

— eloy water

# biological wastewater treatment plant

oxyfix®

eloy



concrete — from  
0.6 to 60 m<sup>3</sup>/d  
polyester — from  
0.6 to 3.0 m<sup>3</sup>/d



warranty  
**15 years**



**biological  
process**  
submerged  
aerated fixed  
film

# Use

oxyfix® is the ideal solution to treat the wastewater of single dwellings which are not connected to a public sewerage system, and for small and medium-size local communities: campsites, hotels, subdivisions, golf courses, restaurants, etc.

This individual treatment solution is a safe bet: cost-effective, easy to maintain and effective.

## operation



### ① the **primary decanter**

The wastewater enters this compartment, where it is pre-treated: suspended elements are decanted into the lower section and are partially eliminated by anaerobic bacteria.

A layer consisting of cellulose and grease forms in the upper section of the tank. The aeration system evacuates any gases to limit unpleasant odours.

### ② the **biological reactor**

It is during this step that **oxybee®** acts as a medium for the bacteria.

Air is blown in by a compressor (placed in the laundry room/cellar) and fine bubble diffusers (placed in the oxyfix®). This intake of air enables the bacteria to multiply. oxybee® are unchangeable and cannot clog!

### ③ the **clarifier**

Last, the residual suspended material is separated from the biologically-treated wastewater.

## benefits

### ✓ **exceptional durability**

- **robust** eco-design
- the fibre-reinforced, high-performance concrete of the oxyfix® guarantees **light weight and durability**

### ✓ **very cost effective**

- **lowest** emptying frequency on the market
- **low** energy consumption
- **no** submerged electromechanical components

### ✓ **particularly discreet**

- completely buried: negligible visual impact
- odour free
- noise free

### ✓ **extremely reliable**

- no risk of failure
- handles big variations in hydraulic and organic loads
- no pump or control panel for individual models

### ✓ **easy to install and maintain**

- the square shape facilitates earthworks
- high outlet, minimal altimetric loss
- all internal components are easy to access and disassemble for maintenance

# the product range

the oxyfix® solution provides a **range of installation options** depending on the specificities of the project:

## oxyfix® prefabricated by eloy

### C-90 and P-90

- self-compacting fibre-reinforced concrete tank
- range from 4 to 350 PE (up to 52.5 m<sup>3</sup>/d)

#### benefits

- load category B125 or D400
- can be used near groundwater



### LG-90

- fibre glass reinforced polyester tank
- range from 4 to 20 PE (up to 3 m<sup>3</sup>/d)

#### benefit

- perfect for work sites where concrete can't be used



## oxyfix® kit for installation in local tanks

- range up to 400 PE (up to 60 m<sup>3</sup>/d)
- **local tank**: on-site civil engineering or tanks prefabricated locally

#### benefits

- optimisation of transport costs
- use of local workforce



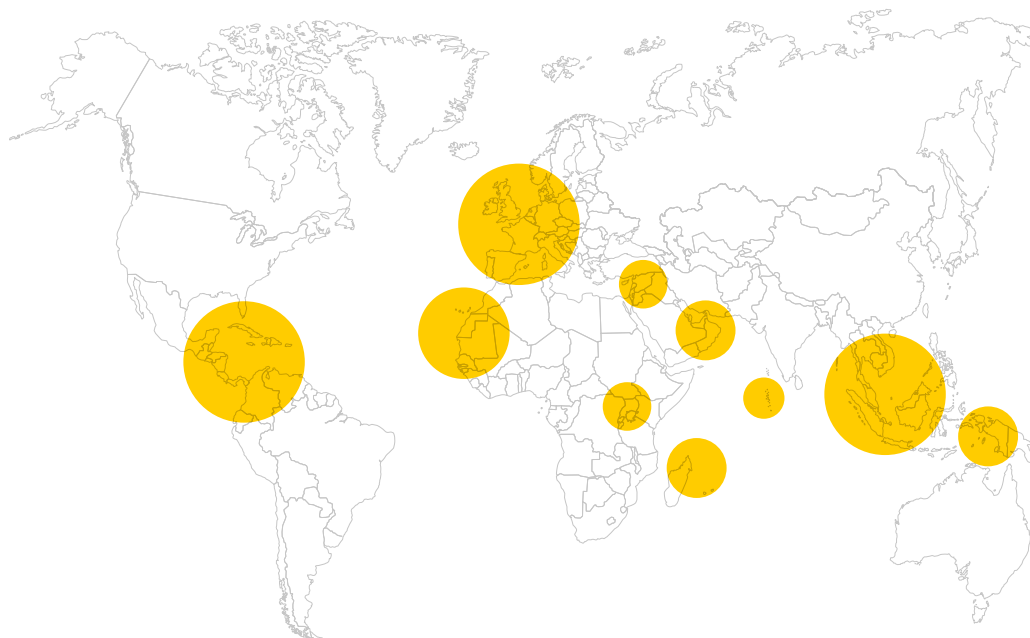
performance

| BOD <sub>5</sub>         | COD                       | TSS       |
|--------------------------|---------------------------|-----------|
| < 35 mgO <sub>2</sub> /L | < 125 mgO <sub>2</sub> /L | < 30 mg/L |

Contact us for additional information if more stringent environmental conditions must be met.



# become a new eloy partner



## who are we?

Specialized in water management from wastewater treatment to rainwater harvesting and pumping station, eloy water has been a leader in the industry both for end-users and medium-sized private or public communities.

more information is available at  
**[eloywater.com](http://eloywater.com)**

[info@eloywater.com](mailto:info@eloywater.com)



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