

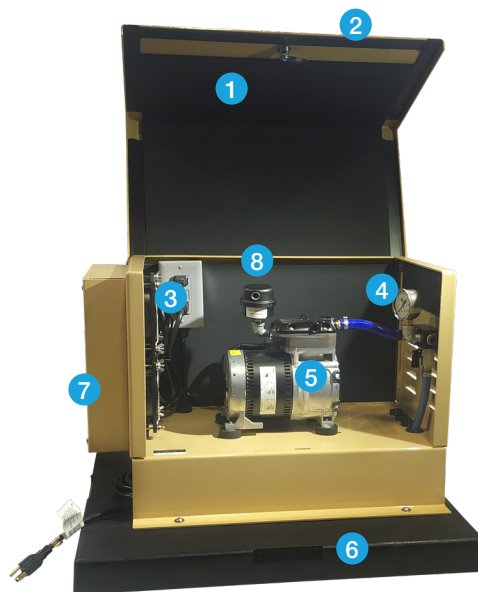
# AquaElite™

# Atmos

Diffused Aeration System



# Atmos at a Glance



1. Sound Dampening Foam

2. Powder Coated Aluminum Lockable Cabinet

3. (2) Circulating Fans

4. Valve Manifold & Pressure Gauge

5. Gast Rocking Piston Compressor

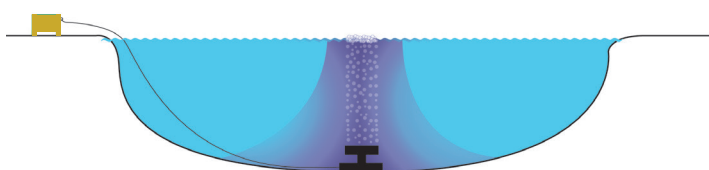
6. Equipment Pad

7. Fan Cover

8. Filter

## How it Works

The shore mounted rocking piston compressor produces compressed air through weighted airline to a membrane diffuser located on the bottom of the pond. The compressed air is released into the water through the membrane diffuser releasing thousands of fine bubbles which rise to the surface. As the bubbles of air rise, oxygen is transferred into the water. Simultaneously, as bubbles rise, water is pulled upward, creating a flow of water from the bottom of the pond to the surface.



## Advantages

- Electricity required at the water's edge. Your compressor needs electricity, but the compressor can be located wherever you desire
- No floating object on the water surface enabling you to go boating or fishing
- Lower maintenance and service costs due to no moving parts in the water
- Safer swimming. The Atmos Bottom Diffused Aeration system does not require electricity to be in the pond
- Eliminates thermal stratification, making it ideal for deep-water applications
- Improves water quality and clarity
- Low operating cost

# Performance Data

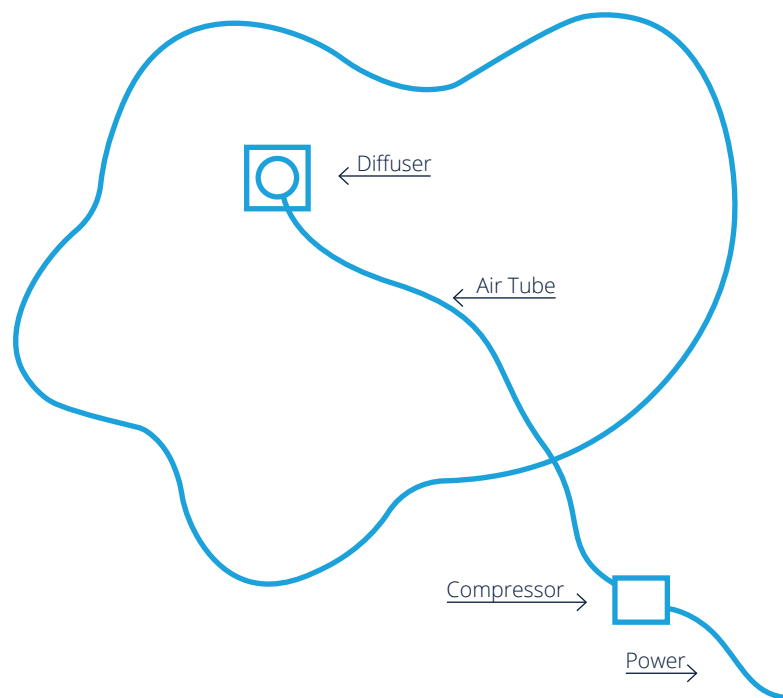
System Name	Part No.	HP	Volts	Phase	Max Amps	CFM
Atmos .25	Atmos 25	1/4	115	1	3.0	2.2
	Atmos 25-230	1/4	230	1	1.5	2.2
Atmos .50	Atmos 50	1/2	115	1	6.2	4.3
	Atmos 50-230	1/2	230	1	3.1	4.3
Atmos .75	Atmos 75	3/4	115	1	7.9	6.0
	Atmos 75-230	3/4	230	1	7.9	6.0
Atmos 1	Atmos L250	1	115	1	12.4	8.6
	Atmos L250-230	1	230	1	6.2	8.6
Atmos 1.5	Atmos L275	1 1/2	115	1	15.8	12
	Atmos L275-230	1 1/2	230	1	7.9	12

## Sizing Information

When selecting an Atmos bottom diffused aeration system, consider the shape, surface area, and depth of the pond. The amount of surface area the Atmos bottom diffused aeration system will effectively cover is dependant on the depth and shape of the pond. The area of coverage increases the deeper the diffuser is located in the water.

For example, the Atmos 1/4 horsepower Rocking Piston with a single diffuser, located at a depth of 8', will provide adequate aeration and oxygen dispersion of an area 3/4 acres. if the diffuser is located at a depth of 16', the coverage area increases to 1-1.5 acre.

The shape of a pond also affects the number of diffusers needed. An irregular shape pond, (i.e) kidney shape, rectangular, or one with an island or peninsula, will require multiple diffusers to adequately disperse the oxygen.



## System Maintenance & Warranty

### System Maintenance

- Replace filter(s) every 6 months
- Install compressor maintenance kit(s) every 2-3 years

### System Warranty

- 4 year compressor (Does not include wear items)
- 5 year Diffuser/Base and Airline
- Lifetime against rust on cabinet



# Atmos Accessories

## Weighted Airline

ARL0033 - 100' of 1/2" Weighted Airline

ARL0073 - 500' of 1/2" Weighted Airline

ARL0303 - 100' of 5/8" Weighted Airline

ARL0304 - 500' of 5/8" Weighted Airline



## Self-Sinking Diffusers

ARS0390 - Single round rubber 9" rubber membrane diffusers with self sinking base, 3/8" & 1/2" barb fitting

ARS0387 - Single round rubber 9" rubber membrane diffusers with self sinking base, 5/8" barb fitting

ARS0391 - Double round rubber 9" rubber membrane diffusers with self sinking base, 3/8" & 1/2" barb fitting

ARS0388 - Double round rubber 9" rubber membrane diffusers with self sinking base 5/8" barb fitting

ARS0458 - Quad round rubber 9" rubber membrane diffusers with self sinking base, 5/8" barb fitting



## Atmos Solar - Direct Drive Solar Aeration

### Solar Features

- 1/4hp, 1/2hp and 3/4hp 230v Rocking Piston compressor in a powder coated aluminum lockable cabinet
- (2) circulating fans
- Solar Controller with quick disconnects
- Solar Panels & Racking (Customer supplies mounting pipes)
- Ideal for off grid applications
- 15 year Warranty on Solar Panels



Product Name	Part No.	HP	Panels
Atmos Solar .25	Atmos S25	1/4	3
Atmos Solar .5	Atmos S50	1/2	4
Atmos Solar .75	Atmos S75	3/4	6

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