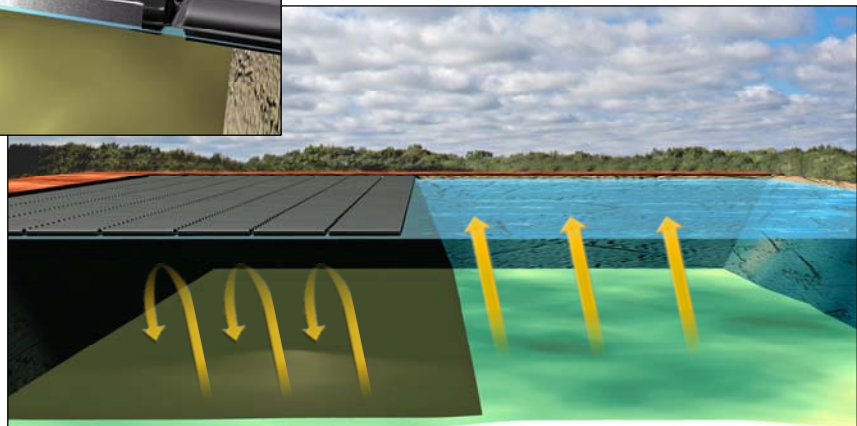
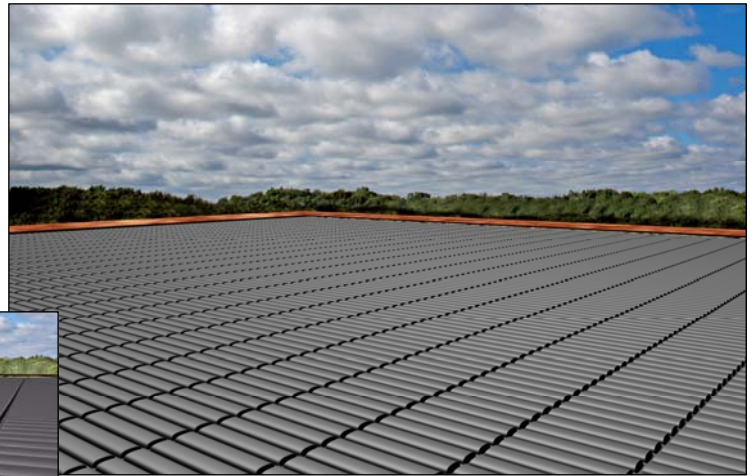
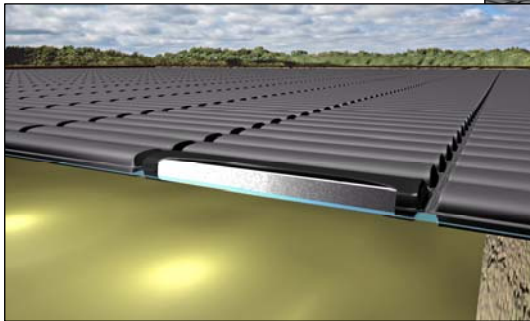


# EDI BioInsulate™ System

## New Modular Floating Cover System for Heat Retention

- Maintain reactor temperature
- Efficient insulation with minimum R-5 per inch
- Insulating properties engineered for service
- Complete surface area coverage for maximum efficiency
- Individual sections for maintenance and access
- Not affected by surface debris, rain or ice
- Accommodates varying water level conditions
- Provides access to the entire basin structure
- Stable in high wind conditions
- Long term service life with UV stabilized, reinforced polypropylene material
- Minimum shipment volume with high nesting efficiency



[www.wastewater.com](http://www.wastewater.com)

Environmental Dynamics Inc.

**32**  
YEARS  
1975-2007

# PRODUCT SPECIFICATION SHEET

EDI BioInsulate system is an add-on technology that is effective in maintaining the performance of biological treatment processes in cold climates. BioInsulate can significantly control decreases in reactor temperature due to evaporation, convection, and radiant heat losses.

EDI BioInsulate provides complete surface area coverage for maximum efficiency and performance. The system is fully maintainable. Components are replaceable including the insulated panels and perimeter wear / anchoring skirt.

Each individual panel is removable for access to submerged mechanical equipment including diffusers, pumps, valving, etc. Sufficient flotation is

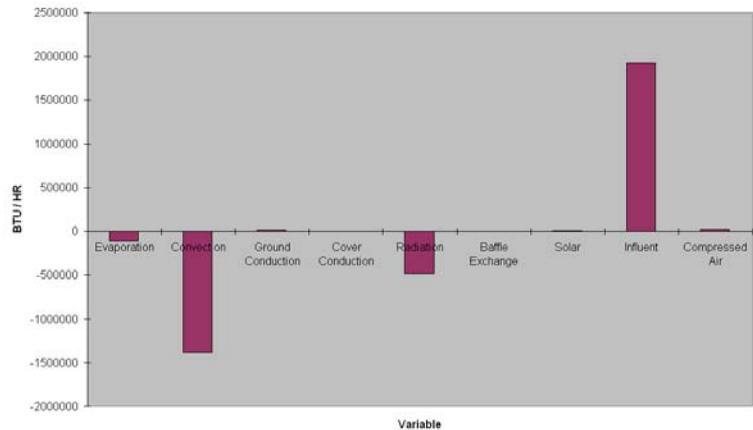
provided to support foot traffic and a portable lift-out assembly is available to assist in maintaining diffuser assemblies.

The BioInsulate system is engineered for ease of installation. Panels are simply floated into position then a simple fastening system is used to connect adjacent sections.

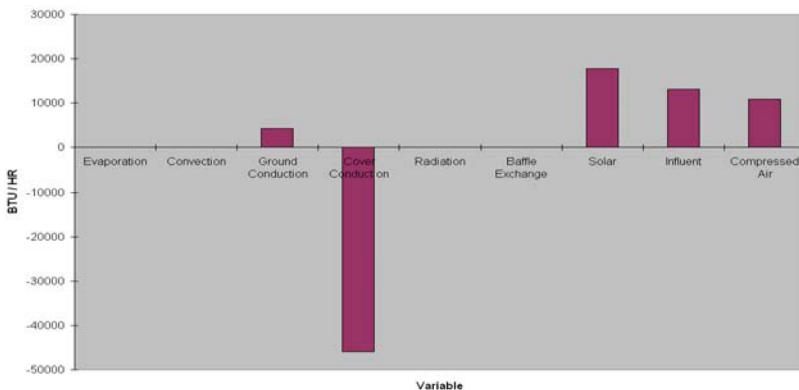
### Sample Application:

- *Uncovered reactor temperature approaches freezing with estimated temperature loss approaching  $\Delta 18^{\circ}\text{F}$ .*
- *Covered reactor (4" thickness) maintains temperature to near influent temperature.*

Thermal Balance  
Uncovered Reactor



Thermal Balance  
Covered Reactor



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