



Grease and/or starch separators

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Grease and starch separators treatment challenges

1. Introduction

Wastewater from food preparation contains animal or plant-based grease and oil. This leads to significant build-ups in pipes. These build-ups disrupt wastewater treatment plants and networks.

They cause high collector maintenance costs for local authorities.

So grease build-ups cause:

- **clogging and/or blocking of pipes** (this can account for 30 to 50% of call-outs),
- **grease treatment problems at treatment plants, leading to increased costs:** grease is difficult to biodegrade and causes an additional chemical oxygen demand (COD). Therefore the water treatment basin must be further ventilated, leading to additional operating costs,
- **foul odours** accompanied by **toxic gases and pipe corrosion:** the grease build-up in pipes creates areas conducive to fermentation and the emission of toxic gases, including hydrogen sulphide,
- **disruption of aquatic flora and fauna:** grease released into nature causes additional consumption of dissolved oxygen in watercourses, disrupting the flora and fauna and contributing to the development of some filamentous algae.

The installation of a grease separator allows solid waste and grease to be trapped at the source, and avoids any harm to water and public sanitation systems.

A study conducted by CNIDEP in 2007 highlighted that “for butchers, caterers, restaurants and takeaway companies, 95% of grease in manufacturing effluent is from 4 processes:

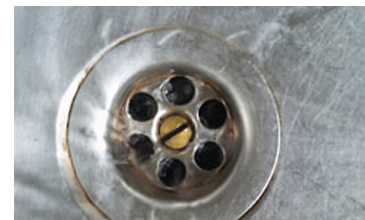
- Cooking in water (54%), refrigeration (4%), washing dishes by hand (30%) and the dishwasher (7%).

2. Regulations

Article L 13 31 10 of the new public health code states that:

“any release of wastewater other than domestic wastewater into public sewers must be previously authorised by the local authorities that own the pipes carrying this water before reaching the natural environment”.

Sanitation regulations and departmental sanitary rules must indicate rules for managing waste grease, i.e. the installation of a pre-treatment system. We also note that an increasing amount of cities are imposing it in their municipal regulations.





Grease and starch separators regulations

2.1 - Standards

The production of grease separators is governed by different standards, notably French regulation NF EN 1825-1, supplemented by NF P 16-500-1/CN and NF EN 1825-2. Units are also subject to CE marking, whose terms are defined in appendix ZA.

The D.O.P. has been mandatory since 1 July 2013. Each product must be accompanied by its D.O.P. which also includes CE marking:

2.2 - Determining nominal size (for $NS \geq 2$)

A - the sludge trap

The sludge trap volume, in litres, must be **at least** $100 \times NS$

B - the separation chamber

Nominal size NS	Minimum grease separation area surface m ²	Minimum grease separation area volume m ³	Minimum grease storage area volume m ³
NS	$0.25 \times NS$	$0.24 \times NS$	$0.04 \times NS$

The volume of the separation chamber can also be calculated as follows:

$$\text{Useful volume (litres)} = 240 \times NS$$

3. Hydraulic flow

Wastewater from food industries and/or restaurants contain grease that, when accumulated, has a pH between 1 and 3. This grease releases acidity that damages epoxy-type organic coatings.

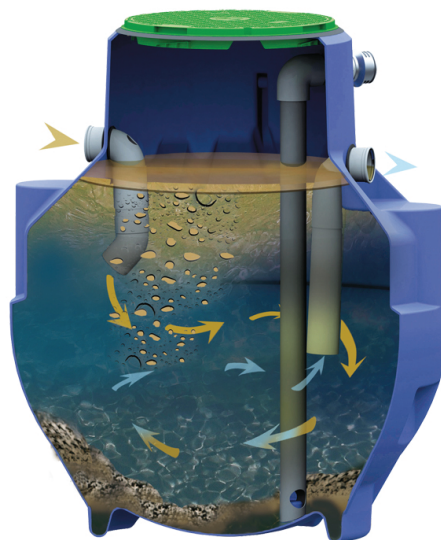
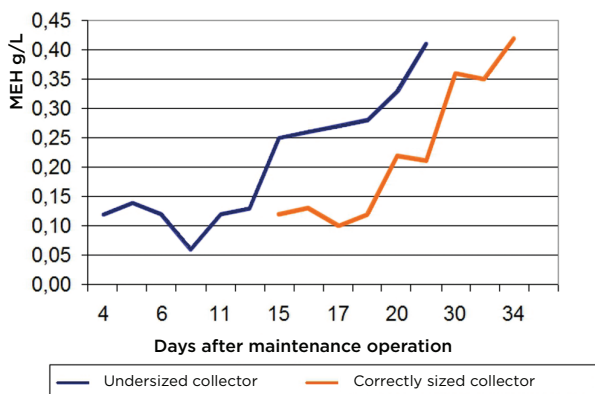
So Techneau has chosen corrosion-proof materials to produce its grease separators.

Depending on site limitations, the grease separator will be manufactured either in:

rotomoulded polyethylene OR polyester OR stainless steel (304L or 316L stainless steel version).

4. The dimensions

Changes to unit outlet discharge



The chosen size of a grease and starch separator is crucial.

An undersized unit will have discharges exceeding 250 mg/l after just 16 days of operation.



Grease separators with sludge trap: which size?

Grease and/or starch separators

2.1 - Calculation method as per NF EN1825-2

For the size of grease separators with sludge trap and grease and starch separators, the calculation method as per the NF EN 1825-2 standard is the following:

$$NS = \text{No. of meals} \times V \text{ meals} \times fd \times ft \times fr \times \frac{fq}{(3600 \times \text{daily running time})}$$

fd : Density Factor; ft : Temperature Factor; fr : Detergent Factor; fq : Peak Factor.

2.2 - Key factors as per NF EN1825-2

Factors	Restaurant			Hospital	Professional cooking establishment	Canteen (without preparation)
	1 service	2 services	Hotel restaurant			
Daily running time (h)	8	16	16	16	24	8
Temperature Factor (1: T°C < 60°C) (ft)	1	1	1	1	1	1
Detergent factor / 1.3: detergent presence (fr)	1.3	1.3	1.3	1.5	1.3	1.3
Peak factor (fq)	8.5	8.5	5	13	22	20
Base V / meals (litres)	50	50	100	20	10	5

Notes: ft considered = 1 (T°C < 60°C); if T°C > 60°C, multiply NS by 1.3; for the same number of meals, the nominal size is inversely proportional to the daily activity time.

2.3 - Selection table for grease separators with sludge trap

Restaurant ⁽²⁾			Hospi- tal	Professional cooking establishment	Canteen (without preparation)	Specific industrial uses	NS	Grease separator with sludge trap			
Number of meals								Polyethylene		Stainless steel	
1 service	2 services	Hotel restaurant	No. of meals/day			No drain column		With drain column	No drain column	With drain column	
≤ 52	≤ 104	≤ 89	≤ 148	≤ 101	≤ 222	Contact us	1	YG0500E	YG1000E	BDG01I	BDGA01I
≤ 78	≤ 156	≤ 133	≤ 222	≤ 151	≤ 332		1.5	YG0501E	YG1001E	BDG02I	BDGA02I
≤ 104	≤ 209	≤ 177	≤ 295	≤ 201	≤ 443		2	YG0502E HG0502E	YG1002E HG1002E	BDG02I	BDGA02I
≤ 156	≤ 313	≤ 266	≤ 443	≤ 302	≤ 665		3	YG0503E	YG1003E	BDG03I	BDGA03I
≤ 209	≤ 417	≤ 354	≤ 591	≤ 403	≤ 886		4	YG0504E HG0504E	YG1004E HG1004E	BDG04I	BDGA04I
≤ 261	≤ 521	≤ 443	≤ 738	≤ 503	≤ 1108		5	YG0505E	YG1005E	BDG06I	BDGA06I
≤ 313	≤ 626	≤ 532	≤ 886	≤ 604	≤ 1329		6	YG0506E	YG1006E	BDG06I	BDGA06I
≤ 417	≤ 834	≤ 709	≤ 1182	≤ 806	≤ 1772		8	EG0508C	EG1008C	BDG08I	BDGA08I
≤ 521	≤ 1043	≤ 886	≤ 1477	≤ 1007	≤ 2215		10	EG0510C	EG1010C	BDG10I	BDGA10I
≤ 626	≤ 1251	≤ 1063	≤ 1772	≤ 1208	≤ 2658		12	EG0512C	EG1012C	-	-
≤ 782	≤ 1564	≤ 1329	≤ 2215	≤ 1510	≤ 3323		15	-	-	BDG15I	BDGA15I
≤ 834	≤ 1668	≤ 1418	≤ 2363	≤ 1611	≤ 3545		16	-	-	For uses other than restaurant or community kitchens, please contact our design	
≤ 1043	≤ 2085	≤ 1772	≤ 2954	≤ 2014	≤ 4431		20	DG20E	DGA20E		
≤ 1564	≤ 3128	≤ 2658	≤ 4431	≤ 3021	≤ 6646		30	DG30E	DGA30E		
≤ 2085	≤ 4170	≤ 3545	≤ 5908	≤ 4028	≤ 8862		40	DG40E	DGA40E		

For uses other than restaurant or community kitchens, please contact our design office.



Grease separators and/or starch separators: which size?

2.4 - Selection table for grease and starch separators

Restaurant ⁽¹⁾			Hospital	Professional cooking establish- ment	Specific industrial use	NS	Grease and starch separator with sludge trap			
Number of meals							Polyethylene		Stainless steel	
1 service	2 services	Hotel restaurant					No. of meals/day		No drain column	With drain column
≤ 52	≤ 104	≤ 89	≤ 148	≤ 101	Contact us	1	YG2000E	YG2500E	BDG01I + OSF010	BDGA01I + OSF010
≤ 78	≤ 156	≤ 133	≤ 222	≤ 151		1.5	-	-	BDG02I + OSF010	BDGA02I + OSF010
≤ 104	≤ 209	≤ 177	≤ 295	≤ 201		2	YG2002E	YG2502E	BDG03I + OSF010	BDGA03I + OSF010
≤ 156	≤ 313	≤ 266	≤ 443	≤ 302		3	YG2003E	YG2503E	BDG04I + OSF010	BDGA04I + OSF010
≤ 261	≤ 521	≤ 443	≤ 38	≤ 503		5	YG2005E	YG2505E	BDG06I + OSF010	BDGA06I + OSF010
≤ 313	≤ 626	≤ 532	≤ 886	≤ 604		6	EG2006C	EG2506C	-	-
≤ 365	≤ 730	≤ 620	≤ 1034	≤ 705		7	EG2007C	EG2507C	BDG08I + OSF010	BDGA08I + OSF010
≤ 417	≤ 834	≤ 709	≤ 1182	≤ 806		8	EG2008C	EG2508C	BDG10I + OSF010	BDGA10I + OSF010
≤ 521	≤ 1043	≤ 886	≤ 1477	≤ 1007		10	EG2010C	EG2510C	BDG15I + OSF010	BDGA15I + OSF010
≤ 782	≤ 1564	≤ 1329	≤ 2215	≤ 1510		15	GF15E	GFA15E	-	-

(1) For a **restaurant**, there are 2 possibilities: 1 or 2 services per day.

3. Selection table for starch separators

The choice of starch separator depends on the number of meals served or the amount of potatoes passing through the peeler per day.

Number of meals per day	Weight of potatoes per day	Size	Starch separator	
			No drain column	With drain column
≤ 400	80 kg	1	YG3000E	YG3500E
≤ 1000	200 kg	2	YG3002E	YG3502E
≤ 2500	500 kg	3	YG3003E	YG3503E
≤ 3000	600 kg	4	YG3004E	YG3504E
≤ 6000	1200 kg	5	EG3005C	EG3505C
≤ 7500	1500 kg	6	EG3006C	EG3506C

4. Selection table for grease collector

The choice of grease collector depends on the number of meals per service and number of sinks connected.

Number of meals per service	Number of sinks connected	Grease collector	
		Stainless steel version	Polyethylene version
1 to 30	1	MiniGR040	GMIE
31 to 45	1 to 2	MiniGR050	
46 to 60	1 to 2	MiniGR060	-
61 to 80	1 to 3	MiniGR080	-
81 to 100	1 to 3	MiniGR100	-



Grease separators with sludge trap

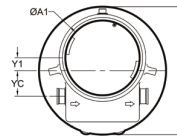
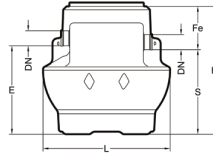
- Tank in recyclable rotomoulded polyethylene.
- Inlet and outlet in PVC or seals in nitrile.
- Sludge trap to retrieve heavy materials.

- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphère range).

Sphère range:

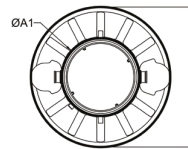
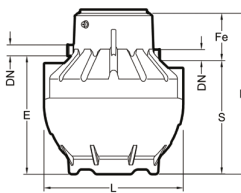
- Available as reinforced model (depending on installation limitations).
- Light cover (pedestrian traffic) with seal, stainless steel screws.

Sphère



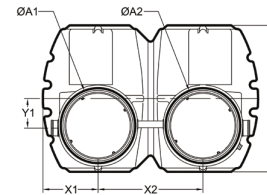
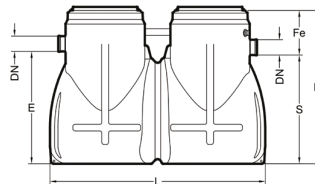
YG05E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1	YC	“Fixed” extension option
										sludge trap	separator				
YG0500E	1	1000	1000	1000	698	668	332	110	27	100	240	620	100	270	PLA13555G PLA13556G

*fixed extension (non-telescopic)



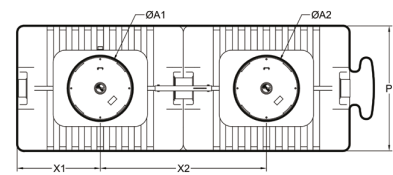
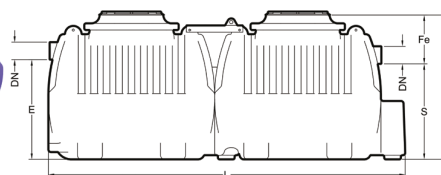
YG05E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	“Fixed” extension option	“Adjustable” extension option
										sludge trap	separator			
YG0501E	1.5	1200	1200	1230	880	830	400	110	37	150	510	620	PLA13555G PLA13556G	-
YG0502E	2	1250	1250	1230	930	880	350	110	37	200	490	620		-
YG0503E	3	1200	1200	1540	1240	1190	350	110	52	300	730	620		-
YG0504E	4	1500	1500	1700	1275	1225	475	110	69	400	1100	770	-	ETR47EF ETR65EF
YG0505E	5	1550	1550	1700	1475	1425	275	160	72	500	1200	770	-	
YG0506E	6	1500	1500	1965	1705	1655	310	160	95	600	1440	770	-	

Ellipse



EG05 range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	Y1	“Adjustable” extension option
										sludge trap	separator						
EG0508C	8	2400	1624	1700	1250	1210	490	160	232	800	2460	770	770	615	1170	300	ETR47EF ETR65EF
EG0510C	10	2400	1624	2072	1622	1582	490	160	254	1000	3090	770	770	615	1170	300	
EG0512C	12	2450	1700	2072	1532	1492	580	200	264	1200	2890	770	770	615	1170	300	

Aronde



DGE range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	“Adjustable” extension option
										sludge trap	separator					
DG20E	20	4292	1500	1730	1140	1070	660	200	318	2000	4800	770	770	1000	2000	ETR47EF ETR65EF

options

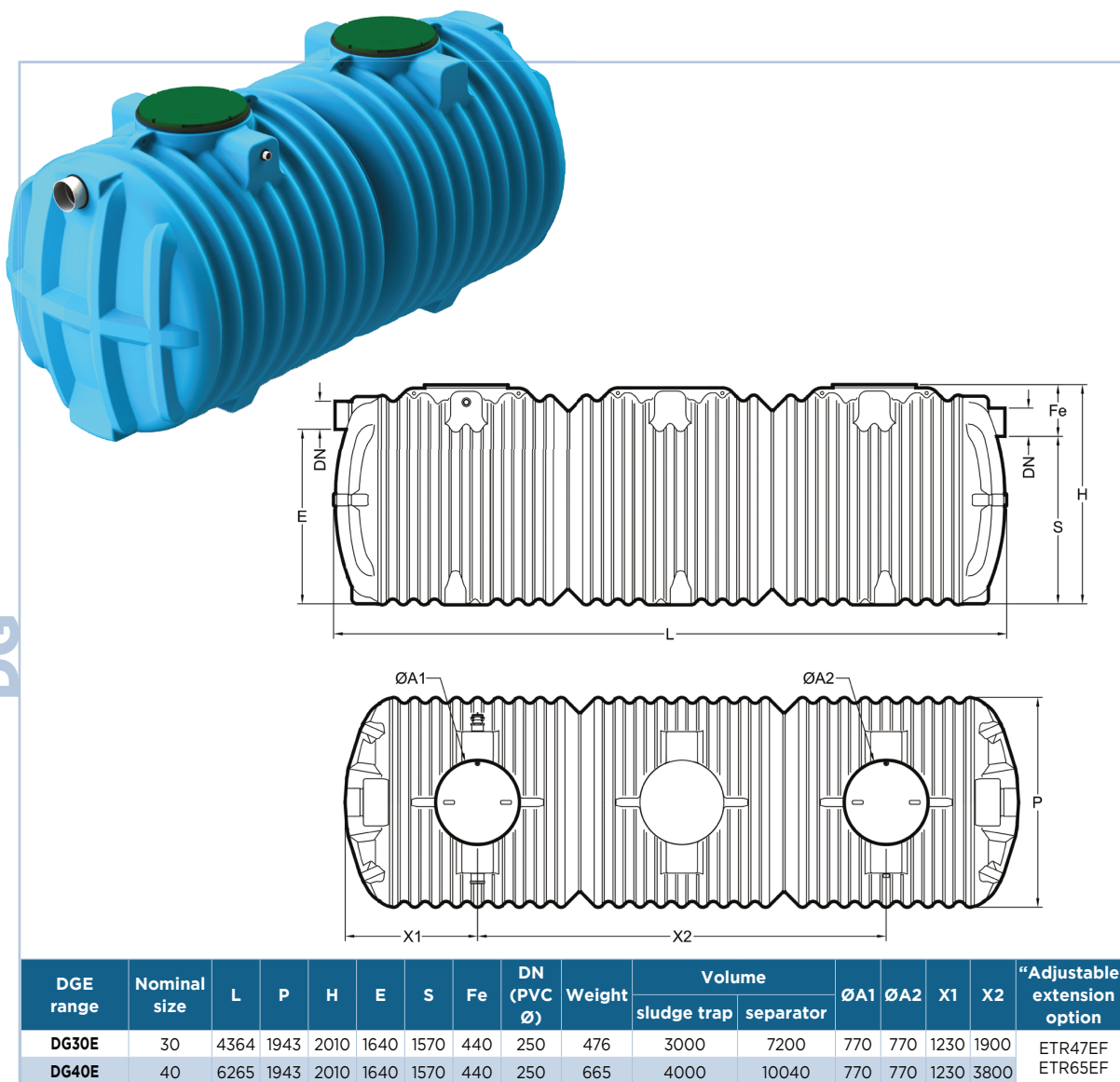
	Sphère	Ellipse	Aronde
1. Visual and audible grease alarm p. 70-71	X	X	X
2. Cylindrical polyethylene extension p.70	X	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease separators with sludge trap

- Tank in recyclable rotomoulded polyethylene.
- Operation: traps sludge and grease in cooking water and avoids pipes becoming clogged up.
- Sludge trap to retrieve heavy materials.
- Inlet and outlet in PVC or seals in nitrile.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal.



Options

	DG
1. Visual and audible grease alarm p. 70-71	X
2. Cylindrical polyethylene extension p.70	X

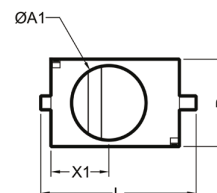
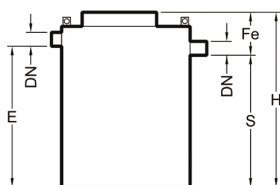


Grease separators with sludge trap

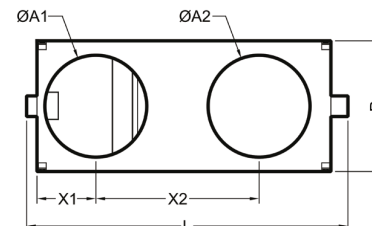
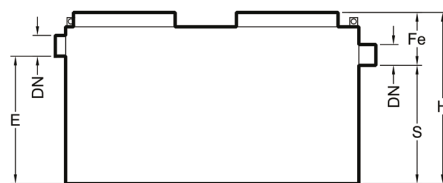
- Tank made of 304L stainless steel.
- Operation: traps grease and sludge in the wastewater of restaurants, community kitchens or the food industry.
- Sludge trap to retrieve heavy materials.
- 1 or 2 manholes depending on model, for installation under cast iron grate, 600 or 800 mm diameter.

Grease and/or starch separators

BDG



BDGI range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1
										sludge trap	separator		
BDG01I	1	1210	680	850	590	520	330	110	110	100	240	580	400
BDG02I	2	1210	680	1360	1100	1030	330	110	161	200	480	580	450



BDGI range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2
										sludge trap	separator				
BDG03I	3	1690	680	1360	1100	1030	330	110	202	300	720	580	580	350	780
BDG04I	4	1690	750	1570	1310	1240	330	110	315	400	960	580	580	350	780
BDG06I	6	2190	1000	1450	1120	1050	400	160	420	600	1440	780	780	450	1080
BDG08I	8	2190	1000	1810	1480	1410	400	160	510	800	1920	780	780	450	1080
BDG10I	10	2190	1200	1910	1530	1460	450	200	305	1000	2400	780	780	450	1080
BDG15I	15	2360	1480	2110	1730	1660	450	200	780	1500	3600	780	780	500	1150

Dimensions are in millimetres, weights in kilograms, volumes in litres.

Options

	BDG
1. Visual and audible grease alarm p. 70-71	X
2. 304L stainless steel cover, p. 70	X



Grease separators with sludge trap & drain column

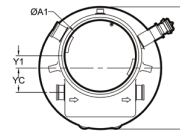
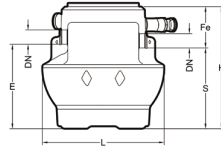
- Tank in recyclable rotomoulded polyethylene.
- Inlet and outlet in PVC or seals in nitrile.
- Sludge trap to retrieve heavy materials.
- DN80 drain columns with symmetrical connection.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphere range).

Sphère range:

- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.

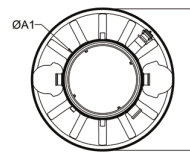
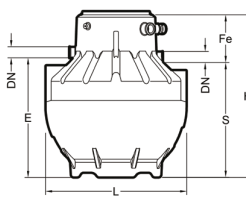


Sphère



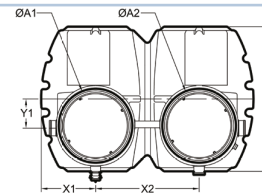
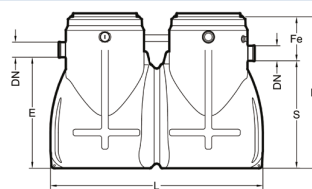
YG10E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1	YC	"Fixed" extension option
										sludge trap	separator				
YG1000E	1	1000	1000	1000	698	668	332	110	33	100	240	620	100	270	PLA13555G PLA13556G

*fixed extension (non-telescopic)



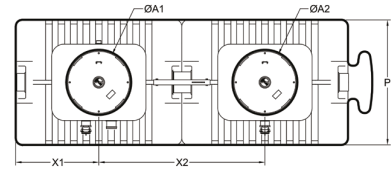
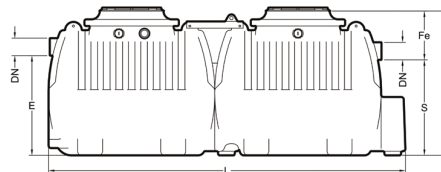
YG10E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	"Fixed" extension option	"Adjustable" extension option
										sludge trap	separator			
YG1001E	1.5	1200	1200	1230	880	830	400	110	43	150	510	620	PLA13555G PLA13556G	-
YG1002E	2	1250	1250	1230	930	880	350	110	53	200	490	620		-
YG1003E	3	1200	1200	1540	1240	1190	350	110	59	300	730	620		-
YG1004E	4	1500	1500	1700	1275	1225	475	110	76	400	1100	770	-	ETR47EF ETR65EF
YG1005E	5	1550	1550	1700	1475	1425	275	160	79	500	1200	770	-	
YG1006E	6	1500	1500	1965	1705	1655	310	160	102	600	1440	770	-	

Ellipse



EG10 range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	Y1	"Adjustable" extension option
										sludge trap	separator						
EG1008C	8	2400	1624	1700	1250	1210	490	160	237	800	2460	770	770	615	1170	300	ETR47EF ETR65EF
EG1010C	10	2400	1624	2072	1622	1582	490	160	259	1000	3090	770	770	615	1170	300	
EG1012C	12	2450	1700	2072	1532	1492	580	200	269	1200	2890	770	770	615	1170	300	

Aronde



DGA range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	"Adjustable" extension option
										sludge trap	separator					
DGA20E	20	4292	1500	1730	1140	1070	660	200	318	2000	4800	770	770	1000	2000	ETR47EF ETR65EF

Options

- Visual and audible grease alarm p. 70-71
- Cylindrical polyethylene extension p.70

Sphère	Ellipse	Aronde
X	X	X
X	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.

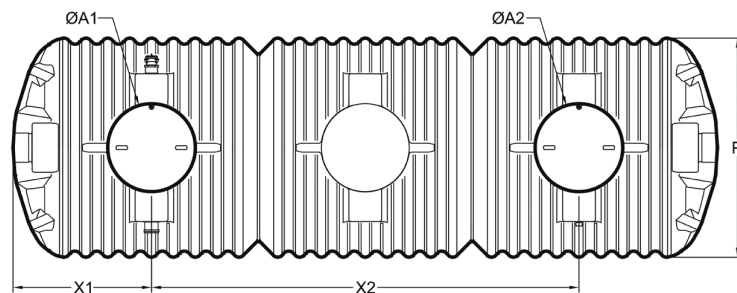
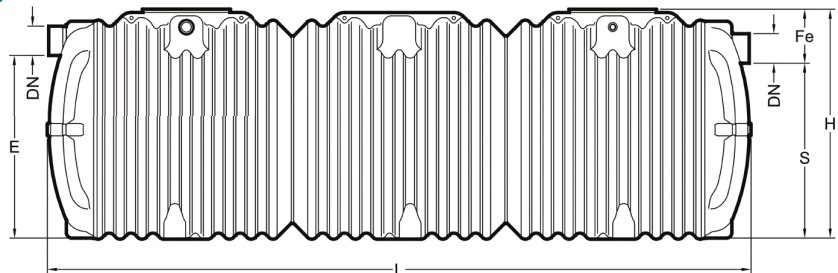
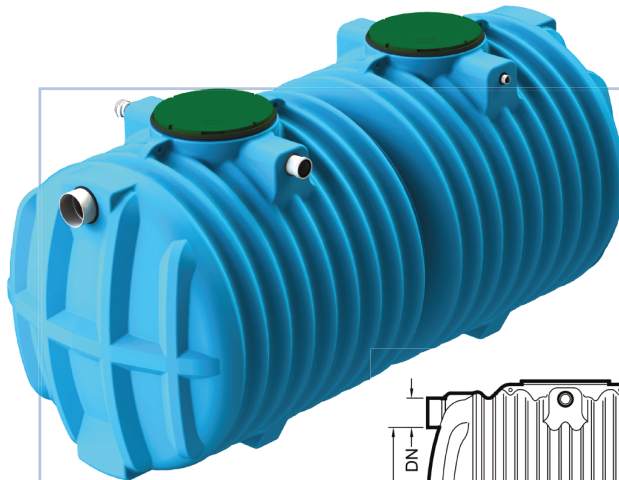
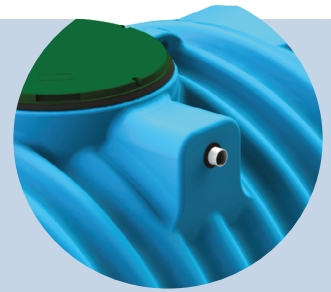


Grease separators

with sludge trap & drain column

Grease and/or starch separators

- Tank in recyclable rotomoulded polyethylene
- Operation: traps sludge and grease in cooking water and avoids pipes becoming clogged up.
- Sludge trap to retrieve heavy materials.
- Grease inlet and outlet in PVC or seals in nitrile.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal.
- DN80 PVC drain column with symmetrical connection.
- DN110 PVC vent.



DGA

DGA range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	“Adjustable” extension option
										sludge trap	Separator					
DGA30E	30	4364	1943	2010	1640	1570	440	250	482	3000	7200	770	770	1230	1900	ETR47EF ETR65EF
DGA40E	40	6265	1943	2010	1640	1570	440	250	671	4000	10040	770	770	1230	3800	

Options

1. Visual and audible grease alarm p. 70-71
2. Cover extension p.70

DGA

X

X

Dimensions are in millimetres, weights in kilograms, volumes in litres.

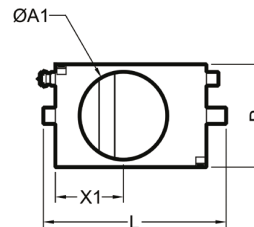
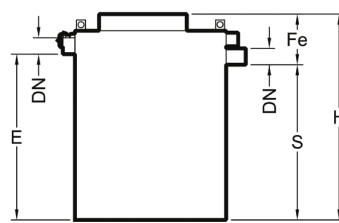


Grease separators with sludge trap & drain column

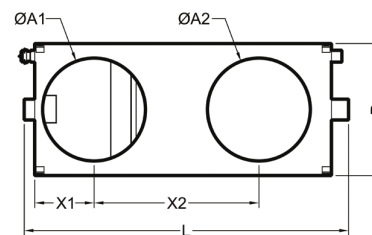
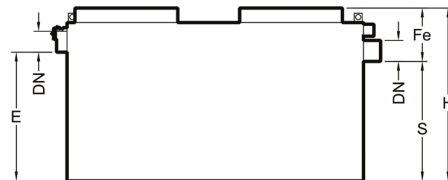
- Tank made of 304L stainless steel.
- Operation: traps grease and sludge in the wastewater of restaurants, community kitchens or the food industry.
- Sludge trap to retrieve heavy materials.
- 1 or 2 manholes depending on model, for installation under cast iron grate, 600 or 800 mm diameter.
- ø80 stainless steel drain columns with symmetrical connection.
- DN100 stainless steel vent.



Grease and/or
starch separators



BDGA range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1
										sludge trap	separator		
BDGA01I	1	1260	640	890	640	570	320	110	107	100	240	580	525
BDGA02I	2	1510	680	1190	940	870	320	110	160	200	480	580	650
BDGA03I	3	1310	880	1510	1260	1190	320	110	193	300	720	580	550



BDGA range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2
										sludge trap	Separator				
BDGA04I	4	1690	1000	1410	1160	1090	320	110	316	400	960	580	580	350	780
BDGA06I	6	2190	1000	1610	1280	1210	400	160	432	600	1440	780	780	450	1080
BDGA08I	8	2190	1000	1960	1630	1560	400	160	503	800	1920	780	780	450	1080
BDGA10I	10	2960	1250	1610	1230	1160	450	200	640	1000	2400	780	780	600	1550
BDGA15I	15	2590	1600	2070	1680	1620	450	200	791	1500	3600	780	780	600	1180

Options

1. Visual and audible grease alarm p. 70-71
2. Stainless steel cover, p. 73

BDGA

X

X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease separators

without sludge trap

Grease and/or starch separators

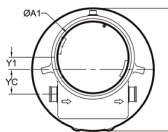
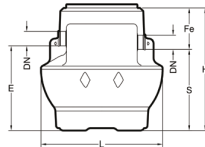
- Tank in recyclable rotomoulded polyethylene.
- Inlet and outlet in PVC or seals in nitrile.

- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphère range).

Sphère range:

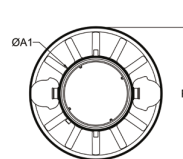
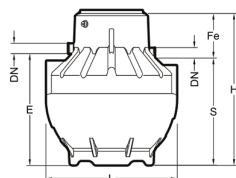
- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.

Sphère



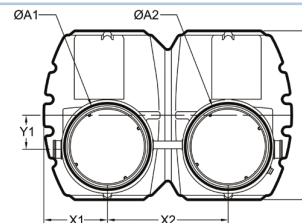
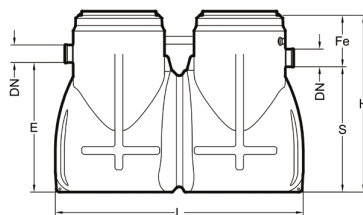
YG15E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	X1	YC	"Fixed" extension option
YG1501E	1	1000	1000	1000	698	668	332	110	27	340	620	100	270	PLA13555G PLA13556G

*fixed extension (non-telescopic)



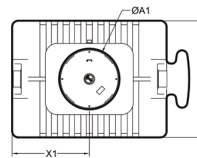
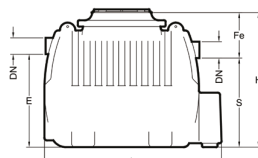
YG15E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	"Fixed" extension option	"Adjustable" extension option
YG1503E	3	1200	1200	1230	930	880	350	110	37	720	620	PLA13555G	-
YG1504E	4	1200	1200	1540	1240	1190	350	110	52	1030	620	PLA13556G	-
YG1506E	6	1500	1500	1700	1275	1225	475	160	71	1500	770	-	ETR47EF
YG1508E	8	1500	1500	1965	1705	1655	310	160	95	2040	770	-	ETR65EF

Ellipse

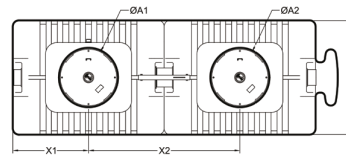
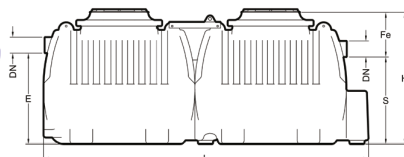


EG15 range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	ØA2	X1	X2	Y1	"Adjustable" extension option
EG1512C	12	2400	1624	1700	1160	1120	580	200	224	3360	770	770	615	1170	300	ETR47EF
EG1516C	16	2450	1700	2072	1532	1492	580	200	243	4060	770	770	615	1170	300	ETR65EF

Aronde



GE range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	X1	"Adjustable" extension option
G14E	14	2292	1500	1730	1140	1070	660	160	166	3400	770	1000	ETR47EF ETR65EF



GE range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	ØA2	X1	X2	"Adjustable" extension option
G28E	28	4292	1500	1730	1140	1070	660	200	318	6800	770	770	1000	2000	ETR47EF ETR65EF

options

1. Visual and audible grease alarm p. 70-71
2. Cylindrical polyethylene extension p.70

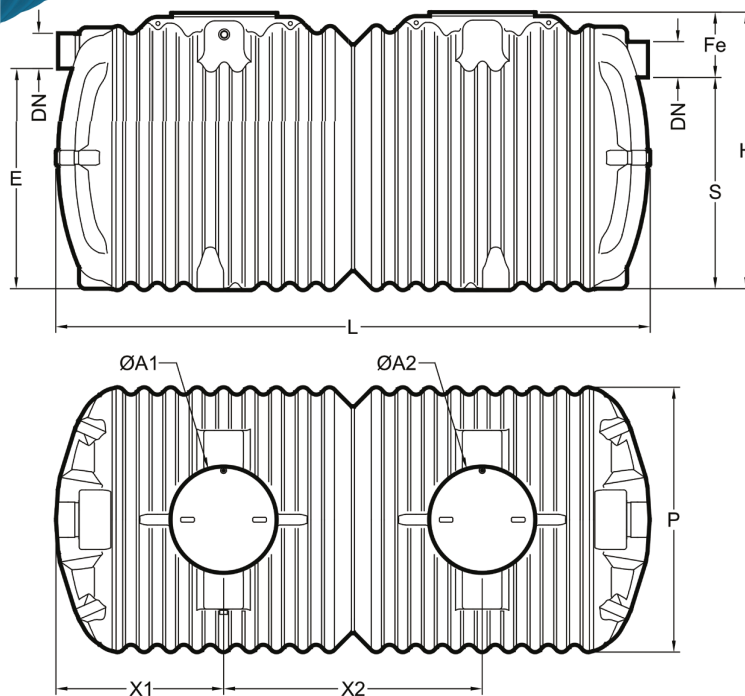
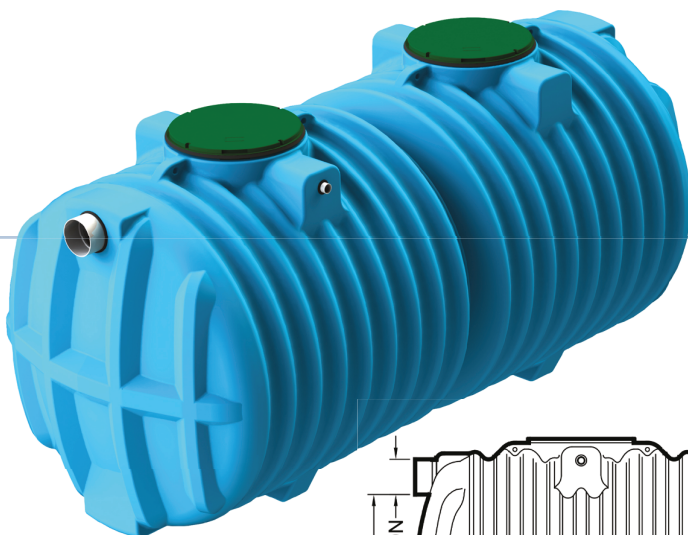
Sphère	Ellipse	Aronde
X	X	X
X	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease separators without sludge trap

- Tank in recyclable rotomoulded polyethylene.
- Operation: traps sludge and grease in cooking water and avoids pipes becoming clogged up.
- Grease inlet and outlet in PVC or seals in nitrile.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal.
- DN110 PVC vent.



GE range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	ØA2	X1	X2	"Adjustable" extension option ETR47EF ETR65EF
G40E	40	4364	1943	2010	1640	1570	440	200	482	10200	770	770	1230	1900	

Options

	GE
1. Cylindrical polyethylene extension p.70	X
2. Visual and audible grease alarm p. 70-71	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease and starch separators with sludge trap

Grease and/or starch separators

- Tank in recyclable rotomoulded polyethylene.
- DN1 grease inlet and outlet in PVC or seals in nitrile.

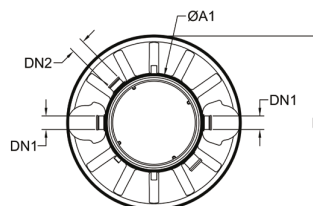
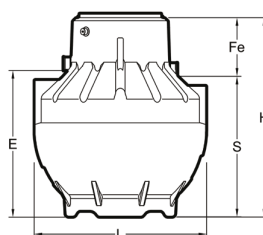
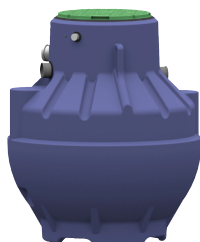
- DN2 PVC sleeve for starch inlet.
- 15/21 brass spray nozzle for foam drawdown.

- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphère range).

Sphère range:

- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.

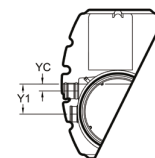
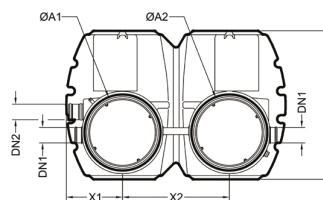
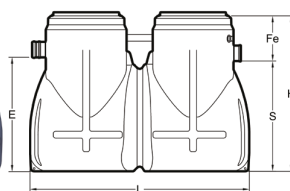
Sphère



YG20E range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	“Fixed” extension option	“Adjustable” extension option
											sludge trap	separator			
YG2000E	1	1200	1200	1230	930	880	350	110	110	37	100	560	620	PLA13555G	-
YG2002E	2	1200	1200	1540	1240	1190	350	110	110	53	200	830	620	PLA13556G	-
YG2003E	3	1500	1500	1700	1275	1225	475	110	110	70	300	1200	770	-	ETR47EF
YG2005E	5	1500	1500	1965	1705	1655	310	160	110	95	500	1540	770	-	ETR65EF

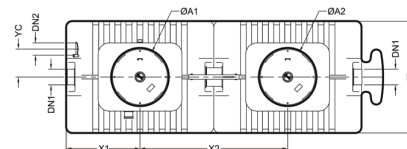
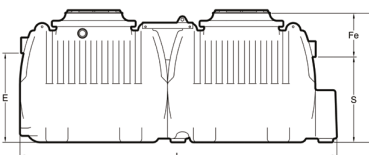
*fixed extension (non-telescopic)

Ellipse



EG20 range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	Y1	YC	“Adjustable” extension option
											sludge trap	separator							
EG2006C	6	2400	1624	1700	1250	1210	490	160	160	225	600	2660	770	770	615	1170	300	75	ETR47EF ETR65EF
EG2007C	7	2450	1700	1700	1250	1210	490	160	160	235	700	2600	770	770	615	1170	300	75	
EG2008C	8	2400	1624	2072	1622	1582	490	160	160	244	800	3290	770	770	615	1170	300	75	
EG2010C	10	2450	1700	2072	1622	1582	490	160	160	254	1000	3120	770	770	615	1170	300	75	

Aronde



GFE range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	YC	“Adjustable” extension option
											sludge trap	separator						
GF15E	15	4292	1500	1730	1140	1070	660	200	160	319	1500	5300	770	770	1000	2000	375	ETR47EF ETR65EF

Options

	Sphère	Ellipse	Aronde
1. Visual and audible grease alarm p. 70-71	X	X	X
2. Cylindrical polyethylene extension p.70	X	X	X
3. Solenoid valve p. 73	X	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease and starch separators with sludge trap & drain column

- Tank in recyclable rotomoulded polyethylene.
- DN1 grease inlet and outlet in PVC or seals in nitrile.

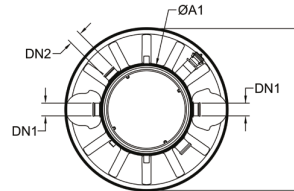
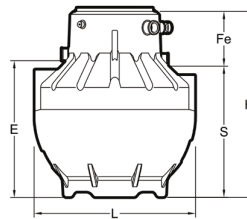
- DN2 PVC sleeve for starch inlet.
- 15/21 brass spray nozzle for foam drawdown.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel

- screws, with seal (except the Sphère range).
- ø80 drain columns with symmetrical connection.

Sphère range:

- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.

Sphère

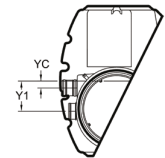
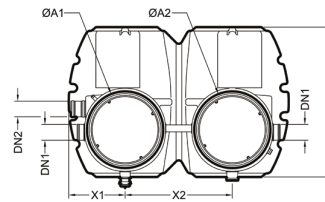
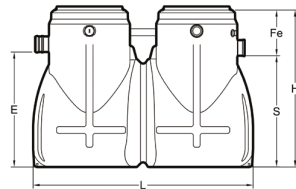


Detail of drain column

YG25E range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	"Fixed" extension option	"Adjustable" extension option
											sludge trap	separator			
YG2500E	1	1200	1200	1230	930	880	350	110	110	44	100	560	620	PLA13555G	-
YG2502E	2	1200	1200	1540	1240	1190	350	110	110	60	200	830	620	PLA13556G	-
YG2503E	3	1500	1500	1700	1275	1225	475	110	110	77	300	1200	770	-	ETR47EF
YG2505E	5	1500	1500	1965	1705	1655	310	160	110	103	500	1540	770	-	ETR65EF

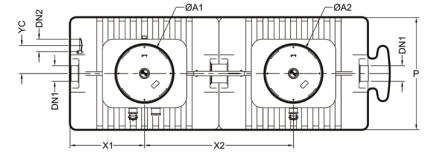
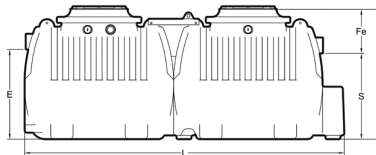
*fixed extension (non-telescopic)

Ellipse



EG25 range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	Y1	YC	"Adjustable" extension option
											sludge trap	separator							
EG2506C	6	2400	1624	1700	1250	1210	490	160	160	239	600	2660	770	770	615	1170	300	75	ETR47EF ETR65EF
EG2507C	7	2450	1700	1700	1250	1210	490	160	160	249	700	2600	770	770	615	1170	300	75	
EG2508C	8	2400	1624	2072	1622	1582	490	160	160	261	800	3290	770	770	615	1170	300	75	
EG2510C	10	2450	1700	2072	1622	1582	490	160	160	271	1000	3120	770	770	615	1170	300	75	

Aronde



GFAE range	Nominal size	L	P	H	E	S	Fe	DN1 (PVC Ø)	DN2 (PVC Ø)	Weight	Volume		ØA1	ØA2	X1	X2	YC	"Adjustable" extension option
											sludge trap	separator						
GFA15E	15	4292	1500	1730	1140	1070	660	200	160	319	1500	5300	770	770	1000	2000	375	ETR47EF ETR65EF

Options

- Visual and audible grease alarm p. 70-71
- Cylindrical polyethylene extension p.70
- Solenoid valve p. 73

	Sphère	Ellipse	Aronde
1. Visual and audible grease alarm p. 70-71	X	X	X
2. Cylindrical polyethylene extension p.70	X	X	X
3. Solenoid valve p. 73	X	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



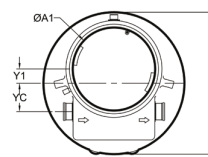
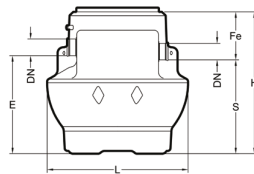
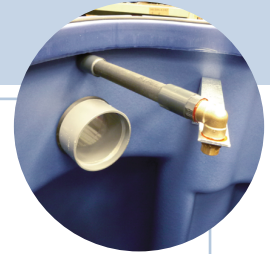
Starch separators without drain column

Grease and/or starch separators

- Tank in recyclable rotomoulded polyethylene.
- Inlet and outlet in PVC or seals in nitrile.
- 15/21 brass spray nozzle for foam drawdown.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphère range).

Sphère range:

- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.

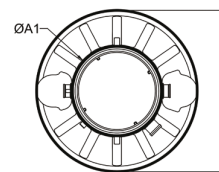
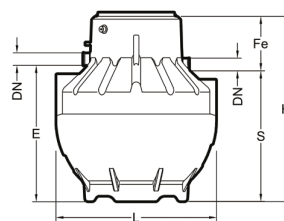
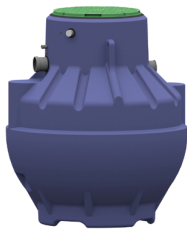


Detail of spray nozzle inside separator

YG30E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	X1	YC	"Fixed" extension option
YG3000E	1	1000	1000	1000	700	670	330	110	27	340	620	100	270	PLA13555G PLA13556G

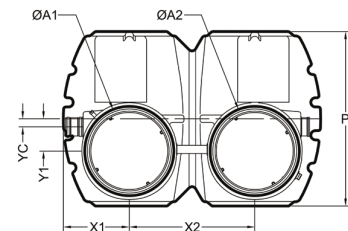
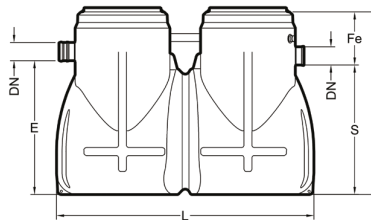
*fixed extension (non-telescopic)

Sphère



YG30E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	"Fixed" extension option	"Adjustable" extension option
YG3002E	2	1200	1200	1230	930	880	350	110	37	660	620	PLA13555G PLA13556G	-
YG3003E	3	1500	1500	1700	1275	1225	475	110	69	1500	770	-	ETR47EF
YG3004E	4	1500	1500	1965	1705	1655	310	160	93	2040	770	-	ETR65EF

Ellipse



EG30 range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	ØA2	X1	X2	Y1	YC	"Adjustable" extension option
EG3005C	5	2400	1620	1700	1250	1210	490	160	220	3000	770	770	615	1170	300	75	ETR47EF ETR65EF
EG3006C	6	2400	1624	1700	1250	1210	490	160	220	3260	770	770	615	1170	300	75	
EG3008C	8	2450	1700	1700	1250	1210	490	160	230	3300	770	770	615	1170	300	75	
EG3010C	10	2400	1624	2072	1622	1582	490	160	239	4090	770	770	615	1170	300	75	

Options

	Sphère	Ellipse
1. Visual and audible grease alarm p. 70-71	X	X
2. Cylindrical polyethylene extension p.70	X	X
3. Solenoid valve p. 73	X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Starch separators with drain column

- Tank in recyclable rotomoulded polyethylene.
- Inlet and outlet in PVC or seals in nitrile.
- 15/21 brass spray nozzle for foam drawdown.
- 2 light covers (for pedestrian traffic), 1/4-turn closure, stainless steel screws, with seal (except the Sphère range).
- DN80 drain column with symmetrical connection.
- DN110 PVC vent.

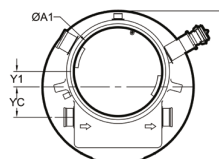
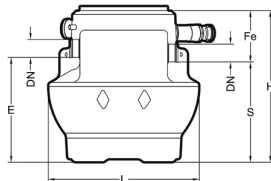
Sphère range:

- Available as reinforced model (depending on installation limitations).
- Light cover (for pedestrian traffic), stainless steel screws, with seal.



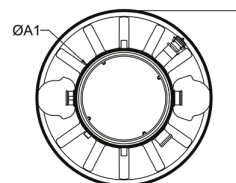
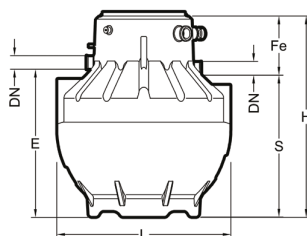
Detail of spray nozzle inside separator

Sphère



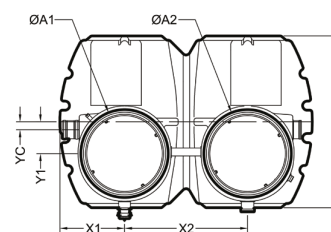
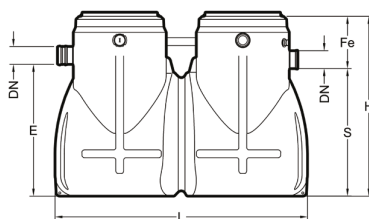
YG35E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	X1	YC	"Fixed" extension option
YG3500E	1	1000	1000	1000	700	670	330	110	33	340	620	100	270	PLA13555G PLA13556G

*fixed extension (non-telescopic)



YG35E range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	"Fixed" extension option	"Adjustable" extension option
YG3502E	2	1200	1200	1230	930	880	350	110	43	660	620	PLA13555G PLA13556G	-
YG3503E	3	1500	1500	1700	1275	1225	475	110	76	1500	770	-	ETR47EF
YG3504E	4	1500	1500	1965	1705	1655	310	160	101	2040	770	-	ETR65EF

Ellipse



EG35 range	Nominal size	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume	ØA1	ØA2	X1	X2	Y1	YC	"Adjustable" extension option
EG3505C	5	2400	1620	1700	1250	1210	490	160	220	3000	770	770	615	1170	300	75	ETR47EF ETR65EF
EG3506C	6	2400	1624	1700	1250	1210	490	160	220	3260	770	770	615	1170	300	75	
EG3508C	8	2450	1700	1700	1250	1210	490	160	230	3300	770	770	615	1170	300	75	
EG3510C	10	2400	1624	2072	1622	1582	490	160	239	4090	770	770	615	1170	300	75	

Options

1. Visual and audible grease alarm p. 70-71
2. Cylindrical polyethylene extension p.70
3. Solenoid valve p. 73

	Sphère	Ellipse
1. Visual and audible grease alarm p. 70-71	X	X
2. Cylindrical polyethylene extension p.70	X	X
3. Solenoid valve p. 73	X	X

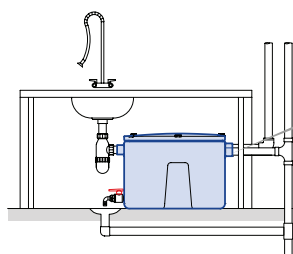
Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease collector

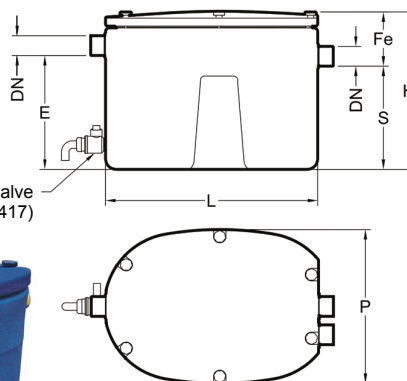
Connection under sink

- Tank in 100% recyclable rotomoulded polyethylene with lifting rings.
- Inlet and outlet sleeve in PVC or seals in nitrile.
- Polyethylene cover with 6 screws on an O-ring for a perfect seal.



To help with cleaning,
raise the unit

PVC valve
(Option/Ref: 11417)



Restaurant
dishwashing
sink special

- Useful volume = **55 litres**
- Max. admissible flow rate = **0.15 l/s.**
- Weight = **10 kg**

Maintenance: it must be daily depending on the pollutant load sent to the unit.

GME range	Nominal size l/s	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume
GM1E	0.15	600	435	450	325	295	155	50	10	55

Dimensions are in millimetres, weights in kilograms, volumes in litres.

Options

1. 1/4-turn PVC valve p.73

Wastewater

Stainless steel

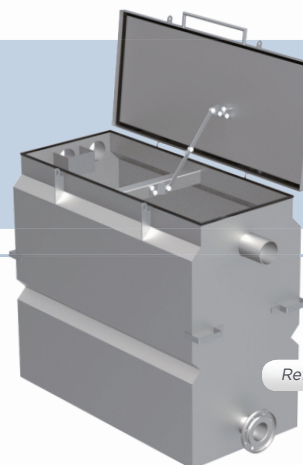
Nominal size 2



Grease separators

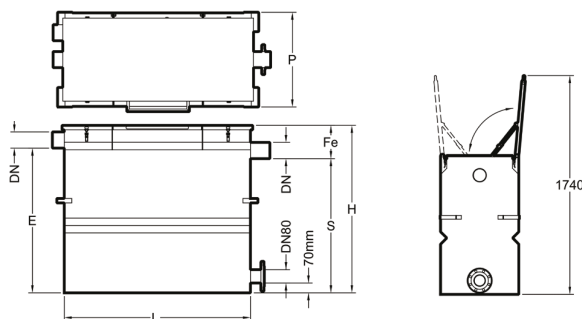
above ground installation special

- Completely **stainless steel** unit: corrosion-proof.
- Rotating flange in lower part** DN80 for connection to the drain column (not included).
- Overall width 660 mm** to pass easily through doors.
- Wide opening at 90° from the cover** for easy unit maintenance
- Bracket** held in open position for more safety
- Reversible cover.**
- DN100 stainless steel **vent.**



Ref. EDGS02I

above ground installation
Basement or cellar, restaurants, community kitchens



EDGSI range	Nominal size l/s	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Separator Volume
EDGS02I	2	1250	660	1120	970	900	214	110	158	735

Selection table

Canteen	Restaurant	
	1 service/day	2 services/day
≤ 450	≤ 110	≤ 220

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease collector

Kitchen dishwashing sink special

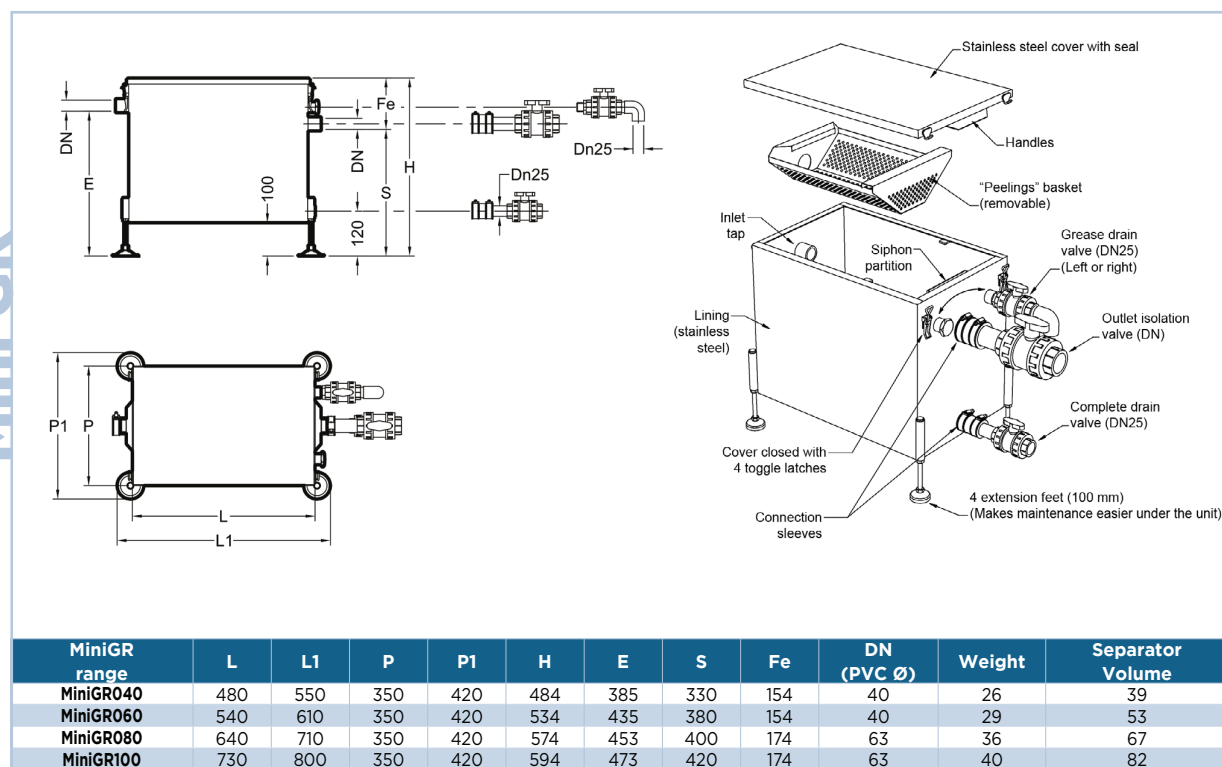
The Mini GR-type grease collector traps grease and solid waste in wastewater from kitchen dishwashing sinks.

- 304L stainless steel tank.
- Cover with seal.
- Handle.
- Removable "peelings" basket.
- Toggle latch closing.
- Extension feet.
- Connection sleeves.
- DN25 grease drain valve.
- DN32 or 50 outlet isolation valve depending on model.
- DN25 complete drain valve.



Grease and/or
starch separators

Mini GR



Dimensions are in millimetres, weights in kilograms, volumes in litres.

Maintenance: it must be daily depending on the pollutant load sent to the unit. To help retrieve surface oils, a drain valve is supplied with the unit.

Benefits...

- Small size for easy installation under the sink.
- Easy cleaning under the unit thanks to 4 extension feet; guaranteed hygiene.
- The drain valves allow quick and easy maintenance.





Grease separators

above ground installation special

Grease and/or starch separators

- Tank in 100% recyclable rotomoulded polyethylene with lifting rings
- Inlet and outlet in DN110 PVC.
- Sludge trap to retrieve heavy materials.
- Light cover in polyethylene with seal, stainless steel screws.

Operation:

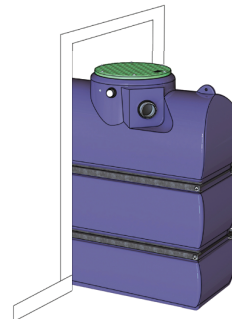
Traps grease and sludge in the wastewater of restaurants and community kitchens.

Benefits:

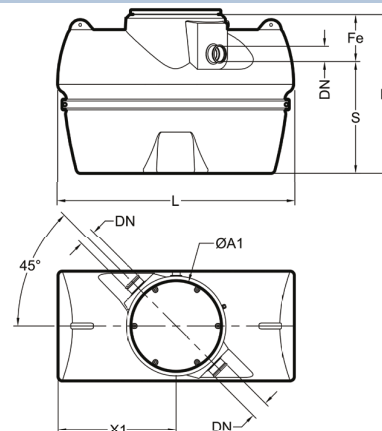
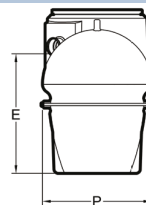
Specially designed to be installed in a raised position.
Overall width under 800 mm: can fit through a standard door.
Makes it easier to install in an existing basement.

Product benefits

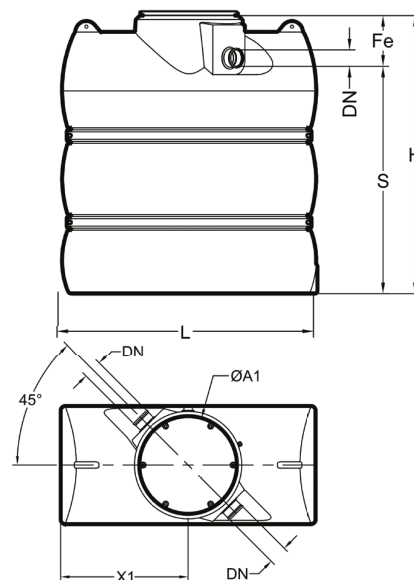
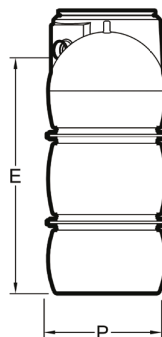
Fits through the door!
> 80 cm <



Size 2



Size 4



HG05E range	Nominal size l/s	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1
										sludge trap	Separator		
HG0502E	2	1620	773	1089	814	764	325	110	62	200	480	620	810
HG0504E	4	1628	773	1770	1495	1445	325	110	116	400	1200	620	814

Options

1. Visual and audible grease alarm p. 70-71

HG0502E	HG0504E
X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.



Grease separators

above ground installation special

- Tank in 100% recyclable rotomoulded polyethylene with lifting rings.
- Inlet and outlet in DN110 PVC.
- Sludge trap to retrieve heavy materials.
- Light cover (for pedestrian traffic) in polyethylene with seal, stainless steel screws.
- DN80 PVC drain column with symmetrical connection.
- DN110 PVC vent.

Operation:

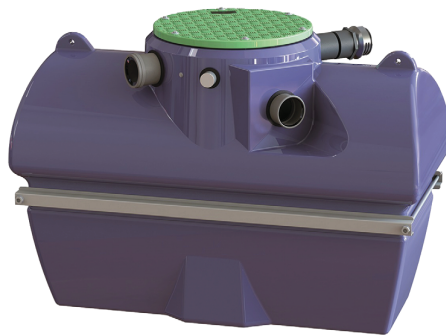
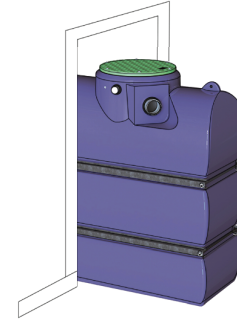
Traps grease and sludge in the wastewater of restaurants and community kitchens.

Benefits:

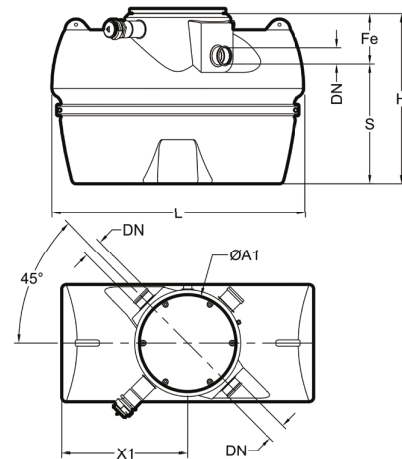
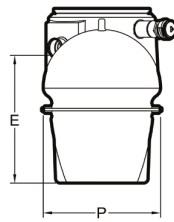
Specially designed to be installed in a raised position.
Overall width under 800 mm: can fit through a standard door. Makes it easier to install in an existing basement.

Product benefits

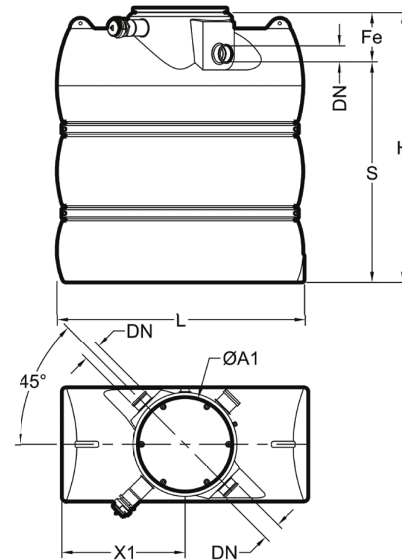
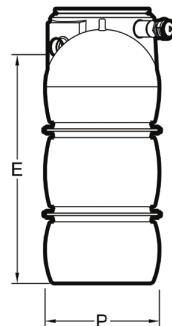
Fits through the door!
> 80 cm <



Size 2



Size 4



HG10E range	Nominal size l/s	L	P	H	E	S	Fe	DN (PVC Ø)	Weight	Volume		ØA1	X1
										sludge trap	Separator		
HG10002E	2	1620	773	1089	814	764	325	110	71	200	480	620	810
HG10004E	4	1628	773	1770	1495	1445	325	110	123	400	1200	620	814

Options

1. Visual and audible grease alarm p. 70-71

HG1004E	HG1002E
X	X

Dimensions are in millimetres, weights in kilograms, volumes in litres.