



**EQ BASIN**

# EQ BASIN NR'G Mİ\$ER SYSTEM

## Advantages of Airoflo's Rotors In EQ Basins



- \* Keep a full basin mixed and aerobic; as the water level falls, the mixing rate (HP/Mil Gal) will increase.
- \* Provide adequate O<sub>2</sub> to prevent odor & maintain aerobic conditions throughout the basin.
- \* The unit will operate effectively at any water level greater than or equal to 3.5 feet or as low as 3 feet with the aid of a VFD.

- \* At any water level in the basin, most of the suspended solids will remain in suspension and will be removed in the subsequent treatment processes. This will eliminate or greatly reduce the need for costly sludge removal from the basin at a later date.

## NR'G Mİ\$ER Controls for EQ Basins:

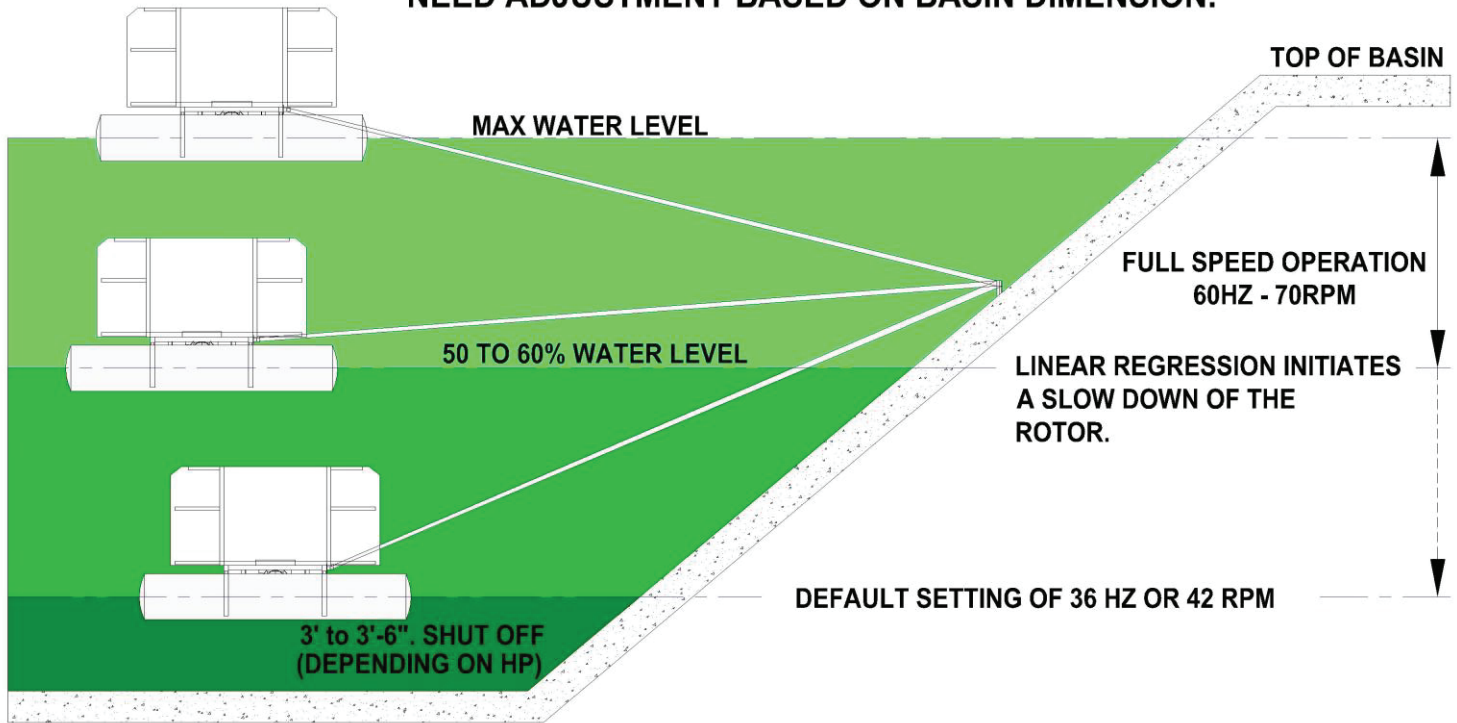
- \* PLC based controls automate operation and allow on-site adjustment.
- \* Massive horizontal flows with VFD's provide continual mixing down to 3 foot water level.
- \* Available Control Options reduce rotor speed based on extreme wind velocity and/or cold temperatures.



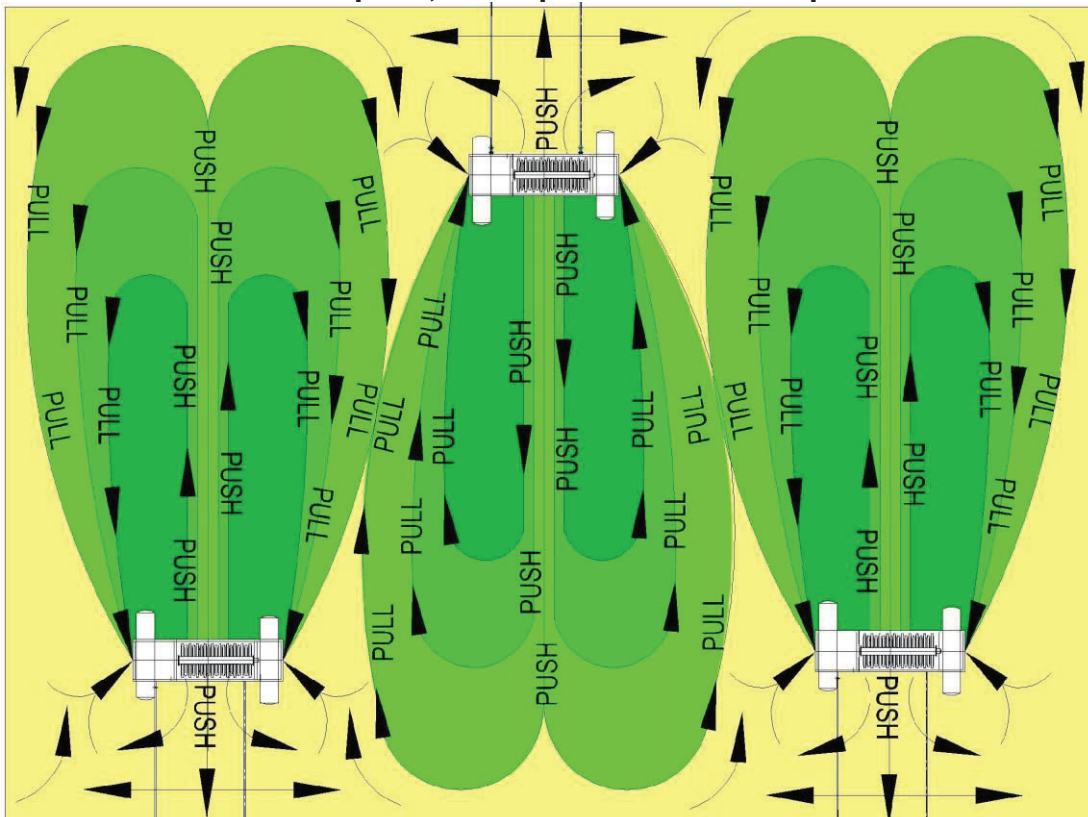
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# NR'G MI\$ER EQ BASIN SYSTEM

DEFAULT SETTING FOR GENERAL USE, MAY NEED ADJUSTMENT BASED ON BASIN DIMENSION.



PLC based NR'G MI\$ER CONTROLS with VFD's and a submersible pressure transducer control the rotor speed, to keep most solids suspended and reduce energy usage.



- TOP VIEW ILLUSTRATION OF POTENTIAL AERATOR PLACEMENT IN ORDER TO COMPLETELY MIX ENTIRE BASIN.
- ACTIVE MIXING ZONES HAVE BEEN VERIFIED BY TESTING TO REACH AREAS OF 250FT X 300FT - (TESTING COMPLETED ON 15HP FLOATING BRUSH ROTOR).
- THE PUSH/PULL OF THE HORIZONTAL FLOW "SWEEPS" THE BOTTOM OF THE BASIN AT LOWER WATER LEVELS.
- HIGH SPEED FLOATING AERATORS ARE LESS EFFICIENT MIXERS AND WILL NOT FUNCTION WELL AT THE 3½ FT TO 3FT WATER LEVEL.

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