

Webitat™ by ENTEX Technologies

Engineering
a Clean Water
Environment

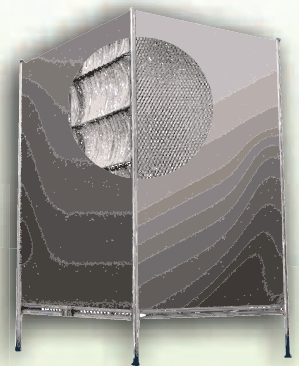
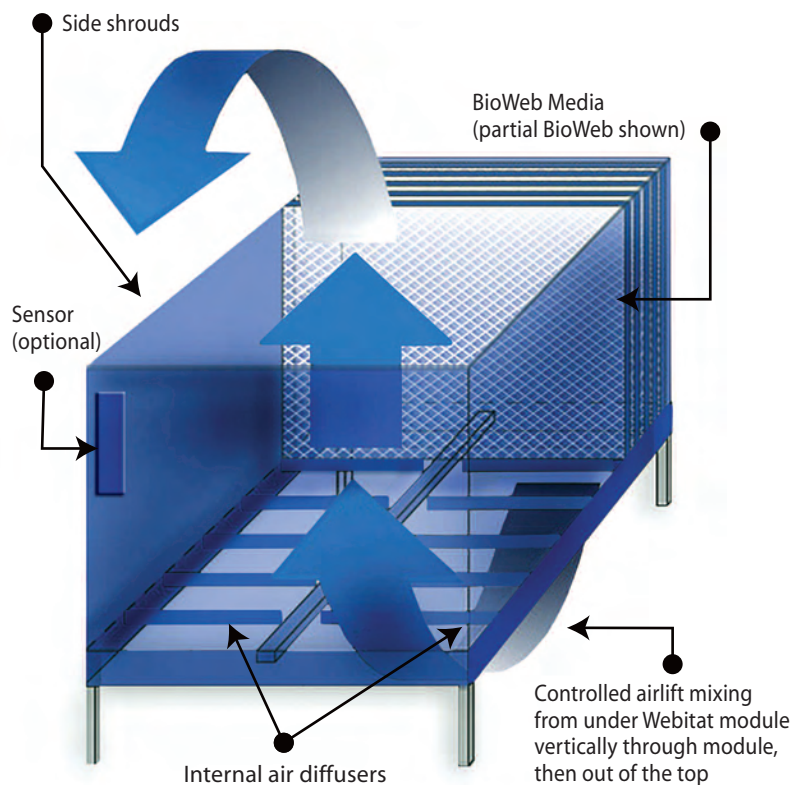
Webitat IFAS system

Webitat is the second generation BioWeb IFAS system engineered to actively manage the attached biomass environment.

Shrouding the vertical sides of the module and providing dedicated air supply underneath substantially enhances mixing and ensures a thin-film biomass.

The enclosed Webitat module with its controlled biofilm thickness operates as a high-rate biological reactor. Webitat also controls nuisance organisms.

Additionally, regulating the aeration of an individual Webitat module or a group of modules can optimize denitrification performance.



Each module is equipped with integral aeration to control dissolved oxygen and mixing within the unit. This is independent of overall basin aeration.

Webitat is designed for ease of installation.

The Webitat process:

- Suitable for lagoons, SBRs and conventional aeration basins
- Optimizes kinetic rates within modules by controlling biomass thickness
- Controls nuisance organisms such as redworms
- Enhances denitrification within a nitrification zone to recover alkalinity and oxygen
- Provides multiple high-rate bioreactor cells within aeration basins to optimize kinetics of the IFAS process

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Webitat for Lagoons by ENTEX Technologies

The Webitat process for lagoons

Adds fixed biomass to the lagoon to increase biological treatment

Creates enhanced mixing zones in targeted locations

Adds diffused air to increase oxygen transfer

Provides multiple high-rate bioreactor cells within the lagoon

Biomass shears off media, seeding the lagoon with biomass

Flat plate distributes weight on the lagoon floor, protecting liners

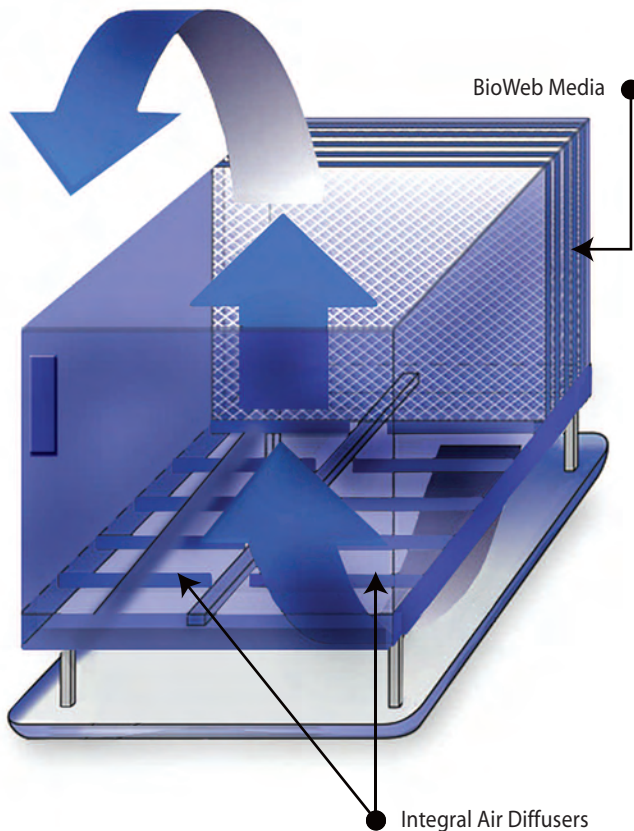
Webitat cost effective lagoon upgrades

The level of wastewater treatment achievable in lagoons is often limited by mixing, aeration and biomass concentration.

Webitat for lagoons directly addresses all three of these limitations.

By placing Webitat modules within a lagoon, the high rate mixing cells add aeration and fixed biomass to improve BOD removal and nitrification.

Each Webitat module is equipped with individual aeration and a flat steel plate with rounded edges to stabilize the unit on the floor of the lagoon without damaging the lagoon lining.



How does Webitat work with Lagoons?

By placing Webitat modules within a lagoon, the high rate cells enhance mixing, while adding aeration and fixed biomass to an otherwise limited treatment environment.

Advanced Systems. Proven Solutions.

ENTEX engineers have been involved in hundreds of plant installations. We'd like to be involved in yours.