

Solaer™ Industrial Wastewater Aeration System

Patent No. 6,676,837

KEETON
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Keeton Industries superior, patented solar aeration system, Solaer®

allows us to design and implement a one-of-a-kind system
powered by the sun and needing virtually no service.



The patented Solaer Industrial Wastewater Aeration System introduces compressed air into holding lagoons or impoundments using Duraplate self-cleaning, non-clogging, maintenance free diffusers. This process creates an air lift pumping effect that draws oxygen-depleted water from the bottom, oxygenates it and transports it to the surface. This action breaks down stratified water while increasing dissolved oxygen levels and increasing biological activity. These systems will provide a continuous source of aeration in remote applications where power supply is limited or unavailable. Their rugged design allows for installation almost anywhere.

- **Install at any location – Perfect for remote or limited utility sites**
- **Run on free solar energy**
- **No trenching required**
- **Provide 20-hour per day run times – Battery support at night**
- **Operate on safe, low voltage power**
- **Assists in satisfying Discharge Requirements**

Improves Dissolved Oxygen

Improves Waste Digestion

Improves Odor Reduction

Reduces Total Suspended Solids

Reduces BOD and COD

Reduces Organic Sludge Buildup

Reduces Equipment Expense

Reduces Operational Maintenance

Increases Microbial Action



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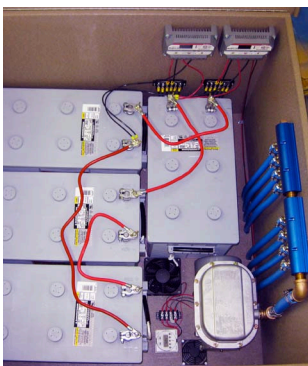
SOLAER INDUSTRIAL WASTEWATER AERATION SYSTEMS

Model	Description
CB-4	(1) 4CFM Solar Compressor, (6) 210W Solar Panels, (4) Deep Cycle Sealed Gel Filled Batteries, (4) Duraplate Diffusers
CB-6	(1) 4CFM Solar Compressor, (6) 210W Solar Panels, (4) Deep Cycle Sealed Gel Filled Batteries, (6) Duraplate Diffusers
CB-8	(1) 4CFM Solar Compressor, (6) 210W Solar Panels, (4) Deep Cycle Sealed Gel Filled Batteries, (8) Duraplate Diffusers
CB-12	(2) 4CFM Solar Compressor, (12) 210W Solar Panels, (8) Deep Cycle Sealed Gel Filled Batteries, (12) Duraplate Diffusers
CB-16	(2) 4CFM Solar Compressor, (12) 210W Solar Panels, (8) Deep Cycle Sealed Gel Filled Batteries, (16) Duraplate Diffusers

CONTACT US FOR PROPER SIZING



Aeration greatly improves water quality by increasing dissolved oxygen levels, reducing BOD and COD, eliminating stratification, reducing offensive odors and reducing organic material in wastewater application.



SPECS/INCLUSIONS

- High efficiency 24V solar panels
- Self-diagnostic charge control system
- Battery backup for night and inclement weather
- High volume diaphragm compressor
- Fully adjustable manifold
- Digital timer
- Self-cleaning Duraplate diffusers
- Ventilated 100% Recycled Plastic Cabinet

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