



Modular Sewage Treatment Plant

For the treatment of excess black water
from septic sewage systems.

Is your existing septic sewage system overloaded at peak periods or all the time?

Has the expansion of your park or increased density of residents, placed additional stress on your septic system? Has this produced a septic system smell?

Envirostream Solutions Pty Ltd (Enviss) has an answer in its sewage water treatment system that processes sewage water which is in excess of the capacity of the existing septic system (called the "Bio Sentinel" System). The excess sewage water treated by the Bio Sentinel System meets environmental requirements permitting the reuse of the treated water for irrigation, other non-potable uses (not for drinking) or discharge into the environment.



Treatment Plant

The system is prefabricated and is connected to an existing or new septic tank system with minimal onsite works. The system is PLC controlled which:

- controls the process autonomously;
- controls the discharge of the water into an irrigation system or into the environment or a water way;
- monitors the performance of the system and automatically logs system parameters;
- can be accessed remotely using a data connection.

The system has a built in odour control system that eliminates all odours from the treatment process.

The system is housed in a robust plastic rectangular pod or a **secure purpose built structure**.

Treatment Process

The system is a batch cycle process.

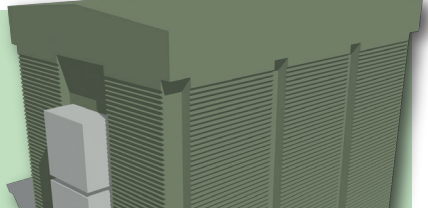
The system uses a high density medium to support the activity of aerobic bacteria that cleans the sewage water. This enables high treatment rates in a small footprint without the use of blower fans. The system includes media filtration that removes remaining solids, nutrients, heavy metals and odours from the water.

UV disinfection and chlorination kills residual harmful bacteria. The treated water is suitable for irrigation, other non-potable uses (not for drinking) and discharge into the environment.

BIO Sentinel System Specifications

The BIO Sentinel System comes in three standard sizes as described in the following table:

BIO Sentinel POD System Type	Volume treated kilolitres per day	Footprint sq metres	Power
APS 2	28	3	1.5 Kw
APS 4	42	6	2.0 Kw
APS 6	64	9	3.7 Kw



The BIO Sentinel System's treatment capacity is scalable by adding additional Pods to the process or a custom designed system can be supplied.

Benefits

The benefits of the system are as follows:

- the system is a cost effective treatment package for small to medium volumes of sewage and grey water;
- the output of the system is an alternative water source for irrigation;
- the system produces water suitable for the discharge into the environment.

About Enviss

Enviss is a water and environmental engineering company. Its fields of expertise include the filtration and treatment of polluted water, pollution control and water management.

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