

BOD and nutrient management in tanks and ponds

Enviro DO2 Micro Bubble Injectors = Smarter Water Management



What Is the DO2 range?

The DO2 range are new Australia designed devices that reduce biological oxygen demand using micro bubble science to increase dissolved oxygen. The DO2 are low energy, low maintenance & built for Australian conditions.

Why Use the DO2 range?

Can be quickly and easily installed, maintenance is low due to no moving parts. Dissolved oxygen can be injected at surface or down to 20 metres. Components are marine and food grade. Power is single phase or sola.

Enviro DO2 Applications

AQUACULTURE

Grow more biomass per m².

FOOD & BEV PROCESSING

Reduce BOD that causes foul odours and allows water re-use as Class B.

LAKES & WATERWAYS

Manage BOD, nutrient and algae, protect aquatic life and oceans.

DO2-F4

A self-floating dissolved oxygen head with 4 outlets. Able to inject fine bubbles and micro bubbles up to 3 metres below surface. The DO2-F4 is secured in position with guide ropes. Housing is marine grade stainless steel & fiberglass.



DO2-F1

Can be installed a self-floating or secured to a tank or pontoon. The DO2-F1 is naturally aspirated and able to inject fine bubbles and micro bubbles up to 3 metres below the surface. Circular floats allow easy installation on steep sided ponds.



DO2-S2

A unique submersible dissolved oxygen head that can inject fine bubbles and micro bubbles up to 20 metres below the surface, when used in conjunction with a air pump. Pumps are surface mounted, DO2-S2 head can be easily retrieved for maintenance.



Enviro Australis

The Enviro Australis water quality improvement technologies are designed, engineered and built to meet the everyday needs of property owners, food and beverage wastewater managers and aquaculture farmers.

Contact Us

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Micro Bubbles & Dissolved Oxygen How Enviro DO2 Technology Works



The Enviro Australis DO2 range is a smarter way of increasing dissolved oxygen and reducing biological oxygen demand (BOD), caused by everyday activities associated with intensive aquaculture, food and beverage processing or stagnant water catchments. Read on to learn how.

The term biological oxygen demand (BOD) is used to describe and quantify the likely consumption of O_2 by that organic matter. In other words, how much DO_2 is required to achieve a balance, so that water is healthy, free of noxious odours, aquatic life thrives and is re-useable.

Oxygen O_2 fits into the gaps between H_2O molecules (fig 3.) and is termed dissolved oxygen. It is not actually dissolved, simply put it is oxygen trapped in water. In nature the trapping occurs, with the DO2 range the DO_2 increases rapidly.



The water molecule (fig 2.) is a tight bond which survives from solid (ice) to liquid (water) to gas (vapour) without ever falling apart. Water is not created, water has been here for 3.5 billion years and are the same H₂O molecules, re-cycled.

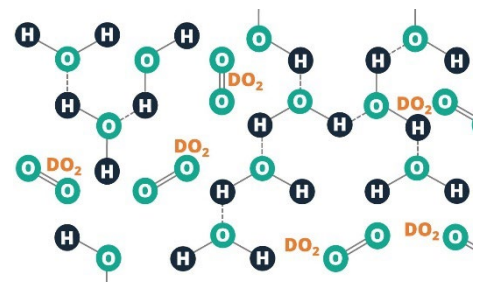


Fig 3.

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