



Rev.5\_19.01.24

# **BIOLOGICAL TANK**

## **ECODEPUR<sup>®</sup> BIOFIX**

## BIOLOGICAL TANK ECODEPUR® BIOFIX

Domestic Sewage Treatment Plant, Biological Tank ECODEPUR® BIOFIX is a watertight compact system that allows domestic, or similar, wastewater treatment, and incorporates a primary settling tank, anaerobic digester and an aerobic trickling filter.

ECODEPUR® BIOFIX has CE marking, in accordance with the legal obligations that stems from the entry into force of the Regulation (UE) N.º 305/2011 of Construction Products, fulfilling all the requisites of the European Standard EN 12566-1.

This model is suitable for single family habitations, the mixed digestion systems - primary settling tank and biological anaerobic filtration allows good efficiency in order to Biochemical oxygen demand (BOD5) parameter, also featuring high levels of removal of TSS (Total Suspended Solids).

### ADVANTAGES

- CE MARKING EN 12566-1 for equipment with a nominal capacity equal to or greater than 2.000 L;
- High efficiency biological filter;
- High mechanical and corrosion resistance
- Easy to install and do maintenance;
- Fully watertight (due to the construction materials, there are no leaks in the walls, in contrast with the traditional concrete systems);
- Adequate ventilation prevents unpleasant odors;
- Without energy consumption.



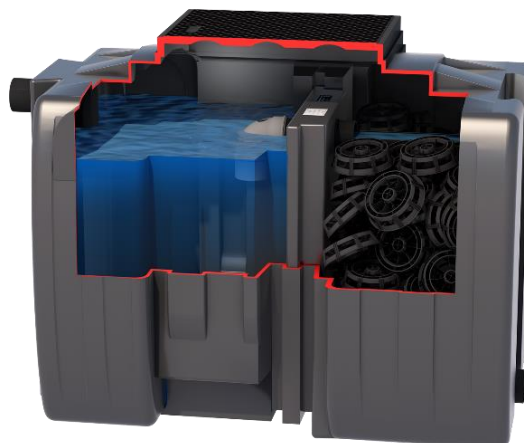
### APPLICATION

- Small population clusters up to 25 inhabitants;
- Habitations;
- Condominiums;
- Small tourist complexes;
- Temporary Camps;
- Schools;
- Restaurants and bars;
- Canteens;
- Athletic complexes;
- Camping.

#### RECOMMENDED

When is intended to obtain high efficiency in domestic wastewater treatment.

Reduce potential contamination of the discharge terrain, and consequently the ground water.





## MAIN CHARACTERISTICS

- Null visual impact (Underground Installation);
- Easiness and speed of installation;
- Manufactured in additive polyethylene anti-UV, by rotomoulding system, which confer elevated mechanical resistance and corrosion protection;
- Absence of unpleasant odours, with correct ventilation;
- High efficiency biological filter;
- Polyethylene cover;
- Easy to work and do maintenance.

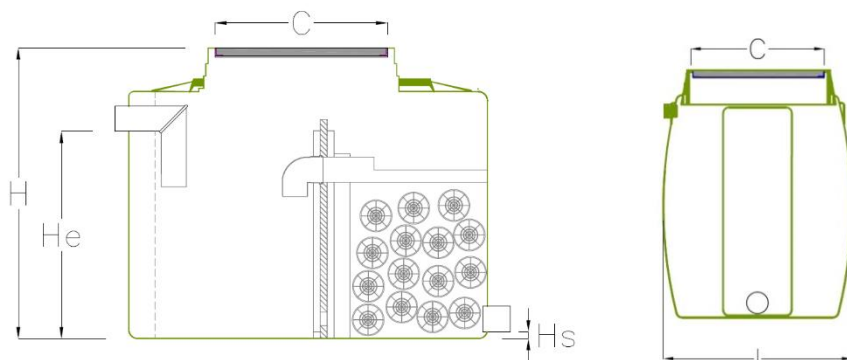
## OPERATION

The working process of ECODEPUR□, BIOFIX compact biological tank is divided in three different stages:

- Settling: Sludge settling allows liquid/solid phase separation;
- Anaerobic digester: sludge´s suffer anaerobic digestion, occurring the mineralization of organic matter.
- Aerobic trickling filter: biological removal of soluble organic matter through biomass developed in filler medium.



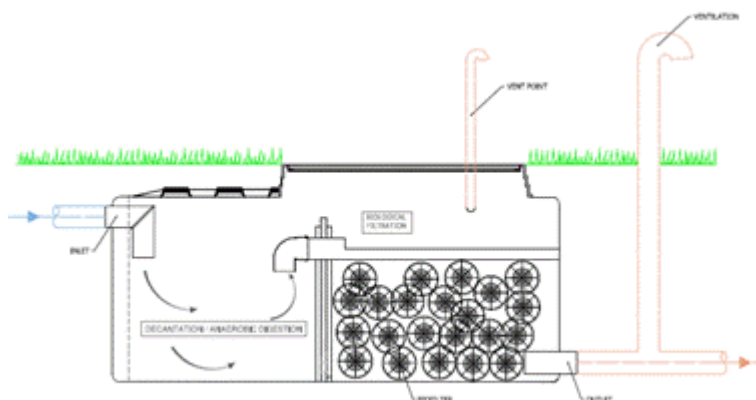
## DIMENSIONS



TYPE	HAB.	VOLUME TOTAL (L)	L (mm)	I (mm)	Ø (mm)	H (mm)	He (mm)	Hs (mm)	Ø PIPE (mm)	C (mm)	WEIGHT (kg)
BIOFIX 6	6	1.360	1.560	960	-	1.230	930	30	110	750 x 750	95
BIOFIX 10	10	2.410	2.580	960	-	1.230	915	30	125	750 x 1.415	155
 BIOFIX 15	15	3.770	4.060	960	-	1.230	880	30	160	750x1.415 - 750 x750	235
 BIOFIX 20	20	4.896	5.080	960	-	1.230	880	30	160	2 x 1.415 x 750	285
 BIOFIX 25	25	6.238	6.560	960	-	1.230	880	30	160	2 x 1.415x750 - 750x750	365
 BIOFIX VT10	35	10.000	3.440	-	2.190	2.265	1.800	150	200	790	590
 BIOFIX VT15	50	15.000	4.980	-	2.190	2.265	1.800	150	200	790	770

The pictures and dimensions can be changed without notice.  
 The CE 12566 - 1 standard is applied to equipment's with nominal capacity equal or superior to 2.000 liters.  
 Equipment's dimensioned for an average daily per capita wastewater production of 80 l/EH.d.  
 The dimensions indicated have a tolerance of ± 2%.

## INSTALLATION



ECODEPUR® BIOFIX installation must follow the recommendations of the document supplied Installation PE Reactors/Tanks.

Connection of the ventilation pipe is highly recommended. The location of the point of discharge of the gaseous by-products, resulting from the purification process, must take into account the specific conditions of the installation (correct ventilation will prevent the formation of permanent unpleasant odors). It is not advisable to leave the piping near windows, terraces and regularly frequented places. The effluent must be properly sent to an infiltration system.

In case of any doubt do not hesitate to contact our technical services.

## MAINTENANCE

Due to the high mechanical resistance and corrosion protection of the materials, the maintenance of this device only needs a periodical cleaning of the sludges by a specialized company.

In order to assess the need for cleaning suggest the inspection system 1 to 2 times per year. The sludge deposited on the bottom should not exceed 50% of the equipment volume.

When proceeding to the removal of deposited sludge should be left about 5 to 10% of the cumulative volume to ensure the maintenance of microbiological levels that guarantee a rapid start of the anaerobic digestion processes. After cleaning and disposal the equipment should be filled with clean water.

The septic tank inspection is carried out through the manhole by specialized personnel, duly equipped with rubber boots, gloves, mask, etc. The manhole must be open at least 30 minutes before any intervention in order to allow good ventilation and the complete exhaust of potential toxic gases retained. During the cleaning operation of the septic tank smoking must be strictly forbidden. All tasks must be made by a minimum of two workers, being one of them in charge of works supervision assuring readiness to assist in case of any emergency.

ECODEPUR® will not be responsible if there are clear indications of poor installation, misuse or poor maintenance, or if it is shown that the equipment was overloaded.

## CONTACTS

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## WATER AND WASTEWATER TECHNOLOGIES

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