Floating Brush Aerator Assembly

Value Added Mechanical Engineering & Design
Heavy-Duty Pipe Frame
- Schedule 40 pipe frame welded together for strength and durability

Shafts
- CNC machined and piloted, bolt-in stub shaft assemblies
- Shafts are fabricated from 316 stainless steel with less than .001 tolerance and the ability for replacement in the field
- Alignment of the shafts create a smooth operation and a high-speed direct drive

Direct-Drive
- Enclosed, high-speed coupled direct-drive
- Contained in sealed enclosure with an internal fan for cooling and a hinged cover providing easy access

Oil Change Kit
- With an easy to operate, battery powered oil change kit, change oil per Manufacturer’s recommendation

Grease-Lubricated Bearings
- Corrosion resistant, grease lubricated bearings that are lubricated automatically with a spring, loaded lube site
- Recommended to refill grease approximately every month

Rotor Assembly
- Heavy walled, schedule 40 pipe is twice as thick as competition
- Pipe will not deflect or warp due to the heat created by welding the brushes to the rotor pipe on both sides for added durability and strength

Splash Shields
- Will prevent splash and/or debris to accumulate around drive enclosure and on-drive end bearing
- Double-sealed protection will not allow debris to penetrate drive and non-drive end bearing enclosure
- Double-seal also uses a flinger to ensure water and debris will not “wick” down and the drive and non-drive shafts

Brush Assembly
- Consistent welds created using robotic welder
- Brush is welded to both sides of the rotor plate

Flotation Tanks
- Fabricated from 304L stainless steel construction with 16 gauge thickness
- Pressure tested and filled with closed-cell foam

Flotation Band Attachment
- Rubber insulator between band and float used to prevent electrolysis
- Constructed from 304L stainless steel with 7 gauge thickness and extra support gussets

Testing
- Consistent process using assembly line production with quality control and assurance procedures
- Includes research & development on different aerator sizes and custom retro-fit designs
- Testing occurs at the House Industries, Inc testing facility with an on-site test pool for oxygen transfer and mixing tests