



**Omega Pumps &
Control Systems**
Development, Manufacturing,
Installation and Maintenance



GREASE SEPARATORS

Greasily

FREE-STANDING AND UNDERGROUND MODELS



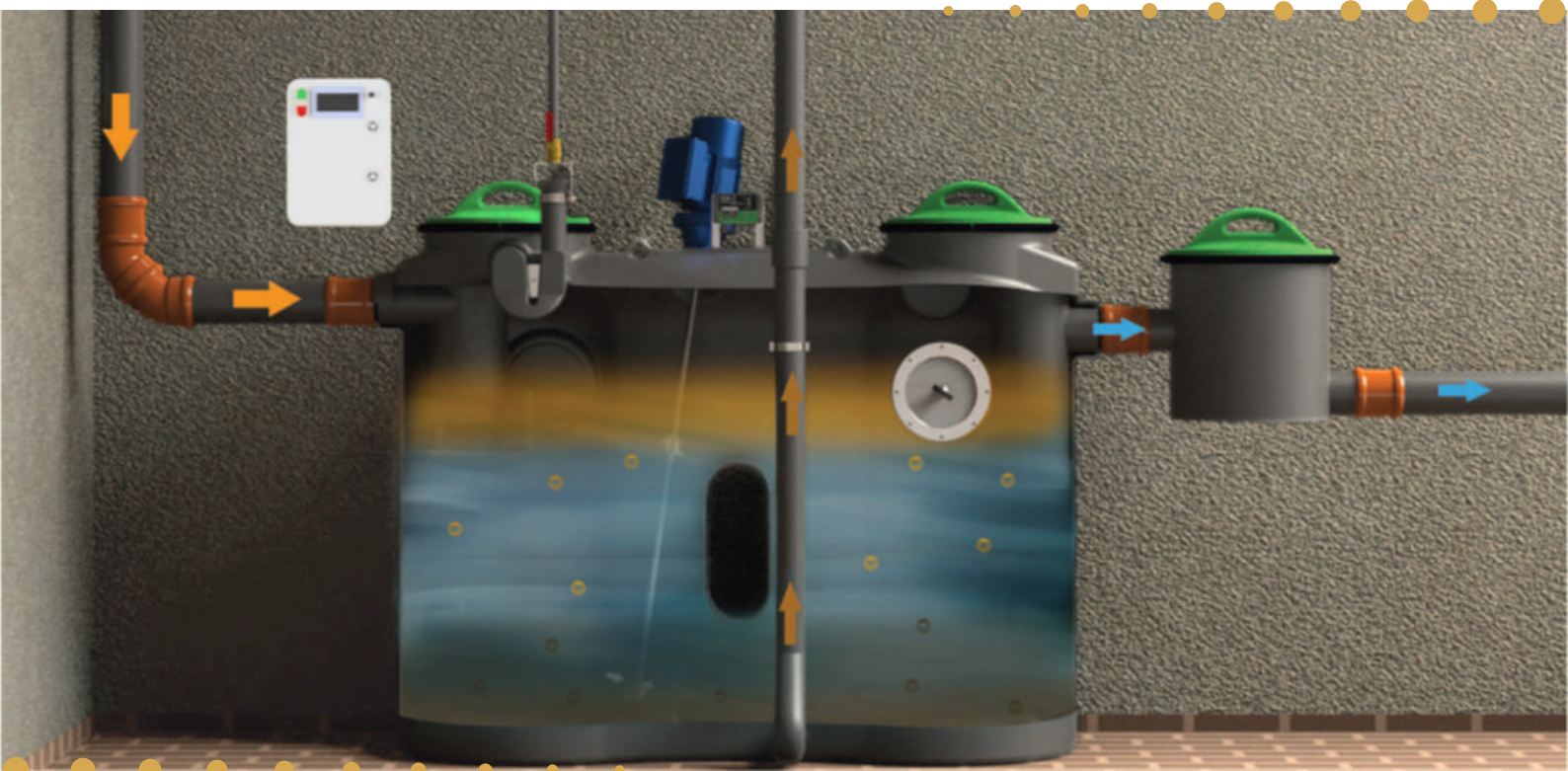
GREASLY – a part of the modern kitchen

A typical application of a grease separator is the treatment of wastewater containing fat and grease from hotels, restaurants, cafeterias and other catering or food processing operations. GREASLY will, by the removal of fat and grease, greatly reduce incidents of blocked drains and prevent contamination of sewage treatment plants.

ENEKA offers Free-standing Greasly-A and Underground Greasly-B grease separator models. The body of the separator made of polyethylene material are durable, corrosion-proof and chemically resistant, light and easy to transport.

Optimal grease separation

Incoming greasy wastewater enters the grease separator through a unique inlet module which creates the circular flow path. As water passes through the separator, grease particles, lighter than water, are driven upwards by gravity and accumulated in the collection area on the water surface. At the same time, solids and other impurities heavier than water settle to sludge trap at the bottom of the tank. Treated water is discharged through the outlet pipe.



Approvals

Greasly separators were developed to comply with EN1825 and DIN4040-100 standards. Greasly is ensuring the residual grease content less than 25 mg/l in the effluent wastewater. The performance of separators was practically tested (at the Danish Technological Institute and Kaunas University Of Technology). The conformity to European standard EN1825 is signified by the CE mark.





Greasily

Selection of Nominal Size

According to European Standard EN1825-2 the nominal size shall be determined from the following formula:

$$NS = Q_s \cdot f_t \cdot f_d \cdot f_r$$

where:

NS - the nominal size of the separator;

Q_s – the maximum flow rate in liters per second;

f_t – the temperature factor: ($f_t = 1$ if the influent water temperature is $\leq 60^\circ\text{C}$; $f_t = 1,3$ if $> 60^\circ\text{C}$);

f_d – the density factor: $f_d = 1^*$ if density of grease/oil is $\leq 0,94 \text{ g/cm}^3$; $f_d = 1,5$ if $> 0,94 \text{ g/cm}^3$

(a density factor $f_d = 1$ shall be used for wastewater discharging from kitchens abattoirs, meat and fish processing plants);

f_r – the detergent and rinsing agent factor: $f_r = 1$ detergents never used; $f_r = 1,3$ occasionally or always used; $f_r \geq 1,5$ hospitals and other special cases.

The maximum flow rate Q_s entering the separator shall be calculated from the equation:

$$Q_s = \frac{F \cdot M \cdot V_m}{3600 \cdot t}$$

where:

M – the number of meals per day;

V_m – the volume of water used per meal, in liters (see table 1);

F – the peak flow coefficient (see table 1);

t – the average duration of operation a day, in hours.

Type of kitchen	V_m , in liters	F
Hotel	100	5
Restaurant	50	8,5
Hospital	20	13
Large catering establishment, open all-day	10	22
Factory/Office canteen	5	20

For nominal size selection for food processing or any other special applications please consult ENEKA engineers.

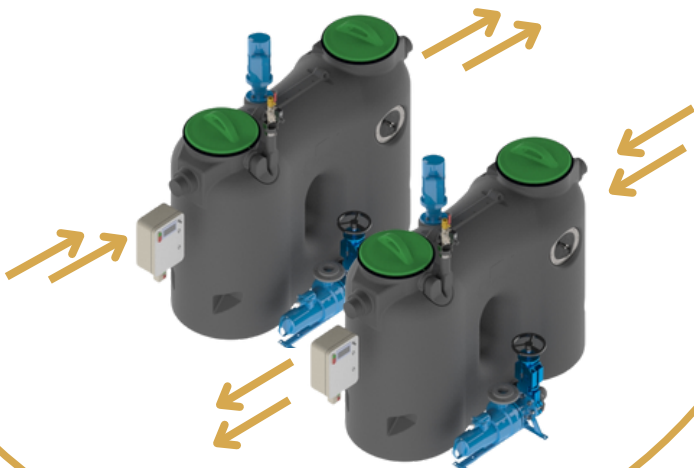
Free-standing Grease Separators GREASLY-A

FOR INSTALLATION INSIDE BUILDINGS

Greasly-A is a new grease separator model made of polyethylene for free-standing installation inside buildings. Greasly-A is compact and lightweight but very rigid units at the same time. All separators are equipped with an integrated sludge trap. Currently, there are nominal sizes of above-ground separators available for flow rates from 2 to 20 l/s.

EASY SELECTION OF FLOW DIRECTION

Due to the symmetrical design of the separator, the flow direction can be selected according to the existing pipeline layout. Inlet or outlet pipe can be connected on the right or left side of the separator.



DISPOSAL PUMP

A special heavy-duty disposal pump with vortex impeller (manual and automatic emptying systems of accumulated grease and solids).



CONVENIENT ALLOCATION IN THE ROOM

The grease separator is maintained from one side only, therefore, it can be set up next to the wall. The accessories (inspection window, extraction pipe, disposal pump) can be attached from both sides.



REFILLING UNIT

After disposal, the separator shall be refilled with fresh water without opening the lid and thus ensuring odour-free filling.

Greasly

FITS THROUGH ANY DOOR

A tight grease separator body (width is only 700 mm of NS2 and NS4) can easily fit through any standard door. Thus Greasly-A is a good choice for installation in spaces with narrow access.



RIGID AND DURABLE DESIGN

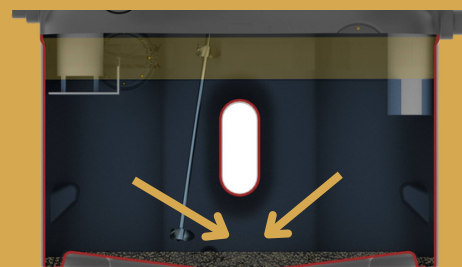
The advanced design of the separator's body ensures great stiffness and perfect resistance against internal water pressure and higher temperatures.



Inspection window with a wiper for visual control of the grease layer.

COMPLETE EMPTYING OF THE TANK

The bottom of the separator is inclined towards the center. The extraction pipe is connected at the lowest point ensuring complete emptying of accumulated grease and solids from the lowest point.

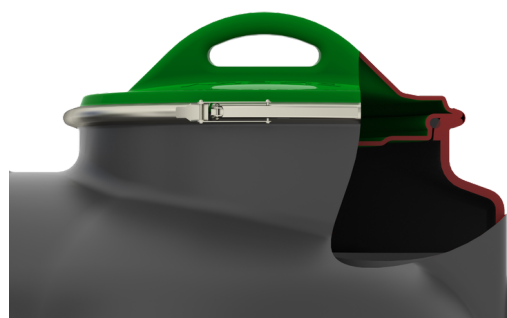
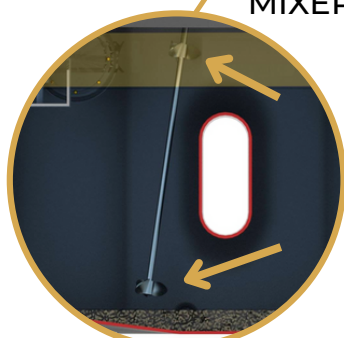


NO BAD ODOUR

Access covers are tightened by a locking ring with a seal ensuring odour-free operation. There is no need to open the cover during the maintenance since accumulated grease and sludge can be disposed of through an extraction pipe or using a disposal pump.

MIXER WITH 2 IMPELLERS

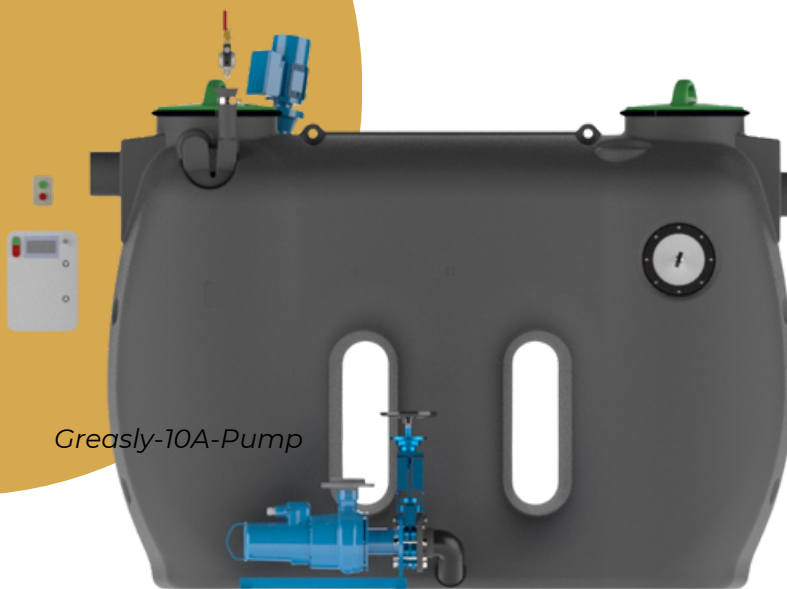
Before disposal, accumulated grease and sludge are blended with water to facilitate the emptying of the separator.



PUMP

PUMP model is equipped with an autonomous program-controlled emptying system including a disposal pump, a mixer and a grease alarm (integrated in the control panel). A grease alarm is indicating when the maximum level of accumulated grease is reached. The operator activates the automatic disposal mode on the control panel or remote controller (optional). First of all, the mixer is turned on for blending grease, water and solids. Then the disposal pump is actuated for emptying of the separator.

After complete disposal, the separator can be rinsed by freshwater which is filled through the refilling unit, mixed and emptied by the disposal pump. After rinsing, the separator is filled up completely with fresh water.



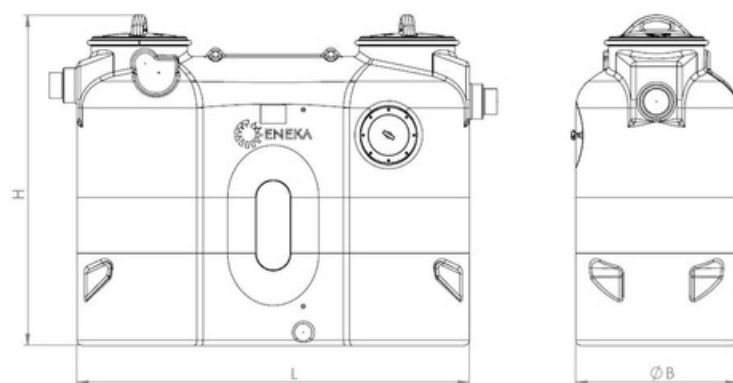
Greasly-10A-Pump

NS	Article No.	Weight, kg	Dimensions, mm		
			L	B	H
2	201-0205	214	1940	1060	1352
4	201-0305	227	1940	1060	1592
7	201-0405	277	1776	1175	1891
10	201-0505	311	2356	1175	1891
15	201-0605	544	2200	1953	2200

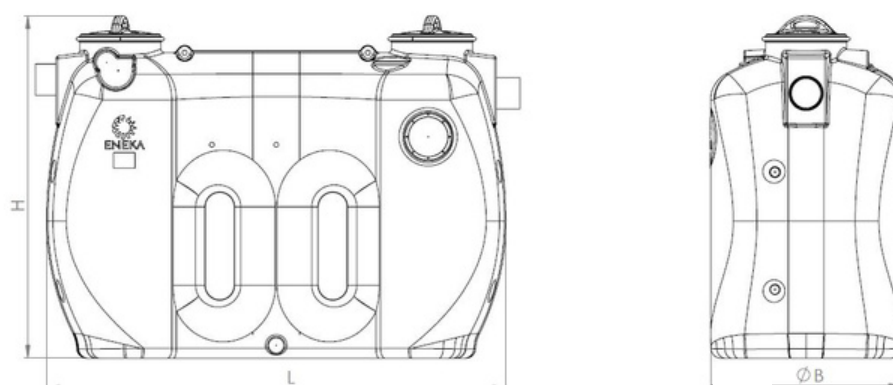
ACCESSORIES

Remote Controller	Extraction Pipe	Sampling Chamber	Refilling Unit	Mixer	Inspection Window	Control Panel	Disposal Pump

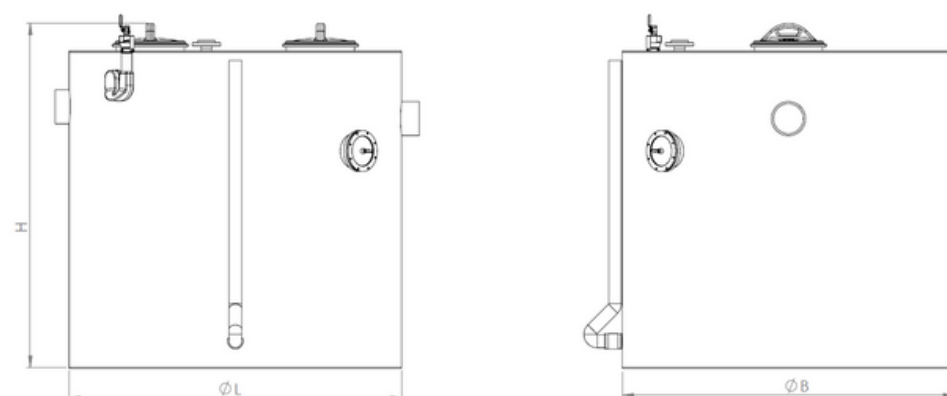
Greasly-2A & 4A dimensions



Greasly-7A & 10A dimensions



Greasly-15A dimensions



Type	Flow rate, l/s	Sludge trap volume, l	Separator volume, l	Grease volume, l	Total volume, l
Greasly-2A	2	200	450	80	650
Greasly-4A	4	400	450	160	850
Greasly-7A	7	700	960	280	1660
Greasly-10A	10	1000	1076	400	2076
Greasly-15A	15	1500	1800	600	3300



ENEKA UAB is a Lithuanian company with long-term experience in the manufacturing of oil/water and grease separators. The sales network of ENEKA products covers not only Lithuania and the neighbouring countries as the Baltic states or Scandinavia, but many countries in Europe, the Middle East and Asia as well.

EXPERIENCE SINCE 1998 Y.

Manufacturing of
Oil/Water separators;
Grease separators;
Pumping stations;
Waste Water treatment
plants;

CERTIFICATES

ISO 9001
ISO 14001
ISO 45001
SINTEF
SINGAPORE GREEN BUILDING
PRODUCT "VERY GOOD"

SERVICES

Custom rotational
molding;
Design and
manufacturing of unique
plastic products;



Omega Pumps LTD is an Israeli company with proven experience in building and maintaining water systems for different industrial and civilian projects. Omega Pumps partnered with Eneka UAB from Lithuania in field of grease separators and together companies provide innovative solutions to the local market.

Greasly

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