

AquaElite™

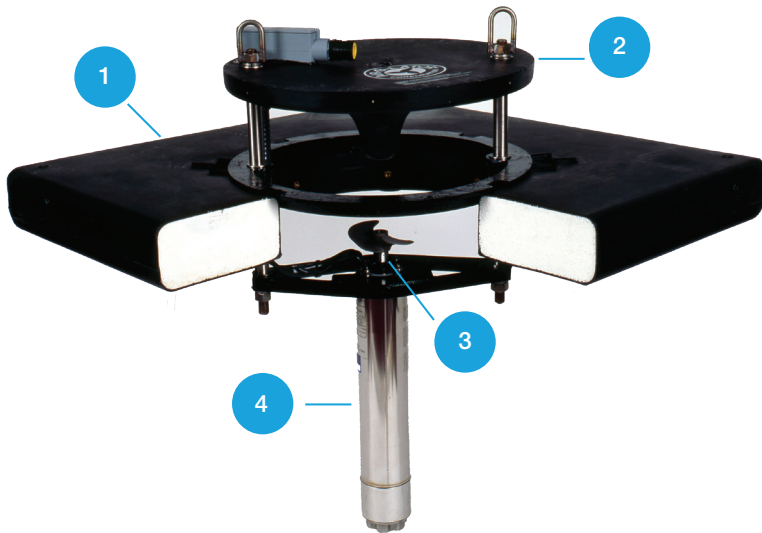
Konos Commercial

Floating 2 and 3 HP Aerators



Konos Commercial

at a Glance



1. Flotation - Polyethylene 36" square (8" thick) for superior stability styrene foam filled

2. Diffuser - Designed to give minimum flow resistance while diverting the liquid from a vertical to a horizontal direction optimizing the dispersion of the aerated liquid into the parent body

3. Propeller - Two-blade design of 316 stainless steel precision casting offers trail-back blades for foul-resistant operation and is hydraulically and dynamically balanced for smooth operation

4. Franklin Electric Submersible Motor -

- Water Lubricated
- Silicon carbide mechanical seals for longer motor life
- Stainless steel construction
- Water Cooled

How it Works

The Konos Commercial was originally designed and engineered for the tough wastewater lagoon environment as a cost saving solution for municipalities both large and small. The Konos Commercial is also a formidable solution for industrial point source applications. Additional uses are cattle, hog, and chicken, and retention ponds.

The Konos Commercial produces a large volume of water from 1700 gpm for a two horsepower aerator up to 2700 gpm for a three horsepower unit. The Konos Commercial diffuser deflects the water column in an omni-directional pattern at right angles to the water surface and outward from

the unit. As the redirected water flow from the diffuser is propelled through the air at a tremendous velocity, oxygen is being added at a substantial rate providing Standard Oxygen Transfer Rates from five to six pounds per horsepower hour depending on the horsepower selected

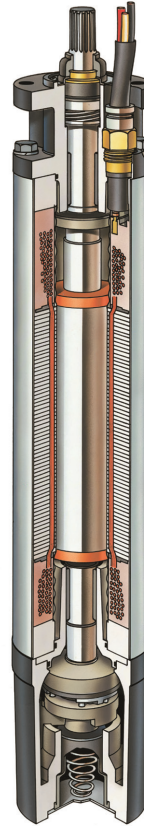
At the same time the water is being propelled through the atmosphere, evaporative cooling is occurring, which allows the water being pumped into the atmosphere to cool therefore permitting more retain oxygen for a greater period of time. A sizable induced flow creates maximum directional flow as well as maximum dispersion of aerated water in the basin being treated.



Features

- Rugged, stainless steel Franklin Electric submersible motor, UL 778 recognized, water cooled, water lubricated.
- Eco-friendly motor.
- No long shafts to bend or become out of balance. 5/8" diameter, 1-1/2" long motor shaft.
- Low trajectory spray pattern permits minimal ice build up.
- 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.
- 100' water resistant power cord. Longer power cord available in 50' increments.
- Propeller guard.
- Single phase provided with start/run control box. Three phase provided with contractor and overload relay in a 3R enclosure.
- 2 year Limited Warranty

Look Inside



- Silicone carbide seal for longevity.
- Motor leads are flexible for easy handling.
- Removable water-block lead connector for easy replacement of damaged leads.
- Up-thrust bearing.
- Hermetically sealed stators with welded stainless steel liners and outer shell, prevents fluid contact with windings.
- Grooved radial carbon bearings with material specifications selected for pre-filled water lubrication.
- Kingsbury type thrust bearing is self aligning and carries thrust and rotor weight.



ALL-SEASON PERFORMANCE

With over 95% of the weight of the aerator beneath the liquid surface, the Konos Commercial is unconditionally guaranteed not to capsize due to ice or turbulence.

Performance Data

Part No.	HP	Volts	PH	Max* Amps	GPM/LPM Rate	SOTR**
Konos 2230	2	230	1	13.2	1700	5.5 #
Konos 22303	2	230	3	8.1	1700	5.5 #
Konos 24603	2	460	3	4.1	1700	5.5 #
Konos 3230	3	230	1	17.0	2700	6.0 #
Konos 32303	3	230	3	10.9	2700	6.0 #
Konos 34603	3	460	3	5.5	2700	6.0 #

* Max Amps: Maximum allowable service factor amperage

** SOTR: Standard Oxygen Transfer Rate

Based on tests performed by GSEE Environmental Consultants, Lavergne, TN

Minimum Operating Depth - 36"

Cable Selection Guide

Motor Rating		Copper Wire Size		
Volts	HP	12	10	8
230	2	250	400	*
230	3	200	300	400

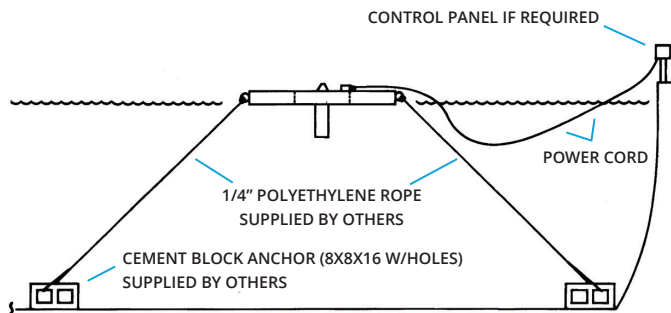
Single phase, three-wire w/ground cable, 60 HZ
(Maximum length in feet - service entrance to motor)

Motor Rating		Copper Wire Size		
Volts	HP	12	10	8
230	2 & 3	400	600	1000
460	2 & 3	1600	2500	4000

Three phase, three-wire w/ground cable, 60 HZ
(Maximum length in feet - service entrance to motor)

Suggested Mooring

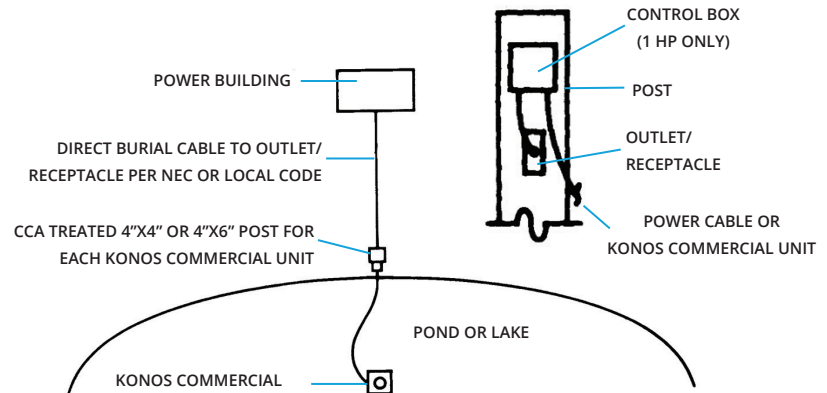
Use approximately three feet of mooring rope per foot of water depth to allow for water level fluctuation. Tying unit to the shore is also acceptable if visible mooring ropes are not objectionable.



Suggested Electrical

Our equipment is manufactured either to UL, CSA, or NEMA standards.

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



Recommended electrical power supply layout for easy installation and removal of equipment.

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