Our cutting-edge nanotechnology is revolutionising water treatment. Aeration of water through our patented unique process ensures that the entire water column is enriched with oxygen over several months causing effective bio-remediation. The result is water suitable for irrigation or discharge.

THE PROBLEM

If left untreated, contaminated winery wastewater becomes a major challenge both financially and operationally. With close to a decade of scientific research, we have developed ground-breaking technology that offers a revolutionary green solution for winery and other effluent water.

Our innovative NanoBubble Technology cleans wastewater economically and without the use of any chemicals, complex treatment plants or filtration. The ability of our Nanobubbler™ to treat highly contaminated water, neutralize pH and reduce COD levels to prescribed levels, as well as remove sludge and unwanted odours naturally, is revolutionary.

CLEANING WINERY WASTEWATER
THE NATURAL WAY

The challenge with treating winery wastewater is not only to comply with stringent regulations but to also manage electricity usage and overall operational costs. Existing water treatment technologies are also more than 50 years old, ineffective, expensive and high electricity consumers.

In winery wastewater, anaerobic (no oxygen) conditions are created within the sedimentation layer at the bottom of the ponds. In this anaerobic state, beneficial aerobic bacteria that assist in cleaning wastewater, cannot break down the organic and inorganic pollutants in the water due to a lack of oxygen. Consequently, high COD and low pH levels produce foul odours and a badly polluted pond which cannot be discharged legally.

THE 100% NATURAL SOLUTION

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THE NANOBUBBLER™
SPECIFICATIONS
Consumption: 1,375 Watts, 2.8 Amps
Power Source: 380V 3 PH 50Hz  |  220V 3 PH 60Hz (USA)
Aeration capacity: 172l/min (air intake)  |  Q = 300l/min

KEY BENEFITS
Our patented NanoBubbler™ offers scientific and technological solutions, that are both sustainable, natural and cost-effective. The NanoBubbler™ difference means:

100 % Natural
No harsh chemicals or complex treatment plants.

Cost saving
With low energy input and reusable water as a result, the NanoBubbler™ solution is not only affordable but delivers a good Return on Investment.

Compliance
Cleans wastewater effectively, meeting the required pH and COD levels as specified in by-laws and regulations.

Proven results
Tried and tested on Wineries, with scientific evidence and results to prove the effectiveness of the NanoBubbler™.

WHY US?
Fine Bubble Technologies exist to solve wastewater challenges in an innovative and practical way. We have found a solution that harnesses the natural purifying power of oxygen in water. With this ground-breaking technology we aim to bring our sustainable, natural wastewater solution to industries around the world.

HOW IT WORKS
The NanoBubbler™ creates the smallest order of bubbles called the “nano bubbles” at a rate of 222 million bubbles per 1ml of water. Denser than water, these nanobubbles rapidly spread through the water body and sink to the base of the water column. Suspended in the water for several months, the bubbles dissolve into the sediment layer, creating an aerobic condition. This change brings about accelerated oxidation and decomposition of organic matter, in effect cleaning and removing the sediment layer. The result? Remediation of water with balanced pH, reduced COD levels and elimination of undesired pathogens and foul odours.

Contact us today for a solution that suits your winery’s needs.
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