock North and Christchurch NZ. *(Four people died and 5000 people fell ill after the Havelock North town's water supply was contaminated with campylobacter in 2016).*

Ozone is an easy, natural defense system – allowing you to drink great tasting water straight from your tap.

**Ground water** from a bore, stream, spring, well or dam usually contains one or more contaminants such as hydrogen sulphide, excess iron, manganese and other metals. Ozone helps to remove these contaminants through a natural process known as micro-flocculation – without any chemical additives.

It helps to neutralise pH by aeration and precipitates heavy metals. It also removes colour and odour, leaving healthy oxygenated water. In addition, the technology delivers several less obvious benefits – among them the reduction or elimination of scale and mineral build-up within plumbing fittings, pipes and water heaters. This leaves showers, sinks, bathtubs and toilets stain-free.



## Tankozone® Benefits:

- No plumbing required
- Aids in the treatment and removal of coliform bacteria, fungus, mold and yeast spores
- Neutralises pH
- Removes excess iron, manganese and sulphur
- Prevents staining of showers, sinks, bathtubs and toilets
- Minimises the chance of mosquitoes infesting or breeding in your water tank
- Ozone gradually eliminates biofilm in your tank, pipes and filters

In addition, the washable Tankozone® filter acts as a 'pre-filter' to any existing household filter, significantly reducing the frequency and cost of filter replacements.

**Commercial growers** (horticulture) use water containing *this* activated oxygen to produce an elevated level of dissolved oxygen in their irrigation water to improve a plant's overall health. Dissolved oxygen leads to increased nutrient uptake and conversion efficiency, enhancing the growth and development of roots, vegetative growth, flowering and fruiting characteristics, thereby reducing fertiliser use.

**Around the home**, apart from ensuring the quality and taste of the water, fruit and vegetables rinsed with *ozonated* water are much healthier to consume, stay fresher and last longer.

## How does it work?

A Tankozone® system consists of two components: an active oxygen generator air pump and a diffuser within a washable-filter. The generator's output is fed by tubing to the diffuser suspended inside the tank, creating millions of oxygen-saturated bubbles.

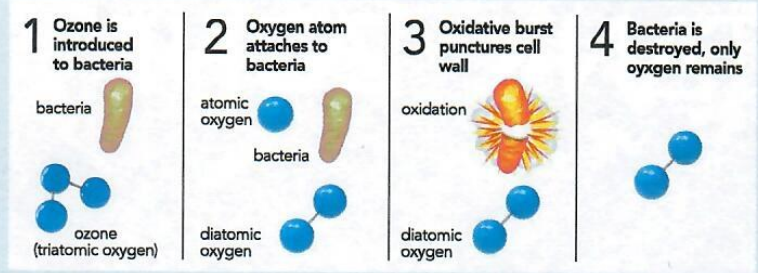
As these bubbles rise inside and exit the filter module, the 'friction' resulting from them moving through the water draws more than 50,000 litres of water through the filter in 24 hours – removing oxidised particulates, capturing existing debris preventing them from accumulating on the bottom of the tank. This method of filtering the water prior to ozonation is key to increasing the ability of the active oxygen to be absorbed by the water.

As the activated oxygen bubbles ascend through the water in the tank, they continue the oxygen saturation process.

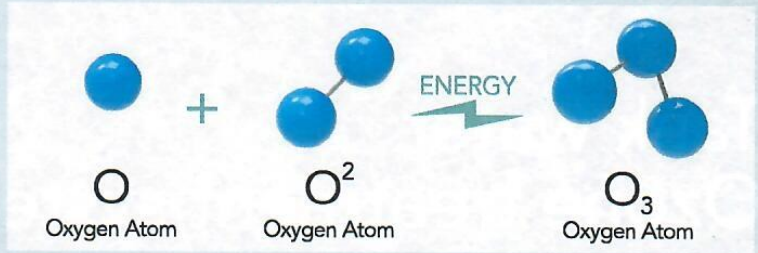
Water from your tank will be filtered, fresh and clean, ideal for all your domestic water uses, at an electricity cost of approximately \$7.50 per month. (based on Kw/hr price 2025).

## HOW DOES OZONE PURIFY WATER?

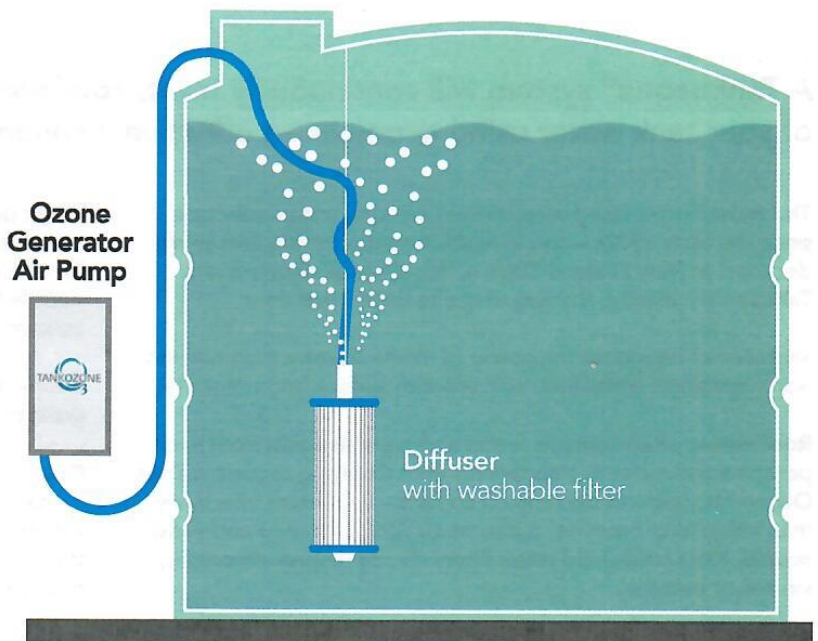
Ozone is a 3-Oxygen compound - one of the oxygen molecules is bonded with a weaker bond and is slightly negatively charged.



When ozone-saturated bubbles are mixed with water in your tank the weaker oxygen molecule in the ozone separates and binds itself to any organic molecules existing in the water. The organic molecule is then oxidised and destroyed.



Oxidised material is then filtered by the Tankozone® system. What remains is healthy, clean drinking water.



Tankozone® systems are available in two options, DIY self install, or we have an experienced installation team who can assist.

### TANKOZONE

Designing and manufacturing ozone systems in New Zealand since 1974

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### SPECIFICATIONS

(All models with 10m<sup>2</sup> Washable Filter)

**TZ-M10** 230 V AC 50/60 Hz 35W  
 110 V AC 50/60 Hz 35W

**Electrical Lead Length** 1.75m  
**Warranty** 12 months (refer installation manual)

**HOLISTIC FARM SOLUTIONS**  
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### Contact

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Disclaimer: Ozonation is a treatment, not an absolute purification system. If you have a severe pathogen or virus problem, you should consult your local health authority.