SPEECE CONE & PCI UNIT

CONCENTRATED OXYGEN TECHNOLOGY

The system operates by pumping a side stream, or slipstream, of mixed liquor through a conical shaped oxygen transfer reactor. The small slipstream is pressurized and pumped back into the main process through an inverted cone called a Speece Cone. Oxygen generated by the PCI unit is metered into the cone and forms an intense bubble swarm which has an exceptionally large gas/water interface resulting in an oxygen transfer efficiency of 90-95%. Operating at pressures up to 100 psig, the slipstream can contain as much 300 mg/l of oxygen and support uptake rates exceeding 200 mg/l/hr. The increased delivery and transfer rate essentially double or triple treatment capacity essential to high-rate MBR operation.

KEY FEATURES

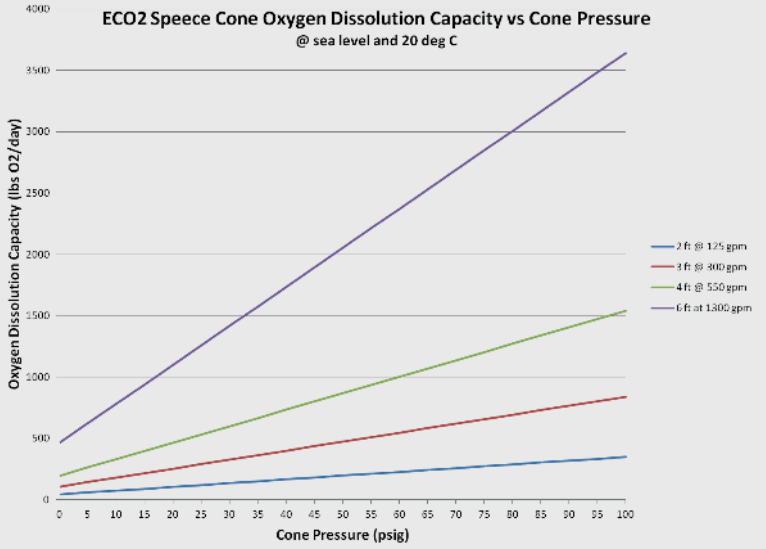
- Simple design (wide spot in pipe)
- Non-clogging
- Side-stream saturation

MAIN ADVANTAGES

- Wet install
- Flat efficiency curve over range of conditions
- Rapid response (no lag)

FOCUS MARKETS & APPLICATIONS

- Shallow tanks
- High solids (high rate)
- Retrofit / Upgrade / Expansion



Parameter	Value
Type	Concentrated Oxygen
Material	304 SS
Nominal OTE	>90%
Expected Service Life	20+ Years
Diameter Range	2′ – 8′
Unit Height	6′ – 8′
Max. Delivery Capacity	>3,500 lb/day

OVIVO® MBR

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mbrCENTRAL
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Leading MBR innovation to achieve energy neutrality, complete nutrient recovery and reuse of treated effluent, all at a lower total cost of ownership.

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