



EQUANOX SYSTEMS®

EquaJet®

The EquaJet® is a unique system based on utilizing jet aeration for mixing and recycle flow transfer, between tanks, using the same motive recirculation pump.

The high recirculation rate of the EquaJet® system provides efficient nitrate and/or anoxic recycle rates to accomplish biological nutrient removal (and enhanced nutrient removal) in a multi-stage system. The EquaJet® design approach improves biological phosphorus and nitrogen removal while reducing energy consumption and capital costs.

The EquaJet® is being used in both municipal and industrial process applications. In many cases, the EquaJet® is applied to the EquaReact® system to provide mixing, aeration and transfer of recycle flow between tanks.

Realized Value:

- Capital cost savings due to reduced pumping and mixing equipment
- Improve energy efficiency
- Process control simplicity
- Better treatment performance with maximized mixed liquor recycle

Operational Value of the EquaJet® Process:

Typically, a pumping system is designed to provide a design nitrate recycle flow rate (Q) between 2Q (200%) and 4Q (400%) of the Average Daily Flow (ADF). The EquaJet® system can provide a significantly higher nitrate recycle flow rate - up to 12Q (1200%) or more of the ADF with no additional equipment or power needed.



EquaJet® is ideal for:

- Municipal and Industrial wastewater flow
- Combined municipal and industrial flows
- New treatment facilities
- Plant expansions
- Plant BNR or ENR upgrade (Bio P and TN reduction)
- Retrofit into existing facilities



Summary of Benefits:

- Minimize pumping equipment
- Reduce capital cost
- Improve biological treatment performance
- High efficiency biological TN and P removal
- Reduce energy consumption

Note:

See Parkson's brochures for more details on EquaReact® (biological process) and VariOx™ (jet aeration and mixing system).



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