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DOMESTIC SEWAGE TREATMENT PLANT

ECODEPUR[®] BIOFIX



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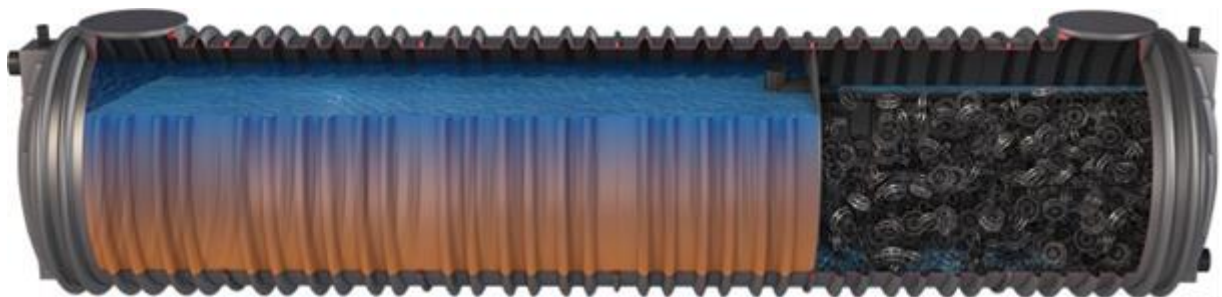
INTRODUCTION

DOMESTIC SEWAGE TREATMENT PLANT, 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 a 80% 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;
- Fully watertight (due to the construction materials, there are no leaks in the walls, in contrast with the traditional concrete systems);
- Easy to install and do maintenance;
- Adequate ventilation prevents unpleasant odors;
- Without energy consumption.



APPLICATION

The use of **ECODEPUR®, BIOFIX** compact biological tank is recommended when is intended to obtain high efficiency in domestic wastewater treatment, in order to reduce potential contamination of the discharge terrain, and consequently the ground water:

- Small population clusters;
- Condominiums;
- Temporary Camps;
- Restaurants and bars;
- Athletic complexes;
- Health care centres;
- Habitations;
- Small tourist complexes;
- Schools;
- Canteens;
- Camping;

MAIN CHARACTERISTICS

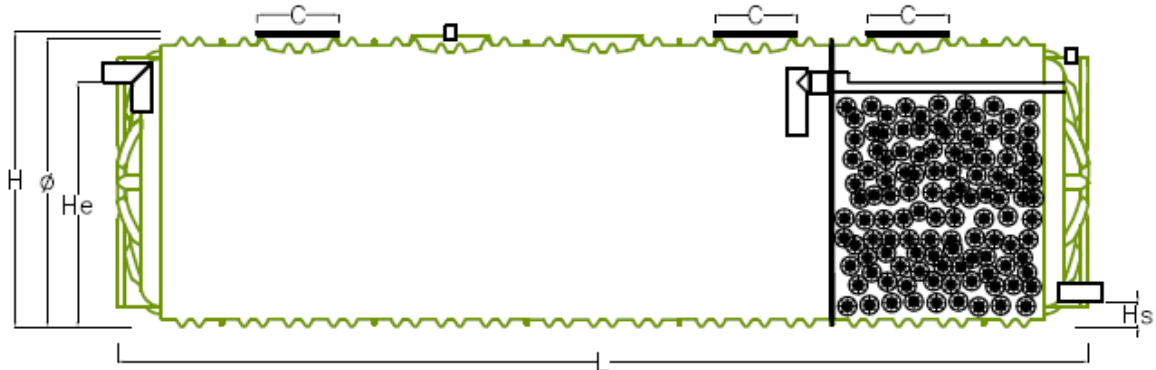
- High treatment levels;
- Null visual impact (Underground Installation);
- Easiness and speed of installation;
- Manufactured in additive linear polyethylene anti-UV, by rotomoulding system, which confer elevated mechanical resistance and corrosion protection;
- Absence of unpleasant odours, with correct 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 VT10	10.000	3.440	2.190	2.265	1800	150	200	790	590
BIOFIX VT15	15.000	4.980	2.190	2.265	1800	150	200	790	770
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	8.420	2.980	3.050	2.525	230	200	790	2.630
BIOFIX MR VT60	60.000	9.990	2.980	3.050	2.525	230	200	790	3.030
BIOFIX MR VT70	70.000	11.560	2.980	3.050	2.525	230	200	790	3.700
BIOFIX MR VT80	80.000	13.130	2.980	3.050	2.525	230	200	790	4.100
BIOFIX MR VT90	90.000	14.700	2.980	3.050	2.525	230	200	790	4.500
BIOFIX MR VT100	100.000	16.270	2.980	3.050	2.525	230	200	790	4.900
BIOFIX MR VT110	110.000	17.840	2.980	3.050	2.525	230	200	790	5.570
BIOFIX MR VT120	120.000	19.410	2.980	3.050	2.525	230	200	790	5.970

The pictures and dimensions can be changed without notice.

INSTALLATION

ECODEPUR® BIOFIX installation must follow the recommendations of the document supplied **Installation PE Reactors/Tanks (Ø 2.190 or Ø2.980)**.

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.

GUARANTEE

Two (2) years, covering any manufacturing defects.

ECODEPUR® – Tecnologias de Protecção Ambiental, Lda will be responsible for introducing corrective measures aimed at correct equipment operation, if necessary.