



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

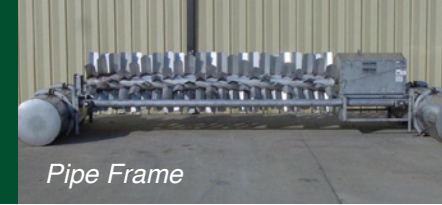
- With an easy to operate, battery powered oil change kit, change oil per Manufacturer's recommendation

Grease-Lubricated Bearings

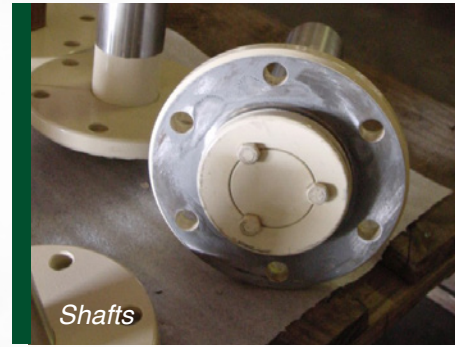
- Corrosion resistant, grease lubricated bearings that are lubricated automatically with a spring, loaded lube site
- Recommended to refill grease approximately every month

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



Pipe Frame



Shafts



Grease-Lubricated Bearings



Splash Shields



Testing

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 v House Industries, Inc testing facility with an on-site test pool for oxygen transfer and mixing tests