



Aeration
Industries®

AIRE-O₂ POLARIS® Aerator

The Stainless Steel Buster!

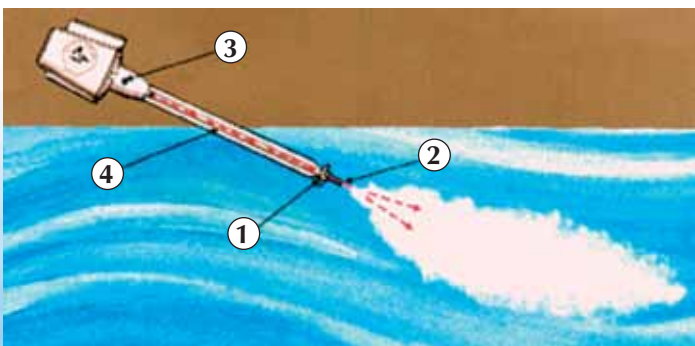
You asked for it and Aeration Industries has delivered. To combat the unpredictable and rising stainless steel prices, the AIRE-O₂ Polaris® aerator is made of a highly engineered composite material. The Polaris offers the same essential design features and advantages as the original AIRE-O₂® aspirator model. Aeration Industries International developed and introduced the innovative, patented aspirator aeration technology in 1974. More than 65,000 aerators have been installed throughout the U.S. and over 92 countries worldwide.

AIRE-O₂ POLARIS® Benefits:

- Low maintenance due to only one moving part.
- Increased mixing and oxygen dispersion.
- Fine bubble aeration of 2.2 mm and less.
- Durable engineered composite material, UV resistant.
- Same engineering integrity as AIRE-O₂® aerator at a reduced price.
- Adjustable angle of entry allows for shallow to deep applications.
- Ideal for retrofits and upgrades.
- Ease of installation, lightweight and portable.
- One (1) Year Warranty.



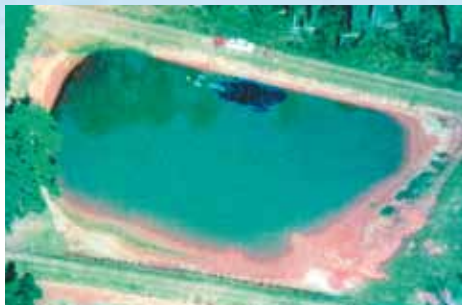
When multiple aerators are strategically positioned, oxygen dispersion and mixing is enhanced creating "flow linkage."



How It Works...

Atmospheric air is injected below the water's surface and thoroughly mixed by the rotating propeller at high velocities. The rotating propeller [1] induces a fluid flow across the annular opening [2] of the diffuser creating a pressure drop and drawing atmospheric gases from the air intake openings [3] into the hollow shaft [4] and under the water surface.

AIRE-O₂ POLARIS[®] Aerator



AIRE-O₂[®] at startup



AIRE-O₂[®] after 8 minutes



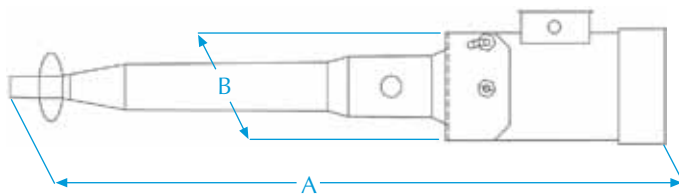
AIRE-O₂[®] after 32 minutes



Competitive 3 Hp Splasher at 80 minutes

Dye Test Proves Mixing Importance

The importance of oxygen dispersion and mixing is evident from a Dye Test conducted at Auburn University. A 2 Hp Aire-O₂[®] aerator was placed into a one acre pond. After just 32 minutes, the entire pond was completely mixed and circulated. Meanwhile, a competitive 3 Hp surface splasher aerator after 80 minutes showed only local oxygenation and poor mixing.



60 / 50 Hz Weights & Measures for the AIRE-O₂ POLARIS[®]:

NEMA AND IEC Motors Available

HP	kw	Dimensions		Motor Frame Size	60 hz Motor RPM	Motor FLA@ 460V	50 hz Motor RPM	Motor FLA@ 380V	Ship weight lbs. (kg)	Pontoon System Avail.
		A In. (m)	B In. (m)							
2	1.5	41.5 (1.05)	11.5 (.29)	180TC	3505	3.6	2945	6.3	100 (45)	Uni-Float
3	2.2	41.5 (1.05)	11.5 (.29)	184TC	3505	4.6	2900	5.2	110 (50)	Uni-Float
5	4	41.5 (1.05)	11.5 (.29)	184TC	3480	6.8	2890	8.6	115 (52)	Uni-Float
7.5	5.5	41.5 (1.05)	11.5 (.29)	213TC	3505	10.2	2845	6.26	118 (53)	Uni-Float

FRAME SIZE, RPM, FLA, and SHIP WEIGHTS may vary between motor manufacturers.

Pontoon systems available for 50 hz / 60 hz may vary. Contact factory.

Data subject to change without notice.

For estimate only - consult factory.



Aeration Industries[®]

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