Floating Wastewater treatment 'LOO-STATION'

Autonomous treatment on any location!

In many European countries the treatment of wastewater on remote locations is an point of concern. Especially the treatment of wastewater from recreational crafts and small river cruisers is a point of concern.

We have therefore developed the autarkic Bever® Loo-station to treat wastewater from these vessels in a biological process and discharges the clean and disinfected water on the surrounding waters.

The whole system is designed and assembled in our own facilities, and is built in a vandalism free container. The required energy to run the system is generated by solar panels and allows a 24/7 h continuous operation. By means of a biological process the waste is converted to harmless substances. The effluent stream is filtered by an Ultra Filtration module to remove all suspended solids and potential harmful substances like bacteria, viruses, Helminth eggs. Designed for up to 5000 litres of wastewater per day the stations *contributes to reduced nitrogen and phosphorus emissions, increases the water safety and avoids the growth of algae*. Monitoring of the system takes place with a telemetry system and allows an unmanned operation of several stations in one network. Special attention is paid to make a user friendly and easy to operate system for the visitors.

Modular design

Apart from recreational purposes the system can also be applied in *flood prone or outer dike areas*, where the installation will float in time of floods. This eliminates the risk of spreading wastewater in the surrounding and prevents health risks.

Features:

- Easy discharge of domestic and kitchen water from river cruisers and recreational craft
- Biological treatment with filtration for harmless discharge in waterbody
- 24/7 operation without wall connections or additional infrastructure
- Several capacities available
- Designed for seasonal fluctuations

Afmitech Friesland BV
Sneekermeer 6
NL-8502 TP Joure

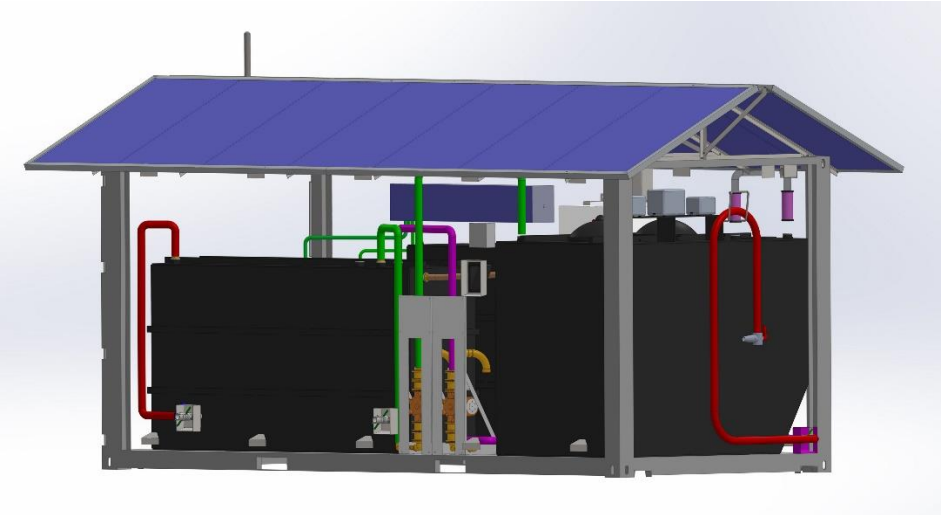
+31 (0) 513 - 54 10 22
www.afmitech.com
info@afmitech.com

Benefits:

- ✓ Improved service level for tourists
- ✓ Solves wastewater problem for owners of river cruisers
- ✓ Less algae growth due to reduced contents of nutrients and absence suspended solids in effluent water
- ✓ No disturbance on swim water quality due to additional filtering process
- ✓ Not vulnerable for flooding!

Applications:

- Cities along rivers
- Remote lakes and rivers with recreational activities
- Ports, marina's
- Flood prone areas



Treatment efficiency
(CE certification according to NEN-EN 12566-3)

COD	(Chemical Oxygen Demand)	: 90.2 %
BOD_5	(Biological Oxygen Demand)	: 96.2 %
$N\text{-}NH_4$	(Ammonium Nitrogen)	: 67,3 %
N-Kj	(Kjeldahl-Nitrogen)	: 72,3 %
Total SS		: 95,9 %

Afmitech Friesland BV
Sneekermeer 6
NL-8502 TP Joure

+31 (0) 513 - 54 10 22
www.afmitech.com
info@afmitech.com