

# Quattro-DB<sup>®</sup>

## ULTRASONIC UNIT

### CHEMICAL-FREE ALGAE & BIOFILM CONTROL



**Quattro-DB<sup>®</sup> Ultrasound System** - Quattro (Four) and DB (Dual Bandwidth) is a patented ultrasound device consisting of two piezos, emitting ultrasonic signals in four directions, allowing for 360° coverage with a single unit, providing efficient control of algae and biofilm growth, without chemicals.

#### FEATURES:

- Patented 360° treatment coverage
- Covers large algae control zone (Green Algae & Diatom Control Range: 150 meters radially from the device or about 70,000 m<sup>2</sup> / Blue-green Algae Control Range: 400 meters radially from the device or 500,000 m<sup>2</sup>)
- 2000+ distinct frequencies spans multiple bandwidths
- Low power consumption & cost to run (Electric or solar powered options)
- Simple to install & maintain

#### BENEFITS:

- Improved water taste & odour
- Enhanced water quality and clarity
- Reduced pH & percentage of suspended solids
- Reduced chlorine usage, which means less THM's and HAA's
- Increased system lifespan & filter run times

#### MULTIPLE AREAS FOR USE:

- Lakes, Ponds & Pools
- Reservoirs & Irrigation Dams
- Waste Water Treatment Lagoons, Clarifiers & Sedimentation Basins
- Distribution Water Tanks
- Fresh and Marine Aquaculture - Reduces off-flavours

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The device creates ultrasonic frequencies that cover two important bandwidths where algae can be controlled via critical structural resonance. Ultrasound works as the force to cause these internal vibrations in algae cells or in organelles inside the algae cells that effectively disables them.

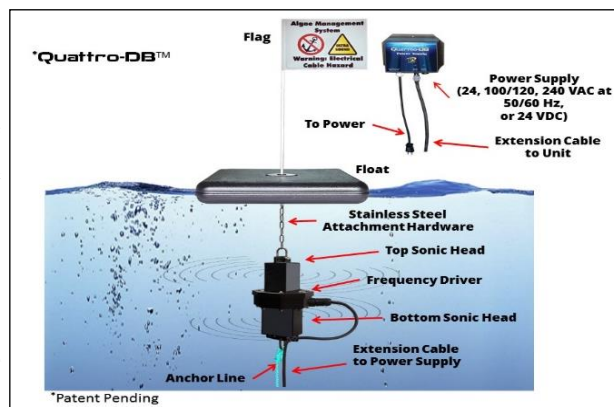


## Each unit includes:

- Ultrasound Device
- Electronic Controller Unit
- Float & Flag
- Power Cord



Figure 1 - Quattro-DB® Ultrasound Device



The device does no harm to higher order organisms such as fish and plants, nor does it harm bio-solids and planktonic organisms. Since the device can control biofilm formation on cleaned surfaces, you may notice surfaces near the device remain clean for long periods after being initially cleaned. Some fungi, such as Pythium, will also be controlled by this device.

Marketed in New Zealand by:

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