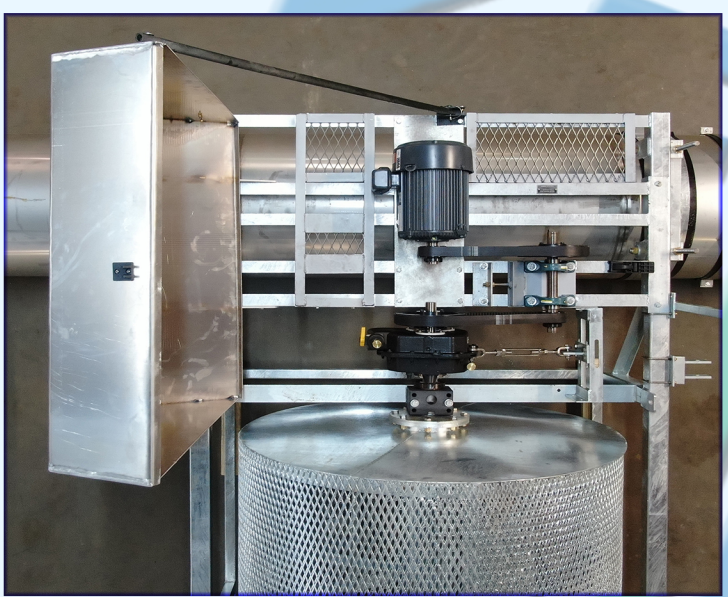
BIOFLO

BIOFLO AMMONIA POLISHING SYSTEM

Advantages of Airoflo's Bioflo Units

* Ideal for upgrading lagoon systems to meet stringent ammonia-N limits in summer.
* Simple design using attached growth media to promote nitrification using a floating rotating biological cage.
* Rotating cage gives the attached growth biomass the chance to contact air and substrate ... promoting excellent nitrification.

* BIOFLO unit enhances biomass sloughing by rubbing of plastic media as the unit rotates … thus maintaining a healthy population of nitrifiers.
* BIOFLO unit can achieve excellent nitrification in lagoon systems … thereby eliminating the need to spend huge sums of money replacing lagoons with oxidation ditches or SBRs.



* BIOFLO nitrification system is a low-maintenance, mechanically simple design to achieve stringent limits on ammonia-N for lagoon systems.

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Ideal Situations for Use of Airoflo's Bioflo Units

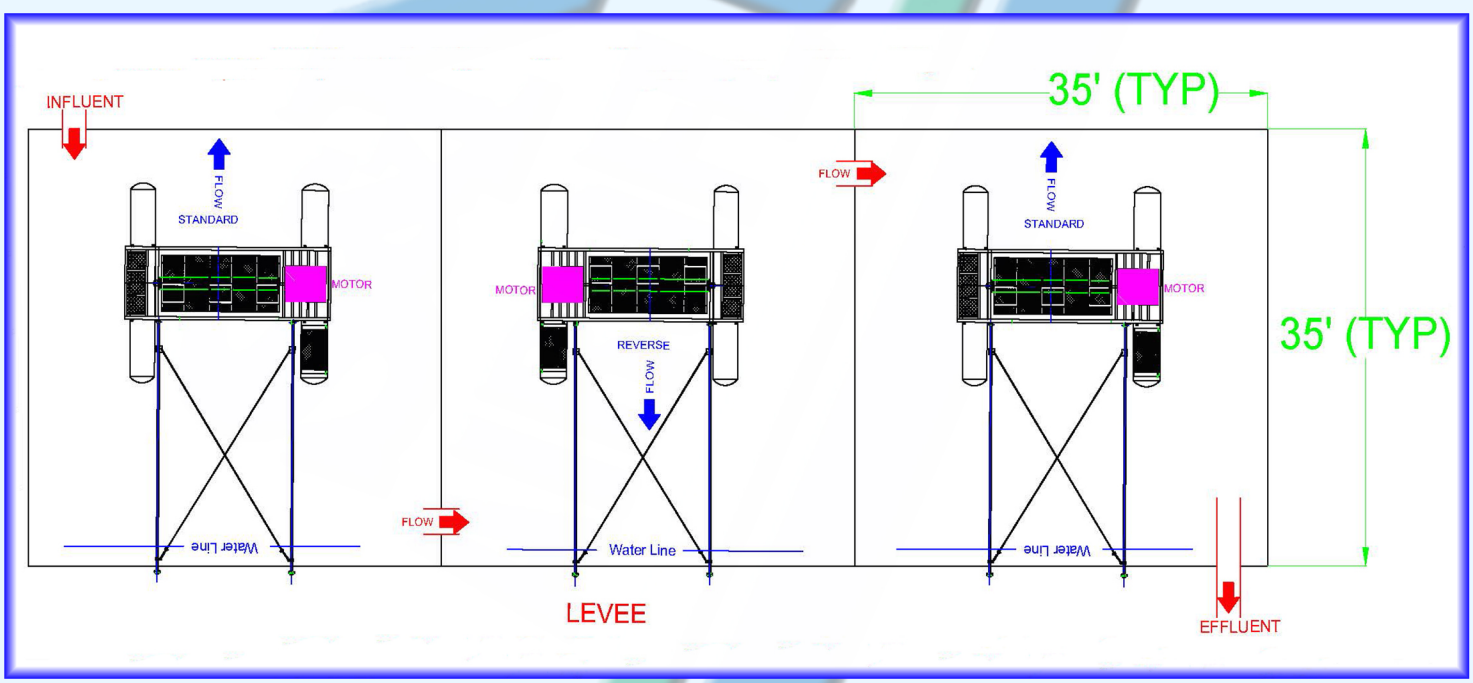
* Lagoon systems with low effluent ammonia-N limits in the summer where the design flow rate (average daily) is less than or equal to 2.0 mgd.

* Lagoon systems where S&N Airoflo surface aeration already exists or can be added to enhance CBOD removal during summer prior to entering the nitrification zone (where BIOFLO units will be located)

* Single-cell lagoon systems where baffles can be added to create 3-cell lagoon configuration prior to entering the nitrification zone (where the BIOFLO units will be located); baffles reduce short-circuiting and enhance CBOD removal in the lagoon system prior to the nitrification zone.

* Lagoon systems where the effluent CBOD5 and ammonia-N concentrations are currently about 15 to 45 mg/L and 5 to 15 mg/L, respectively. Excellent nitrification can be achieved in warm weather when effluent CBOD5/ammonia-N ratio currently is 3 or less.

* S&N's Bioflo utilizes VARi-PAC MBBR650 media.



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