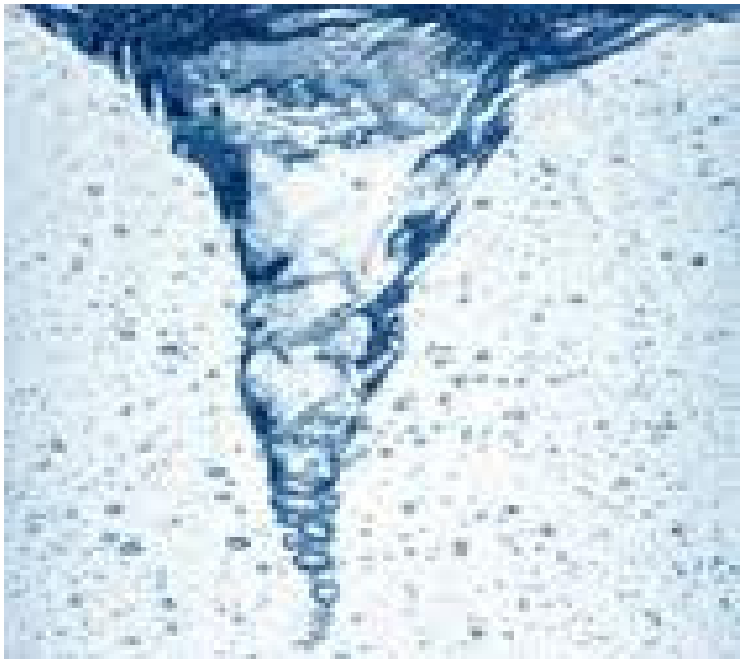

BioReco/300 – simplicity made efficient

BioReco Vortex

water aeration.

Simplicity made Efficient

Inspired by Viktor Schauberger (1885-1958), the award winning Danish company LJM A/S succeeded in developing a truly aeration wonder, the now patented BioReco aerator.

This innovation which, in never ending spiral movements, energizes water molecules with oxygen and makes them flow horizontally for an extended period of time, in one motion.

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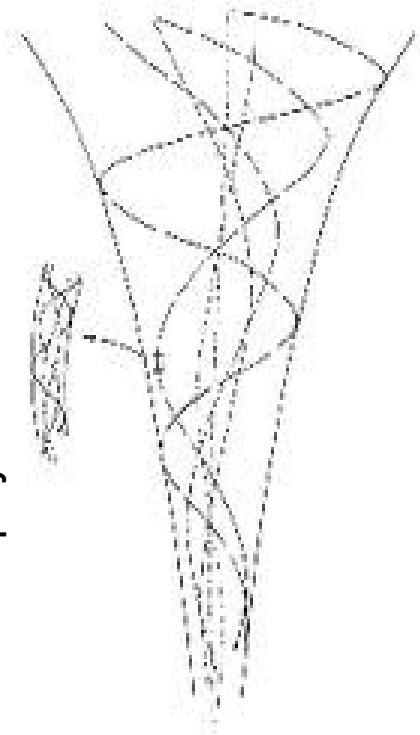
physics transformed



BioReco makes oxygen loaded micro bubbles which, at a low pace, circulate horizontally and downward for an extended period of time. The oxygen loaded micro bubbles restore waters natural movements indifferent of layers

BioReco/300 – simplicity made efficient

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Biological restoration of exhausted and depleted waters.

Objects
Ponds, Lakes, Reservoirs, Lagoons, Estuaries, Streams, Harbors, Ports, Containers, Fish Farms and…

Capacity
<2800cubic gal / 10,000m3

Bigger volumes, deploy 2 or more BioReco/300 aerator

Power 0.18kW/h

BioReco/300 – simplicity made efficient

BioReco/300 aerator

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Intensive aquaculture made successful with BioReco/300

Fish at all stages need sufficient oxygen for growing. Sufficient oxygen provides for a healthy feed conversion, efficient biomass break down and keeping the parasite pressure at a minimum.

Oxygen is essential for eggs and fry.

The BioReco/300 infuses water molecules with oxygen, easily obtainable through fish gels.

BioReco/300 – simplicity made efficient

- Industrial deployment

Truck Wash Water being pretreated for reuse in a "close loop" system. BioReco/300 removes organic impurities, obnoxious smell and minimizes sludge build up.

Polishing lagoon. Diary facility wash water being polished prior to discharge.

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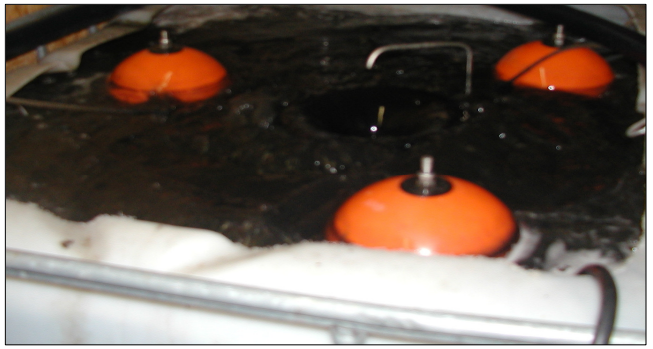
An environmental effective respond to Marine Oil Spill

Easy handling and efficient deployment, "simple made efficient" provides BioReco/300 with outstanding "first responder" qualities.

BioReco/300 comes standard equipped with device for doing bioremediation and Biodegradation simultaneously or separately.



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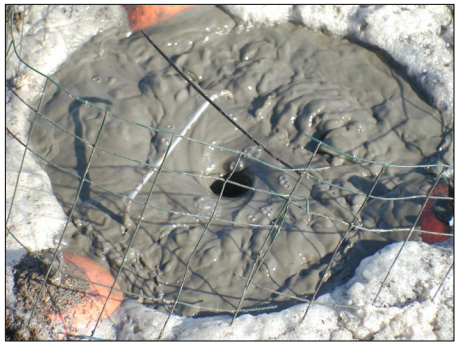

BioReco/300 deployed to slurry-and liquid manure collectors.

BioReco/300 preserves manure as an active, economical full of life habitat.

BioReco/300 – simplicity made efficient

1) BioReco/300 deployed
2) BioReco/300 fenced to avoid coarse solids
3) pH
4) Active and nutrient rich manure

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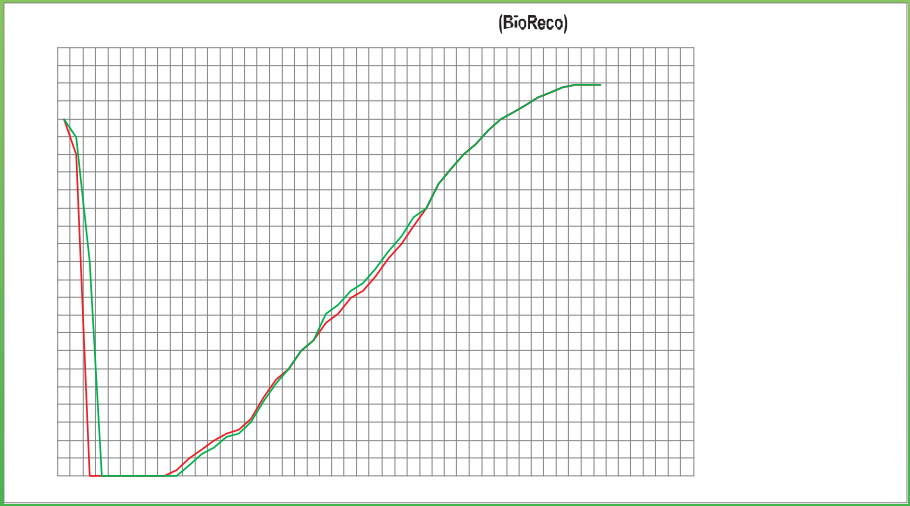
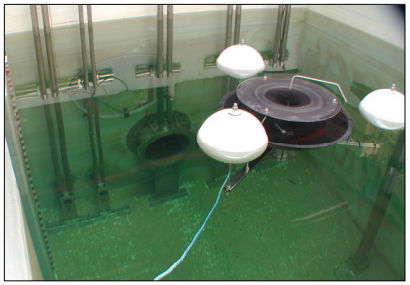
Test

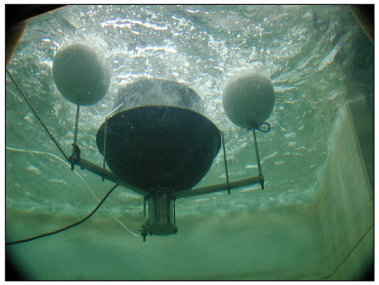
Place: Ringkobing WWTP Date: 4-05-1997
Tank vol.: 337 m3 (water depth 375 cm)
Machine: BioReco (3kW motor – 4 poled)
Objective: The effect of BioReco´s supply of oxygen in water with 0% oxygen content.

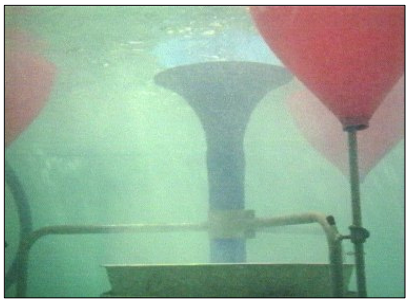


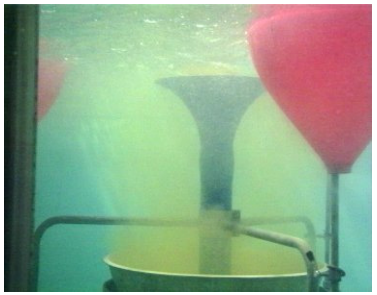
Procedure:
Start: ***26kg Sodium sulphite + 115g Cobalt chloride added to the tank***
0 to 3 hours: Oxygen level decreases to 0%
3rd hour BioReco started.
2/3 to 8/9 hours: The rest of the oxygen-removing chemicals are consumed.
Stop: ***From 8/9 hours to 35 hours the oxygen level increases to above the oxygen level before the start of the test. This level remains***

Sewage Treatment Plants tense not to grow with the flow, This creates both technical and environmental challenges. BioReco/300 is an excellent choice whenever Sewage Treatment Plants need extra purification and polishing capacity. **As a bonus**, BioReco reduces offensive odor and obnoxious smell because of an effective degradation of potential air born aromatic organics.









BioReco/300 –
simplicity made efficient

This innovation, which, in never ending spiral movements, energizes water molecules with oxygen and makes them flow horizontally and downward for an extended period of time, in one motion.

This motion works equally efficient in containers and larger scale

% Oxygen saturation	time
0	1 min.
42	2 min.
66	3 min.
80	4 min.
93	5 min.
96	6 min.
98	7 min.
99	8 min.
>99	10 min.

Efficiency analysis conducted by the Pharmaceutical High school, Uni Copenhagen, Dept. Environmental Chemistry

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Watch BioReco/300 on YouTube breaking up ice sheet

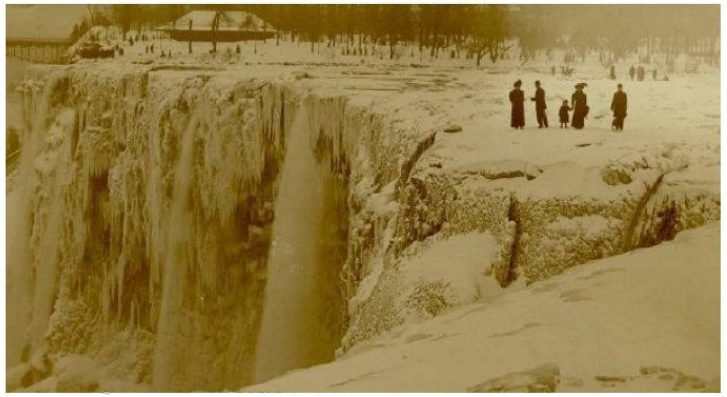
http://www.youtube.com/watch?v=uhChIKuv6oY

BioReco/300 – simplicity made efficient

BioReco/ 300 performs equally well in tropical as in frosty climates.

During frosty temperatures the ongoing movements and circulation minimize ice build up.

If over iced, BioReco temporarily submerge.



THIS PICTURE WAS TAKEN
WHEN NIAGARA FALLS WAS COMPLETELY FROZEN IN THE YEAR 1911.
A VERY RARE PHOTO.
I've read of this but never saw the photo before. Makes you wonder just HOW COLD and HOW LONG it was that cold!!

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BioReco/300 features in brief

Easy to handle, transport and deploy
Very low power consumption
Low noise level
Efficient in raising oxygen level
Improve water transparency
Compost mud
Improve living and growth conditions for fish and plants and much, much more.

BioReco/300 comes well equipped with 12 month warranty

Power consonsumption 0/18kW/h

BioReco/300 – simplicity made efficient

Technical data

- Motor specifications acc. to. EN60034
- Submerged 230V motor and power-controlled motor protection switch.
- Motor safety: IP 58 after IEC 34-5
- Surrounding temp. max. 110F/40C
- All outer metal parts in stainless, acid-proof steel.
- Insulation class: F
- 20-meter cable or as required
- 2 mechanical shaft seals and oil chamber
- Leakage control
- Programmable digital timer
- Comes EU and CSA approved

Operating dimensions:

Operational Weight:	35lbs
Deployment height	2ft
Deployment diameter	3ft

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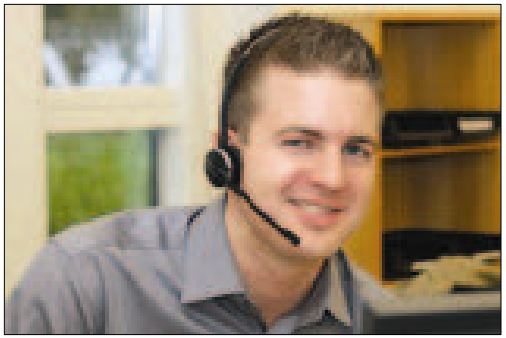

Call 1-905-357-0800

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For more information

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