

A.R.S - Aqua Royal Spring



*ARS Nanobubble
Generator
Mining Solutions
Products
For Copper Nickel
and Gold ,Heap
Leaching Process,
ILS ,PLS & Raffinate
Pond .*



*ARS Nanobubble Generator is the most
efficient aeration technology to transfer
oxygen into the leaching Solution .*

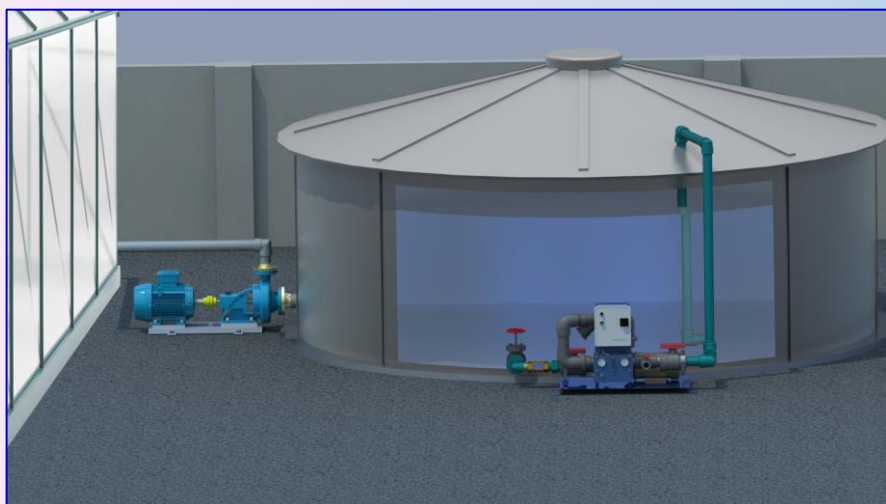
Nanobubble Generator

The ARS Nanobubble Generator is the most efficient aeration technology to transfer virtually any gas into any solution liquid. The generator produces trillions of nanobubbles, ~100nm in size, providing more than 200-times the interfacial surface area of conventional ultra-fine micro bubbles.

The ARS Generator transfers gas with greater than 90% efficiency, providing maximum utilization potential, improving the functionality of heap leaching solution, and enhancing the recovery processes. ARS Generator nanobubbles remain in suspension after saturation, creating a reserve of available oxygen/gas in the irrigation system-solution for heap leaching method.

Features & Benefits

- 💧 > 90% standard oxygen transfer efficiency ("SOTE")
- 💧 ~ 100nm in size.
- 💧 Smallest size bubbles creating 200 x the interfacial surface area compared to micro bubbles.
- 💧 Highest concentration of bubbles per cm³ (>100M bubbles/cm³)
- 💧 Nanobubbles stay suspended in the solution after solution reaches saturation during the percolation.
- 💧 Increases solutions capacity to hold a given gas.
- 💧 Low-turbulent gas diffusion.
- 💧 Reduces the density of water, therefore reducing friction.



Nanobubble Generator

Our new ARS Irrigation Technology Drip and Sprinklers are changing the face of heap leach mining operations by maximizing metal extraction from the heap.

ARS new technology has proven itself to increase metal extraction up to 90% recovery while reducing the operating expenses significantly.

Installing the right irrigation system is one of the most important elements in the process which affects the permeability and the uniformity percolation all over the pad.

With ARS technology system we ensure to control the flow rate m2 and the amount of oxygen during the leaching time . The ratio of oxygen during the leaching is the most important and critical aspect for the ore by controlling the percolation and the oxygen in to the leaching ore .

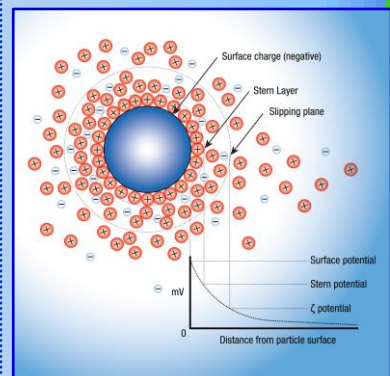
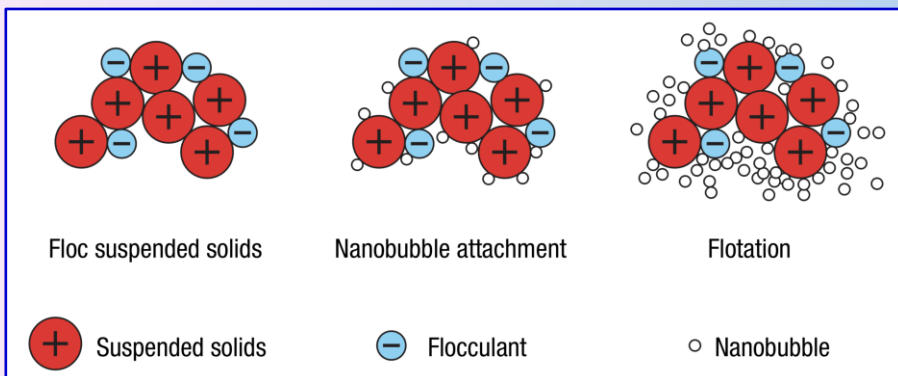
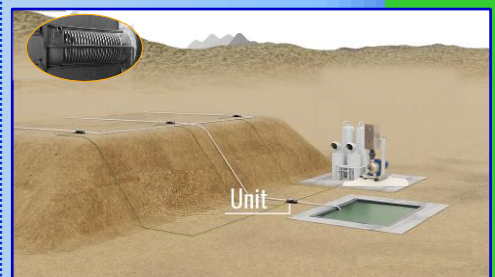
With ARS Nanobubble Generator we control and inject the right amount of oxygen during the leaching process.

Applications

- 💧 Sulfide Heap Leaching - PLS / ILS & Raffinate
- 💧 Bioheap bacterial leaching technology.
- 💧 Flotation
- 💧 Biological Wastewater Treatment
- 💧 Sterilization

Features

- 💧 No Moving Parts
- 💧 Plug-and-Play
- 💧 Self-Cleaning.



High Quality Nanobubble Generator

*More Oxygen
More Recovery
More Copper
More Gold
More Money*



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