

BIOKUBE 

HERCULES

Modular Treatment Plant for Quick and Easy Installations



Conceptual Water Treatment Plant (500 - 3.000 m³/day)



BIOKUBE SYSTEM - HERCULES

Quick and Easy Installation with minimum hassle

BioKube Hercules is our newly designed modular wastewater treatment plant which is aimed at larger capacities. It is often installed above ground. The advantage of the system is that it can be installed in any location with a very short installation and start up time.

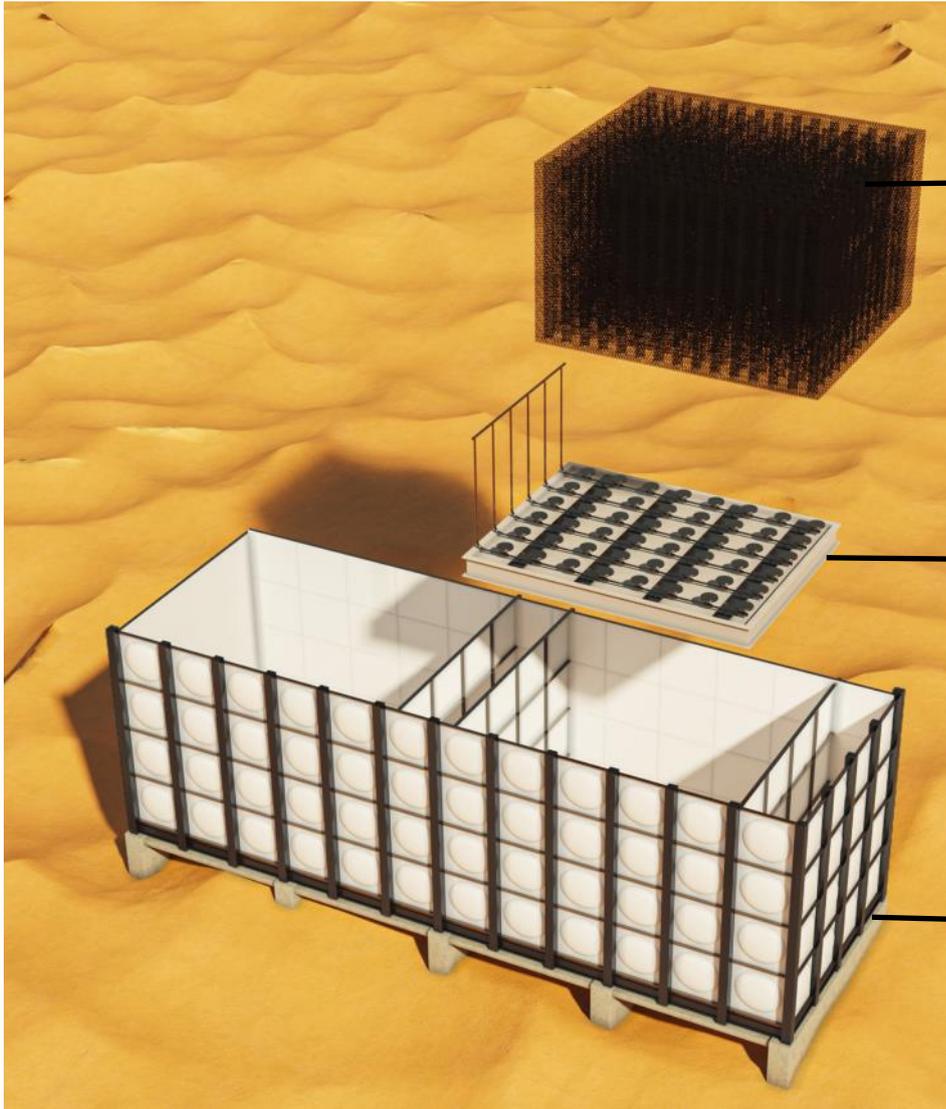
A customizable option enables the customer to either use BioKube's modular panels to construct a structure in any desired location or re-use existing concrete tanks. The tough construction materials and the reinforced structure of the plant ensure smooth operation in any harsh and rigid weather conditions.

BioKube ensures requirement compliance

BioKube technology has been tried and tested, assuring the proper treatment of wastewater to the highest standards.

Wastewater treated in a BioKube unit is clear and contains very few particles. It is odorless and the treated water can be safely reused.

Thus by installing a treatment plant from BioKube, the strictest environmental regulations can be achieved while focusing on total circular economy by reusing the treated water and sludge can be converted to energy or fertilizer.



Bacteria on the patented BioBlocks perform degradation of organic load in the incoming waste-water.

Plug & Play aeration racks, specially designed for quick installation and serviceability.

Modular Tanks built with panels can be constructed quickly.

An exploded view of the BioKube Hercules with the various functioning parts

Comparison between BioKube Hercules vs Other Competition

	BioKube Hercules	Activated Sludge	MBR System
Resistent to Load- and Seasonal Variations	✓	✗	✗
Handle High Temperature Fluctuations	✓	✗	✗
No need for Regular Human Operational	✓	✗	✗
Quick Biological Startup	✓	✗	✗
Compact and Small Footprint	✓	✗	✓
No Risk of Bio-Media Loss	✓	✗	✗
No Usage of Chemicals in Cleaning Process	✓	✗	✗



Modular Panel Tanks

BioKube Hercules can be quickly installed at a desired location using panels that can be assembled in a modular format.

Customized dimensions can be created according to the customer's requirements. The ease of installation and assembly ensures lower start-up and labor costs.

The BioKube Hercules can be setup on location with additional reinforced beams to support larger volumes ranging from a large worker's camp to a village or a small city up to 20.000 PE.



Reinforced fiber plastic tank

Example

Application:	Oilfield camp, housing compound or small city
Tank Type:	Modular Panels
Capacity:	500-2000 m ³ /day
Outlet Reuse:	Drilling Fluid irrigation og machine wash 



Concrete Tanks

BioKube Hercules can also be installed in a prefabricated concrete tank or retrofitted into an existing concrete tank.

The customer can build a concrete tank based on their requirements and BioKube can install the Hercules units into the concrete tank.

This format enables to further save money and reduce construction time, thereby also being able to achieve construction deadlines faster.



Newly constructed concrete tank at golf resort in Zimbabwe.

Example

Application:	Beach Resort, hotel or small city
Tank Type:	Concrete Tank
Capacity:	400–3.000 m ³ /day
Outlet Reuse:	Toilet water or irrigation





Retro Fit

The adaptive characteristics of the BioKube Hercules permits it to be installed in previously constructed tanks.

Without any additional construction, a pre used tank can be reused by upgrading it with Biokube Hercules moduels. This approach enables the customer to save money, time and also reuse older tanks helping the customer to keep the overall costs down,



Reinforced fiber plastic tank

Example

Application:	City or large village
Tank Type:	Pre-installed
Capacity:	3.000 m ³ /day = 20.000 PE
Outlet Reuse:	Irrigation



Treated wastewater is a valuable asset and can be reused. BioKube has more than 15 years experience in designing treatment systems for water reuse. BioKube can design systems for the following purposes:



1 **Irrigation**

Irrigation is one of the most typical applications for treated wastewater. Typically, lawns and flower beds are watered with purified wastewater with large cost savings potentials on hotels' freshwater bills.



2 **Floor & Car Washing**

Hotels & Resorts have a constant need for water to clean and wash floors as well as outdoor terrasse areas. Furthermore, the task of keeping hotels' car fleet clean require large amounts of fresh water, which can easily be replaced with treated wastewater.



3 **Toilet Flushing**

Redistributing treated wastewater back to the toilets for flushing is an increasingly popular means of cutting costs on hotels' water bills. The treated flushing water is completely safe, clear and odorless.



4 **Cooling Towers**

For many hotels - especially in hot climates - cooling towers for air-conditioning form a major part of hotels' total water consumption. Reusing treated wastewater for this purpose is therefore an obvious and beneficiary choice. Our biological treatment plant coupled with MMF & BWRO will provide you respected savings.





About BioKube

BioKube is a Danish company which since 2005 has supplied treatment plants for processed and domestic wastewater both locally and internationally.

Today, more than 4,300 BioKube plants are installed in Denmark, and around 4,000 BioKube units are installed in 50 countries across the world.

Our headquarters and development center is located in Denmark, Our technology is covered by several international patents.



BioKube has installed over 8300 treatment plants in more than 50 different countries.

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