At a glance. . .

**Diffuser**
Motor mount/diffuser is suitable for use in salt water or fresh water.

**Support Tube**

**Flotation**
Polyethylene square flotation for stability, styrene foam filled.

**Propeller**

**Motor UL & CSA recognized**

GROUND FAULT PROTECTION is STRONGLY suggested on any electrical device.

How it works. . .

AQUARIAN aerators incorporate a Franklin® Electric submersible motor, which is water-cooled and water-lubricated, to rotate a scientifically designed, foul resistant propeller, at 3450 rpm.

**Pumpage, Aeration and mix**
The rapidly revolving Aquarian propeller pumps a large column of water to a computer designed diffuser. When the column of water strikes the diffuser, a shearing effect occurs, breaking the column into micro droplets and exposing more water surface area to the atmosphere. As the water returns to the “parent body”, each micro droplet drags an additional amount of water with it, causing an “induced flow”, which in essence increases the surface area.

Another event that occurs simultaneously is the cooling of the water. This cooler water tends to sink, since it is heavier and denser, displacing warmer water that is trying to rise.

Consequently, with pumpage, induced flow and cooling, pond turnover is continual, preventing stratification to depths as great as 12 ft/3 m.

**How much?**
The question is always asked, “How much aeration do I need?” All ponds and situations are different, but as a general rule, approximately one-horsepower per surface acre is sufficient, depending on the Biochemical Oxygen Demand (BOD) for a lake or pond.

Member:
- United States Aquaculture Suppliers Association
- National Aquaculture Association
- American Tilapia Association
- Catfish Farmers of America
Advantages...

- Rugged, stainless steel Franklin Electric submersible motor, UL 778 recognized, water-cooled, water-lubricated.
- No oil to contaminate or rob energy.
- No long shafts to bend or become out of balance. Motor has a 5/8" diameter, 1-1/2" long motor shaft.
- No seals or bearings to maintain.
- Single phase and three phase equipment available.
- High speed, foul resistant propeller. High shear water spraying action. No lazy spray or bubbles.
- Computer designed diffuser, engineered to break up the water column for the best oxygen transfer rate.
- One year limited warranty
- Pumpage rate is the highest available per nameplate horsepower and is independently tested.

Look Inside...

A Franklin 4" Super Stainless Motor

- Stainless Steel Shaft
- Stainless Steel Mounting Studs
- Spline Protector and Sand Slinger
- Filter Check Valve
- NEMA Mounting Dimensions
- Lip-Type Shaft Seal
- Built-In Shaft Seal
- Hermetically Sealed Stator Windings with Anti-Track Resin System
- Stainless Steel Outer Shell
- Cast End Bells
- Stainless Steel Cover
- Motor Lead
- Removable Water-Bloc Lead Assembly
- 2-Wire Biac Starting Switch
- Water Lubricated Carbon Bearing System
- Dynamically-Balanced Rotor
- Kingsbury-Type Thrust Bearing
- Pressure Equalizing Diaphragm Assembly

Performance Data...

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<th>PART #</th>
<th>HP</th>
<th>VOLTS</th>
<th>PH.</th>
<th>MAX* AMPS</th>
<th>SOTR** RATE</th>
<th>GPMLPM</th>
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*Max. Amps: Maximum allowable service factor amperage.
**SOTR Standard Oxygen Transfer Rate
#Based on tests performed by GSEE Environmental Consultants, LaVergne, TN

Optional Equipment...

Class B Equipment Leakage Circuit Interrupter (ELCI)

#15ELCI24230
#15ELCI26140
Suggested Electrical
Air-O-Lator equipment is manufactured either to UL, CSA or NEMA standards.

All wiring shall be per NEC, CEC or local electric codes.

Suggested Mooring
Use approximately three feet of mooring rope per foot of water depth to allow for water level fluctuation. Tying unit to the shore is also acceptable if visible mooring ropes are not objectionable.

Recommended Electrical Power Supply Layout for easy installation and removal of equipment