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GREASE SEPARATORS

ECODEPUR[®], GORTECH[®]



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INTRODUCTION

ECODEPUR® GORTECH® Grease Separators 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 1825- 1**.

ECODEPUR® GORTECH® Grease Separators are totally watertight, appropriated to separate greases and oils of vegetable and animal origin from wastewater.

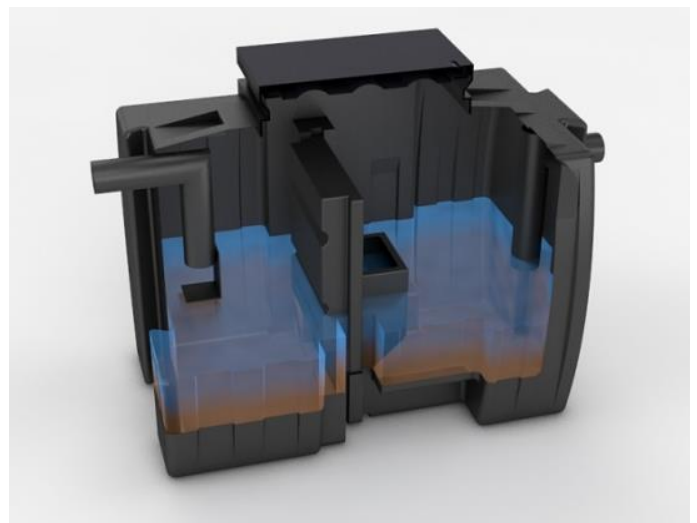
The raw material used (Linear Polyethylene) was tested by an independent entity, in line with the requirements of **Standard EN1825-1**, guaranteeing high mechanical resistance and corrosion protection.

The equipment production under controlled conditions, the use of quality raw materials and the finished product inspection, in accordance with the demands of ISO Standard 9001, guarantee the final product quality.



ADVANTAGES

- CE Marking according EN1825-1;
- Sludge trap built-in;
- Polyethylene Protection Cover;
- Possibility to incorporate a by-pass directly within the equipment structure;
- Oil alarm system available;
- High storage capacity for separated products;
- High mechanical resistance and corrosion protection;
- Light and easy to install and maintain;
- Totally watertight;
- Without power consumption;
- Low cost;
- Without odours with a correct ventilation.



APPLICATION

The wastewater produced in food processing are full of oils and fats that interfere with drainage systems and sewage treatment

PIPES	BIOLOGICAL TREATMENT	SLUDGE TREATMENT
<ul style="list-style-type: none"> • Total or partial obstruction of plumbing and piping, due to the gradual accumulation of oils and fats; • The wear and degradation of pipes; • High costs associated with cleaning plumbing and piping; • Unpleasant odors in the pipe. 	<ul style="list-style-type: none"> • Increase the organic load; • Reduced effluent biodegradability; • Enhancing foaming due to the change of the surface tension of residual water; • Increased energy consumption treatment of the systems due to reduced oxygen transfer coefficient; • One of the causes responsible for failure to discharge parameters. 	<ul style="list-style-type: none"> • Operation problems with sludge treatment because the presence of oil and fat. • Raise in energy consumption; • Difficulty in driving the sludge to a suitable final destination; • In the case of the existence of anaerobic digesters can strongly affect its operation, thereby inhibiting the growth of microorganisms necessary for its operation;



The installation of a grease separator can retain oils and fats, avoiding damage to systems and sanitation, its application is recommended in the following locations:

- Restaurants;
- School's;
- Camping Parks;
- Canteens;
- Bars;
- Laundries;
- Hotels;
- Residential areas;
- Any site with high quantity of Grease and Oil.

ACCORDING TO EN 1825-1

Grease separators - Part 1: Principles of design, performance and testing, marking and quality control

The grease separators must have CE marking according to legal requirements that come from the regulation (EU) N° 305/2011 of the European parliament, to the construction products. Each device must be accompanied by the respective **performance statement** with the following information:

PRODUCT: Grease Separator		
INTENDED USE: Separate greases from wastewater to protect sewerage systems and surface water		
Essential Characteristics	Requirement with the standard EN 1825-1	Performance
Reaction to fire	5.2.9	F
Liquid tightness	5.3.2	Pass
Effectiveness	4, 5.3.1, 5.3.3. to 5.3.10, 5.5	Pass
Load bearing capacity	5.4	Pass
Durability	5.2	Pass

At the same time the manufacturer must ensure an **internal quality control**, for example, a quality management system according to ISO 9001 for devices production.

MAIN CHARACTERISTICS

EUROPEAN STANDARD	EN 1825-1
EQUIPMENT IDENTIFICATION	Grease Separator
BRAND	ECODEPUR [®]
TYPE	GORTECH [®]
FIRE CLASS REACTION	F
MATERIAL	Linear Polyethylene
SLUDGE TRAP	Included
VENT POINT	Included
COVER	Linear Polyethylene

Technical Note I: In accordance with European Standard EN 1825-1 point 5.3.7, access covers must comply with the EN124 Standard featuring the inscription "SEPARATOR". ECODEPUR[®] GORTECH[®] Grease Separators includes a polyethylene protection cover. ECODEPUR[®] have available a Cast Iron Cover, complying with the European Standard EN124. Is Customer responsibility the acquisition and installation of a cover complying with EN124.

OPERATION

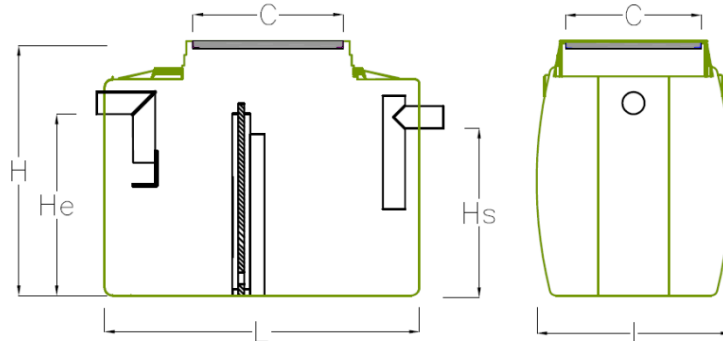
ECODEPUR[®] GORTECH[®] Grease Separators does not need any power consumption; it's based on materials gravitational separation with different densities of water.

Heavier materials (sludge, sand, etc) settle into the Sludge Trap compartment and are trapped there. This compartment also holds Grease that easily floats.

For the separation zone goes water and substances lighter than water, including grease which will be separated.

The grease will accumulate on the surface, while the clean water goes out at a level that does not allow the mixing of the phases.

DIMENSIONS



OPTIONS

OIL ALARM SYSTEM
CAST IRON COVER
ENZYMATIC ACTIVATION KIT
BIOLOGICAL SOLUTION TO
DEGRADE OILS AND FATS

TYPE	NS (l/s)	VOLUME TOTAL (l)	L (mm)	I (mm)	H (mm)	He (mm)	Hs (mm)	C (mm)	Ø PIPE (mm)	WEIGHT (kg)
GORTECH® NS 2	2	1.360	1.560	960	1.230	930	820	750 x 750	110	100
GORTECH® NS 4	4	2.410	2.580	960	1.230	930	820	750 x 1415	110	165
GORTECH® NS 6	6	3.770	4.070	960	1.230	920	805	(750 x 750) + (750 x 1.415)	125	270
GORTECH® NS 10	10	4.820	5.080	960	1.230	880	770	2 x (750 x 1.415)	160	305

The pictures and dimensions can be changed without notice.

Grease separators with higher treatment capacity are available – Information on request

DIMENSIONS OF GREASE SEPARATION CHAMBERS

VOLUMES IN ACCORDANCE TO THE REQUIREMENTS OF THE EUROPEAN STANDARD EN 1825-1.

MODELO	SURFACE OF GREASE SEPARATION ZONE (m ²)	VOLUME OF GREASE SEPARATION ZONE (l)	VOLUME OF GREASE COLLECTION AREA (l)	VOLUME OF SLUDGE TRAP (l)
GORTECH® NS 2	1,30	510	250	490
GORTECH® NS 4	2,20	970	430	990
GORTECH® NS 6	3,40	1.810	880	1.080
GORTECH® NS 10	4,40	2.620	1.300	1.010

INSTALLATION

ECODEPUR® GORTECH® Grease Separators Installation must follow the recommendations of the document supplied "**Installation PE Reactors/Tanks (Ø 2.190 or Ø2.980)**".

Simultaneously, please take into account the following consideration:

The protected covers supplied with these equipments are in polyethylene. Is a Customer responsibility the acquisition and installation of a cover complying with EN124 with the inscription "SEPARATOR" according with EN1825. The access covers installation must be on surface of the installation respecting the class mark on the covers (Ex: class B125 - Footways, pedestrian areas and comparable areas, car parks or car parking decks);

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

MAINTENANCE

ECODEPUR® GORTECH® Grease Separators do not need special care from a structural point of view, due to the high resistance and corrosion protection of the material from which they are made.

ECODEPUR® GORTECH® Grease Separators should be inspected, emptied, cleaned and refilled with clean water.

The frequency of inspection, emptying and cleaning should be determined with regard to the grease and sludge storage capacity of the separator and in accordance with operational experience.

GUARANTEE

Five (5) 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.

ECODEPUR® – Tecnologias de Protecção Ambiental, Lda will not be responsible if there are clear indications of poor installation, misuse (including the use of chemical emulsifiers) or poor maintenance, or if it is shown that the equipment was overloaded, based on the terms stipulated in Standard EN 1825-1.

OPTIONS EQUIPMENTES

Grease Separator ECODEPUR[®]

OIL ALARM SYSTEM, ECODEPUR[®], ECO-SET



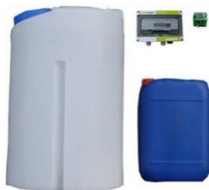
Oil Alarm System ECODEPUR[®] ECO-SET is used to detect the floating layers in grease separators.

ACCESS COVER ECODEPUR[®] FFD



Access Cover ECODEPUR[®] FFD normalized according EN 124:1995, accordance with the legal obligations of the european standard EN 858 and 1825. with the inscription "SEPARATOR"

ECODEPUR[®] ENZYMATIC ACTIVATION KIT



ECODEPUR[®] ENZYMATIC ACTIVATION KIT is a biological solution dispenser for fat/grease digestion. This biological solution is an extremely active biological product based on microorganism cultures, enzymes and supplements for oligoelements and growth factors, for liquefaction and digestion of fats, grease, oils, proteins, starch and cellulose.

ECODEPUR[®] BIOLOGICAL SOLUTION TO DEGRADE OILS AND FATS



Highly concentrated enzyme solution containing a range of high-performance micro environmental organisms, specifically adapted for biological treatment of oils, fats and removal of the excess of organic matter in sewage treatment plants.

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