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BIOLOGICAL TANK

ECODEPUR[®] 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.

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

- High efficiency biological filter;
- High mechanical and corrosion resistance
- Easy to install and do maintenance;
- Without energy consumption.
- 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.

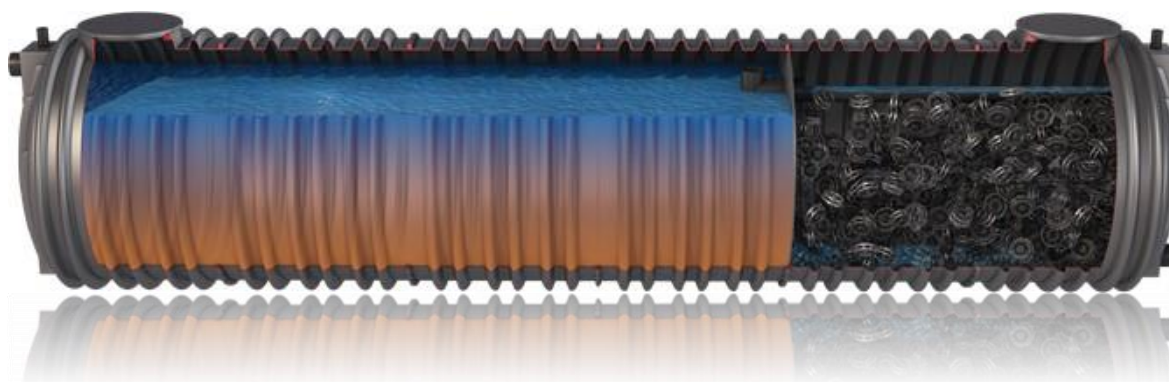
APPLICATION

- 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.

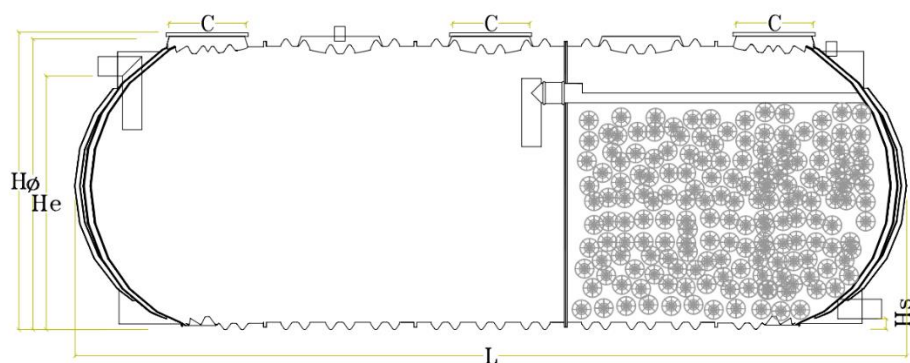
OPERATION

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.



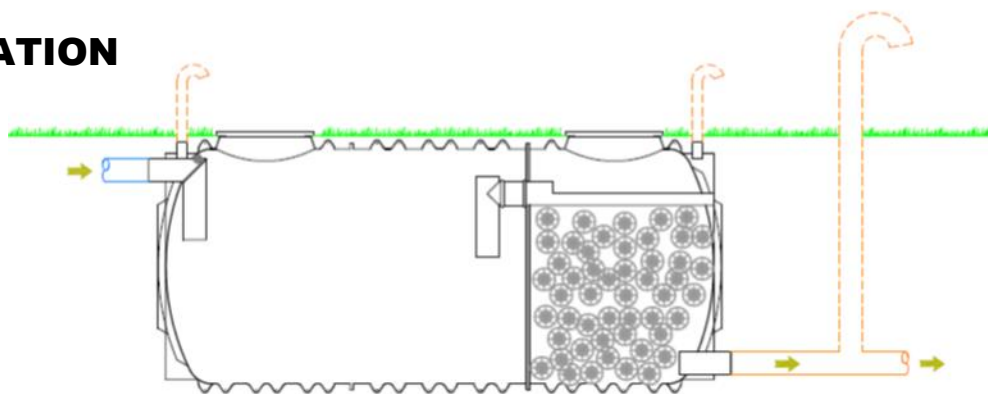
DIMENSIONS



TYPE	VOLUME TOTAL (l)	L (mm)	Ø (mm)	H (mm)	He (mm)	Hs (mm)	Ø PIPE (mm)	C (mm)	WEIGHT (kg)
BIOFIX VT20	20.000	6.520	2.190	2.265	1800	150	200	790	960
BIOFIX VT25	25.000	8.060	2.190	2.265	1800	150	200	790	1150
BIOFIX VT30	30.000	9.600	2.190	2.265	1800	150	200	790	1470
BIOFIX VT35	35.000	11.140	2.190	2.265	1800	150	200	790	1660
BIOFIX VT40	40.000	12.680	2.190	2.265	1800	150	200	790	1850
BIOFIX VT45	45.000	14.220	2.190	2.265	1800	150	200	790	2040
BIOFIX MR VT50	50.000	8.520	2.980	3.050	2.600	112	200	790	2630
BIOFIX MR VT60	60.000	10.060	2.980	3.050	2.600	112	200	790	3030
BIOFIX MR VT70	70.000	11.600	2.980	3.050	2.600	112	200	790	3700
BIOFIX MR VT80	80.000	13.140	2.980	3.050	2.600	112	200	790	4100
BIOFIX MR VT90	90.000	14.680	2.980	3.050	2.600	112	200	790	4500
BIOFIX MR VT100	100.000	16.220	2.980	3.050	2.600	112	200	790	4900
BIOFIX MR VT110	110.000	17.760	2.980	3.050	2.600	112	200	790	5570
BIOFIX MR VT120	120.000	19.300	2.980	3.050	2.600	112	200	790	5970

The pictures and dimensions can be changed without notice.
The dimensions indicated have a tolerance of $\pm 2\%$.

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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