



ECS
**House
Industries**
INCORPORATED

www.houseindustriesinc.com

Cherry Valley, Arkansas

COLUSA, CA 15HP
FLOATING BRUSH AERATOR PROPOSAL





For: Ray Sprague

Date: January 23, 2025

Project: Aeration Upgrade

Reference: 01232025-040-JCH

ECS House Industries' Floating Brush Aerators provide effective and efficient wastewater treatment through superior oxygen transfer and mixing rates. The ECS House Industries' Floating Brush Aerators have a Standard Aeration Efficiency of 3.0 lbs.O₂/hp/hr and mixing rates over 3,500 gpm/hp. The oxygen transfer and mixing rates described above are 25% to 40% better than other styles of surface aeration systems.

The House Brush Rotor design has been utilized in wastewater treatment plants for over 35 years, and has proven to be the industry leader in Floating Brush Aerator Technology.

ECS House Industries, Inc., represented by JBI Water & Wastewater, Inc. would like to offer the following Floating Brush Aeration Equipment Proposal. We meet and exceed all specification requirements.

Two (2) 15hp, TGIC Powder Coated Stainless Steel, Floating Brush Aerator include:

Rotor Assembly (including brushes), Aerator Main Frame, Drive Enclosure, **Mooring System, ASTM A36 TGIC Powder Coated Steel.

Foam Filled Floatation Tanks, Floatation Band Attachments, Non-Drive End Bearing Cover, Splash Shields, Electric Motor Cover are made out of 304L Stainless Steel.

Drive End and Non Drive End Shafts will be made out of 316L stainless steel.

Further detailed build characteristics and materials details are in the aerator specifications.

**The Mooring System shall consist of two (2) 30' mooring arms, two (2) cross brace assemblies, and two (2) mooring arm anchoring attachments for levee anchoring.

Process Performance & Aerator Operations:

- 15hp, ECS House Industries, Inc. Floating Brush Aerator shall produce 40.5 lbs.02/hr
- ECS House Industries, Inc. Floating Brush Aerators shall produce a minimum pumping rate of 3,500 gpm/hp
- ECS House Industries, Inc. Floating Brush Aerators will meet all process performance requirements\
- ECS House Industries, Inc. will meet and exceed all specifications.

Delivery:

- ECS House Industries, Inc. can guarantee delivery 4-6 weeks after receipt of approved purchase order agreement

Start-Up & Training Procedures:

ECS House Industries, Inc. will complete a startup/warranty certification that will help train plant personnel how to properly maintain the Floating Brush Aerators. The startup will include the following:

- Proper oil changing procedure & oil change frequency
- Proper grease lubrication procedures & lubrication frequencies
- Raptor Coupler alignment & replacement
- Drive & Non-Drive End Bearing replacement
- Review Aerator set-up & trouble shooting guide
- Visual aerator inspection: seal surfaces, bearings, & shafts
- Rotor & blade depth adjustment
- After aerator start-up, the Contractor/Representative/or Owner will check the Floating Brush Aerators for proper rotor assembly rotation, and the amperage draw of each electric motor. Each electric motor shall operate at a suggested 90% load based on the nameplate data.
- If any rotor assembly adjustments are necessary to improve the amperage draw and aerator performance, then this adjustment shall be performed in strict accordance to "Aerator Set-Up & Trouble Shooting Guide" provided by ECS House Industries, Inc.

- After Floating Brush Aerators are operating properly, ECS House Industries shall provide documentation reports to the Contractor and Operator certifying the Floating Brush Aerators are operating properly.
- Online Webinars are available to further assist in any start-up and/or training.

Warranty:

ECS House Industries, Inc. will warranty its equipment as free of defects in material and workmanship for a period of twenty-Four (24) months to the original purchaser subject to the restrictions and conditions listed herein. Warranty period will begin upon delivery to the original purchaser or its designee. ECS House Industries, Inc. will replace or repair any part built and manufactured by ECS House Industries, Inc. within the warranty period that have failed under normal use subject to the restrictions and conditions listed herein. **1st year Preventative Maintenance will be performed by ECS House Industries, Inc. Service Technicians at no charge to the Owner.**

Pricing:

Two (2) 15hp, ECS House Industries, Inc. Floating Brush Aerators, Model #SDB120TA4 (\$32,165.00 each)	\$64,330.00
*Freight	\$6,500.00
*Start-Up & Warranty Certification	\$2,000.00
*Pricing does not include state and/or local taxes	
*Freight is subject to change	
Grand Total:	\$72,830.00

If you have any further questions and/or comments, then please contact us for assistance.
Thank you for the opportunity to become your Wastewater Treatment partner

Prepared By:
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