

Micro Bubbles & Dissolved Oxygen = Smarter Water Management



Why is the DO2 range smarter?

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.

Using the efficiencies of micro bubble science instead of brute force and costly high energy, the DO2 range effortlessly increases dissolved oxygen in water without moving parts – a low energy low, maintenance solution.

Bubbles vs Micro Bubbles

A typical bubble created from aeration devices are large (Fig 1.), float quickly to the surface join expand and burst. Fine bubbles and micro bubbles that are much smaller and easily absorbed by the water quickly increasing the DO₂.

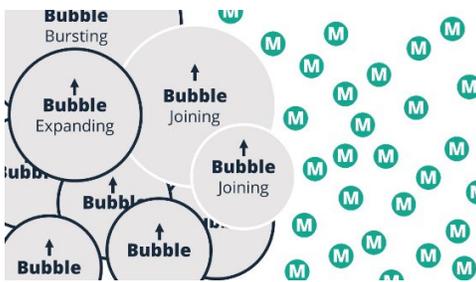
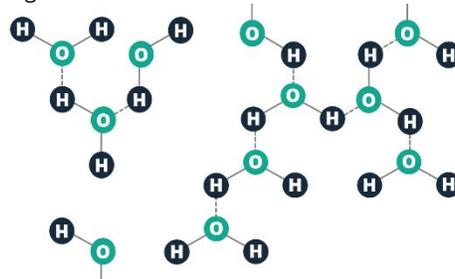


Fig 1.

Fig 2.



Water - H₂O

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.

Biological Oxygen Demand

The term biological oxygen demand (BOD) is used to describe and quantify the likely consumption of O₂ by that organic matter. In other words, how much DO₂ is required to achieve a balance, so that water is healthy, free of noxious odours, aquatic life thrives and is re-useable.

Dissolved Oxygen - DO₂

Oxygen O₂ fits into the gaps between H₂O 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 DO₂ increases rapidly.

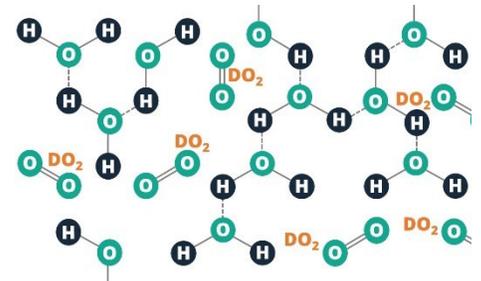


Fig 3.

The Enviro Australis DO2 range

The DO2 models range from floating self-aspirated to deep diving with an external pump and air supply. All models contain food grade components.



Contact Us

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