# **Pond Aeration Systems**

The amount of surface area an aeration system will effectively cover is greatly dependent on two factors - depth and shape.

# Depth

The diagram below shows how much surface area is effectively aerated per air diffuser at various depths:



#### Example:

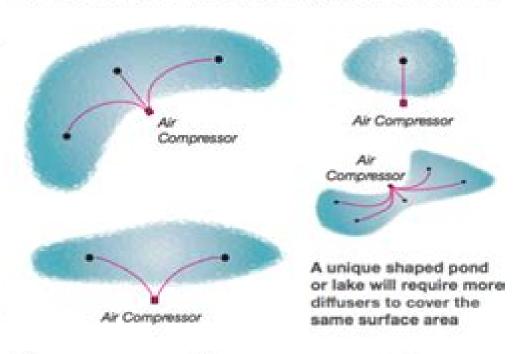
Our PA34 pond aerator would aerate only 1/s of an acre if operated in 4' deep water, while aerating up to 1'/s acres if operating in 16' - 20' of water.

Ponds that are irregular or odd shaped will also reduce size of aeration area — call our technical assistance department for additional help.

The deeper an air diffuser is located, the more boiling action it will create and a larger area will be aerated.

# Shape

Pond shape affects the amount of diffusers needed. Irregular shaped ponds require multiple diffusers to adequately aerate entire water column.



Rocking Piston Systems:			6' - 8' Deep	6' - 12' Deep	12' - 16' Deep
Base Part #	Horse Power	Diffusers Included			
PA341	1/4 hp	1 or 2	up to 1/4 acre	up to 1/2 acre	up to 1 acre
PA66	1/2 hp	3	up to 3/4 acre	up to 11/2 acres	up to 3 acres
PA86	3/4 hp	4	up to 1 acre	up to 2 acres	up to 4 acres
Rotary Va	ne Systems:				
PA50	1/4 hp	2	up to 1/2 acre	up to 1 acre	up to 2 acres
PA75	3/4 hp	4	up to 1 acre	up to 2 acres	up to 4 acres
PA100	1 hp	6	up to 11/2 acres	up to 3 acres	up to 6 acres

'PA34-2 will aerate larger ponds - call for details

# **Aeration System Wiring Diagram**

**Thomas E. Jenkins** 

#### **Aeration System Wiring Diagram:**

Aeration Control System Design Thomas E. Jenkins, 2013-10-29 Learn how to design and implement successful aeration control systems Combining principles and practices from mechanical electrical and environmental engineering this book enables you to analyze design implement and test automatic wastewater aeration control systems and processes It brings together all the process requirements mechanical equipment operations instrumentation and controls carefully explaining how all of these elements are integrated into successful aeration control systems Moreover Aeration Control System Design features a host of practical state of the technology tools for determining energy and process improvements payback calculations system commissioning and more Author Thomas E Jenkins has three decades of hands on experience in every phase of aeration control systems design and implementation He presents not only the most current theory and technology but also practical tips and techniques that can only be gained by many years of experience Inside the book readers will find Full integration of process mechanical and electrical engineering considerations Alternate control strategies and algorithms that provide better performance than conventional proportional integral derivative control Practical considerations and analytical techniques for system evaluation and design New feedforward control technologies and advanced process monitoring systems Throughout the book example problems based on field experience illustrate how the principles and techniques discussed in the book are used to create successful aeration control systems Moreover there are plenty of equations charts figures and diagrams to support readers at every stage of the design and implementation process In summary Aeration Control System Design makes it possible for engineering students and professionals to design systems that meet all mechanical electrical and process requirements in order to ensure effective and efficient operations The Mechanics and Physics of Modern Grain Aeration Management Shlomo Navarro, Ronald T. Noves, 2001-09-14 The tightening of health and environmental regulations by banning chemical pesticides has generated the need for alternative technologies to solve grain storage problems Aeration is such an option that can be applied to stored grain and a wide range of agricultural commodities to control insects and maintain quality The Mechanics and Physics of M Aeration of **Cottonseed in Storage** Lloyd LeRoy Smith, 1975 New York Court of Appeals. Records and Briefs. New York (State)... East Bay Marina, Olympia Harbor, Budd Inlet, 1981 **Improving the Export Distribution System for Fresh Fruits** and Vegetables Thurlow Quinton Hutchinson, Linwood Allen Hoffman, Ralph Parlett, 1974 *The Progressive Fish Culturist* The Progressive Fish Culturist U.S. Fish and Wildlife Service, 1989 ,1989 Marketing Research Report ,1975 Optimizing a Petrochemical Waste Bio-oxidation System Through Automation M. A. Zeitoun, W. F. McIlhenny, H. Laws Relating to Fur-bearing Animals, 1918 Clarence Harris, David Ernest J. Biscan, J. H. Culp, H. C. Behrens, 1975

J. Biscan, J. H. Culp, H. C. Behrens, 1975 Laws Relating to Fur-bearing Animals, 1918 Clarence Harris, David Ernest Lantz, Harold B. Jones, Herbert Holms Moede, James Edward Haskell, Jon P. Weimer, Peter Louis Henderson, Richard Shaefer Berberich, William R. Wright, 1974 Marketing Research Report United States. Department of Agriculture, 1952

Costs of Building and Operating Rice Drying and Storage Facilities in the South Shelby Herbert Holder, Joseph L. Ghetti, Zolon Marion Looney, 1973 Organizational Maintenance Manual for Hull, Powerplant, Drive Controls, Tracks, Suspension and Associated Hardware ,1986 **Sea-water Intrusion in California** California. Department of **Environmental Protection Technology Series** ,1975-06 **Catalog of Copyright Entries** Water Resources, 1960 Direct Support and General Support Maintenance Manual for Hull, Library of Congress, Copyright Office, 1974 Powerplant, Drive Controls, Tracks, Suspension, and Associated Components ,1991 Advances in Computer, Information, and Systems Sciences, and Engineering Khaled Elleithy, Tarek Sobh, Ausif Mahmood, Magued Iskander, Mohammad A. Karim, 2007-06-06 The conference proceedings of International Conference on Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground breaking conference The on line structure of this high quality event allowed academic professionals and industry participants to contribute work and attend world class technical presentations based on rigorously refereed submissions live without the need for investing significant travel funds or time out of the office Suffice to say that CISSE received submissions from more than 50 countries for whose researchers this opportunity presented a much more affordable dynamic and well planned event to attend and submit their work to versus a classic on the ground conference The CISSE conference audio room provided superb audio even over low speed internet connections the ability to display PowerPoint presentations and cross platform compatibility the conferencing software runs on Windows Mac and any other operating system that supports Java In addition the conferencing system allowed for an unlimited number of participants which in turn granted CISSE the opportunity to allow all participants to attend all presentations as opposed to limiting the number of available seats for each session. The implemented conferencing technology starting with the submission review system and ending with the online conferencing capability allowed CISSE to conduct a very high quality fulfilling event for all participants See www cissee 2005 org sections IETA TENE EIAE Bulletin ,1960-04

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