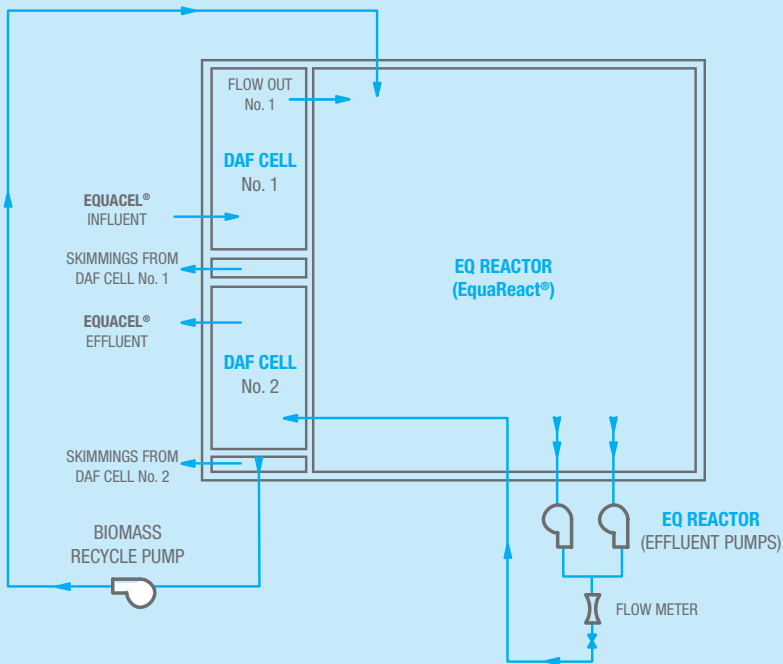




EQUACEL®



EQUANOX SYSTEMS®

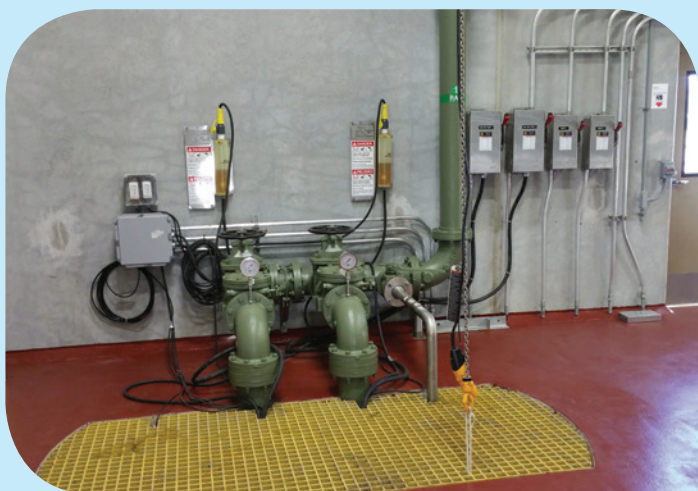
EquaCel®

Pretreatment and Equalization Process

EquaCel® is a unique process that combines two technologies, the Parkson EquaReact® biological system and dissolved air flotation (DAF), to achieve not only flow equalization, but BOD and nitrogen removal in one industrial pre-treatment system for industrial wastewater that contains significant levels of soluble pollutants (i.e. food processing, etc.). The EquaCel® system provides an efficient way to produce a high quality effluent while reducing footprint, energy consumption and overall capital cost.

Realized Value:

- Reduce pumping/mixing equipment
- Reduce system footprint with common wall construction
- Consistent BOD and Nitrogen removal
- Maximize treatment capability
- Simple process controls
- Improve energy efficiency
- Save capital cost



EquaCel is an excellent industrial pre-treatment system for reducing:

- Soluble BOD
- Total BOD
- TKN
- Ammonia-N
- Phosphorus

Operational Value of the EquaCel System:

The EquaCel process provides industrial owners and operators with a compact, efficient single-stage or two-stage high rate activated sludge treatment system.

The system utilizes a primary DAF Cell for removal of FOGs and initial TSS. The DAF is followed by an Equalization Reactor, as part of the EquaReact® process, to combine hydraulic flow equalization and biological treatment in one reactor tank for removal of Soluble BOD, Ammonia-N and TKN. Treated wastewater, from the Equalization Reactor, is then pumped at a constant flow rate into a secondary DAF Cell, or clarifier, for biosolids clarification and recycle before discharging final effluent to the POTW.

Tanks can be poured-in-place or pre-cast concrete, pre-fabricated steel or stainless in which one or more DAF Cells are combined with EquaReact® in one common structure. Incorporating Parkson's EquaJet® mixing, aeration and transfer system can bring added benefits by reducing the system footprint and offering an efficient biomass recycle method between tanks.

In summary, the EquaCel system produces a high quality effluent while reducing footprint, energy consumption, and overall capital cost.



Note:

See Parkson's brochures for more details on EquaReact® (biological process) and EquaJet® (mixing, aeration, and transfer system).



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