Pre-treatment and treatment of water 2016

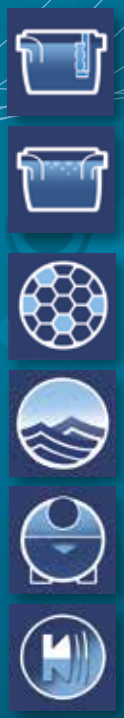
Oil and grease separators

Stormwater treatment units

Dry-docks units

Sludge traps

Options



Techneau

Demonstration of our involvement in sailing sports: The Class 40 Techneau sailing boat has participated in the famous transatlantic solo race "Route du Rhum 2010".

Techneau a competence centre at your service

Located in Normandy, on an industrial site of 8 hectares, Techneau has developed internally all skills for design, development, manufacture and commercialization of its products.

Acknowledged industrial expertise

In 1991 the Techneau adventure began focusing on the creation and development of innovative products destined for the water pre-treatment, pumping, and flow regulation sector.

In 1998, Techneau created the **Plasteau** company in order to jointly develop the production of rotomoulded polyethylene hollow tanks.

Specialized in the production of on-piece hollow bodies of large volume dedicated to the management and reclamation of rain water for the industry sector and local communities, Plasteau is equipped with 4 machines **able to produce spheres of up to dia. 3.5 m.**

The industrial boiler manufacturer, Chaudreau, was created in 2001. This allowed Techneau to industrialize its production tool, while keeping flexibility on customization.

Chaudreau has been continuing its development to become within 12 years a major and well-known actor in the production of:

- moulds for plastic and polyester industries,
- hydraulic equipment (penstocks and flow controllers),
- units for water pre-treatment and treatment,
- floor equipment (manhole covers, stainless steel siphons and gutters)

The production site represents 4500 m², it is equipped with 13 overhead cranes and is composed of:

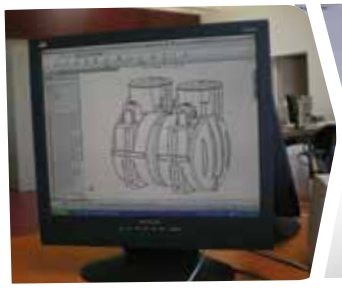
- 1 plasma cutting bench of 2 x 4 m
- 1 CNC nibbler
- 4 half cranes
- 1 welding column & boom manipulator
- 1 stainless steel treatment unit

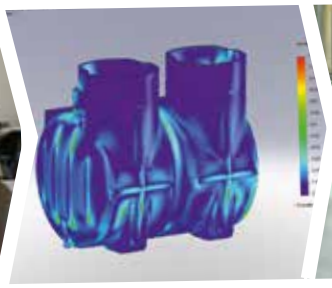
Industrial boiler making

Bi-component coating application unit

A Research & Development department Inventing tomorrow's products...

Our Research and Development department is composed of 15 technicians and engineers in charge of **studying your needs and anticipating tomorrow's products.**
The Quality unit tests and validates each product before releasing it to the market.





Sales Department
for mainland France

Tel. : 02 33 56 62 08

Sales Department
for EXPORT

Tel. : +33 2 33 56 66 43

A Sales Department as close as possible to your expectations...

12 area managers together with 7 sedentary technical salesmen are available to study and propose the most relevant technical solutions for your projects and jobsites.

With **more than 25,000 technical offers per year,** Techneau remains close to its initial commitment: guarantee you a precise **customized study within a 24 to 48 hours** deadline.

A large stock at your disposal for an even more efficient responsiveness...

70 references, representing more than 350 units, are always on stock ready to be dispatched on the very same day as your order.

Polyester workshop

Rain water treatment

Techneau, a multi-material competence

Steel

Wide and **deep** range of fully **adaptable** products

GRP (polyester)

Designed **corrosive** and **salty environment**

Specific installation constraints for every material

Steel, stainless steel, polyester or polyethylene, the material for a separator is defined on the basis of its installation constraints. Below are **our recommendations** for the choice of the material according to installation requirements

	Recommended material*			
Installation	Polyethylene	Painted steel	Polyester	Stainless steel
Green areas	•		•	
Groundwater table		•	•	•
Roads 15 to 250 kN	•		•	
Road 400 kN		•	•	
Above-ground installation		•	•	•
Installation in saline environment			•	•
Corrosive effluent Ph <3	•		•	•

*Techneau water treatment apparatuses are made (according to catalogue numbers) of:

- recyclable **rotomoulded polyethylene**
- **galvanized boiled steel** S235JR peened SA 2,5, painted / with internal / external bi-component coating based on polyamid adduct/epoxy resins,
- **polyester,** by orthogonal filament winding
- **stainless steel** 304L (only for grease separators and mini separators of NS between 0,75 and 15 l/s)

Stainless steel

Perfect for **corrosive effluents** from **food processing industry** and **catering**.

Polyethylene

Mono-bloc pieces for outstanding **price/performance** ratio

According to its advantages

Each material has its own characteristics, which must be taken into consideration before making a decision

	Recommended material*			
Criterias	Polyetylene	Painted steel	Polyester	Stainless steel
Handling	☺☺☺	☺☺	☺	☺☺
Storage	☺☺☺	☺	☺☺	☺☺☺
Installation easiness	☺☺☺	☺☺	☺☺☺	☺☺☺
Mechanical resistance	☺☺	☺☺☺	☺☺☺	☺☺☺
Maintenance	☺☺☺	☺☺	☺☺☺	☺☺☺
Corrosion resistance	☺☺☺	☺☺	☺☺☺	☺☺☺
Availability	☺☺☺	☺☺☺	☺	☺
Custom-tailored production		☺☺☺	☺☺☺	☺☺☺

☺☺☺: highly adapted ☺☺: adapted ☺: poorly adapted

Techneau, water engineering department
A variety of services

A polyester workshop

A polyethylene workshop

Boiler workshop

A 4 hectares storage area

A sales department to provide you with information or guide you in choosing your product

Logistic solutions tailored to your needs

Your sales advisors

Sales department

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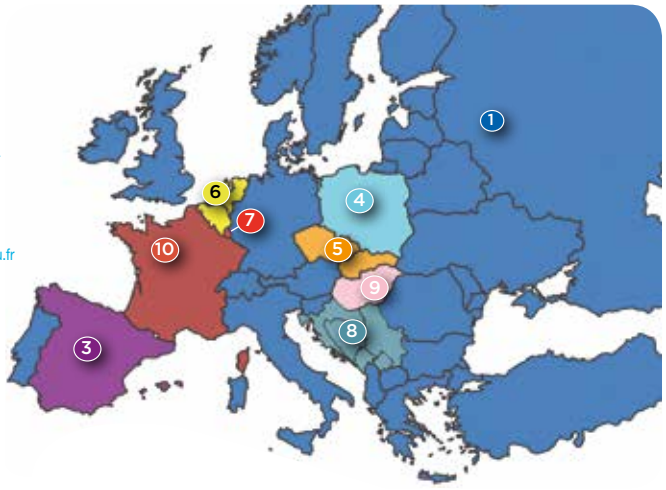

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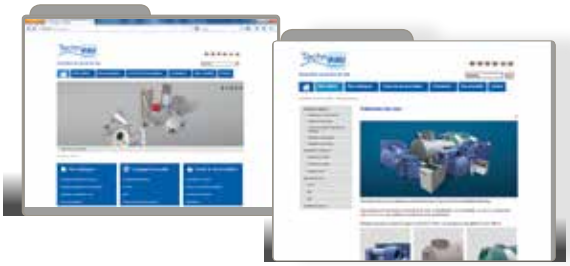
Techneau, for **25 years** pleased to help you

A new website

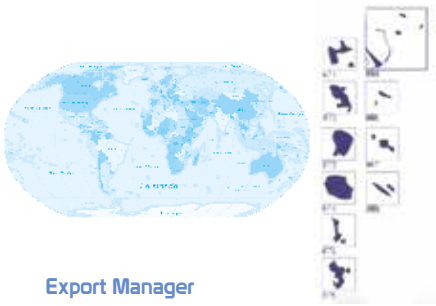


- more calculation software
- our catalogues can be accessed online and printed out
- Information on quality: discover our 9001 certificate and environmental measures

Access the best of water treatment in one single click **www.techneau.com**

Dedicated marketing tools

Export department



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are attentive to your needs.

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Floor equipments Department

Rainwater treatment:
Oil separators or stormwater treatment units: the challenges of treatment

We must now deal with different types of pollution and pollutants requiring adapted material for treating stormwater the best way.

1 | Few job site references...

Logistics centres

GRP storm water treatment units 80 l/s (HL = 2m/h Town of Poitiers (FR-86)

Steel storm water treatment unit Goodman site in Douai (FR-59)

Rectangular steel separators before shipment in our facility

Urban and suburban transport networks

Steel oil separator 200 l/s in Toulouse ring (FR-31)

Steel oil separator 600 l/s - Peugeot Factory in Etuppes (FR-25)

Steel oil separator in scrapping yard Pamplona (Spain)

Commercial premises

GRP oil separator 560 l/s in Gran Canarias Airport - Islas Canarias (Spain)

Industrial sites

GRP oil separators inner harbour - Réunion Island (FR-97)

GRP oil separator 135 l/s Karlovy Vary ring (Czech Republic)

Storm water treatment unit for steel complex Corrugados Getafe (Spain)

Business areas

Tailor made GRP oil separator for Slovakian motorway (Slovak Republic)

Tailor made steel oil separator - Nuclear plant EPR Flamanville (FR-50)

Stormwater treatment:
Technical equipment for specific applications

The illustration below presents our two main product families:

Sludge traps and **oil separators**

Stormwater treatment units

2 | Treatment ranges of products

3 | Uses

This equipment can be used on the following sites:

Petrol station
Washing area
Covered car park
Hydrocarbon storage area
Technical area polluted
with hydrocarbons

or

Uncovered car park
Commercial area
Industrial park
Urban area
Logistic area
Road, highway
Port area ***(1)***.

(1) *The stormwater treatment unit can be developped on specific projects such as dry-docks for boats. Its configuration will change because the requested efficiency treatment is different than the one from jobsites above. The products will be identified under following description: Treatment units of dry-docks.*

2016 Range

Grease separators

Grease separators or grease and starch separators:
The challenges of treatment ____ p. 58
Regulations ____ p. 59
How to choose ____ p. 60-61

Grease separators with:
- **sludge trap,** polyethylene ____ p. 62-63
- **sludge trap,** stainless steel ____ p. 64
- **sludge trap + emptying column,** polyethylene ____ p. 65-66
- **sludge trap + emptying column,** stainless steel ____ p. 67
- **without sludge trap,** polyethylene ____ p. 68-69

Grease and starch separators with:
- **sludge trap,** polyethylene ____ p. 70
- **sludge trap + emptying column,** polyethylene ____ p. 71
- **with or without emptying column,** polyethylene ____ p. 72

Grease separators:
- **above-ground separator,** stainless steel ____ p. 73

Mini grease separator:
connection under sink ____ p. 74-75

Grease and starch separators: the challenges of treatment

1 - Introduction

Waste water from food preparation contains greases and oils of animal or vegetable origin. They are also the cause of heavy deposits in sewers. These deposits disturb the proper operation of the waste water collection networks and treatment plants and generate high maintenance costs for authorities.

Grease deposits are the cause of:

- **clogging and/or plugging off of sewer pipes** (this can represent 30 to 50% of interventions).

- **Difficulties in grease treatment by sewage plants leading to cost increases:** greases are poorly biodegradable and generate additional chemical oxygen demand. This requires increased ventilation of wastewater treatment lagoon entailing additional operating costs,

- **Nauseating odours as well as toxic gases and pipeline corrosion:** grease build-up in the sewers create conditions conducive to fermentation and emission of toxic gases including hydrogen sulphide.

- **Imbalance of aquatic fauna and flora:** greases discharged into the natural environment cause an additional consumption of oxygen dissolved in water generating an imbalance in fauna and flora and contribution to the development of filamentous algae.

A grease separator collects solid waste and grease before entering the sewers and thus any water pollution and damage of public wastewater treatment system is avoided.

A study carried out by CNIDEP in 2007 highlighted that "in the case of slaughterhouses, catering companies, restaurants, food-processing companies, 95% of the greases contained in effluents resulting from manufacturing originated in 4 processes:

- water cooking (54%), cooling, (4%), hand dish-washing (30%) and machine dish-washing (7%)

2 - Regulations

Article L 13 31 10 of the new French Public Health Code provides that:

"Any discharge of wastewater other than domestic in the public sewage system shall be previously authorized by the local authority to which the pipe work collecting this water belongs."

The clean water regulation and regional healthcare regulation should provide the rules for greasy waste management, namely the installation of a pre-treatment device. This requirement is increasingly imposed by municipal bylaws.

Grease and starch separators: regulations

2.1 - Standards

Grease separators manufacturing is governed by various standards, notably the French standard NF EN 1825-1, supplemented by the NF P 16-500-1/CN and NF EN 1825-2 standard. The separators are subject to CE Marking according to procedures laid down in annex ZA.

As of July 1, 2013, the DOP is compulsory. Every product shall be accompanied by its DOP including the CE marking as well.

2.2 - Determination of nominal size (for NS ≥ 2)

A – Sludge trap

The volume of sludge traps shall be **at least** **100 x NS** in litres

B – Separation chamber

Nominal size NS	Minimum surface of grease separation zone m^2	Minimum volume of grease separation zone m^3	Minimum volume of grease collection area m^3
TN	0.25 x TN	0.24 x TN	0.04 x TN

The volume of separation chamber can also be calculated as follows

Useful volume (litres) = **240 x NS**

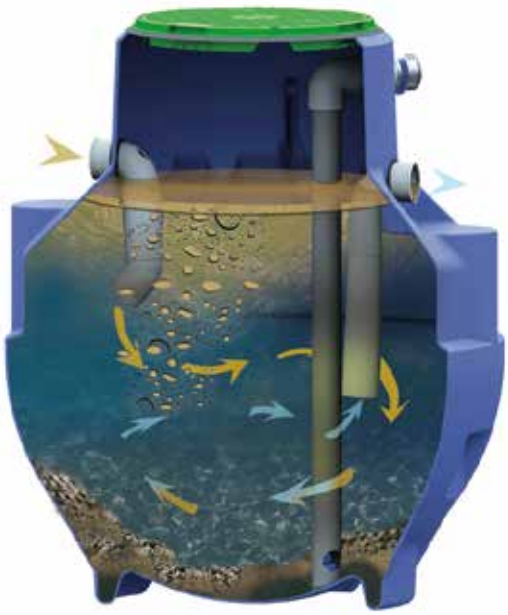
3 - Hydro-flow

Waste water from food industries and/or restaurants contains greases which built-up have a PH between 1 and 3. They produce acids which damage epoxy based organic coatings.

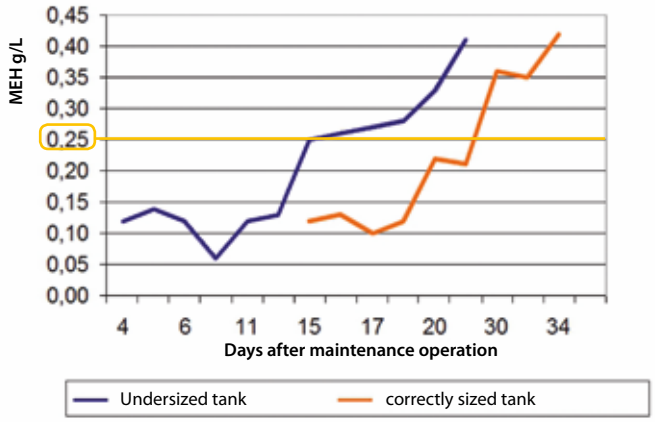
That is why Techneau uses materials insensitive to corrosion to produce grease separators.

According to the specific constraints of the jobsite, the grease separator will be made of:

Rotomoulded polyethylene OR polyester OR stainless steel
(304L or 316L stainless steel



Evolution of discharges



Choosing the right size of a grease and starch separator is essential
An undersized separator will generate discharge values higher than 250 mg/l after 16 operating days only.

Grease separators with sludge trap: What size to choose?

2.1 - Calculation method according to NF EN 1825-2 standard

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

$$NS = \text{Number of meals} \times V\ \text{meals} \times fd \times ft \times fr \times \frac{fq}{(3600 \times \text{daily operating time})}$$

fd: density factor; ft: temperature factor; fr: cleansing agent factor; fq: peak factor

2.2 - Determinant factors according to NF EN 1825-2

Factors	Restaurant			Hospital	Canteen (no food preparation)
	1 service	2 services	Hotel and restaurant		
Daily operation time (h)	8	16	16	16	8
Temperature factor (1: T°C< 60°C) (ft)	1	1	1	1	1
Cleansing agent factor/ 1,3 Presence of cleansing agents (fr)	1,3	1,3	1,3	1,5	1,3
Peak factor (fq)	8,5	8,5	5	13	20
Base V / meal (litres)	50	50	100	20	5

Notes:
ft considered = 1 (T°C < 60°C); if T°C > 60°C, multiply NS by 1.5; for the same number of meals, the Nominal Size is inversely proportional to the diary activity duration.

2.3 - Selection table for grease separators with sludge trap

Restaurant (2)			Hospital	Establishment professional cooking	Canteen (no food preparation)	Agri-food industry and Specific industrial applications	NS	Grease separator with sludge trap			
Number of meals								Polyethylene		Stainless steel	
1 service	2 services	Hotel and restaurant	Number of meals / day					Without discharge column	With discharge column	Without discharge column	With discharge column
≤ 52	≤ 104	≤ 89	≤ 148	≤ 101	≤ 222		1	YG0500E	YG1000E	BDG01I	BDGA01I
≤ 78	≤ 156	≤ 133	≤ 222	≤ 151	≤ 332		1,5	YG0501E	YG1001E	BDG01I	BDGA01I
≤ 104	≤ 209	≤ 177	≤ 295	≤ 201	≤ 443		2	YG0502E	YG1002E	BDG02I	BDGA02I
≤ 156	≤ 313	≤ 266	≤ 443	≤ 302	≤ 665		3	YG0503E	YG1003E	BDG03I	BDGA03I
≤ 209	≤ 417	≤ 354	≤ 591	≤ 403	≤ 886		4	YG0504E	YG1004E	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	Ask us	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	-	-		
≤ 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 any other use ask our design office

Grease and/or starch separators: What size to choose?

2.4 - Selection table for grease and starch separators

Restaurant (1)			Hospital	Establishment Large-scale kitchen	Specific industrial applications	NS	Grease and starch separator with sludge trap			
Number of meals							Polyethylene		Stainless steel	
1 service	2 services	Hotel and restaurant		Number of meals / day			Without discharge column	With discharge column	Without discharge column	With discharge column
≤ 52	≤ 104	≤ 89	≤ 148	≤ 101	Ask us	1	YG2000E	YG2500E	BDG01I + OSF010	BDGA01I + OSF010
≤ 78	≤ 156	≤ 133	≤ 222	≤ 151		1,5	YG2002E	YG2502E	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	≤ 738	≤ 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 / day.*

3 - Selection table for starch separators

The choice of a starch separator depends on the number of meals served per day or on the quantity of potatoes processed by the machine per day.

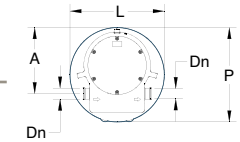
Number of meals/day	Mass of potatoes/day	Size	Starch separator	
			Without discharge column	With discharge column
≤ 400	80 kg	1	YG3000E	YG3500E
≤ 1000	200 kg	2	YG3002E	YG3502E
≤ 2500	500 kg	3	YG3003E	YG3503E
≤ 3000	600 kg	4	YG3004E	YG3504E
≤ 6000	1200 kg	5	EG3005C	EG3505C
≤ 7500	1500 kg	6	EG3006C	EG3506C

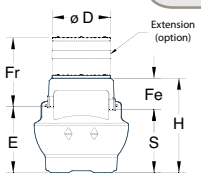
Grease separators with sludge trap

- Recyclable polyethylene tank produced by rotomoulding.
- PVC inlet and outlet or nitrile seals.
- Sludge trap which retains heavy material
- Polyethylene cover for pedestrian traffic, closed by stainless steel screws (with seal)

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

TechneauSphère

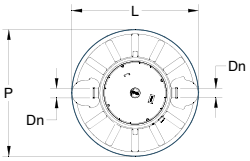


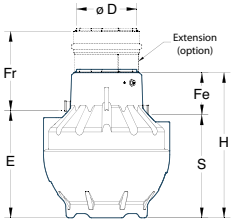


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	A	Weight	Useful volume		ø D	Optional extensions			
											Sludge trap	Separator		Ref.	Fr (Ht. fixed)	Ref.	Fr (Ht. fixed)
YG0500E	1	1000	1000	1000	698	668	332	110	700	27	100	240	620	PLA13555G*	502	PLA13556G*	702

*fixed extension (non telescopic)

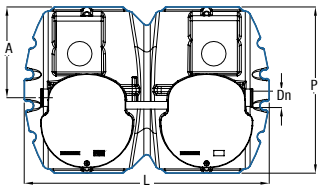


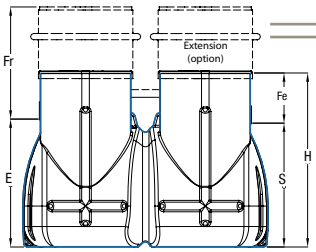


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	Weight	Useful volume		ø D	Optional extensions			
										Sludge trap	Separator		Ref.	Fr (fixed) or (mini /maxi)	Ref.	Fr (fixed) or (mini /maxi)
YG0501E	1,5	1200	1200	1230	880	830	400	110	37	150	510	620		550		750
YG0502E	2	1200	1200	1230	930	880	350	110	37	200	490	620	PLA13555G*	500	PLA13556G*	700
YG0503E	3	1200	1200	1540	1240	1190	350	110	52	300	730	620		500		700
YG0504E	4	1500	1500	1700	1275	1225	475	110	69	400	1100	770		675/875		855/1025
YG0505E	5	1500	1500	1700	1475	1425	275	160	72	500	1200	770	ETR47EF	475/675	ETR65EF	655/825
YG0506E	6	1500	1500	1965	1705	1655	310	160	95	600	1440	770		510/710		690/860

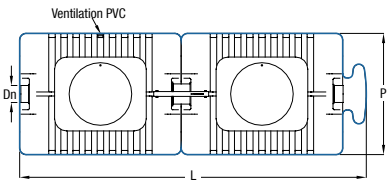
Ellipse

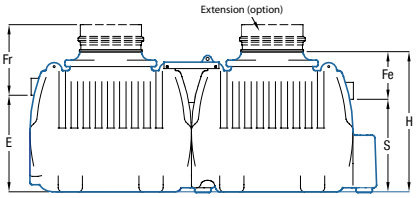




References	Nominal size	L	P	H	E	S	Fe	Dn	A	Useful volume		Weight	Optional extensions (x 2 units)			
										Sludge trap	Separator		Ht 700	Fr mini /maxi	Ht 1000	Fr mini /maxi
EG0508C	8	2400	1624	1700	1250	1210	490	160	887	800	2460	232		850/1150		900/1500
EG0510C	10	2400	1624	2072	1622	1582	490	160	887	1000	3090	254	RE207	850/1150	RE210	900/1500
EG0512C	12	2450	1700	2072	1532	1492	580	200	457	1200	2890	264		850/1150		900/1590

Aronde





References	Nominal size	L	P	H	E	S	Fe	Dn	Useful volume		Weight	Optional extensions (x 2 units)			
									Sludge trap	Separator		Ht 250 to 450mm	Fr mini maxi	Ht 430 to 600mm	Fr mini maxi
DG20E	20	4292	1500	1730	1140	1070	660	200	2000	4800	318	ETR47ET	840 1040	ETR65ET	1020 1190

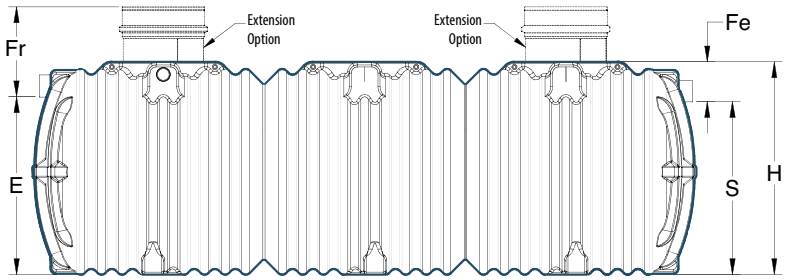
Dimensions are given in mm, weights in kg, volumes in litres.

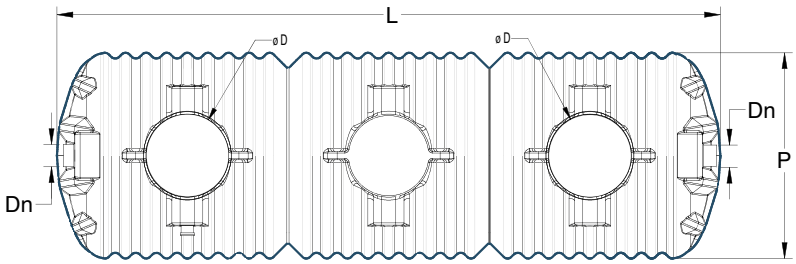
Grease separators with sludge trap

- Polyethylene **tank** produced by rotomoulding
- **Operation:** retains sludge and grease contained in kitchen wastewater and thus prevents sewer pipes clogging.
- **Sludge trap** which retains heavy material
- PVC sleeve or nitrile seals **inlet/ outlet**
- Polyethylene **cover** for pedestrian traffic, with quarter-turn closure and security screws

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

DG





Ref Range DG	Nominal size	L	P	H	E	S	Fe	Dn	Volume		Weight	Optional extensions (2 units)			
									Sludge trap	Separator		Ht 250 to 450mm	Fr mini / maxi	Ht 430 to 600mm	Fr mini / maxi
DG30E	30	4364	1943	2010	1640	1570	440	250	3000	7200	476	ETR47ET	1890 2090	ETR65ET	2070 2240
DG40E	40	6265							4000	10040	665				

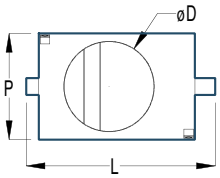
Dimensions are given in mm, weight in kg, volume in litres

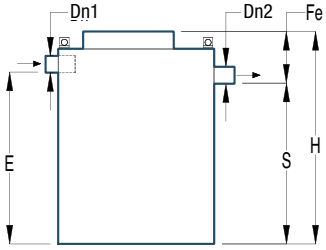
Grease separators
with sludge trap

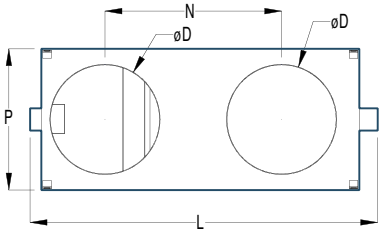
- 304L stainless steel **tank**
- **Operation:** retains sludge and grease contained in the wastewater from restaurants, large-scale kitchens or food processing plants.
- **Sludge trap** which retains heavy material
- PVC sleeve or nitrile seals inlet/outlet
- **1 or 2 manholes according to the model**, for installation under castings, diameter 600 or 800 mm.

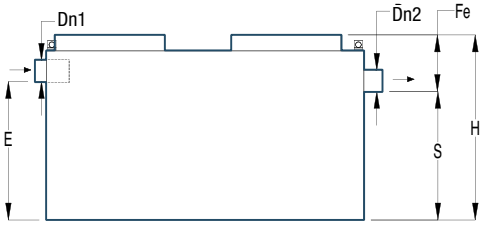
OPTIONS
- **304L stainless steel cover** see p. 85
- **Visual and audible grease alarm** see p. 83

BDG









Ref Range BDG	Nominal size	L	P	H	E	S	Fe	Dn1 inlet	Dn2 outlet	Volume		Weight	øD	Optional extensions
										Sludge trap	Separator			
BDG01I	01	1210	680	850	590	520	330	100	100	100	240	110	580	1
BDG02I	02	1210	680	1360	1100	1030	330	100	100	200	480	161	580	
BDG03I	03	1690	680	1360	1100	1030	330	100	100	300	720	202	580	2
BDG04I	04	1690	750	1570	1310	1240	330	100	100	400	960	315	580	
BDG06I	06	2190	1000	1450	1120	1050	400	150	150	600	1440	420	780	
BDG08I	08	2190	1000	1810	1480	1410	400	150	150	800	1920	510	780	
BDG10I	10	2190	1200	1910	1530	1460	450	200	200	1000	2400	605	780	
BDG15I	15	2360	1480	2110	1730	1660	450	200	200	1500	3600	780	780	

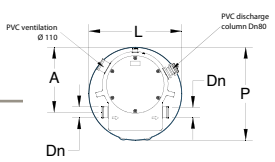
Dimensions are given in mm, weight in kg, volume in litres

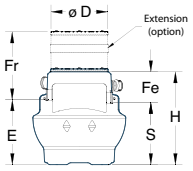
Grease separators
with sludge trap and discharge column

- Recyclable polyethylene **tank** produced by rotomoulding
- PVC inlet and outlet or nitrile seals
- **Sludge trap** which retains heavy material
- **Discharge column(s)** DN 80 with symmetric coupling
- Polyethylene **cover** for pedestrian traffic, closed by stainless screws (with seal)
- PVC **vent** DN 110

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

TechneauSphère

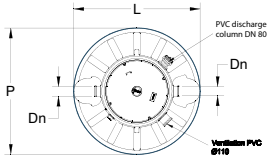


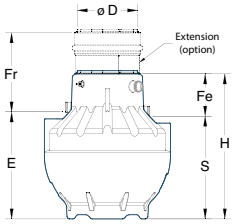


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	A	Weight	Useful volume		ø D	Optional extensions			
											Sludge trap	Separator		Ref.	Fr (Ht. fixed)	Ref.	Fr (Ht. fixed)
YG1000E	1	1000	1000	1000	698	668	332	110	700	33	100	240	620	PLA13555G*	502	PLA13556G*	702

*Fixed extension (non telescopic)

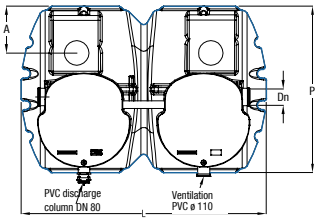


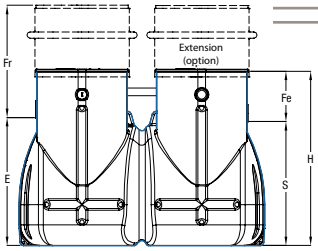


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	Weight	Useful volume		ø D	Optional extensions			
										Sludge trap	Separator		Ref.	Fr (fixed) or (mini /maxi)	Ref.	Fr (fixed) or (mini /maxi)
YG1001E	1,5	1200	1200	1230	880	830	400	110	43	150	510	620		550		750
YG1002E	2	1200	1200	1230	930	880	350	110	53	200	490	620	PLA13555G*	500	PLA13556G*	700
YG1003E	3	1200	1200	1540	1240	1190	350	110	59	300	730	620		500		700
YG1004E	4	1500	1500	1700	1275	1225	475	110	76	400	1100	770		675/875		855/1025
YG1005E	5	1500	1500	1700	1475	1425	275	160	79	500	1200	770	ETR47EF	475/675	ETR65EF	655/825
YG1006E	6	1500	1500	1965	1705	1655	310	160	102	600	1440	770		510/710		690/860

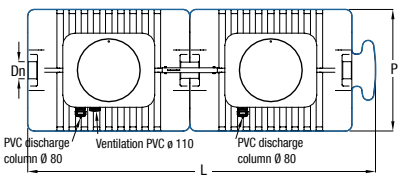
Ellipse

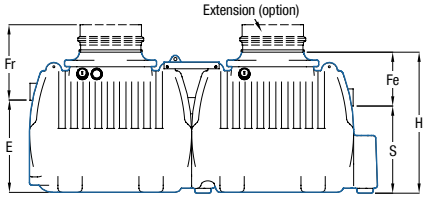




References	Nominal size	L	P	H	E	S	Fe	Dn	A	Useful volume		Weight	Optional extensions (x 2 units)			
										Sludge trap	Separator		Ht 700	Fr mini /maxi	Ht 1000	Fr mini /maxi
EG1008C	8	2400	1624	1700	1250	1210	490	160	887	800	2460	237		850/1150		900/1500
EG1010C	10	2400	1624	2072	1622	1582	490	160	887	1000	3090	259	RE207	528/1128	RE210	900/1500
EG1012C	12	2450	1700	2072	1532	1492	580	200	457	1200	2890	269		618/1218		990/1590

Aronde





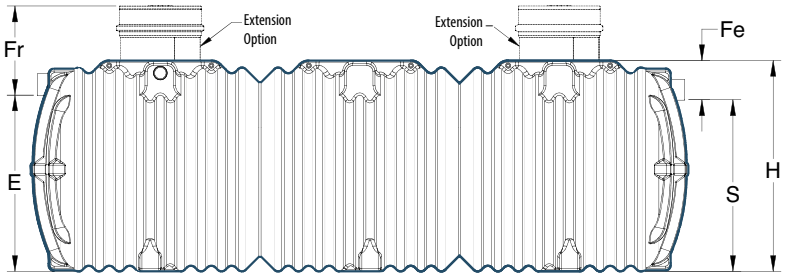
References	Nominal size	L	P	H	E	S	Fe	Dn	Useful volume		Weight	Optional extensions (x 2 units)			
									Sludge trap	Separator		Ht 250 to 450mm	Fr mini maxi	Ht 430 to 600mm	Fr mini maxi
DGA20E	20	4292	1500	1730	1140	1070	660	200	2000	4800	318	ETR47ET	840/1040	ETR65ET	1020/1190

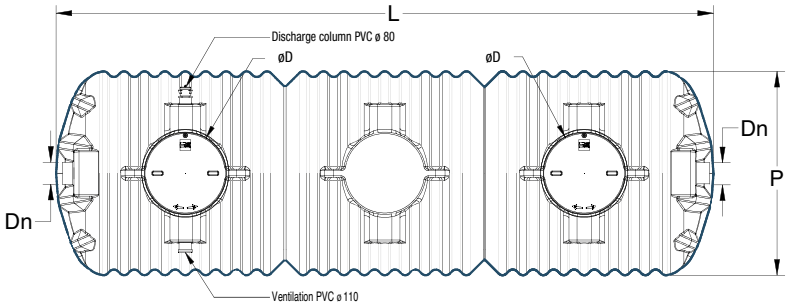
Dimensions are given in mm, weight in kg, volume in litres

Grease separators
with sludge trap and discharge column

- Recyclable polyethylene **tank** produced by rotomoulding with hoisting rings and tie downs
- **Operation:** retains sludge and grease contained in kitchen wastewater and thus prevents sewer pipes clogging.
- **Sludge trap** which retains heavy material
- **Grease inlet and outlet** (PVC with nitrile seals)
- **2 polyethylene covers** for pedestrian traffic, with quarter-turn closure and security screws
- **Emptying column** DN 80 with symmetric coupling
- PVC **vent** DN 110

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83





Ref Range DGA	Nominal size	øD	L	P	H	E	S	Fe	Dn	Volume		Weight	Optional extensions			
										Sludge trap	Separator		Ht. 250 to 450mm	Fr mini maxi	Ht. 430 to 600mm	Fr mini maxi
DGA30E	30	780	4364	1943	2010	1640	1570	440	250	3000	7200	482	ETR47ET	1890 2090	ETR65ET	2070 2240
DGA40E	40		6265							4000	10040	671				

Dimensions are given in mm, weight in kg, volume in litres

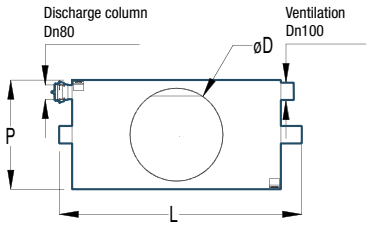
Grease separators
with sludge trap and emptying column

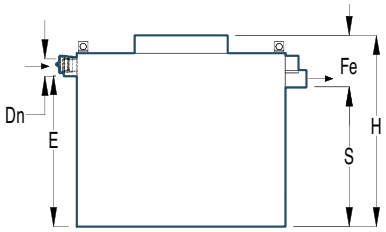
- 304L stainless steel **tank**
- **Operation:** retains sludge and grease contained in the wastewater from restaurants, large-scale kitchens or food processing plants.
- **Sludge trap** which retains heavy material
- **1 or 2 manholes according to the model,** for installation under castings, diameter 600 or 800 mm.
- Stainless steel **emptying** column 80 with symmetric coupling.
- Stainless steel **vent** DN 100

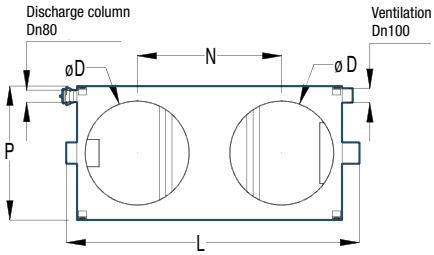
OPTIONS

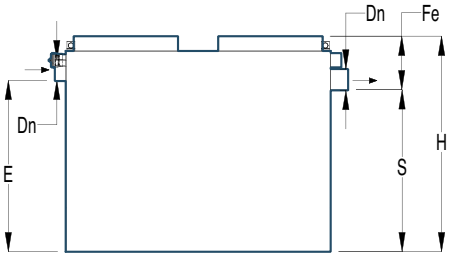
- **Stainless steel cover** see p. 85
- **Visual and audible grease alarm** see p. 83

BDGA









Ref Range BDGA	Nominal size	øD	L	P	H	E	S	N	Fe	Dn Inlet/outlet	Volume		Weight
											Sludge trap	Separator	
BDGA01I	01	580	1260	640	890	640	570		320	100	100	240	105
BDGA02I	02	580	1510	680	1190	940	870	-	320	100	200	480	157
BDGA03I	03	580	1310	880	1510	1260	1190		320	100	300	720	196
BDGA04I	04	580	1690	1000	1410	1160	1090	780	320	100	400	960	242
BDGA06I	06	780	2190	1000	1610	1280	1210	1080	400	150	600	1440	430
BDGA08I	08	780	2190	1000	1960	1630	1560	1080	400	150	800	1920	500
BDGA10I	10	780	2960	1250	1610	1230	1160	1550	450	200	1000	2400	634
BDGA15I	15	780	2590	1600	2070	1680	1620	1180	450	200	1500	3600	784

Dimensions are given in mm, weight in kg, volume in litres

Grease separators without sludge trap

- Recyclable polyethylene tank produced by rotomoulding.
- PVC inlet and outlet or nitrile seals.
- Sludge trap which retains heavy material
- Polyethylene cover for pedestrian traffic, closed by stainless steel screws (with seal)

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

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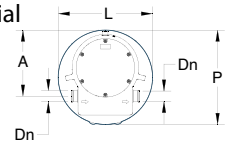
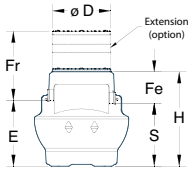
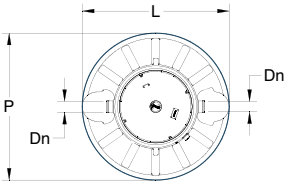


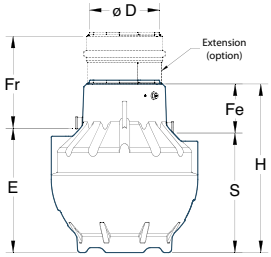


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	A	Weight	Useful volume Separator	ø D	Optional extensions Ref.	Optional extensions Fr (Ht. fixed)	Optional extensions Ref.	Optional extensions Fr (Ht. fixed)
YG1501E	1	1000	1000	1000	698	668	332	110	700	27	340	620	PLA13555G*	502	PLA13556G*	702

*fixed extension (non telescopic)

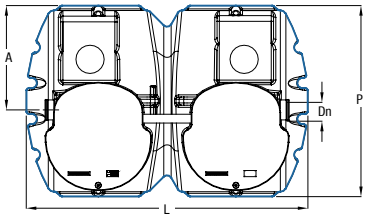


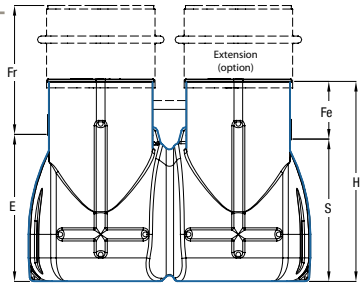


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	Weight	Useful volume Separator	ø D	Optional extensions Ref.	Optional extensions Fr (fixed) or (mini/maxi)	Optional extensions Ref.	Optional extensions Fr (fixed) or (mini/maxi)
YG1503E	3	1200	1200	1230	930	880	350	110	37	720	620	PLA13555G*	500	PLA13556G*	700
YG1504E	4	1200	1200	1540	1240	1190	350	110	52	1030	620		500		700
YG1506E	6	1500	1500	1700	1275	1225	475	160	71	1500	770	ETR47EF	675/875	ETR65EF	855/1025
YG1508E	8	1500	1500	1965	1705	1655	310	160	95	2040	770		510/710		690/860

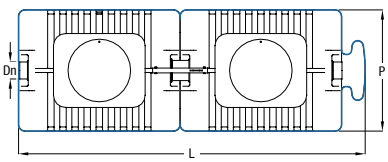
Ellipse

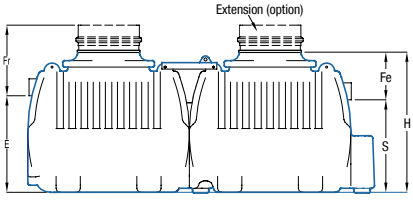




References	Nominal size	L	P	H	E	S	Fe	Dn	A	Useful volume Separator	Weight	Optional extensions (x 2 units) Ht 700	Fr mini /maxi	Ht 1000	Fr mini /maxi
EG1512C	12	2400	1624	1700	1160	1120	580	200	457	3360	224	RE207	940/1240	RE210	990 /1590
EG1516C	16	2450	1700	2072	1532	1492	580	200	457	4060	243				

Aronde





References	Nominal size	L	P	H	E	S	Fe	Dn	Useful volume Separator	Weight	Optional extensions (x 2 units) Ht 250 to 450mm	Fr mini /maxi	Ht 430 to 600mm	Fr mini /maxi
G14E	14	2292	1500	1730	1140	1070	660	160	3400	166	ETR47ET	840/1080	ETR65ET	1020/1190
G28E	28	4292	1500	1730	1140	1070	660	200	6800	318				

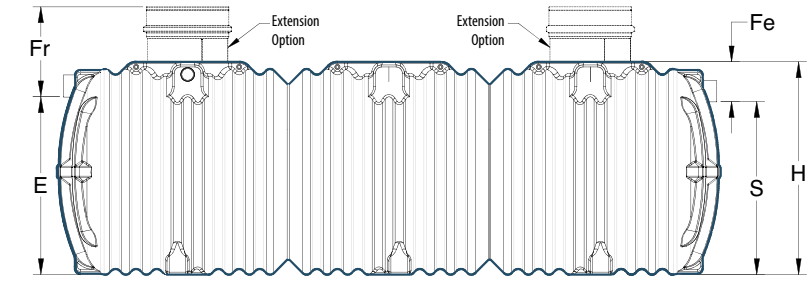
Dimensions are given in mm, weights in kg, volumes in litres.

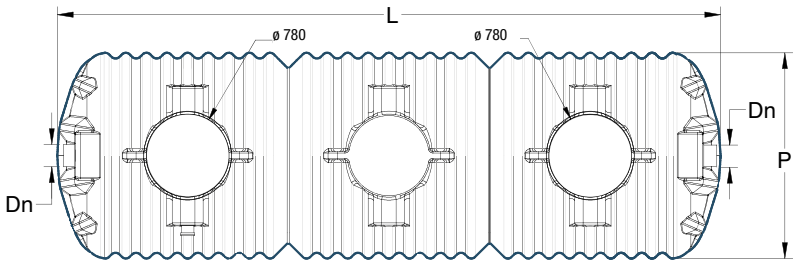
Grease separators
without sludge trap

- Recyclable polyethylene **tank** produced by rotomoulding with hoisting rings.
- **Operation:** retains sludge and grease contained in kitchen wastewater and thus prevents sewer pipes clogging.
- **Grease inlet and outlet** (PVC with nitrile seals)
- **2 polyethylene covers** for pedestrian traffic, with quarter-turn closure and security screws
- PVC **vent** DN 110

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

GE TN 40





Ref Range GE	Nominal size	L	P	H	E	S	Fe	Dn	Volume Separator	Weight	Optional extensions (2 units) Ht 250 to 450mm	Fr mini / maxi	Ht 430 to 600mm	Fr mini / maxi
G40E	40	4364	1943	2010	1640	1570	440	200	10200	482	ETR47ET	1890 2090	ETR65ET	2070 2240

Dimensions are given in mm, weight in kg, volume in litres

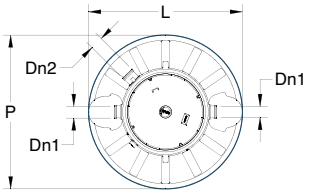
Grease and starch separators with sludge trap

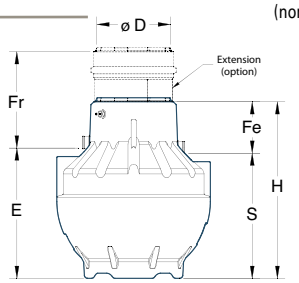
- Recyclable polyethylene **tank** produced by rotomoulding
- PVC inlet for greases (Dn1) and outlet or nitrile seals
- **PVC sleeve (Dn2)** inlet for starch
- Brass **spray nozzle** 15/21 for foam draw-down
- **Polyethylene cover** with seal for pedestrian traffic closed with stainless steel screws.
- PVC **vent** DN 110

OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

TechneauSphère

*fixed extension (non telescopic)

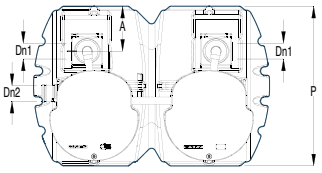


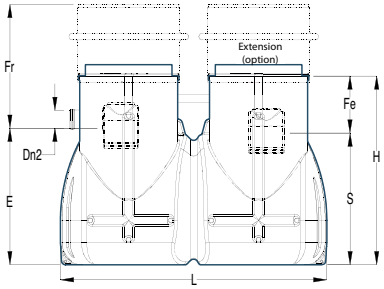


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn1	Dn2	Weight	Useful volume		ø D	Optional extensions			
											Sludge trap	Separator		Ref.	Fr (fixed) or (mini /maxi)	Ref.	Fr (fixed) or (mini /maxi)
YG2000E	1	1200	1200	1230	930	880	350	110	110	37	100	560	620	PLA13555G*	500	PLA13556G*	700
YG2002E	2	1200	1200	1540	1240	1190	350	110	110	53	200	830	620		500		700
YG2003E	3	1500	1500	1700	1275	1225	475	110	110	70	300	1200	770	ETR47EF	675/875	ETR65EF	855/1025
YG2005E	5	1500	1500	1965	1705	1655	310	160	110	95	500	1540	770		510/710		690/860

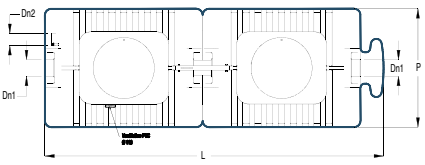
Ellipse

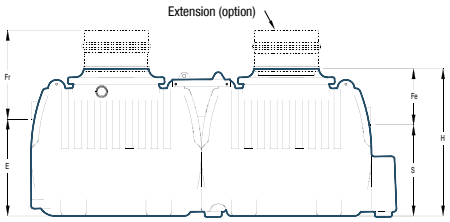




References	Nominal size	L	P	H	E	S	Fe	Dn1	Dn2	A	Useful volume		Weight	Optional extensions (x 2 units)			
											Sludge trap	Separator		Ht 700	Fr mini /maxi	Ht 1000	Fr mini /maxi
EG2006C	6	2400	1624	1700	1230	1190	510	160	160	457	600	2660	225	RE207	870/1170	RE210	920/1520
EG2007C	7	2450	1700								700	2600	235				
EG2008C	8	2400	1624	2072	1602	1562					800	3290	244				
EG2010C	10	2450	1700								1000	3120	254				

Aronde





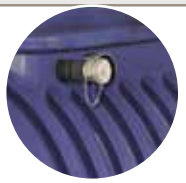
References	Nominal size	L	P	H	E	S	Fe	Dn1	Dn2	Useful volume		Weight	Optional extensions (x 2 units)			
										Sludge trap	Separator		Ht 250 to 450mm	Fr mini /maxi	Ht 430 to 600mm	Fr mini /maxi
GF15E	15	4292	1500	1730	1140	1070	660	200	160	1500	5300	319	ETR47ET	840/1040	ETR65ET	1020/1190

Dimensions are given in mm, weights in kg, volumes in litres.

Grease and starch separators with sludge trap and emptying column

- Recyclable polyethylene **tank** produced by rotomoulding
- PVC inlet for greases (Dn1) and outlet or nitrile seals
- **PVC sleeve (Dn2)** inlet for starch
- Brass **spray nozzle** 15/21 for foam draw-down
- **Polyethylene cover** with seal for pedestrian traffic closed with stainless steel screws.
- **Emptying column(s)** DN 80 with symmetric coupling
- PVC **vent** DN 110

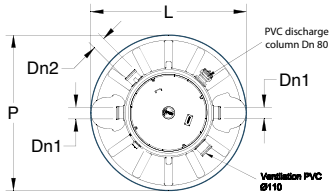
OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

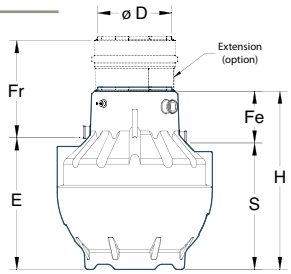

Detail of the emptying column

Reinforced model also available

*fixed extension (non telescopic)

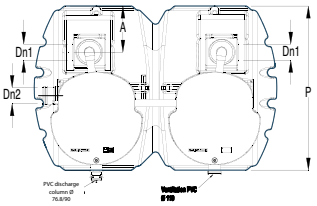
TechneauSphère

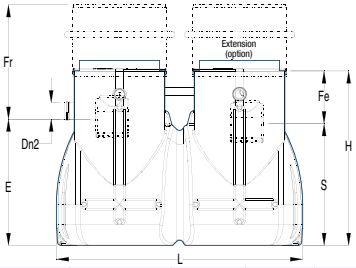




References	Nominal size	P	L	H	E	S	Fe	Dn1	Dn2	Weight	Useful volume		ø D	Optional extensions			
											Sludge trap	Separator		Ref.	Fr (fixed) or (mini /maxi)	Ref.	Fr (fixed) or (mini /maxi)
YG2500E	1	1200	1200	1230	930	880	350	110	110	44	100	560	620	PLA13555G*	500	PLA13556G*	700
YG2502E	2	1200	1200	1540	1240	1190	350	110	110	60	200	830	620		500		700
YG2503E	3	1500	1500	1700	1275	1225	475	110	110	77	300	1200	770	ETR47EF	675/875	ETR65EF	855/1025
YG2505E	5	1500	1500	1965	1705	1655	310	160	110	103	500	1540	770		510/710		690/860

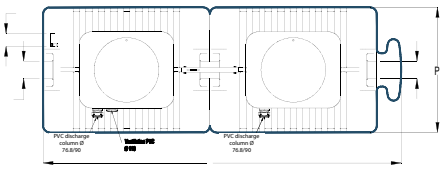
Ellipse

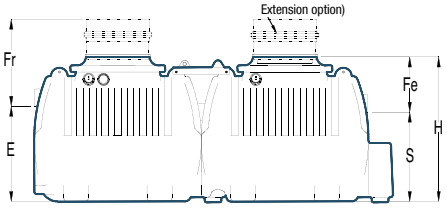




References	Nominal size	L	P	H	E	S	Fe	Dn1	Dn2	A	Useful volume		Weight	Optional extensions			
											Sludge trap	Separator		Ref.	Fr mini / maxi	Ref.	Fr mini / maxi
EG2506C	6	2400	1624	1700	1230	1190	510	160	160	457	600	2660	239	RE207	870/1170	RE210	920/1520
EG2507C	7	2450	1700								700	2600	249				
EG2508C	8	2400	1624	2072	1602	1562					800	3290	261				
EG2510C	10	2450	1700								1000	3120	271				

Aronde





References	Nominal size	L	P	H	E	S	Fe	Dn1	Dn2	Useful volume		Weight	Optional extensions (x 2 units)			
										Sludge trap	Separator		Ht 250 to 450mm	Fr mini /maxi	Ht 430 to 600mm	Fr mini /maxi
GFA15E	15	4292	1500	1730	1140	1070	660	200	160	1500	5300	319	ETR47ET	840/1040	ETR65ET	1020/1190

Dimensions are given in mm, weights in kg, volumes in litres.

Starch separators
without emptying column

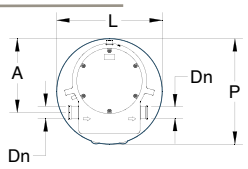
- Recyclable polyethylene **tank** produced by rotomoulding
- PVC inlet and outlet or nitrile seals
- Brass **spray nozzle** 15/21 for foam draw-down
- **Polyethylene cover** with seal for pedestrian traffic closed with stainless steel screws.
- PVC **vent** DN 110

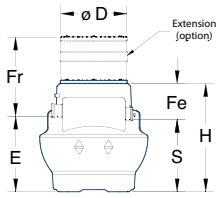
OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

Detail of the brass spray nozzle inside the separator

Reinforced model also available

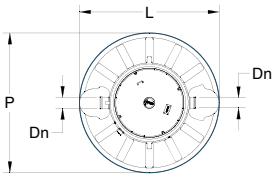
TechneauSphère

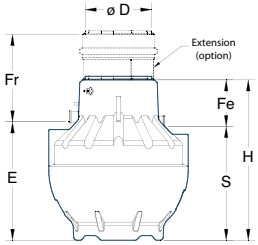




References	Nominal size	P	L	H	E	S	Fe	Dn	A	Weight	Volume Separator	ø D	Optional extensions Ref.	Optional extensions Fr (Ht. fixed)	Optional extensions Ref.	Optional extensions Fr (Ht. fixed)
YG3000E	1	1000	1000	1000	699	668	332	110	700	27	340	620	PLA13555G*	501	PLA13556G*	701

*Fixed extension (non telescopic)

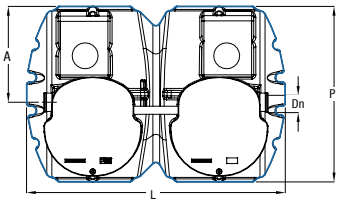


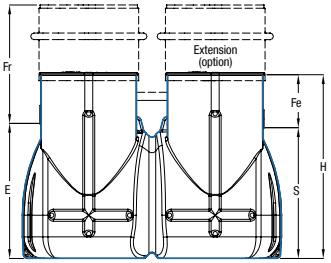


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	Weight	Volume Separator	ø D	Optional extensions Ref.	Optional extensions Fr (fixed) or (mini /maxi)	Optional extensions Ref.	Optional extensions Fr (fixed) or (mini /maxi)
YG3002E	2	1200	1200	1230	930	880	350	110	37	660	620	PLA13555G*	500	PLA13556G*	700
YG3003E	3	1500	1500	1700	1275	1225	475	110	69	1500	770	ETR47EF	675/875	ETR65EF	855/1025
YG3004E	4	1500	1500	1965	1705	1655	310	160	93	2040	770		510/710		690/860

Ellipse





References	Nominal size	L	P	H	E	S	Fe	Dn	A	Volume Separator	Weight	Optional extensions (x 2 units) Ht 700	Fr mini / maxi	Ht 1000	Fr mini / maxi
EG3005C	5	2400	1620	1700	1250	1210	490	160	887	3000	220	RE207	850 /1150	RE210	900 /1500
EG3006C	6		1624							3260					
EG3008C	8	2450	1700							3300	230				
EG3010C	10	2400	1624	2072	1622	1582				4090	239				

Dimensions are given in mm, weights in kg, volumes in litres.

Starch separators with emptying column

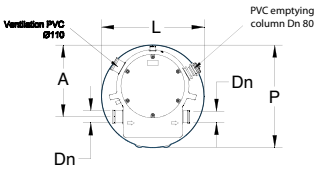
- Recyclable polyethylene **tank** produced by rotomoulding
- PVC inlet and outlet or nitrile seals
- Brass **spray nozzle** 15/21 for foam draw-down
- **Polyethylene cover** with seal for pedestrian traffic closed with stainless steel screws.
- PVC **vent** DN 110
- Emptying column DN 80 with symmetric coupling.

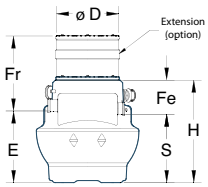
OPTIONS
- **Cover extension** see p. 82
- **Visual and audible grease alarm** see p. 83

Detail of the brass spray nozzle inside the separator

Reinforced model also available

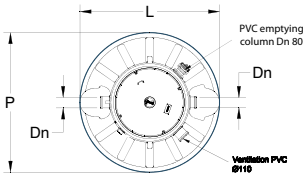
TechneauSphère

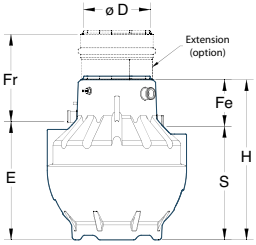




References	Nominal size	P	L	H	E	S	Fe	Dn	A	Weight	Volume Separator	ø D	Optional extensions Ref.	Fr (Ht. fixed)	Ref.	Fr (Ht. fixed)
YG3500E	1	1000	1000	1000	699	668	332	110	33	33	340	620	PLA13555G*	501	PLA13556G*	701

*Fixed extension (non telescopic)

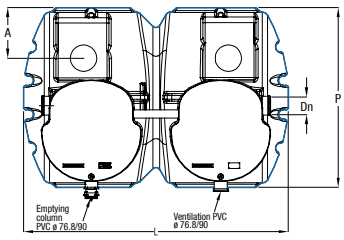


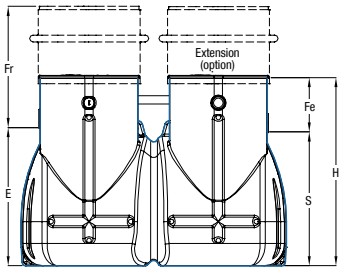


Reinforced model also available

References	Nominal size	P	L	H	E	S	Fe	Dn	Weight	Volume Separator	ø D	Optional extensions Ref.	Fr (fixed) or (mini /maxi)	Ref.	Fr (fixed) or (mini /maxi)
YG3502E	2	1200	1200	1230	930	880	350	110	43	660	620	PLA13555G*	500	PLA13556G*	700
YG3503E	3	1500	1500	1700	1275	1225	475	110	76	1500	770	ETR47EF	675/875	ETR65EF	855/1025
YG3504E	4	1500	1500	1965	1705	1655	310	160	101	2040	770		510/710		690/860

Ellipse





References	Nominal size	L	P	H	E	S	Fe	Dn	A	Volume Separator	Weight	Optional extensions (x 2 units) Ht 700	Fr mini / maxi	Ht 1000	Fr mini / maxi
EG3505C	5	2400	1620	1700	1250	1210	490	160	887	3000	220	RE207	850 /1150	RE210	900 /1500
EG3506C	6		1624							3260					
EG3508C	8	2450	1700							3300	230				
EG3510C	10	2400	1624	2072	1622	1582				4090	239				

Dimensions are given in mm, weights in kg, volumes in litres.

Wastewater | Polyethylene

Nominal size 0,75

Mini-Grease separators
Under sink connection

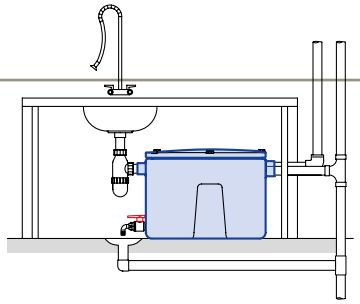
- Recyclable polyethylene **tank** produced by rotomoulding
- PVC **Inlet / outlet socket** with nitrile seal
- Polyethylene **cover** closed with 6 screws on O ring for perfect water & air tightness

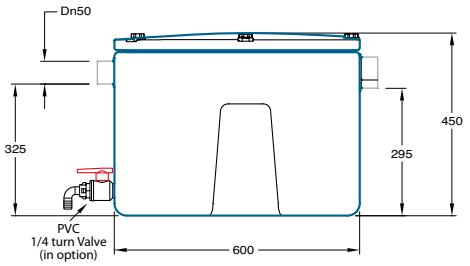
OPTIONS
- **PVC 1/4 turn Valve** see p. 85

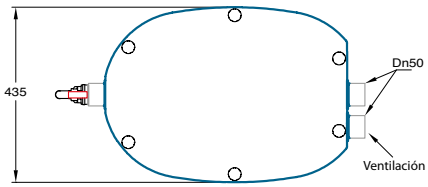
- Useful volume = **55 litres**
- Maximum allowable flow rate = **0.75 l/s**
- Weight = **10 Kg**

GM1E

Special for restaurant dish-washing







Dimensions are given in mm, weights in kg, volumes in litres.

Wastewater | Inox

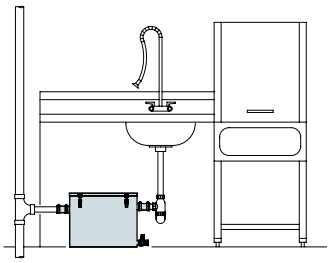
Size 0,75

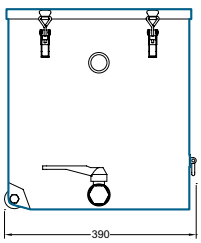
Mini-Grease separators
Under sink connection

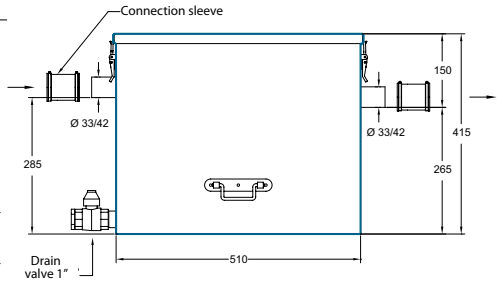
- 304L stainless steel **tank**
- **Inlet / outlet** connection sleeve with nitrile seal
- **Drain valve** 1" and cap
- Lightweight **cover** equipped with 4 closing devices
- **Casters** for easier handling

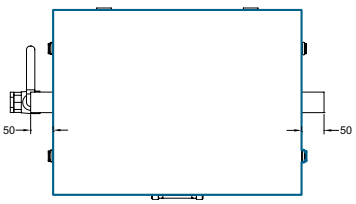
- Useful volume = **55 litres**
- Maximum allowable flow rate = **0.75 l/s**
- Weight = **21 K**

Mini GR









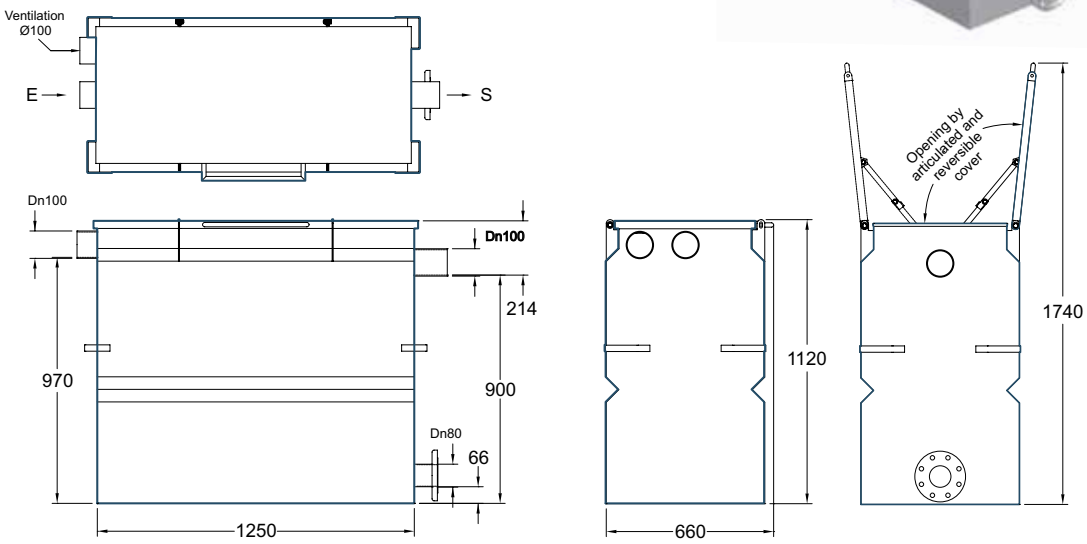
Dimensions are given in mm, weights in kg, volumes in litres.

Grease separators CE
Special above ground installation

- All stainless steel separator: non corrosive
- Compression flange in the low end DN 080 for connection to the emptying column (not included)
- Overall width 660 mm for easier passing through a door
- Large opening at 90° of the cover for easy maintenance
- Hold-open device for increased safety
- Reversible cover
- Stainless steel vent DN 100

Above-ground installation
Basement or cellar of restaurants, large-scale kitchens

EDGS | TN 2 l/s



Recommended by Techneau:

ideally suited for renovation cases as separator's size allows for an easy passing through a door

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

Dimensions are given in mm, weight in kg, volume in litres

Our commitment
to water sports

Ocean races: mini-Transat, Route du Rhum, Fastnet Race, ...

Promotion of young people in water sports (French RAID championship)

Multi-stage sailing races: the Solitaire du Figaro.

Techneau

is also

WATER ENGINEERING

- **Water treatment**
  Polyethylene, polyester, steel oil and grease separators
- **Water pumping**
  Polyethylene, polyester pumping stations
- **Hydraulic equipments**
  Flow regulators
  Vortex flow controllers
  Penstocks
  Non return valves

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- **Manhole covers**
- **Stainless steel floor drains & gutters**

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ISO 9001 BUREAU VERITAS Certification

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