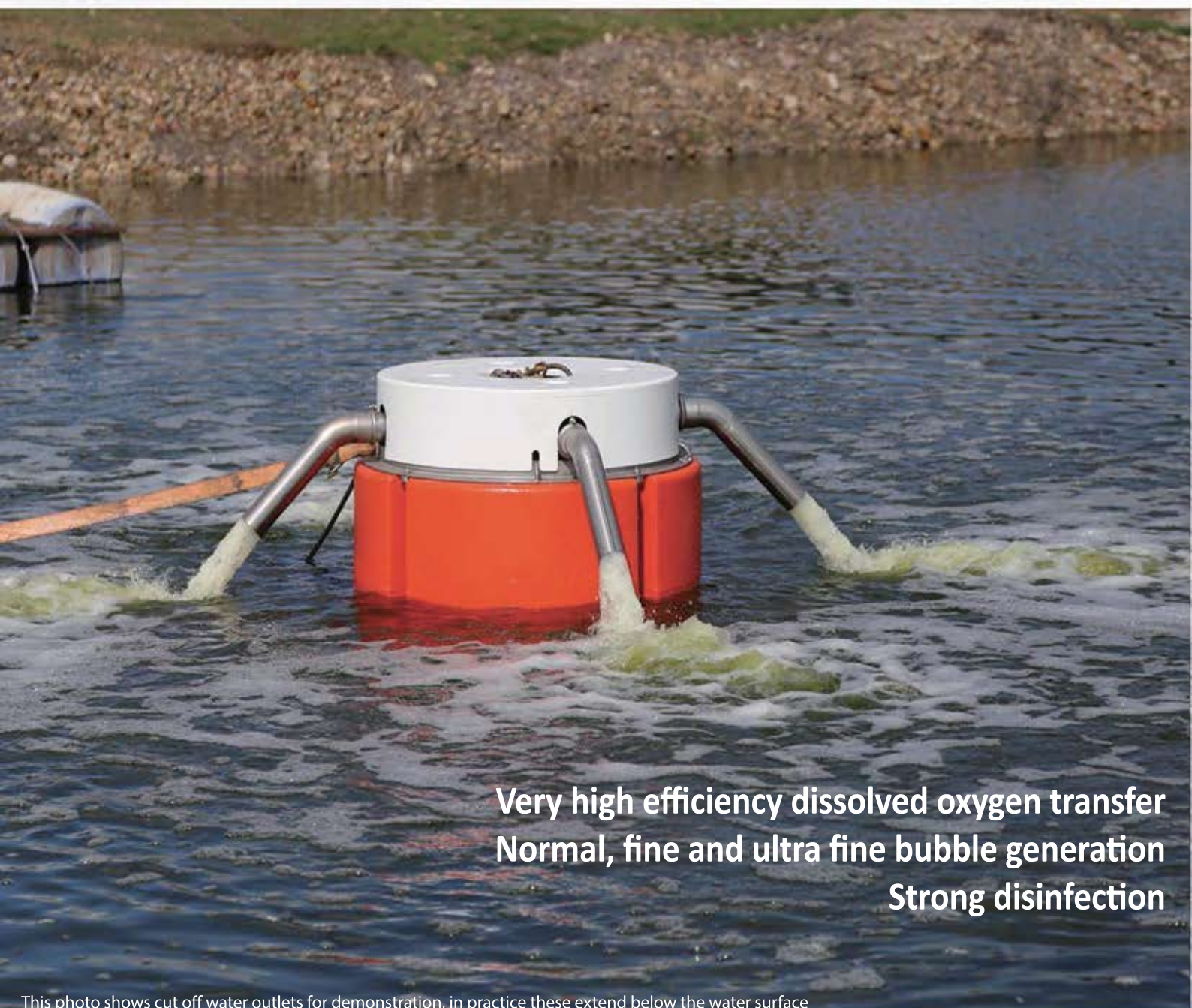




RMA QA **MICRO-BUBBLE GENERATOR & MIXER WITH** **VERY HIGH DISSOLVED OXYGEN TRANSFER**

Ultra Low Energy



Very high efficiency dissolved oxygen transfer
Normal, fine and ultra fine bubble generation
Strong disinfection

This photo shows cut off water outlets for demonstration, in practice these extend below the water surface

Product Description

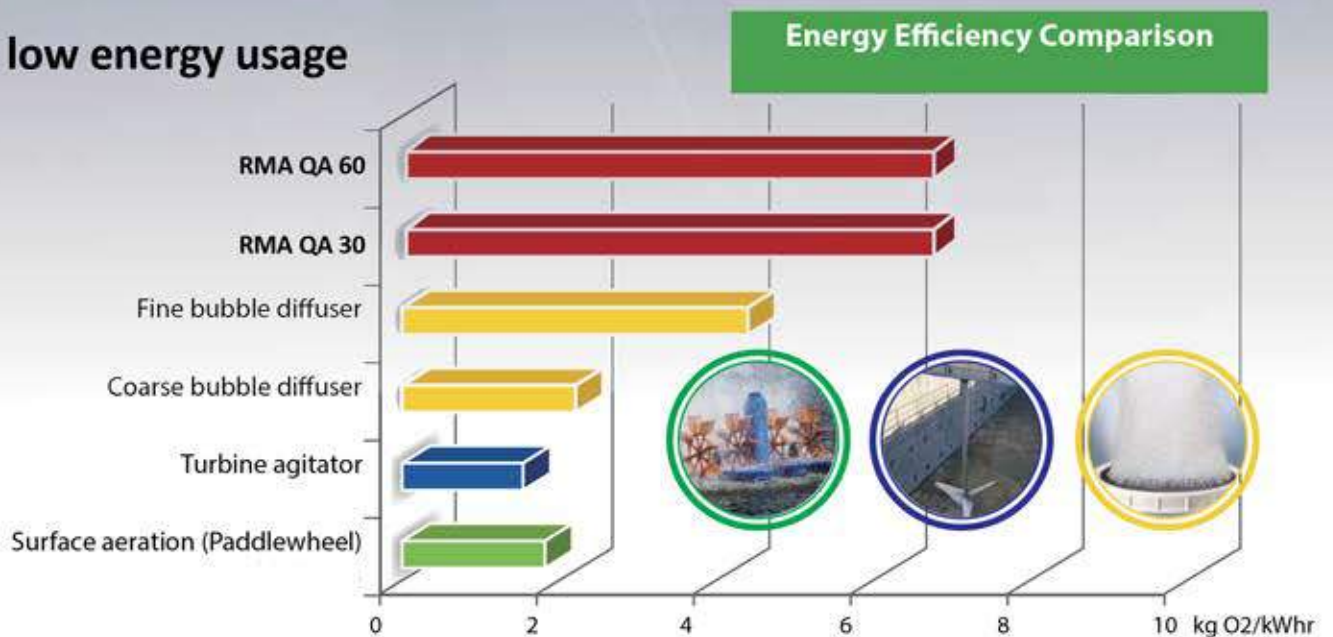
The RMA QA Micro-bubble generator produces fine (micro) and ultra-fine (nano) air bubbles in addition to highly efficient dissolved oxygen (DO) transfer to water.

Air bubbles dissolve over time releasing a store of oxygen.

In addition it achieves complete water body mixing and destratification.

The RMA QA is subject to Innovative Patent registration.

Ultra low energy usage

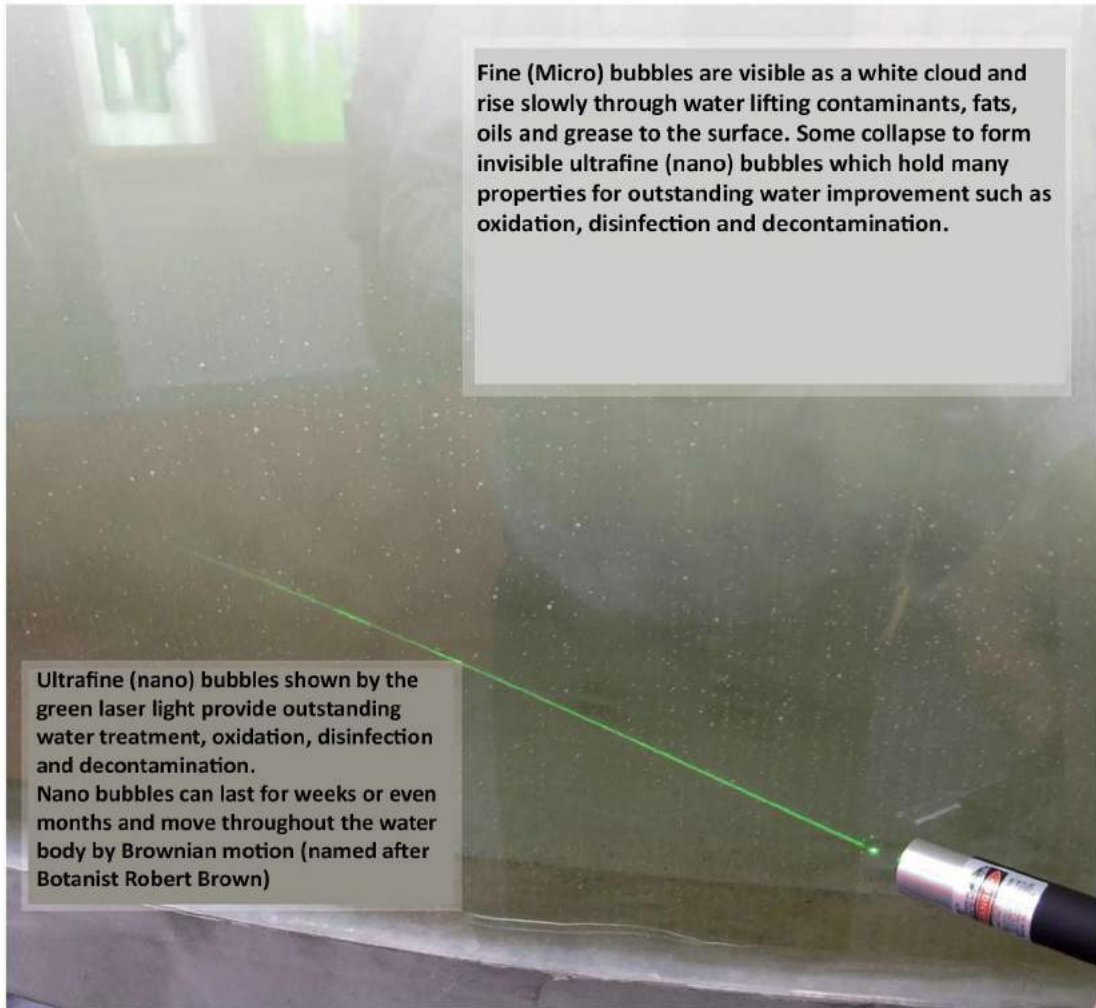


- ✓ Generates a range of normal (macro), fine (micro bubbles) and ultra-fine (nano bubbles) air bubbles while transferring high volumes of oxygen directly and in stored form. Different bubbles perform different functions.

Type	Normal (marco) bubbles with high coalescence	Micro or Fine Bubbles Carrying a -ve charge	Ultra Fine or Nano Bubbles
Size	>1mm	0.001-1mm	<0.001mm
Properties	<ul style="list-style-type: none"> Drive water circulation Break down organic matter Creation transfers Dissolved Oxygen (DO) into the water 	<ul style="list-style-type: none"> Act as a coagulant Form nano-bubbles Adhere to pollutants surface 	<ul style="list-style-type: none"> Implosion releases energy to destroy pathogens Implosion creates free radicals as strong oxidizing agent Implosion releases stored oxygen into the water

- ✓ Strong circulation distributes Dissolved Oxygen throughout the water body both vertically and horizontally. Brownian motion delivers ultra-fine bubbles thought out the water body.
- ✓ High mobility bubbles ensures optimal surface interface between contaminants and oxidants.
- ✓ In aquaculture, aquatic life respiration is enhanced resulting in better growth rates.

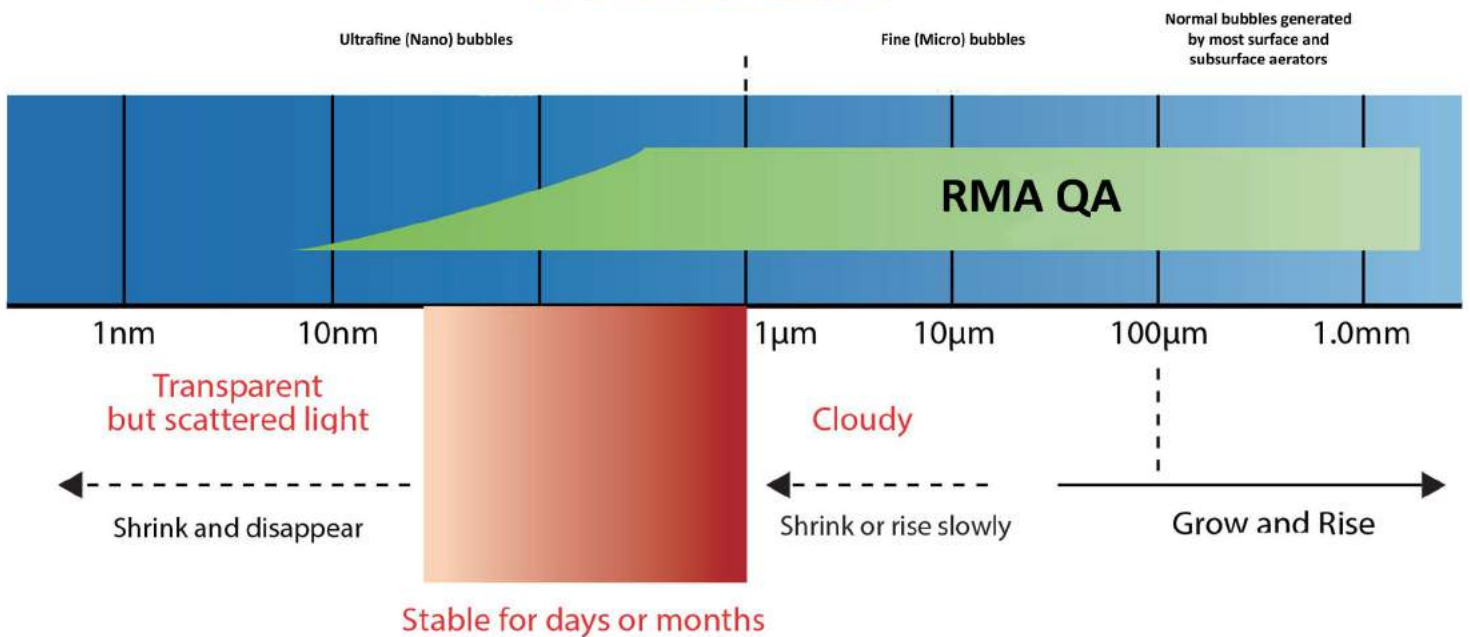
The Micro-Bubble Technology



Fine (Micro) bubbles are visible as a white cloud and rise slowly through water lifting contaminants, fats, oils and grease to the surface. Some collapse to form invisible ultrafine (nano) bubbles which hold many properties for outstanding water improvement such as oxidation, disinfection and decontamination.

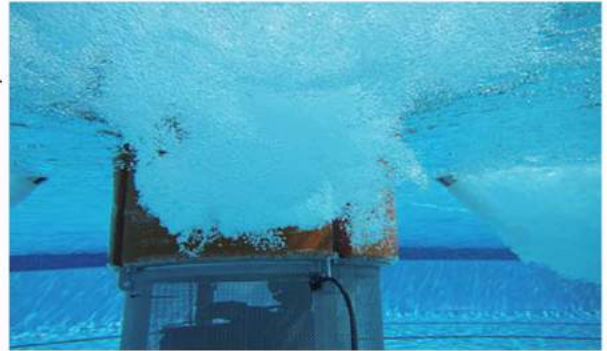
Ultrafine (nano) bubbles shown by the green laser light provide outstanding water treatment, oxidation, disinfection and decontamination. Nano bubbles can last for weeks or even months and move throughout the water body by Brownian motion (named after Botanist Robert Brown)

Air Bubble Diameter



Applications

- ◆ Any Water Treatment from Municipal Drinking Water to Heavily Polluted Water
- ◆ Wastewater Treatment Plants
- ◆ River and Lakes Remediation
- ◆ Destratification in Reservoirs and Large Water Bodies
- ◆ Municipal Leachate Waste Treatment
- ◆ Food Process Industry Wastewater
- ◆ All forms of Aquaculture



Larger models available to order up to 100kW

- ◆ Long life UV protected and barnacle resistant buoys
- ◆ Light weight
- ◆ Easily Serviced
- ◆ Supplied with stainless steel wire mesh screens (not shown)
- ◆ Kevlar extensions available up to 20 metres for destratification



RMA QA 60



RMA QA 30



RMA QA 15

RMA QA Specifications

RMA QA

Pump Size	Outlets	Weight (kg)	Size (m x m)	Water Flow (ML/day)	Air Flow (ML/day)	Oxygen Input (ML/day)	MassFlow O ₂ (excluding additional air bubble transfer) (kg/hr)
RMA QA 60 6kW	8	280	1.1D x 1.8H	4.40	30.10	2.2	35.9
RMA QA 30 3kW	4	185	1.0D x 1.0H	2.20	15.06	1.1	17.7
RMA QA 15 1.3kW	2	120	0.6D x 1.3H	1.00	2.30	0.5	7.8

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