

Telcom®

Polyethylene tanks

Greywater and rainwater recovery

Water treatment

Used oil collection tanks

Multi-purpose chests - Construction site


Telcom®
Polyethylene tanks
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Multi-purpose chests - Construction site
Telcom
CATALOGUE
GENERAL PRICE LIST
2026 Edition

50
1973–2023
Telcom®
ANNIVERSARY

WE CREATE PRODUCTS
BASED ON PRINCIPLES OF QUALITY AND RESPECT FOR THE ENVIRONMENT,
AND WE HAVE BEEN DOING SO FOR MORE THAN FIFTY YEARS.





Telcom stands out for the development of innovative products made of thermoplastic materials, which help in many ways to improve the quality of life of those who use them, combining Italian design, strength and functionality.

A key factor in the company's worldwide success is its ability to constantly renew and improve its products, thanks to state-of-the-art technologies, the continuous training of its staff within the company and close attention to the market.

To guarantee its customers the best products and services, Telcom effectively pursues a business strategy of vertical process integration, making the most of the skills and know-how acquired over the years.

Telcom designers conceive and design every product down to the smallest detail, and skilled woodworking craftsmen build the pattern for the mould in the workshop. Every line and every detail is treated with meticulous care to achieve a final result of impeccable quality.

Company



8 rotational molding lines

1 blow molding line

12 injection molding lines

8 Telcom-owned brands

110.000 m² of company facilities
on three sites

3 sites: Italy, Romania, Albania

Production processes integrated in-house





Logistics and Warehouse

Organization and management of scheduled deliveries

Deliveries worldwide

Simultaneous loading capacity of 18 trucks

40.000 m² warehouse of packaged
products ready for delivery

Automated AGV pallet warehouse



Products for a Sustainable Future

Telcom is committed to sustainability, ensuring that its products have a minimal environmental impact.

We want to give plastic a new life and reduce the environmental impact of our activities.

That is why we think about sustainability in everything we do.

Sustainable actions implemented by Telcom

22.000 m² of photovoltaic panels at the Ostuni sites

3.500.000 kWh of clean, renewable energy (year 2025)*

2.200 tons/year of CO2 not released into the environment (year 2025)*

All products are made of 100% recyclable material and formulated with non-toxic raw materials

We recycle production scrap

Our plants are cooled by recirculating water and lit by solar energy

* data provided by Energy Consulting

More than certifications: a mission

2030 Agenda: Sustainable Development Goals already achieved

Goal 3:
Good health and well-being

Goal 5:
Gender equality

Goal 6:
Clean water and sanitation

Goal 8:
Decent work and economic growth

Goal 9:
Industry, innovation and infrastructure

Goal 10:
Reduced inequalities

Goal 12:
Responsible consumption and production

Goal 13:
Climate action

Goal 15:
Life on land

AEO Authorized Economic Operator

ISO 9001:2015 Quality management

ISO 14001:2015 Environmental management

ISO 45001:2018 Occupational health and safety management

For us, certifications are not only a recognition but also a tool to constantly measure and improve our impact.

We are committed to turning our principles into concrete actions, balancing innovation, respect for the environment and people's well-being.

A concrete commitment to gender equality: the UNI/PdR 125:2022 standard

Gender equality is not just a value, but a responsibility. Telcom S.p.A. is proud to be certified under the UNI/PdR 125:2022 standard, which reflects our commitment to ensuring an inclusive and fair working environment.

EQUITY AND INCLUSION

We promote equal opportunities at every stage of work, from design to production.

TALENT DEVELOPMENT

We believe that everyone should have the same opportunities to grow professionally, without discrimination.

SOCIAL RESPONSIBILITY

This certification is the result of our commitment to a corporate culture that values the contribution of every individual.

Goals 5-8-10


...50 years of trade fairs
Telcom
Telcom
Telcom
ECOSPRAY
Telcom

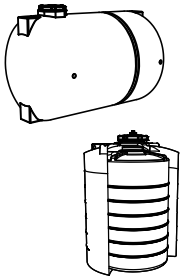
THE RANGE

SERBATOI PER ACQUA POTABILE

AQUARIUS®

Le Giare

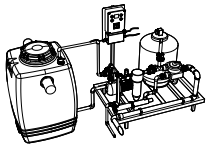
TANKS



- Above-ground tanks for food use
- Underground tanks for food use
- Tanks for chemicals
- Tanks for oil and wine

ECOGRAY

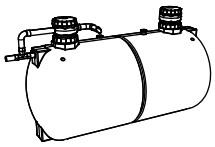
GREYWATER RECOVERY



Greywater reuse systems

PLUVIUM

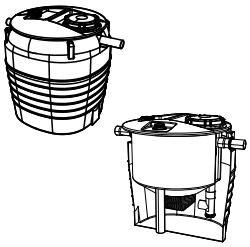
RAINWATER RECOVERY



Rainwater recovery and reuse systems

ECO® AQUARIUS

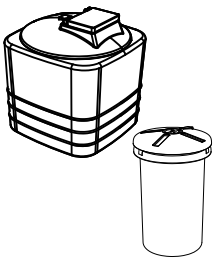
WASTEWATER TREATMENT



- Wastewater treatment
- Stormwater treatment
- Car wash water treatment

OIL-TANK

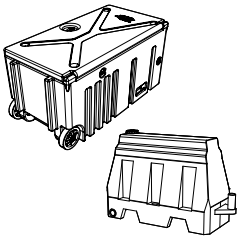
USED OIL DISPOSAL



Certified tanks for collecting:
- Used oils
- Vegetable oils
- Antifreeze

Jolly

CHESTS - CONSTRUCTION SITE



- Multi-purpose chests
- Delineators and New Jersey barriers
- Hand wash basins

H2O AQUARIUS®

Vent valve included

Overlapping lid to prevent water ingress

Hygienic caps included

Flat areas provided for fitting additional connectors

Serial traceability code stamped on the product. Individually finished and tested

Company logo

Main instructions for use embossed on the product

Nipples, caps and O-ring seals (food grade) included*

Recycling symbol

Raw material colored throughout

Connectors for installation molded into the tank*

*only on tanks up to 2000 liters.



Available colors: Stone (PT), Terracotta (TA); on request Black (BL).



Instruction and Warranty booklet supplied with every product

Suitable for food contact
- M.O.C.A. certified
- Italian Ministerial Decree 104/73 as amended;
- EU Regulation No. 10/2011 and related standard EN 1186-1:2003, EN 1186-4:2003, EN 1186-5:2003

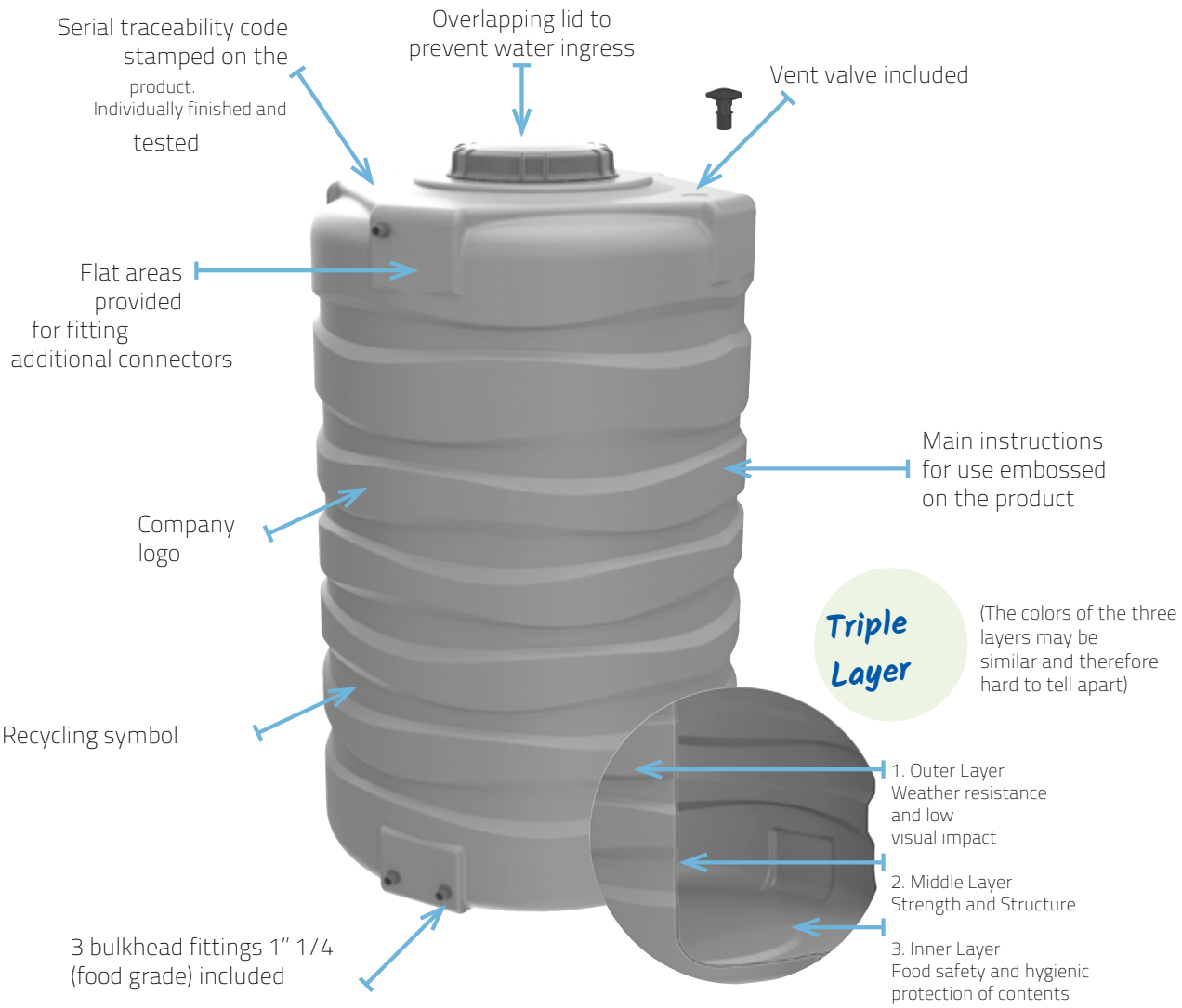
Made of 100% recyclable PE

Resistant to temperature changes between -60°C and +80°C
Suitable for liquids with (non-continuous) peaks between -10°C and +50°C

Onda AQUARIUS® Triple Layer

Only products made in Italy

- The most advanced
- The strongest
- Best value for money





Instruction and Warranty booklet included with every product

Suitable for food contact
- M.O.C.A. certified
- Italian Ministerial Decree 104/73 as amended;
- EU Regulation No. 10/2011 and related standard EN 1186-1:2003, EN 1186-4:2003, EN 1186-5:2003

Made of 100% recyclable PE

Resistant to temperature changes between -60°C and +80°C
Suitable for liquids with (non-continuous) peaks between -10°C and +50°C

ECO® AQUARIUS

Designed to respect the environment





Instruction and Warranty booklet included with every product



GREASE TRAP



ACTIVATED SLUDGE



TRICKLING FILTER

- Supplied with DoP;
- "CE" marked;
- Sized in compliance with national and regional regulations;
- Net volumes, not overall dimensions;
- Highest quality raw materials;

Resistant to temperature changes between -60°C and +80°C
Suitable for liquids with (non-continuous) peaks between -10°C and +50°C

Made of 100% recyclable PE

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ECO® AQUARIUS
Designed to respect the environment

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NEW 2027

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AQUARIUS®

ABOVE-GROUND TANKS

H2O line tanks are made of masterbatch polymers with additives to resist U.V. rays. Colored throughout, these tanks stand out for their sea-green color with a lower visual impact and are suitable for above-ground installation in direct sunlight. The monolithic structure and wall thickness of the H2O tanks provide high mechanical strength and resistance to temperature changes between -60°C and +80°C, and they can hold liquids with (non-continuous) peaks between -10°C and +50°C. H2O line tanks are suitable for food use, 100% recyclable and guaranteed cadmium-free and against algae growth.

Onda AQUARIUS® Triple Layer

The latest products from Telcom's research laboratories, ONDA line tanks feature triple-layer walls. Their special production process, which avoids any adhesive or chemical agent, delivers excellent results in strength and resilience tests. Tests have shown that these "super" tanks represent the evolution of polyethylene products in terms of robustness and physical-mechanical properties. Made of linear PE, these tanks are suitable for food use, 100% recyclable and guaranteed cadmium-free and against algae growth.



GENERAL TABLE BY CAPACITY
VERTICAL TANKS "NSV, HSV, NPA and SV"

Item	Capacity (liters)	Dimensions (cm) H	Dimensions (cm) ø	Lid ø (mm)	Vent	Molded fittings Outlet	Molded fittings Over-flow	Molded fittings Drain Total	€
NSV 100	100	67	48	320		1" 1/4	1"	1"	**144,11**
NSV 200	200	85	60	320		1" 1/4	1"	1"	**158,76**
NSV 300	300	97	70	320		1" 1/4	1"	1"	**172,57**
HSV 300	300	166	51	320		1" 1/4	1"	1"	**243,71**
NSV 500	500	148	70	320		1" 1/4	1"	1"	**257,51**
Triple Layer NPA 500	500	116	80	420	*	1" 1/4	1" 1/4	1" 1/4	**213,63**
NSV 700	700	199	70	320		1" 1/4	1"	1"	**392,56**
NSVC 700	700	170	76	550		1" 1/4	1"	1"	**392,56**
Triple Layer NPA 750	750	168	80	420	*	1" 1/4	1" 1/4	1" 1/4	**297,55**
SV 1000	950	198	81	320		1" 1/4	1"	1"	**417,79**
Triple Layer NPA 1000	1000	221	80	420	*	1" 1/4	1" 1/4	1" 1/4	**377,82**
NSV 1500	1500	182	110	420		1" 1/4	1"	1"	**464,20**
NSV 2000	2000	182	127	420		1" 1/4	1"	1"	**590,02**
NSV 3000	3000	202	147	420		-	-	-	**875,53**
NSV 4000	4000	206	169	420		-	-	-	**1.235,20**
NSV 5000	5000	189	203	420		-	-	-	**1.496,77**
NSV 10000	10000	260	238	550		-	-	-	**3.567,54**
NSV 16000	15400	384	238	550		-	-	-	**7.447,51**
NSV 20000	20000	505	238	550		-	-	-	**16.100,27**

* Fitted by the customer.

Download the data sheet

Note: NSV vertical tanks up to 4000 liters have a CENTRAL lid.
NSV vertical tanks from 5000 to 20000 liters have a SIDE lid.

H2O AQUARIUS®

Standard color H2O


Molded fittings

Available colors PT TA

BL Color on request (Without molded fittings)

For diesel storage see p. 70

Each tank comes with:
- 1 vent valve
- 3 caps
- 3 nipples
- 3 O-rings



with the same diameter as the corresponding molded fittings, where provided.

Fittings and accessories on request on p. 60

Onda AQUARIUS® Triple Layer


Pre-assembled fittings

GS Available color

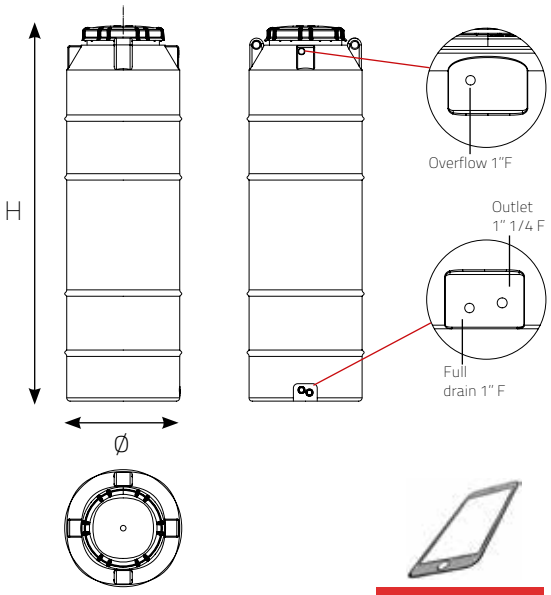
Each tank comes with:
- 3 bulkhead fittings 1"1/4
- 1 vent valve



Key: 1" labyrinth valve — 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





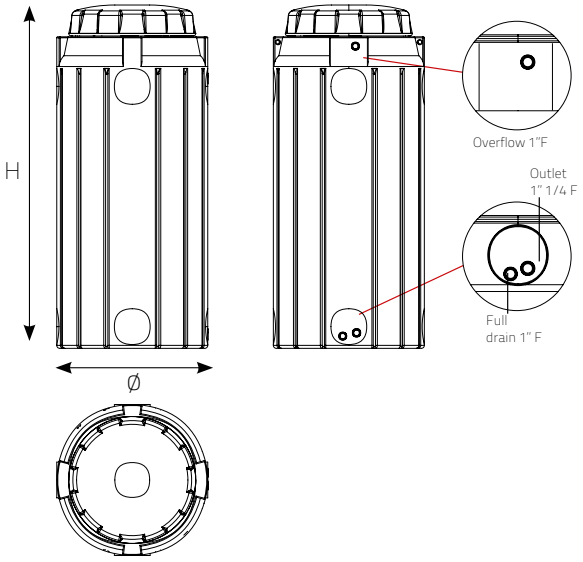
VERTICAL TANK "HSV 300"

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
HSV 300	300	166	51	320		1" 1/4	1"	1"	243,71

Download the data sheet







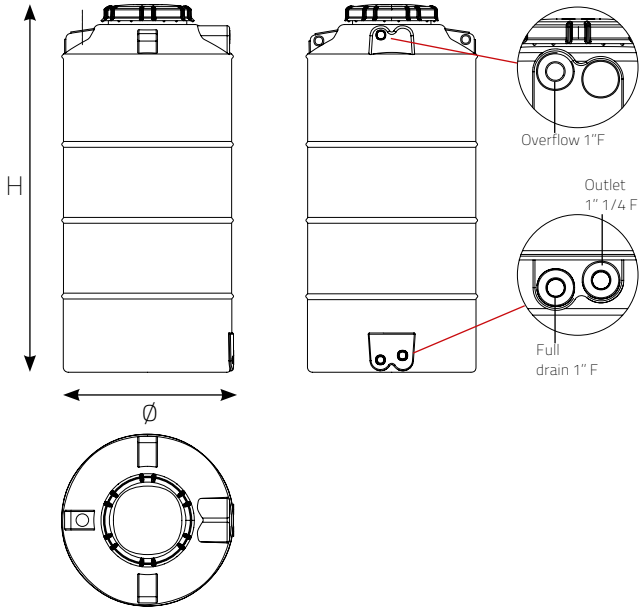
VERTICAL TANK "NSVC 700" 700 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NSVC 700	700	170	76	550		1" 1/4	1"	1"	**392,56**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





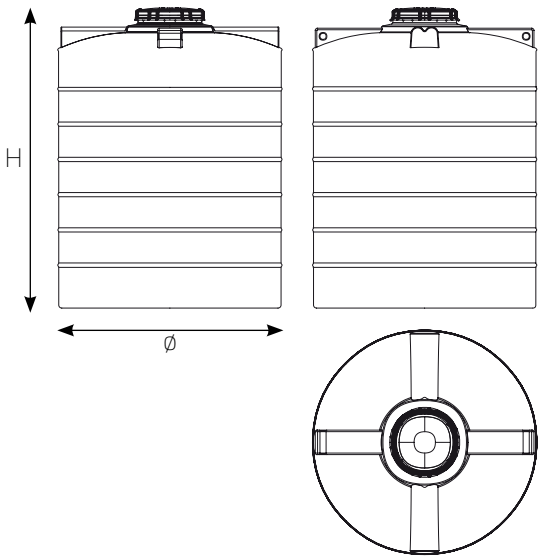
VERTICAL TANKS "NSV" from 100 to 2000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NSV 100	100	67	48	320		1" 1/4	1"	1"	**144,11**
NSV 200	200	85	60	320		1" 1/4	1"	1"	**158,76**
NSV 300	300	97	70	320		1" 1/4	1"	1"	**172,57**
NSV 500	500	148	70	320		1" 1/4	1"	1"	**257,51**
NSV 700	700	199	70	320		1" 1/4	1"	1"	**392,56**
NSV 1500	1500	182	110	420		1" 1/4	1"	1"	**464,20**
NSV 2000	2000	182	127	420		1" 1/4	1"	1"	**590,02**



Download the data sheet





VERTICAL TANKS "NSV" from 3000 to 4000 liters

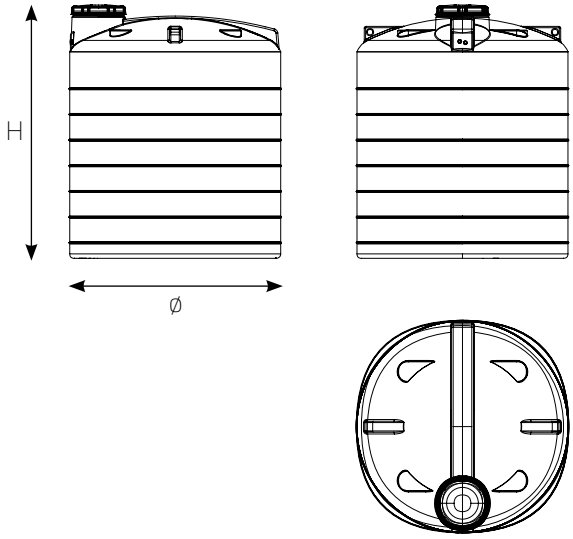
Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NSV 3000	3000	202	147	420		-	-	-	**875,53**
NSV 4000	4000	206	169	420		-	-	-	**1.235,20**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



NSV 10000

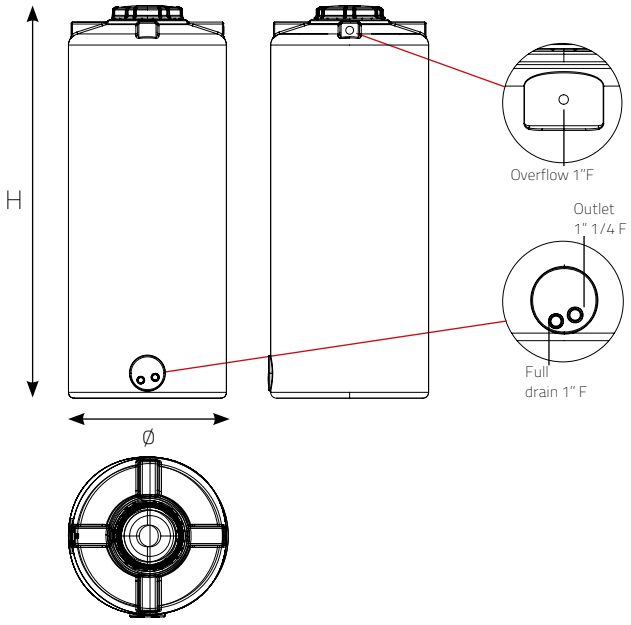


VERTICAL TANKS "NSV" from 5000 to 16000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NSV 5000	5000	189	203	420		-	-	-	**1.496,77**
NSV 10000	10000	260	238	550		-	-	-	**3.567,54**
NSV 16000	15400	384	238	550		-	-	-	**7.447,51**

Download the data sheet





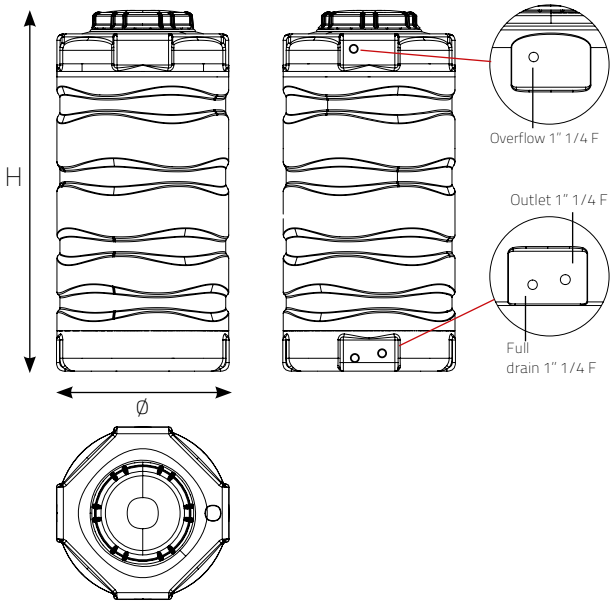
VERTICAL TANK "SV 1000"

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
SV 1000	950	198	81	320		1" 1/4	1"	1"	**417,79**

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



Triple Layer



VERTICAL TANKS "NPA" from 500 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NPA 500	500	116	80	420	*	1" 1/4	1" 1/4	1" 1/4	**213,63**
NPA 750	750	168	80	420	*	1" 1/4	1" 1/4	1" 1/4	**297,55**
NPA 1000	1000	221	80	420	*	1" 1/4	1" 1/4	1" 1/4	**377,82**

* Fitted by the customer.



Download the data sheet

Onda AQUARIUS® Triple Layer



Pre-assembled fittings

GS Available color

Each tank comes with:

- 3 bulkhead fittings 1"1/4
- 1 vent valve



Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

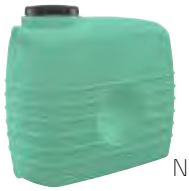

SVQ


SQN2


SQN3


SQB 500


Triple Layer
NPC 500


NSQN 750


NSQ 1000


SQ 1500


SQVB 2000


NSQR 3000

GENERAL TABLE BY CAPACITY
SQUARE TANKS "SVQ, SQN2, SQN3, SQB, NPC, NSQN, SQ, NSQ"

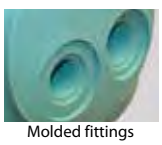
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SVQ 100	100	58	52	52	320	-	-	-	-	**162,21**
SQN2 200	200	72	49	84	320	1"	1" 1/4	1"	1"	**203,63**
SQN2 300	290	70	66	88	320	1"	1" 1/4	1"	1"	**234,69**
SQN3 300	320	93	65	67	320	1"	1" 1/4	1"	1"	**227,78**
SQN2 500	490	90	71	109	320	1"	1" 1/4	1"	1"	**325,53**
SQB 500	500	62	92	122	320	1"	1" 1/4	1"	1"	**321,61**
Triple Layer NPC 500	510	116	68	87	420	1" *	1" 1/4	1" 1/4	1" 1/4	**285,08**
NSQN 750 R	750	118	66	129	220	1"	1" 1/4	1"	1"	**455,89**
NSQ 1000	1000	142	69	156	320	1"	1" 1/4	1"	1"	**530,40**
SQ 1500	1350	146	77	167	320	1"	1" 1/4	1"	1"	**910,74**
SQVB 2000	2000	186	68	220	320	1"	1" 1/4	1"	1"	**1.021,43**
NSQR 3000	2850	201	78	258	320	1"	1" 1/4	1"	1"	**1.624,49**

Download the data sheet

* Fitted by the customer.

H2O AQUARIUS®

Standard color H2O


Molded fittings

Available colors PT TA

BL Color on request (Without molded fittings)

For diesel storage see p. 70

Each tank comes with:
- 1 vent valve
- 3 caps
- 3 nipples
- 3 O-rings



with the same diameter as the corresponding molded fittings, where provided.

Fittings and accessories on request on p. 60

Onda AQUARIUS® Triple Layer


Pre-assembled fittings

GS Available color

Each tank comes with:

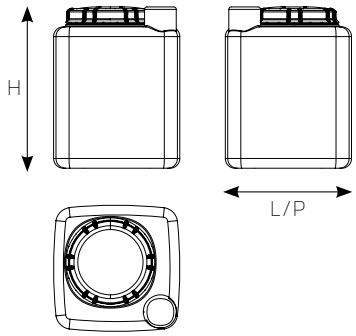


- 3 bulkhead fittings 1"1/4
- 1 vent valve

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





SQUARE TANK "SVQ 100"

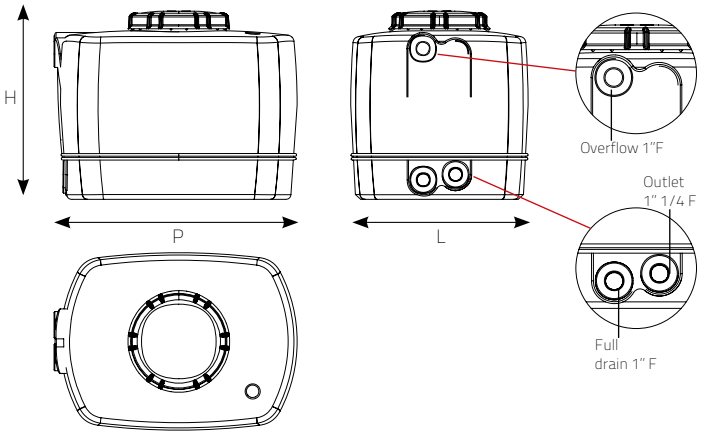
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SVQ 100	100	58	52	52	320	-	-	-	-	**162,21**



Download the data sheet







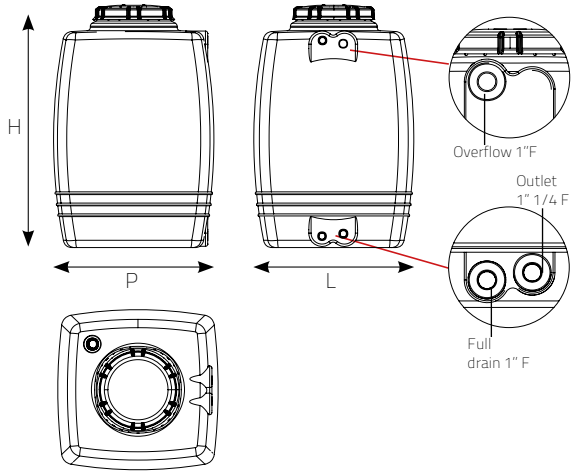
SQUARE TANKS "SQN2" from 200 to 500 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SQN2 200	200	72	49	84	320		1" 1/4	1"	1"	**203,63**
SQN2 300	290	70	66	88	320		1" 1/4	1"	1"	**234,69**
SQN2 500	490	90	71	109	320		1" 1/4	1"	1"	**325,53**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





SQUARE TANK "SQN3 300"

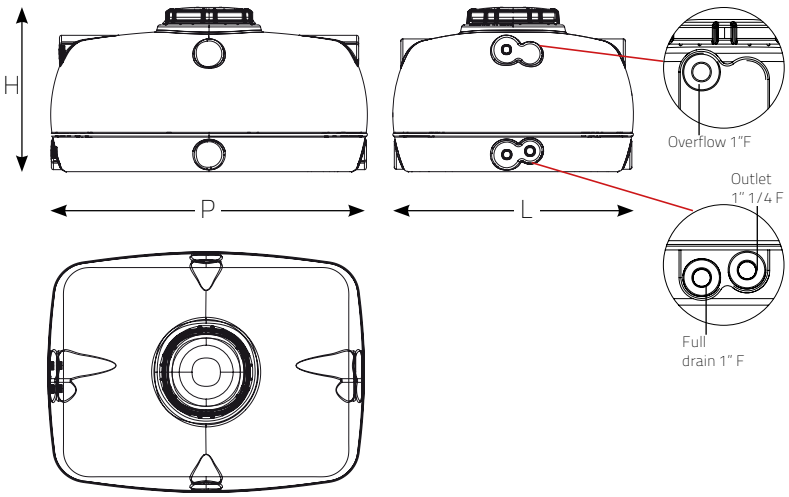
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SQN3 300	320	93	65	67	320		1" 1/4	1"	1"	**227,78**



Download the data sheet







SQUARE TANK "SQB 500"

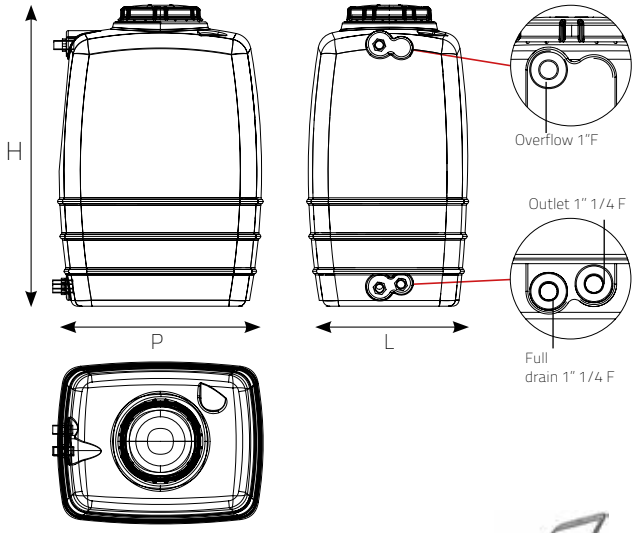
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SQB 500	500	62	92	122	320		1" 1/4	1"	1"	**321,61**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



Triple Layer



SQUARE TANK "NPC 500"

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
NPC 500	510	116	68	87	420	*	1" 1/4	1" 1/4	1" 1/4	**285,08**



Download the data sheet





Pre-assembled fittings

GS Available color

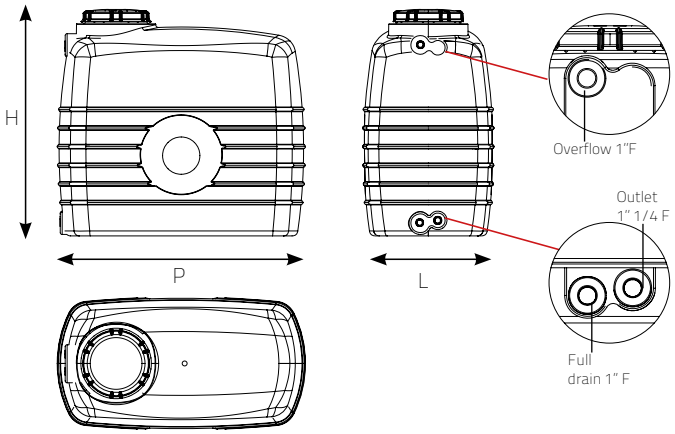
Each tank comes with:

- 3 bulkhead fittings 1"1/4
- 1 vent valve



Onda AQUARIUS® Triple Layer





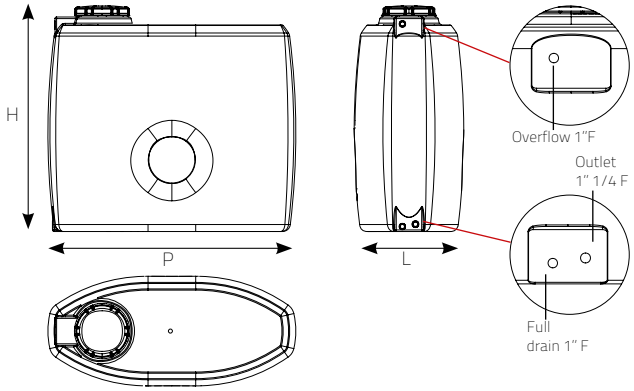
SQUARE TANK "NSQN 750 R"

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
NSQN 750 R	750	118	66	129	220		1" 1/4	1"	1"	**455,89**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





SQUARE TANK "NSQ 1000"

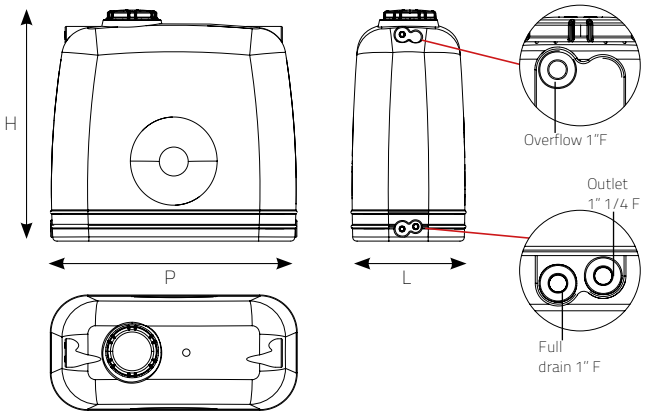
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
NSQ 1000	1000	142	69	156	320		1" 1/4	1"	1"	**530,40**



Download the data sheet







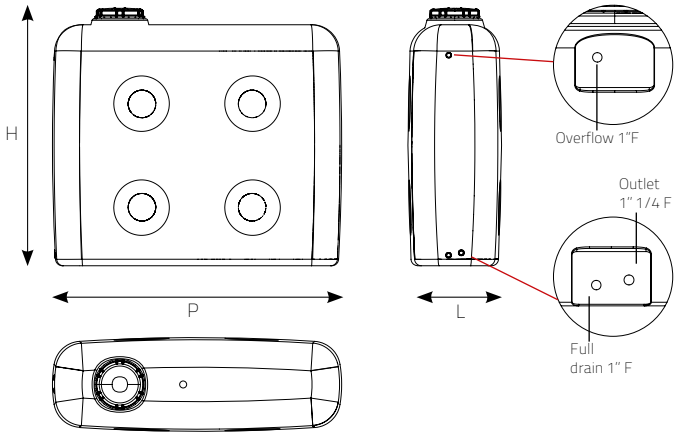
SQUARE TANK "SQ 1500"

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SQ 1500	1350	146	77	167	320		1" 1/4	1"	1"	**910,74**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





SQUARE TANK "SQVB 2000"

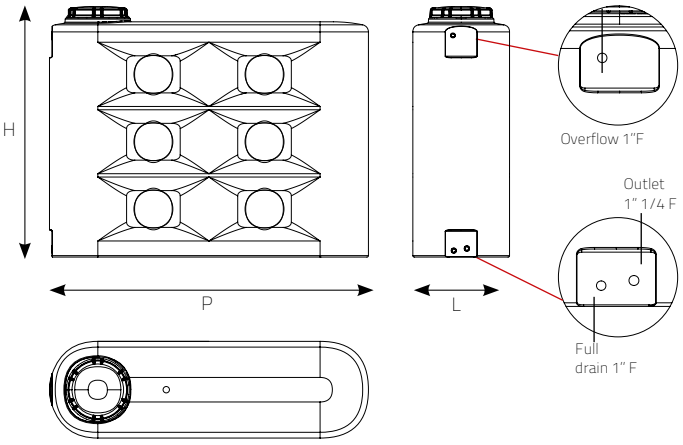
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SQVB 2000	2000	186	68	220	320		1" 1/4	1"	1"	**1.021,43**



Download the data sheet







SQUARE TANK "NSQR 3000"

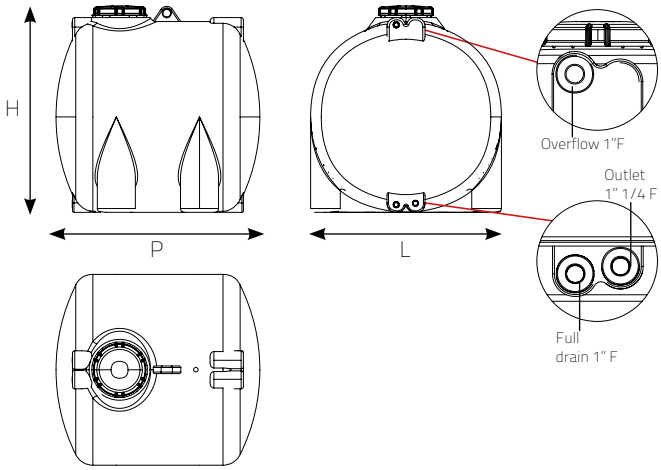
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
NSQR 3000	2850	201	78	258	320		1" 1/4	1"	1"	**1.624,49**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



CON 300-5000



HORIZONTAL TANKS "CON" from 300 to 10000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
CON 300	290	82	73	82	320		1" 1/4	1"	1"	**203,24**
CON 500	500	94	87	98	320		1" 1/4	1"	1"	**282,99**
CON 1000	1050	115	106	127	320		1" 1/4	1"	1"	**373,22**
CON 1500	1500	133	125	137	320		1" 1/4	1"	1"	**633,31**
CON 2000	1950	144	136	155	320		1" 1/4	1"	1"	**791,97**
CON 3000	2970	166	160	185	420		-	-	-	**1.162,54**
CON 5000	4950	186	178	232	420		-	-	-	**1.671,17**
CON 7500*	7150	217	189	318	550		-	-	-	**4.286,88**
CON 10000*	10400	255	225	310	550		-	-	-	**5.257,50**

* Fitted with CL 550 turret

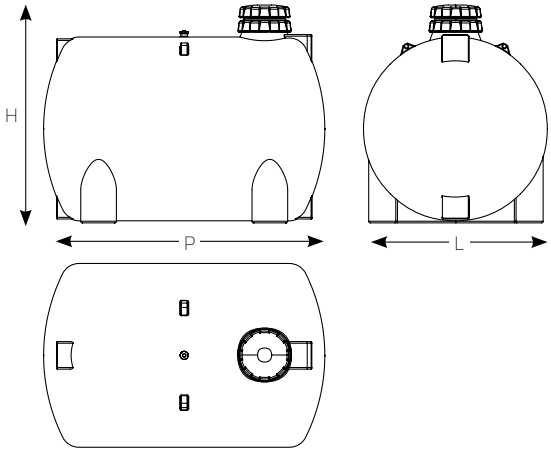


Download the data sheet

TURRET Ø 550



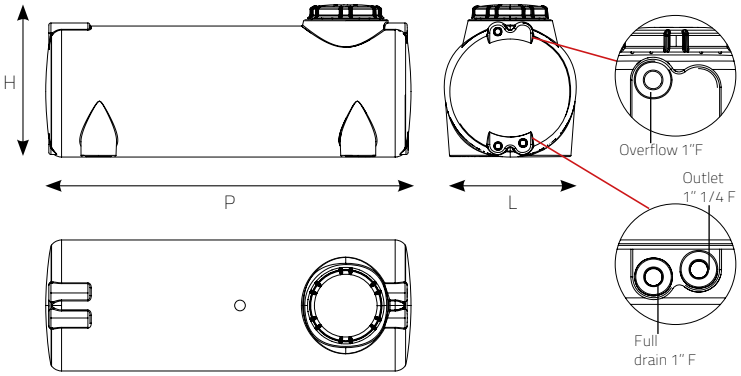
CON 7500 - CON 10000



Key: 1" labyrinth valve 2" vent fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





SLIM HORIZONTAL TANKS "CO" from 300 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
CO 300	300	61	52	160	220		1" 1/4	1"	1"	**324,10**
CO 500	490	72	62	173	320		1" 1/4	1"	1"	**451,50**
CO 1000	1000	91	81	203	320		1" 1/4	1"	1"	**587,54**



Download the data sheet

Standard color H_2O



Molded fittings

Available colors PT TA

BL Color on request (Without molded fittings)

For diesel storage see p. 70

Each tank comes with:

- 1 vent valve
- 3 caps
- 3 nipples
- 3 O-rings



with the same diameter as the corresponding molded fittings, where provided.

Fittings and accessories on request on p. 60

H2O AQUARIUS®

Key: 1" labyrinth valve 2" vent fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



PN



NPB



PAN



PAN NEW 5000

GENERAL TABLE BY CAPACITY
PANETTONE TANKS "PN", "PAN" and "NPB"

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
PN 200	200	61	78	220		1" 1/4	1"	1"	172,06
PAN 300	310	70	90	220		1" 1/4	1"	1"	192,55
PAN 500	490	77	105	320		1" 1/4	1"	1"	234,34
NPB 1000	1000	108	120	420	*	1" 1/4	1" 1/4	1" 1/4	381,45
PAN NEW 1500	1470	113	145	420		1" 1/4	1"	1"	480,29
PAN 2000	2050	139	157	420		1" 1/4	1"	1"	667,97
PAN 3000	3050	128	194	420		-	-	-	831,94
PAN NEW 5000	4950	142	238	420		-	-	-	1.344,19
PAN 7500	7550	198	238	420		-	-	-	2.034,43

Triple Layer



Download the data sheet

* Fitted by the customer.

H2O AQUARIUS®

Standard color H2O



Molded fittings

Available colors PT TA

BL Color on request (Without molded fittings)

For diesel storage see p. 70

Each tank comes with:
- 1 vent valve
- 3 caps
- 3 nipples
- 3 O-rings



with the same diameter as the corresponding molded fittings, where provided.

Fittings and accessories on request on p. 60

Onda AQUARIUS® Triple Layer



Pre-assembled fittings

GS Available color

Each tank comes with:

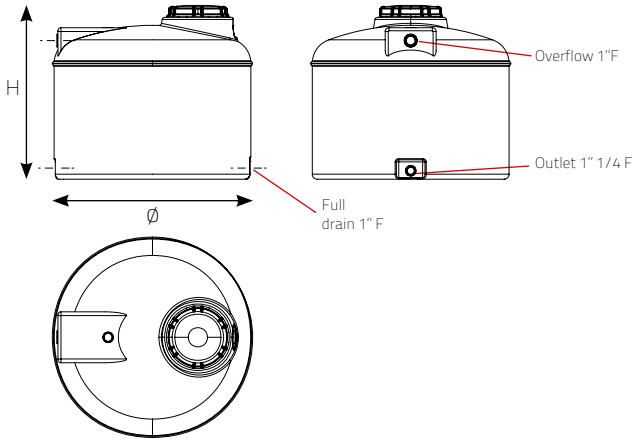


- 3 bulkhead fittings 1"1/4
- 1 vent valve

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





PANETTONE TANK "PN"

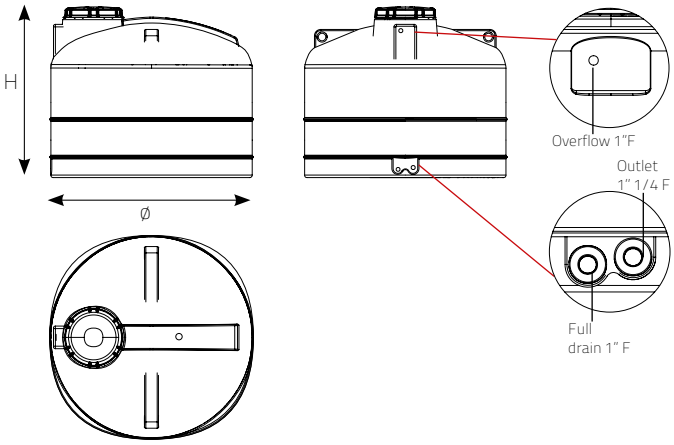
Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
PN 200	200	61	78	220		1" 1/4	1"	1"	**172,06**



Download the data sheet







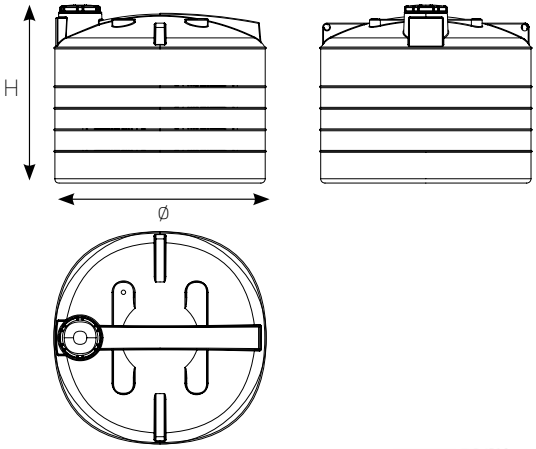
PANETTONE TANKS "PAN" from 300 to 2000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
PAN 300	310	70	90	220		1" 1/4	1"	1"	**192,55**
PAN 500	490	77	105	320		1" 1/4	1"	1"	**234,34**
PAN NEW 1500	1470	113	145	420		1" 1/4	1"	1"	**480,29**
PAN 2000	2050	139	157	420		1" 1/4	1"	1"	**667,97**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



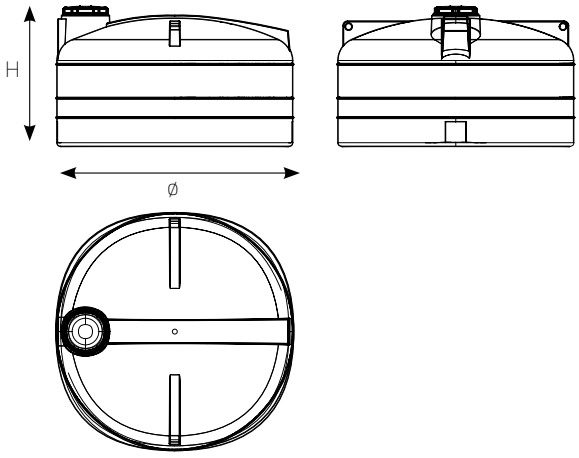


PANETTONE TANKS "PAN" 3000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
PAN 3000	3050	128	194	420		-	-	-	**831,94**

Download the data sheet





PANETTONE TANKS "PAN" from 5000 to 7500 liters

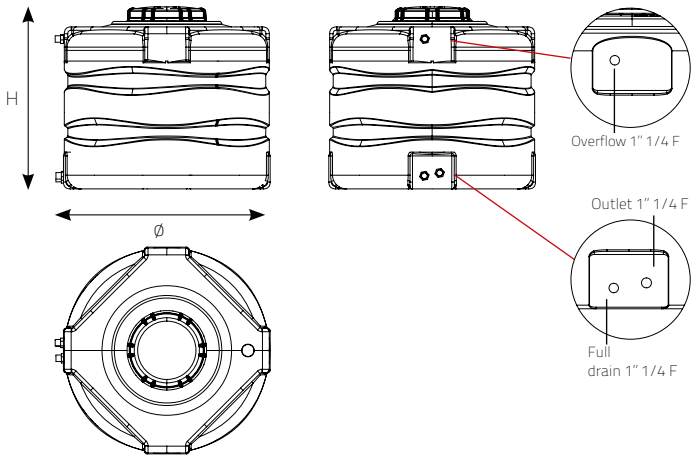
Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
PAN NEW 5000	4950	142	238	420		-	-	-	**1.344,19**
PAN 7500	7550	198	238	420		-	-	-	**2.034,43**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



Triple Layer





Download the data sheet

PANETTONE TANK "NPB"

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Full drain	
NPB 1000	1000	108	120	420	*	1" 1/4	1" 1/4	1" 1/4	**381,45**

* Fitted by the customer.



Pre-assembled fittings

GS Available color

Each tank comes with:

- 3 bulkhead fittings 1"1/4
- 1 vent valve

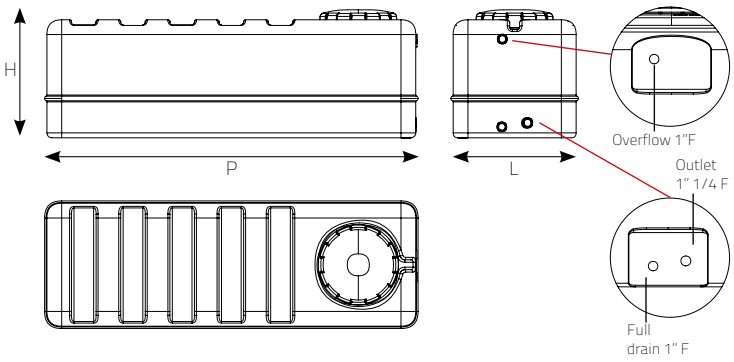


Onda AQUARIUS® Triple Layer

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





ATTIC TANK "SRS"

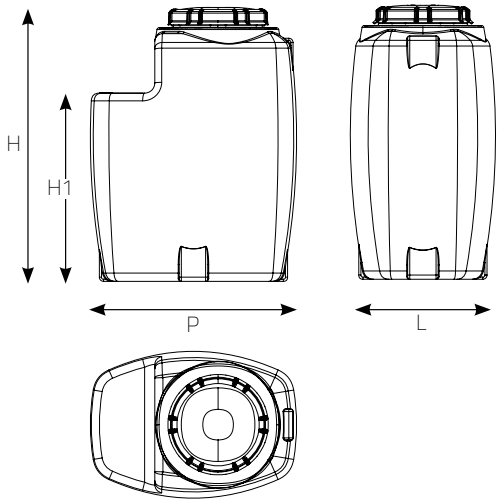
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SRS 300	300	48	50	150	220		1" 1/4	1"	1"	**394,58**



Download the data sheet







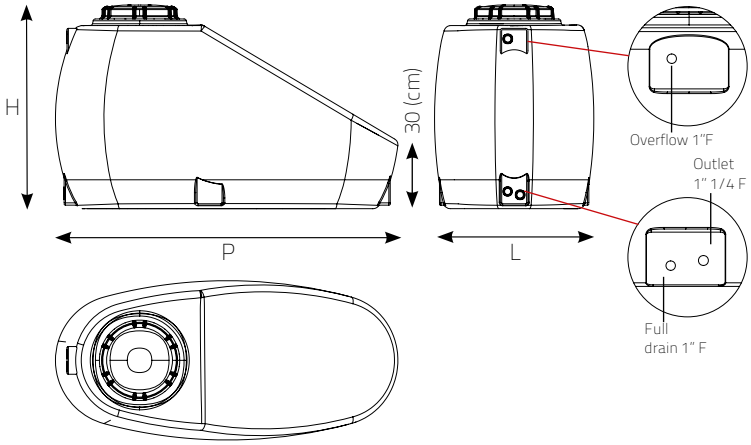
TANKS FOR SELF-PRIMING PUMP "SPP" from 300 to 800 liters

Item	Capacity H (liters)	Capacity H1 (liters)	Dimensions (cm)				Lid ø (mm)	Vent	€
			H	H1	L	P			
SPP 300	376	265	96	57	65	93	420		**348,38**
SPP 500	572	458	131	89	69	99	420		**506,06**
SPP 800	900	780	170	130	69	129	420		**937,86**

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





UNDER-STAIRS TANKS "SPS R" from 500 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SPS 500 R	500	91	69	138	320		1" 1/4	1"	1"	360,17
SPS 1000 R	950	105	90	180	420		1" 1/4	1"	1"	709,00



Download the data sheet

Standard color H_2O



Molded fittings

Available colors PT TA

BL Color on request (Without molded fittings)

For diesel storage see p. 70

Each tank comes with:
- 1 vent valve
- 3 caps
- 3 nipples
- 3 O-rings



with the same diameter as the corresponding molded fittings, where provided.

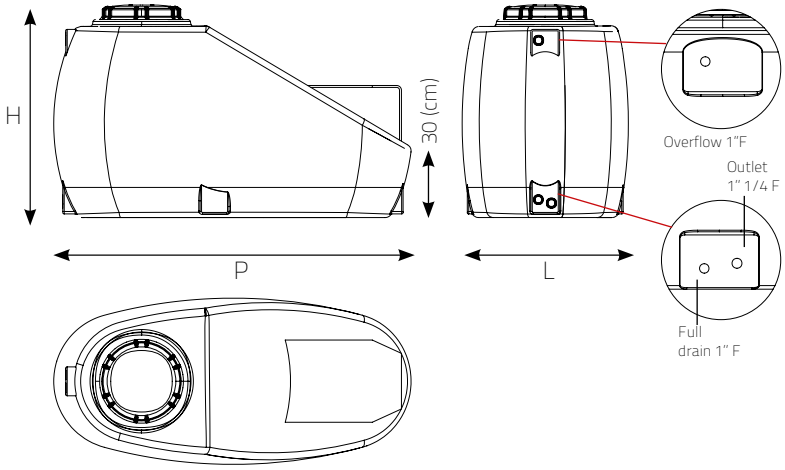
Fittings and accessories on request on p. 60

H2O AQUARIUS®

Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





UNDER-STAIRS TANKS "SPS R ATC" from 500 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Molded fittings			€
		H	L	P			Outlet	Over-flow	Full drain	
SPS 500 R ATC	500	91	69	138	320		1" 1/4	1"	1"	**631,98**
SPS 1000 R ATC	950	105	90	180	420		1" 1/4	1"	1"	**994,73**

Standard single H_2O



Download the data sheet

PRESSURE BOOSTER KIT

Item	HP	Accessories	€
KIT ATC 01	0,7	-	**670,11**
KIT ATC 02	1	-	**726,24**
KIT ATC 03	1,5	-	**1.334,90**
KIT ATC 04	0,7	with Easy Press controller included	**605,85**
KIT ATC 05	1	with Easy Press controller included	**678,62**
KIT ATC 06	1,5	with Easy Press controller included	**1.230,39**



Key: 1" labyrinth valve

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



GENERAL TABLE BY CAPACITY
ORCIOBELLO AMPHORA TANKS

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings				€
		H	ø		Inlet	Outlet	Over-flow	Full drain	
ORCIO 200	200	85	73	370	3/4"	1" 1/4	1"	1"	**221,61**
ORCIO 300	300	96	83	370	3/4"	1" 1/4	1"	1"	**254,31**
ORCIO 500	500	111	98	450	-	1" 1/4	-	1"	**345,13**
ORCIO 500 F	500	111	98	450	-	1" 1/4	-	1"	**348,76**
ORCIO 500 OLD	500	111	98	450	3/4"	1" 1/4	1"	1"	**337,86**
ORCIO 1000 R	960	140	116	450	-	1" 1/4	-	1"	**508,95**
ORCIO 1000 R/F	960	140	116	450	-	1" 1/4	-	1"	**527,26**
ORCIO 1000 R OLD	960	140	116	450	3/4"	1" 1/4	1"	1"	**519,42**



Download the data sheet



Molded fittings

Available colors

TA

Where provided, the tank comes with:

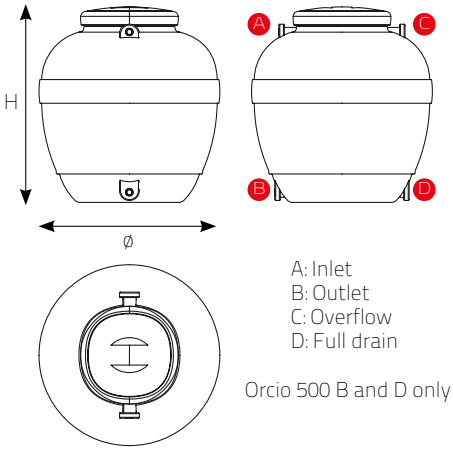
- 1 female closing cap
- 4 hygienic caps
- 4 caps
- 4 nipples
- 4 O-rings



with the same diameter as the corresponding molded fittings, where provided.

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





A: Inlet
B: Outlet
C: Overflow
D: Full drain

Orcio 500 B and D only

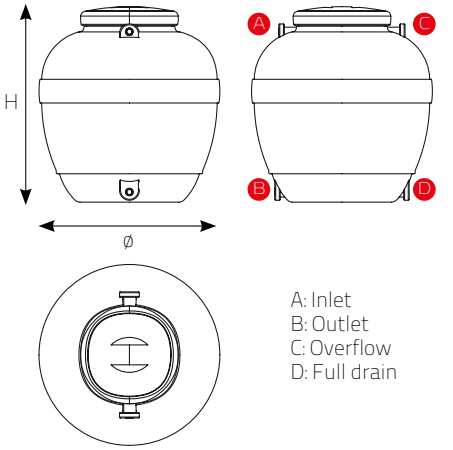
ORCIOBELLO AMPHORA TANKS from 200 to 500 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings				€
		H	ø		A Inlet	B Outlet	C Overflow flow	D Full drain	
ORCIO 200	200	85	73	370	3/4"	1" 1/4	1"	1"	**221,61**
ORCIO 300	300	96	83	370	3/4"	1" 1/4	1"	1"	**254,31**
ORCIO 500	500	111	98	450	-	1" 1/4	-	1"	**345,13**



Download the data sheet





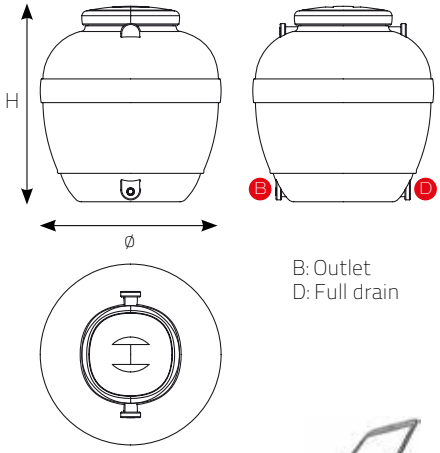
A: Inlet
B: Outlet
C: Overflow
D: Full drain

ORCIOBELLO AMPHORA TANKS OLD from 500 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings				€
		H	ø		A Inlet	B Outlet	C Overflow flow	D Full drain	
ORCIO 500 OLD	500	111	98	450	3/4"	1" 1/4	1"	1"	**337,86**
ORCIO 1000 R OLD	960	140	116	450	3/4"	1" 1/4	1"	1"	**519,42**

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%





B: Outlet
D: Full drain

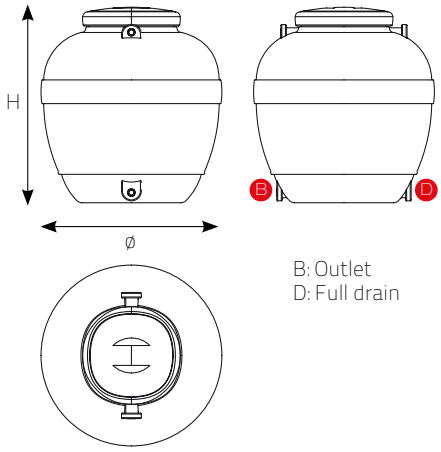
Download the data sheet

ORCIOBELLO AMPHORA TANK R 1000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings				€
		H	ø		A Inlet	B Outlet	C Overflow flow	D Full drain	
ORCIO 1000 R	960	140	116	450	-	1" 1/4	-	1"	**508,95**



"F" model scalloped



B: Outlet
D: Full drain

SCALLOPED ORCIOBELLO AMPHORA TANKS from 500 to 1000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings				€
		H	ø		A Inlet	B Outlet	C Overflow flow	D Full drain	
ORCIO 500 F	500	111	98	450	-	1" 1/4	-	1"	**348,76**
ORCIO 1000 R/F	960	140	116	450	-	1" 1/4	-	1"	**527,26**



Molded fittings

Available colors
TA

Where provided, the tank comes with:
- 1 female closing cap
- 4 hygienic caps
- 4 caps
- 4 nipples
- 4 O-rings



with the same diameter as the corresponding molded fittings, where provided.

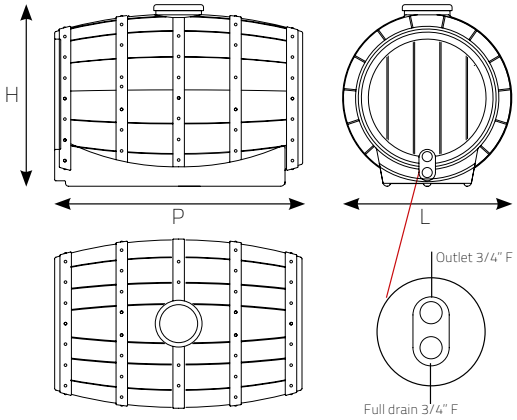
Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Also suitable for Oil and Wine

Standard color: CPS

Accessories on request on p. 43





"BARILE" TANKS from 5 to 550 liters

Le Giare

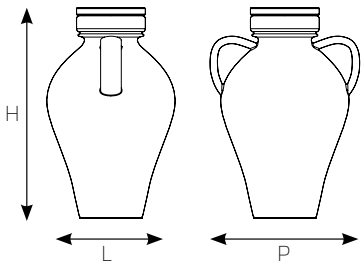
Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Molded fittings		Accessories standard	€
		H	L	P		N.	Size		
BOT 5	5	22	26	17		1	1/2"		26,84
BOT 10	10	26	33	23		1	1/2"		49,85
BOT 30	30	37	47	32		1	1/2"		88,57
BOT 50	50	44	56	38		1	1/2"		124,82
BOT 100	100	53	70	47		2	3/4"	/	189,26
BOT 150	150	60	82	55		2	3/4"	/	205,35
BOT 200	200	65	90	62		2	3/4"	/	301,99
BOT 350	350	74	74	105	140	2	3/4"	/	366,41
BOT 550	550	82	82	121	140	2	3/4"	/	459,03

1/2" PP tap



BARILE tanks up to 50 liters come with a standard food-grade polypropylene tap.





"CAPASE" TANKS from 5 to 100 liters

Le Giare

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Molded fittings		Accessories standard	€
		H	L	P		N.	Size		
CPN 5	5	25	12	33		1	1/2"		19,18
CPN 10	10	31	15	45		1	1/2"		36,43
CPN 33	33	38	23	58		1	1/2"		65,18
CPN 55	55	44	24	77		1	1/2"		114,08
CPN 100	100	54	30	93		1	3/4"	/	146,68

1/2" PP tap

CAPASE tanks up to 55 liters come with a standard food-grade polypropylene tap.

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Also suitable for Oil and Wine

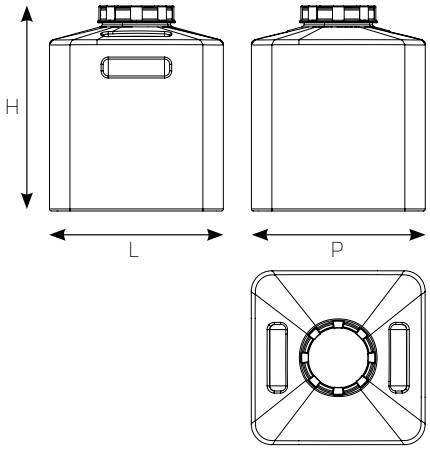
Standard color: CPS

Accessories on request on p. 43





Stackable
to make the most
of the space.



"BOTTICELLA" TANKS from 30 to 55 liters

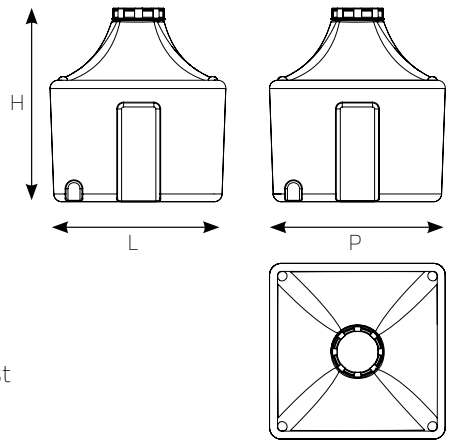
Le Giare

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Molded fittings		€
		H	L	P		N.	Size	
BOQN 30	30	40	34	34	140	1	1/2"	**81,49**
BOQN 55	55	61	34	34	140	1	1/2"	**130,39**





Stackable
to make the most
of the space.



"DAMIGIANA" TANK 55 liters

Le Giare

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	€
		H	L	P		
DMGA	55	50	44	44	120	**81,49**

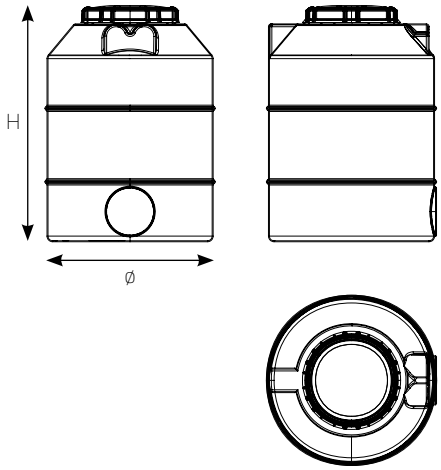
Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Also suitable for Oil and Wine

Standard color: CPS

Accessories on request on p. 43





VERTICAL TANKS from 100 to 300 liters Le Giare

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Accessories standard	€
		H	ø			
NSV 100 TE	100	67	48	420		173,59
NSV 200 TE	200	85	60	420		176,41
NSV 300 TE	300	97	70	420		191,75

3/4" brass tap

Double-acting valve

ACCESSORIES FOR Le Giare

ITEM	Description	€
RUBINET. 1/2" PP.	PP tap	2,84
RUB. 1/2"	Brass tap	13,83
RUB. 3/4"	Brass wine tap	18,17
TAPPO 90	Cap ø 90 BL	0,59
TAPPO 140	Cap ø 140 BL	3,16
TAPPO 1"	Cap	0,44
TAPPO 3/4"	Cap	0,23
VAL. A DOPP. EF.	Double-acting PE valve	14,24



1/2" PP tap
Code RUBINET. 1/2" PP.



3/4" Brass tap
Code RUB. 3/4



Double-acting PE valve
Code VAL.A DOPP.EF.

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

HORIZONTAL TANKS

XXLE



2 modules
10.000 liters

3 modules
15.000 liters

3 modules
20.000 liters

4 modules
25.000 liters

4 modules
30.000 liters

5 modules
35.000 liters

5 modules
40.000 liters

6 modules
45.000 liters

6 modules
50.000 liters

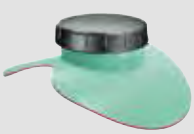
7 modules
55.000 liters

7 modules
60.000 liters

XXLE is a modular above-ground tank with a capacity ranging from a minimum of **10.000** liters to a maximum of **60.000** liters. It consists of monolithic polyethylene modules designed and sized with the aid of F.E.M. analysis to ensure resistance to hydrostatic load and self-supporting strength. Linear polyethylene (PE) is a raw material with the best properties in terms of food use and resistance to organic and inorganic chemical agents.

XXLE large-capacity tanks are designed to meet the need to collect and store water for a wide range of uses, such as:

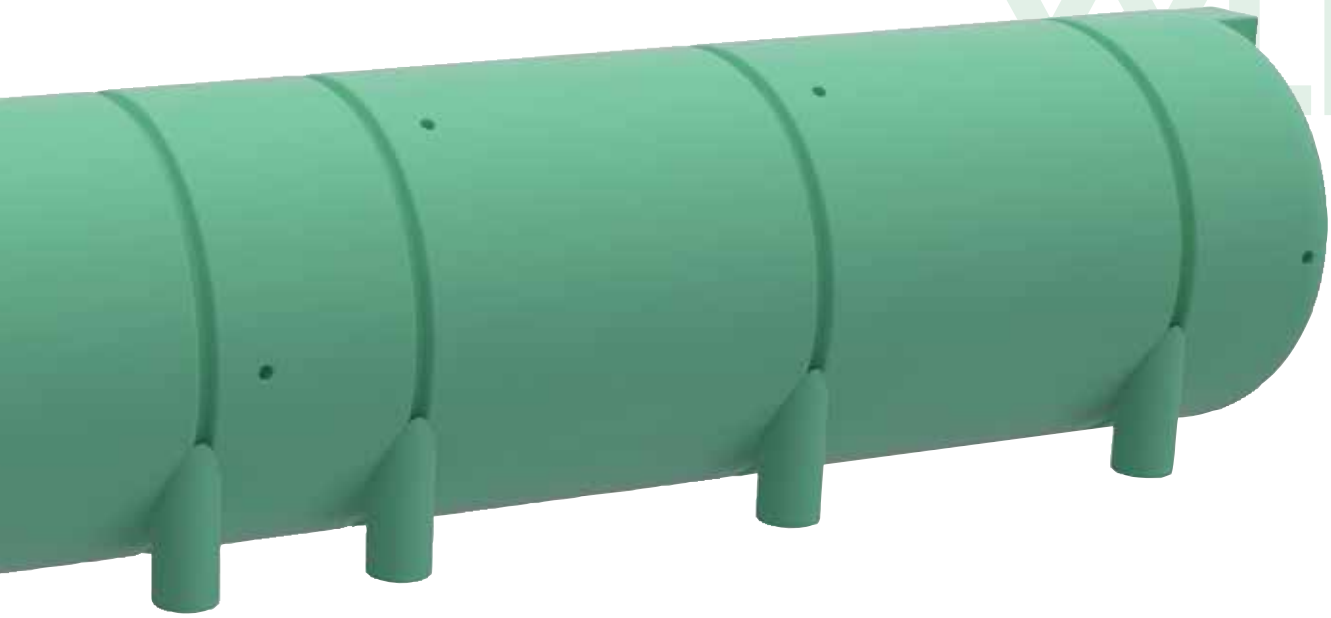
- Water storage for civil use;
- Water storage for industrial use;
- Reserves for fire-fighting systems;
- Rainwater harvesting;
- Service tanks in water and wastewater treatment systems.

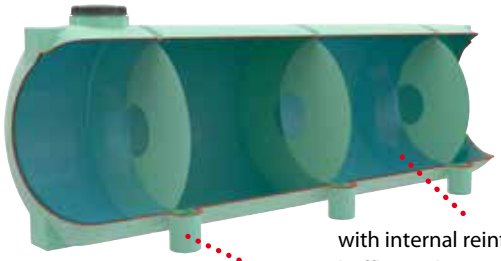


ADDITIONAL LIDS

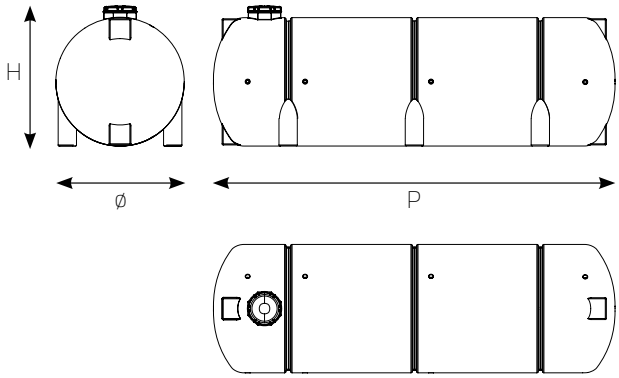
(Code KIT TRLM 550)
On request, XXLE tanks can be fitted with more than one lid (but no more than one per module).

HORIZONTAL TANKS





with internal reinforcing baffles with opening ø 600 mm



LARGE-CAPACITY TANK "XXLE" from 10000 to 60000 liters

Item (Food grade)	Capacity (liters)	Vent *	Dimensions (cm)			Lid ø (mm)	No. of feet	€
			H	ø	P			
XXLE 10000	10000		255	238	275	550	4	**7.573,22**
XXLE 15000	15000		255	238	394	550	4	**10.879,21**
XXLE 20000	20000		255	238	510	550	4	**14.174,46**
XXLE 25000	25000		255	238	630	550	6	**17.348,87**
XXLE 30000	30000		255	238	746	550	6	**19.416,60**
XXLE 35000	35000		255	238	865	550	8	**24.044,97**
XXLE 40000	40000		255	238	982	550	8	**26.119,37**
XXLE 45000	45000		255	238	1100	550	10	**31.027,49**
XXLE 50000	50000		255	238	1218	550	10	**34.369,78**
XXLE 55000	55000		255	238	1336	550	12	**37.461,42**
XXLE 60000	60000		255	238	1453	550	12	**on request

* Fitted by the customer.
** Ask for a quote based on intended use.



Download the data sheet

Fittings and accessories on request on p. 60

Standard Single H_2O

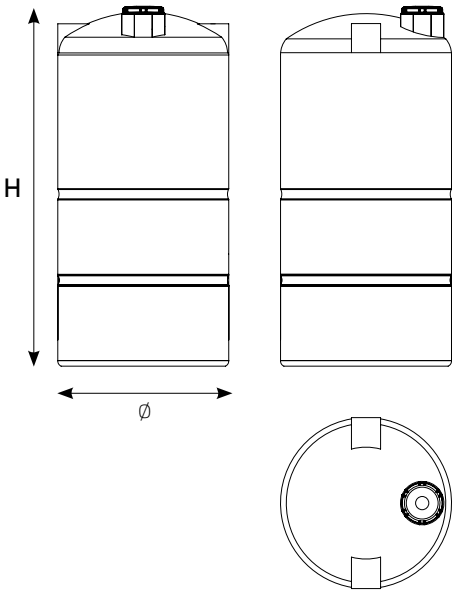
Key: 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

LARGE-CAPACITY VERTICAL TANK



NSV 20000



VERTICAL TANK "NSV" 20000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Molded fittings			€
		H	ø			Outlet	Over-flow	Drain Total	
NSV 20000	20000	505	238	550		-	-	-	**16.100,27**

Fittings and accessories on request on p. 60

Modular tank
Single color H_2O



Download the data sheet

Key: 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



BUNKER AQUARIUS®

UNDERGROUND TANKS

BUNKER line tanks are suitable for underground installation and are made of black mass-colored polymers; they can also be made of virgin raw materials suitable for food use. The monolithic structure and wall thickness of BUNKER tanks provide mechanical strength that makes them suitable for burial and resistant to temperature changes between -60°C and +80°C, and they can hold liquids with (non-continuous) peaks between -10°C and +50°C. They are 100% recyclable and guaranteed cadmium-free and against algae growth.

Onda AQUARIUS® Triple Layer

BUNKER AQUARIUS®



INPA 500



INPB 1000



INVSV 1500/6000



INVSV 10000

GENERAL TABLE BY CAPACITY
VERTICAL TANKS "INPA, INPB, INVSV"

Item (Food grade)	Capacity (liters)	Dimensions (cm)				Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P	ø				
INPA 500	500	116	-	-	80	420	■	CL 420	**363,30**
INPB 1000	1000	108	-	-	120	420	■	CL 420	**610,88**
INVSV 1500	1360	150	117	117	-	420	◡	CL 420	**847,98**
INVSV 2000	2265	182	136	136	-	420	◡	CL 420	**1.035,38**
INVSV 3000	3107	219	146	146	-	420	◡	CL 420	**1.639,37**
INVSV 4000	4200	224	165	165	-	420	◡	CL 420	**1.998,11**
INVSV 5000	5110	229	184	184	-	420	◡	CL 420	**2.415,91**
INVSV 6000	5983	257	185	185	-	420	◡	CL 420	**3.088,00**
INVSV 10000	10000	260	-	-	238	550	⬭ *	CL 550 F	**5.238,70**

* Fitted by the customer.

Download the data sheet

Fittings and accessories on request on p. 60

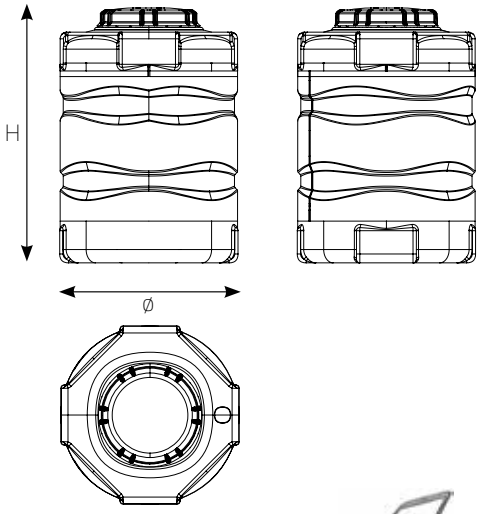
Key:
- ■ 2" vent fitting (male)
- ◡ Provision for 1" vent fitting (female)
- ⬭ 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Fittings and accessories on request on p. 60



Triple Layer



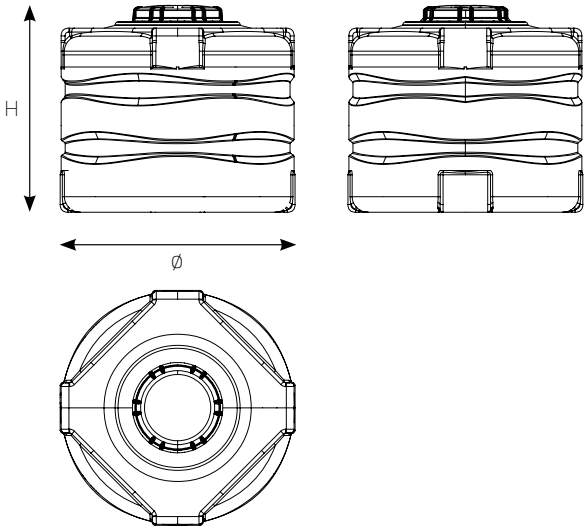
ONDA TANK "INPA" 500 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Turret Compatible	€
		H	ø				
INPA 500	500	116	80	420	■	CL 420	**363,30**

Download the data sheet



Triple Layer



ONDA TANK "INPB" 1000 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Turret Compatible	€
		H	ø				
INPB 1000	1000	108	120	420	■	CL 420	**610,88**

Standard color: GS

For diesel storage see p. 256

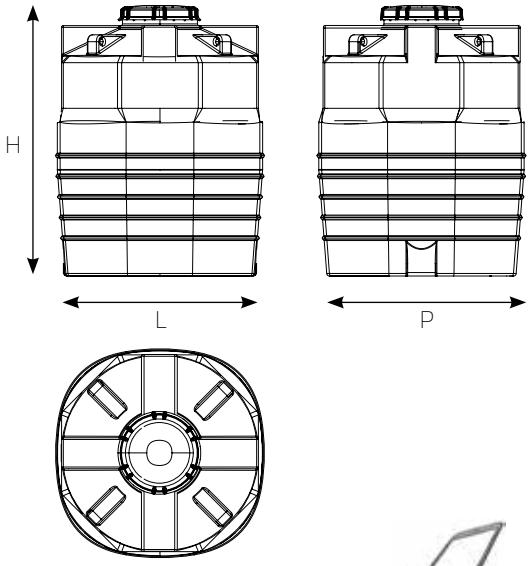
Key: ■ 2" vent fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Fittings and accessories on request on p. 60



INVSV 1500-6000



BUNKER VERTICAL TANK "INVSV" from 1500 to 10000 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P				
INVSV 1500	1360	150	117	117	420		CL 420	847,98
INVSV 2000	2265	182	136	136	420		CL 420	1.035,38
INVSV 3000	3107	219	146	146	420		CL 420	1.639,37
INVSV 4000	4200	224	165	165	420		CL 420	1.998,11
INVSV 5000	5110	229	184	184	420		CL 420	2.415,91
INVSV 6000	5983	257	185	185	420		CL 420	3.088,00
INVSV 10000	10000	260	238	238	550	*	CL 550 F	5.238,70

Download the data sheet

Standard color: BL

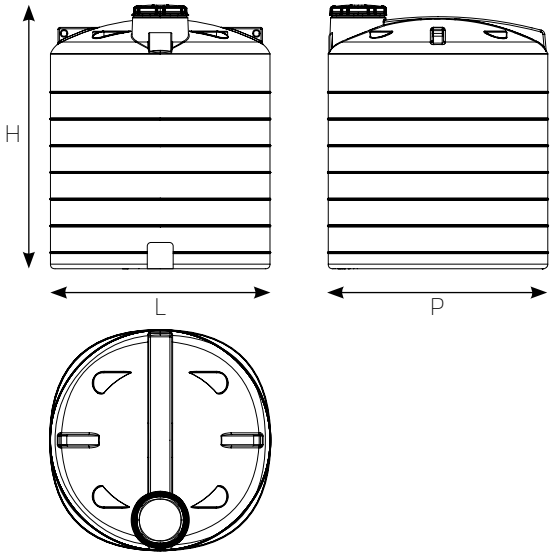
For diesel storage see p. 256

INVSV 10000, lid in SIDE position.

* Fitted by the customer.



INVSV 10000



Key: Provision for 1" vent fitting (female) 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



INCO 1000



INCON 2000/3000/10000



NER 10000



CIV 5000

GENERAL TABLE BY CAPACITY
BUNKER HORIZONTAL TANKS "INCO, INCON, CIV and NER"

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P				
INCO 1000	1000	91	81	203	320		CL 320	**877,17**
INCON 2000	1950	144	136	155	320		CL 320	**1.380,51**
INCON 3000*	2970	193	160	185	420		CL 420	**1.925,46**
CIV 5000 ***	5000	167	149	298	550		CL 550	**2.564,81**
INCON 7500**	7150	217	189	318	550		CL 550	**5.051,59**
INCON 10000**	10400	255	225	310	550		CL 550	**5.958,02**
NER 10000	9200	275	229	270	550		/	**5.425,80**

* With CL 420 turret ** With CL 550 turret *** Vent fitted by the customer

Download the data sheet

Key:
- 2" vent fitting (male)
- Provision for 1" vent fitting (female)
- 2" PE bulkhead fitting (male)

Standard color: BL

For diesel storage see p. 256

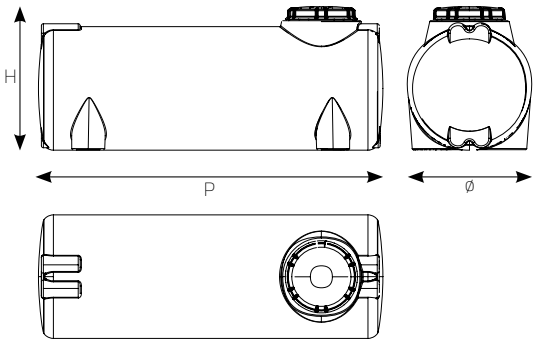
Fittings and accessories on request on p. 60

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Standard color: BL

For diesel storage see p. 256



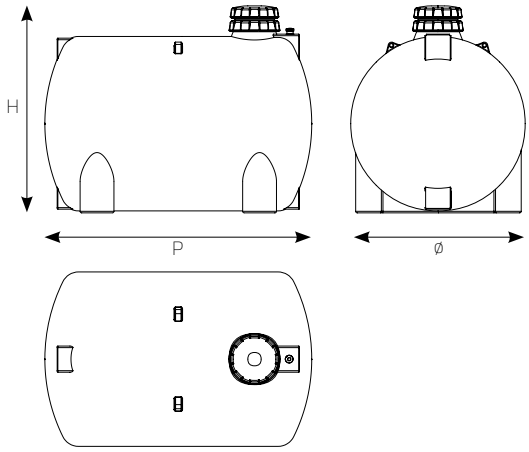


BUNKER HORIZONTAL TANK "INCO" 1000 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P				
INCO 1000	1000	91	81	203	320		CL 320	877,17



INCON 7500



BUNKER HORIZONTAL TANKS "INCON" from 2000 to 7500 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P				
INCON 2000	1950	144	136	155	320		CL 320	1.380,51
INCON 3000*	2970	193	160	185	420		CL 420	1.925,46
INCON 7500**	7150	217	189	318	550		CL 550	5.051,59
INCON 10000**	10400	255	225	310	550		CL 550	5.958,02

* With CL 420 turret ** With CL 550 turret



Download the data sheet

Key:

Provision for 1" vent fitting (female)

2" vent fitting (male)

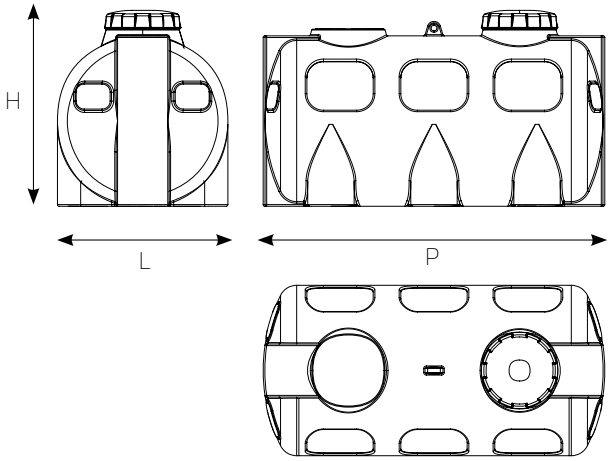
Fittings and accessories on request on p. 60

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Standard color: BL

For diesel storage see p. 256





HORIZONTAL TANK "CIV" 5000 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	Turret Compatible	€
		H	L	P				
CIV 5000	5000	167	149	298	550	*	CL 550	**2.564,81**

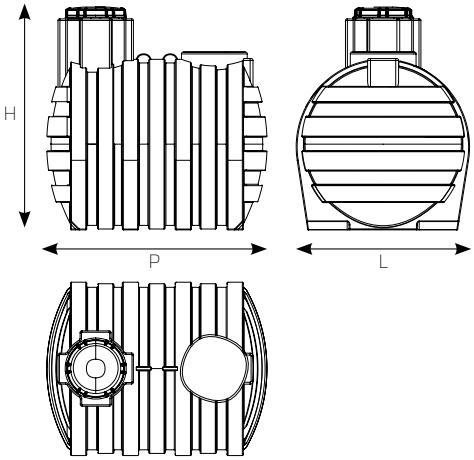
* Fitted by the Customer



Download the data sheet



NER 10000



BUNKER HORIZONTAL TANKS "NER" 10000 liters

Item (Food grade)	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	€
		H	L	P			
NER 10000	9200	275	229	270	550	■	**5.425,80**

Fittings and accessories on request on p. 60

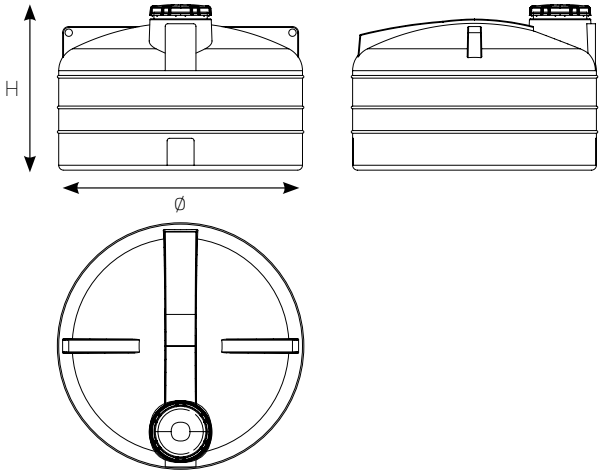
Key: 2" PE bulkhead fitting (male) ■ 2" vent fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

TANK FOR SHALLOWER EXCAVATIONS







GENERAL TABLE BY CAPACITY
PANETTONE TANKS "INPAN"

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	Turret Compatible	€
		H	ø				
INPAN 2000	2050	139	157	420	■	CL 420	**1.380,51**
INPAN 3000	3050	128	194	420	■	CL 420	**1.925,46**
INPAN NEW 5000	4950	142	238	420	■	CL 420	**2.393,31**

Download the data sheet

Standard color: BL

For diesel storage see p. 256

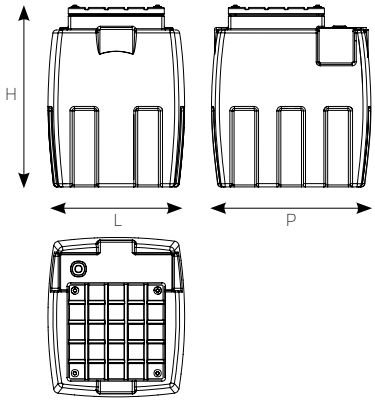
Fittings and accessories on request on p. 60

Key: ■ 2" vent fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

TANK FOR LIFTING STATION





TANKS FOR LIFTING STATIONS "NSDS" from 100 to 200 liters

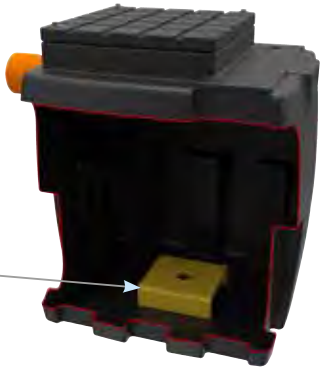
ITEM	Capacity (liters)	Dimensions (cm)			Lid with locking pins M10 (cm)	€
		H	L	P		
NSDS 100	100	62	45	53	36x36	**218,88**
NSDS 200	200	74	55	65	41x41	**371,34**



Download the data sheet

NEW

The tank has an internal plate for fixing the coupling kit of the lifting pumps.
The plate means the tank does not need to be drilled at the bottom.
(Size 180x215xH60 mm)



TANKS FOR LIFTING STATIONS "NSDS PLUS" from 100 to 200 liters

ITEM	Capacity (liters)	Dimensions (cm)			H (cm) plate	Lid with locking pins M10 (cm)	€
		H	L	P			
NSDS PLUS 100	100	62	45	53	6	36x36	**338,88**
NSDS PLUS 200	200	74	55	65	6	41x41	**491,34**

NEW

Standard color: BL

For diesel storage see p. 240

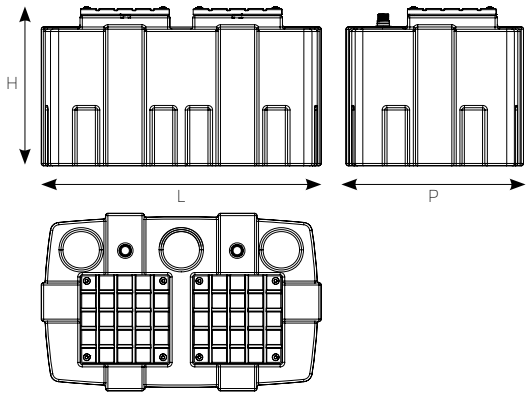
Fittings and accessories on request on p. 60

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

TANK FOR LIFTING STATION WITH DOUBLE LID

NEW





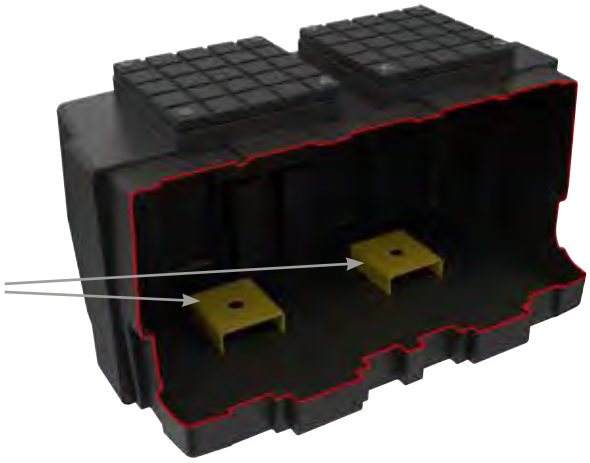
TANKS FOR LIFTING STATIONS "NSDS" 500 liters

	ITEM	Capacity (liters)	Dimensions (cm)			Lid with locking pins M10 (cm)	€
			H	L	P		
NEW	NSDS 500	500	70	125	78	2x (41x41)	**742,68**



Download the data sheet

The tank has internal plates for fixing the coupling kit of the lifting pumps.
The plates mean the tank does not need to be drilled at the bottom.
(Size 180x215xH60 mm)



TANKS FOR LIFTING STATIONS "NSDS PLUS" 500 liters

	ITEM	Capacity (liters)	Dimensions (cm)			H (cm) plate	Lid with locking pins M10 (cm)	€
			H	L	P			
NEW	NSDS PLUS 500	500	70	125	78	6	2x (41x41)	**982,68**

Standard color: BL

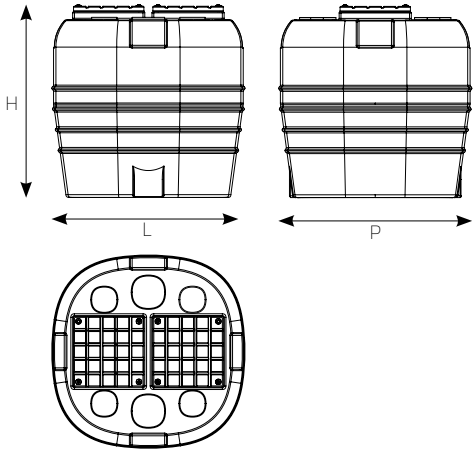
For diesel storage see p. 256

Fittings and accessories on request on p. 60

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

TANK FOR LIFTING STATION WITH DOUBLE LID





TANK FOR LIFTING STATION "NSDS" 800 liters

ITEM	Capacity (liters)	Dimensions (cm)			Lid with locking pins M10 (cm)	€
		H	L	P		
NSDS 800	830	107	107	107	2x (41x41)	**957,36**



Download the data sheet

Standard color: BL

For diesel storage see p. 256

Fittings and accessories on request on p. 60

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

HORIZONTAL TANKS

XXLI



2 modules
10.000 liters

2 modules
15.000 liters

2 modules
20.000 liters

3 modules
25.000 liters

3 modules
30.000 liters

4 modules
35.000 liters

4 modules
40.000 liters

5 modules
45.000 liters

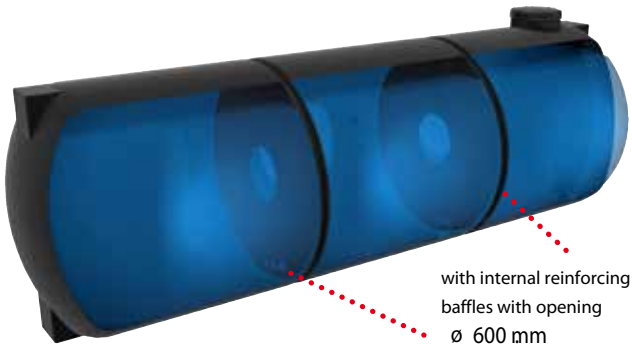
5 modules
50.000 liters

6 modules
55.000 liters

6 modules
60.000 liters

XXLI tanks consist of monolithic polyethylene modules designed and sized with the aid of F.E.M. analysis to withstand both internal hydraulic pressure and static soil pressure. Linear polyethylene (PE) is a raw material with the best properties in terms of food use and resistance to organic and inorganic chemical agents. XXLI are **modular underground tanks with a capacity ranging from a minimum of 10.000 liters to a maximum of 60.000 liters.**

XXLI large-capacity tanks are designed to meet the need to collect and store water for a wide range of uses, such as:
- Water storage for civil use;
- Water storage for industrial use;
- Reserves for fire-fighting systems;
- Rainwater harvesting;
- Service tanks in water and wastewater treatment systems.



HORIZONTAL TANKS

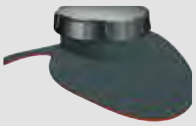
XXLI



Fittings and accessories on request on p. 60

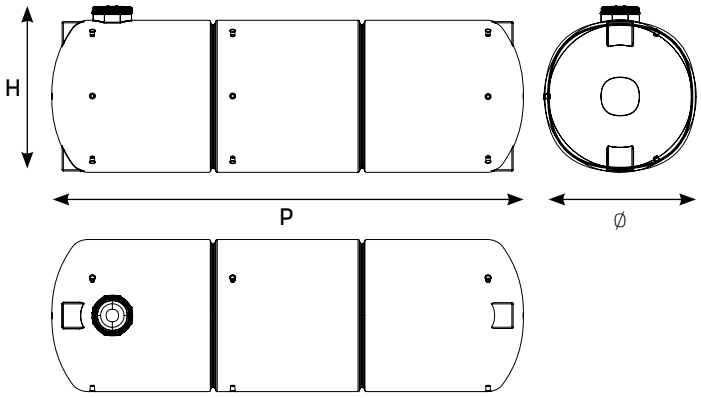
Standard color: BL

For diesel storage see p. 256



ADDITIONAL LIDS

(Code KIT TRLM 550)
On request, XXLI tanks can be fitted with more than one lid (but no more than one per module).



UNDERGROUND LARGE-CAPACITY TANKS "XXLI" from 10000 to 60000 liters

Item	Capacity (liters)	Vent *	Dimensions (cm)			Lid ø (mm)	Compatible turret	€
			H	ø	P			
XXLI 10000	10000		255	238	275	550	CL 550 F	5.958,02
XXLI 15000	15000		255	238	394	550	CL 550 F	9.264,00
XXLI 20000	20000		255	238	510	550	CL 550 F	12.344,94
XXLI 25000	25000		255	238	630	550	CL 550 F	15.519,35
XXLI 30000	30000		255	238	746	550	CL 550 F	17.801,40
XXLI 35000	35000		255	238	865	550	CL 550 F	22.429,77
XXLI 40000	40000		255	238	982	550	CL 550 F	24.504,17
XXLI 45000	45000		255	238	1100	550	CL 550 F	29.412,28
XXLI 50000	50000		255	238	1218	550	CL 550 F	32.754,58
XXLI 55000	55000		255	238	1336	550	CL 550 F	35.846,21
XXLI 60000	60000		255	238	1453	550	CL 550 F	**on request



Download the data sheet

* Fitted by the customer.
** Ask for a quote based on intended use.

Key: 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Telcom tanks can be fitted out to meet specific customer requirements, which must be agreed with our Technical Department.

PE 100 PN 16 stub end with flange (nominal diameters)





	Item	Description	€
		FLAT AREA	
NEW	STUB END DN 50	DE50 PE100 PN16 stub end with coated Al DN40 PN16 flange	**372,63**
	STUB END DN63	DE63 PE100 PN16 stub end with coated Al DN50 PN16 flange	**380,21**
NEW	STUB END DN 75	DE75 PE100 PN16 stub end with coated Al DN65 PN16 flange	**390,32**
	STUB END DN90	DE90 PE100 PN16 stub end with coated Al DN80 PN16 flange	**408,00**
	STUB END DN110	DE110 PE100 PN16 stub end with coated Al DN100 PN16 flange	**441,68**
		NON-FLAT AREA	
NEW	CART DN50 ZNP	DE50 PE100 PN16 stub end with coated Al DN40 PN16 flange	**521,68**
	CART DN63 ZNP	DE63 PE100 PN16 stub end with coated Al DN50 PN16 flange	**532,29**
NEW	CART DN75 ZNP	DE75 PE100 PN16 stub end with coated Al DN65 PN16 flange	**546,44**
	CART DN90 ZNP	DE90 PE100 PN16 stub end with coated Al DN80 PN16 flange	**571,20**
	CART DN110 ZNP	DE110 PE100 PN16 stub end with coated Al DN100 PN16 flange	**618,36**

(for other DN sizes contact our Technical Department)
Not applicable to the following tanks:
NSV from 100 to 5000 liters, PAN from 300 to 3000 liters, for PAN 5000 and 7500 up to max DN90, PN 200, ONDA series
Alternatively, suitable 1" 1/4M and 2"M brass bulkhead fittings can be fitted

PE 100 PN 16 pipe (nominal diameters)





Item	Description	€
	FLAT AREA	
TUBO DN63 ZP	PE100 PN16 DN63 pipe on FLAT AREA	**271,78**
TUBO DN90 ZP	PE100 PN16 DN90 pipe on FLAT AREA	**283,48**
TUBO DN110 ZP	PE100 PN16 DN110 pipe on FLAT AREA	**293,20**
TUBO DN125 ZP	PE100 PN16 DN125 pipe on FLAT AREA	**332,88**
TUBO DN160 ZP	PE100 PN16 DN160 pipe on FLAT AREA	**391,88**
TUBO DN200 ZP	PE100 PN16 DN200 pipe on FLAT AREA	**508,48**
	NON-FLAT AREA	
TUBO DN63 ZNP	PE100 PN16 DN63 pipe on NON-FLAT AREA	**380,49**
TUBO DN90 ZNP	PE100 PN16 DN90 pipe on NON-FLAT AREA	**396,87**
TUBO DN110 ZNP	PE100 PN16 DN110 pipe on NON-FLAT AREA	**410,49**
TUBO DN125 ZNP	PE100 PN16 DN125 pipe on NON-FLAT AREA	**466,04**
TUBO DN160 ZNP	PE100 PN16 DN160 pipe on NON-FLAT AREA	**548,63**
TUBO DN200 ZNP	PE100 PN16 DN200 pipe on NON-FLAT AREA	**711,88**

Not applicable to the following tanks:
NSV from 100 to 5000 liters, PAN from 300 to 3000 liters, for PAN 5000 and 7500 up to max DN90, PN 200, ONDA series

Telcom tanks can be fitted out to meet specific customer requirements, which must be agreed with our Technical Department.

PE/BRASS TRANSITION FITTING (male)

Item	Description	€
	FLAT AREA	
TRA M 1" 1/4 ZP	1" 1/4 male transition fitting - FLAT AREA	**338,95**
TRA M 2" ZP	2" male transition fitting - FLAT AREA	**386,11**
TRA M 3" ZP	3" male transition fitting - FLAT AREA	**562,11**
TRA M 4" ZP	4" male transition fitting - FLAT AREA	**746,53**
	NON-FLAT AREA	
TRA M 1" 1/4 ZNP	1" 1/4 male transition fitting - NON-FLAT AREA	**474,53**
TRA M 2" ZNP	2" male transition fitting - NON-FLAT AREA	**540,55**
TRA M 3" ZNP	3" male transition fitting - NON-FLAT AREA	**786,95**
TRA M 4" ZNP	4" male transition fitting - NON-FLAT AREA	**1.045,14**



PE part welded to the tank, brass part available to the installer.

Not applicable to the following tanks:
NSV from 100 to 5000 liters, PAN from 300 to 3000 liters, PN 200, ONDA series.

PE/BRASS TRANSITION FITTING (female)

Item	Description	€
	FLAT AREA	
TRA F 1" 1/4 ZP	1" 1/4 female transition fitting - FLAT AREA	**334,74**
TRA F 2" ZP	2" female transition fitting - FLAT AREA	**392,84**
TRA F 3" ZP	3" female transition fitting - FLAT AREA	**613,47**
TRA F 4" ZP	4" female transition fitting - FLAT AREA	**828,21**
	NON-FLAT AREA	
TRA F 1" 1/4 ZNP	1" 1/4 female transition fitting - NON-FLAT AREA	**468,63**
TRA F 2" ZNP	2" female transition fitting - NON-FLAT AREA	**549,98**
TRA F 3" ZNP	3" female transition fitting - NON-FLAT AREA	**858,86**
TRA F 4" ZNP	4" female transition fitting - NON-FLAT AREA	**1.159,49**



PE part welded to the tank, brass part available to the installer.

Not applicable to the following tanks:
NSV from 100 to 5000 liters, PAN from 300 to 3000 liters, PN 200, ONDA series.



FLANGED FLEXIBLE JOINT

Item	Description	€
GIUNTO EL. D63	Flanged flexible joint PN 16 D 63	**150,56**
GIUNTO EL. D90	Flanged flexible joint PN 16 D 90	**212,69**
GIUNTO EL. D110	Flanged flexible joint PN 16 D 110	**258,09**

Fitted by the end user/customer



BRASS FITTING FOR WATER

Item	Description	€
RACC. BRON. 1" 1/4	1" 1/4 brass bulkhead fitting for water	**71,74**
RACC. BRON. 2" *	2" brass bulkhead fitting for water	**73,08**

*Not applicable to the following tanks: from CON 300 to CON 3000

BRASS FITTING FOR DIESEL

Item	Description	€
RACC. BRON. 1" 1/4 G	1" 1/4 brass bulkhead fitting for diesel	**71,74**
RACC. BRON. 2" G *	2" brass bulkhead fitting for diesel	**73,08**

*Not applicable to the following tanks: from CON 300 to CON 3000

CL TURRETS

Item	Description	€
CL 140	Turret for ø 140 openings	**65,34**
CL 320	Turret for ø 320 openings	**119,63**
CL 420	Turret for ø 420 openings	**88,80**
CL 550 F	Turret for ø 550 openings	**286,85**

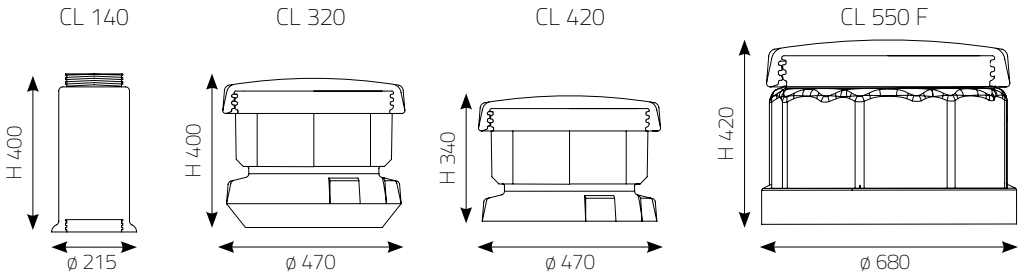
Code: CL 140 (for ø 140 mm openings) - Without cap dimensions cm ø 21,5; H 40;
Code: CL 320 (for ø 320 mm openings) - With ø 420 cap dimensions cm ø 47; H 40;
Code: CL 420 (for ø 420 mm openings) - Without cap dimensions cm ø 47; H 34;
Code: CL 550 F (for ø 550 mm openings) - Without cap dimensions cm ø 68; H 42;


CL 140


CL 320


CL 550 F


CL 420





SCREW LID

Item	Description	€
F 220	Screw lid for ø 220 openings	**22,40**
ITF 32	Screw lid for ø 320 openings	**26,89**
ITF 42	Screw lid for ø 420 openings	**44,78**
F 550	Screw lid for ø 550 openings	**131,35**



SEAL
Double-lip seal

Item	Description	€
Seal ø 100	Double-lip seal	7,84
Seal ø 125	Double-lip seal	8,39
Seal ø 160	Double-lip seal	9,32
Seal ø 200	Double-lip seal	45,69
Seal ø 250	Double-lip seal	59,17
Seal ø 315	Double-lip seal	68,17
Seal ø 400	Double-lip seal	136,34



Additional LID

Item	Description	€
KIT TRLM 550	Additional lids for CIV, NER, XXLI and XXLE series	286,85



QUICK-SHUTOFF HYDRAULIC FLOAT VALVE
(Float)
Code: REGOLATORE 3/4"
dimensions: 3/4 inch connection

Item	Description	€
REGOLATORE 3/4"	Quick-shutoff hydraulic float valve, 3/4" connection	36,42

Industria AQUARIUS®



INDUSTRIA line tanks are made of natural-colored polymers with additives to resist U.V. rays. Their particular color and wall thickness make them suitable for storing chemicals. If used for water (including drinking water) or liquid foods, the tank must be installed out of direct sunlight, as the natural color could allow algae to form (for these uses we recommend our above-ground tank line). They are 100% recyclable, guaranteed cadmium-free and intended for above-ground installation. The table below gives an indicative list of chemical agents that can be stored in INDUSTRIA tanks:

Vinegar
Acetic acid (up to 10%)
Arsenic acid (all conc.)
Ascorbic acid (10%)
Benzoic acid (all conc.)
Boric acid (all conc.)
Hydrobromic acid (50%)
Carbonic acid
Cyanic acid
Citric acid (sat.)
Hydrochloric acid (dry gas)
Hydrochloric acid (all conc.)
Diglycolic acid
Fluoboric acid
Hydrofluoric acid (10%)
Fluosilicic acid (30%)
Formic acid (all conc.)
Gallic acid
Glycolic acid
Hypochlorous acid
Nitric acid (up to 30%)
Oxalic acid
Salicylic acid
Selenic acid
Hydrogen sulfide
Sulfuric acid (up to 50%)
Sulfurous acid
Stearic acid (100%)
Tannic acid
Chlorine water (sat. sol. 2%)
Seawater
Wetting agents
Amyl alcohol
Butyl alcohol
Coconut oil alcohol
Ethyl alcohol
Ethyl alcohol (35%)
Methyl alcohol (100%)
Propargyl alcohol
Propyl alcohol
Alum (all types)
Aluminum chloride (all conc.)
Aluminum fluoride (all conc.)
Aluminum sulfate (all conc.)
Starch (saturated solution)
Ammonia (100% gas)
Ammonium carbonate
Ammonium chloride (sat. sol.)
Ammonium fluoride (sat. sol.)
Ammonium hydroxide (up to 30%)
Ammonium nitrate (sat. sol.)
Ammonium persulfate (sat. sol.)
Ammonium sulfate (sat. sol.)
Carbon dioxide
Silver nitrate (sol.)
Air
Barium carbonate (sat. sol.)
Barium chloride (sat. sol.)
Barium hydroxide
Barium sulfate (sat. sol.)
Barium sulfide (sat. sol.)
Beer
Bismuth carbonate (sat. sol.)
Borax
Boron trifluoride
Butanediol (100%)
Butanediol (10%)
Butanediol (50%)
Coffee
Calcium bisulfite
Calcium carbonate (sat. sol.)
Calcium chlorate (sat. sol.)
Calcium chloride (sat. sol.)
Calcium hydroxide (all conc.)
Calcium hypochlorite
Calcium nitrate (50%)
Calcium oxide (sat. sol.)
Calcium sulfate
Cola concentrates
Dextrin
Dextrose
Dextrose (sat. aqueous sol.)
Synthetic detergents
Diethylene glycol
Photographic emulsions
Hexachlorobenzene
Tertiary hexanol
Ferric chloride
Ferrous chloride
Ferric nitrate
Ferrous nitrate
Disodium phosphate
Trisodium phosphate
Fructose
Diesel
Glycerine
Glycol
Triethylene glycol
Ethylene glycol
Glucose
Hydroquinone
Hydrogen
Ink
Milk
Photographic developers
Lye (10%)
Yeast
Magnesium carbonate
Magnesium chloride
Magnesium hydroxide
Magnesium nitrate
Magnesium sulfate
Mercury
Nickel chloride
Nickel nitrate
Nickel sulfate
Nicotine (diluted)
n-Octane
Cottonseed oil
Corn oil
Castor oil (all conc.)
Carbon monoxide (all conc.)
Lead acetate
Lead nitrate
Pyridine
Fruit pulp
Potassium bicarbonate
Potassium bromide
Potassium carbonate
Potassium cyanide
Potassium chlorate
Potassium chloride
Potassium chromate (40%)
Potassium dichromate (40%)
Potassium hexacyanoferrate II
Potassium hexacyanoferrate III
Potassium fluoride
Potassium hydroxide (conc.)
Potassium nitrate
Potassium perchlorate (10%)
Potassium permanganate (20%)
Potassium persulfate
Potassium sulfate (conc.)
Potassium sulfite (conc.)
Potassium sulfide (conc.)
Propylene glycol
Copper cyanide (sat.)
Copper chloride (sat.)
Copper fluoride (2%)
Copper nitrate (sat.)
Copper sulfate (sat.)
Resorcinol
Brine
Diazo salts
Cider
Sodium acetate
Sodium benzoate (35%)
Sodium bicarbonate
Sodium dichromate
Sodium bisulfate
Sodium bisulfite
Sodium borate
Sodium bromide
Sodium carbonate
Sodium cyanide
Sodium chlorate
Sodium chloride
Sodium ferro/ferricyanide
Sodium fluoride
Sodium hydroxide
Sodium hypochlorite
Sodium nitrate
Sodium sulfate
Sodium sulfite
Sodium sulfide
Soap solution (all conc.)
Photographic solutions
Silver plating solutions
Cadmium plating solutions
Nickel plating solutions
Gold plating solutions
Brass plating solutions
Lead plating solutions
Copper plating solutions
Tin plating solutions
Zinc plating solutions
Stannic chloride
Stannous chloride
Urea (30%)
Vanilla
Wines
Whisky
Zinc bromide
Zinc carbonate
Zinc chloride
Zinc oxide
Zinc sulfate
Zinc stearate

The data in this table are purely indicative, since the chemical resistance of the products depends on their shape and conditions of use. Please contact our Technical Department in advance.

Industria AQUARIUS®

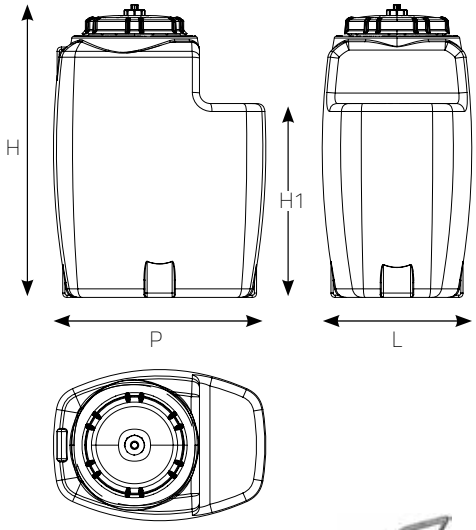
Fittings and accessories on request on p. 73

Standard color: NE





Application example,
pump not supplied.
Max accessory weight 20 kg.



TANK FOR SELF-PRIMING PUMP "SPPI" from 300 to 800 liters

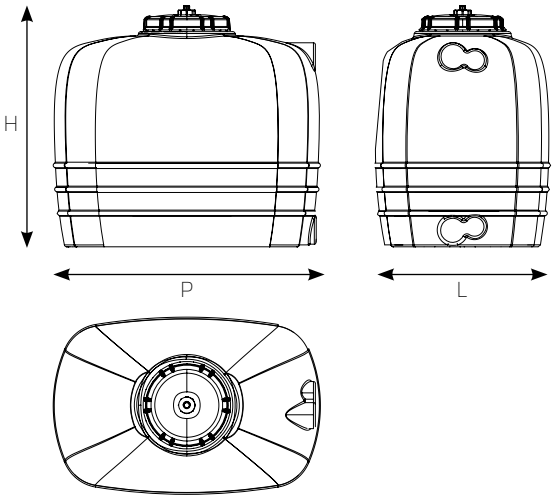
Item	Capacity H (liters)	Capacity H1 (liters)	Dimensions (cm)				Lid ø (mm)	Vent	€
			H	H1	L	P			
SPPI 300	376	265	96	57	65	93	420		459,80
SPPI 500	572	458	131	89	69	99	420		735,68
SPPI 800	900	780	170	130	69	129	420		1.333,42



Download the data sheet

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).





SQUARE TANK "CQ" from 200 to 300 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	€
		H	L	P			
CQ 200	200	77	49	84	320		333,38
CQ 300	290	75	66	88	320		418,76

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).

Key: Industria valve on lid

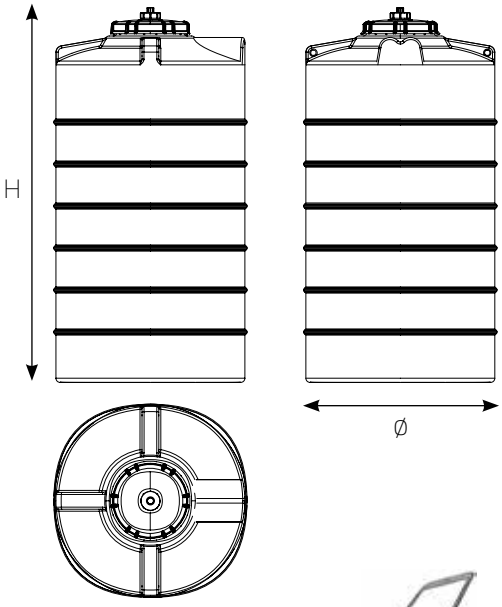
Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



CVE 100/4000

Standard color: NE

Fittings and accessories on request on p. 73



VERTICAL TANKS "CVE" from 100 to 4000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	€
		H	ø			
CVE 100	100	72	48	320		156,21
CVE 200	200	90	60	320		184,98
CVE 500	500	153	70	320		462,47
CVE 1000	1000	178	92	320		693,71
CVE 1500	1500	187	110	420		924,95
CVE 2000	2000	187	127	420		1.417,60
CVE 3000	3000	207	147	420		1.944,80
CVE 4000	4000	211	169	420		2.832,23

Note: CVE vertical tanks up to 4000 liters have a CENTRAL lid.
From 5000 liters upwards the lids are in SIDE position.

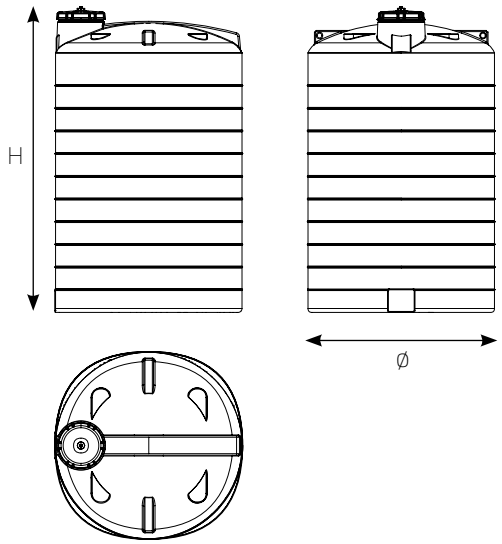


Download the data sheet

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).



CVE 5000/16000



VERTICAL TANKS "CVE" from 5000 to 16000 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	€
		H	ø			
CVE 5000	5000	194	203	420		3.463,17
CVE 10000	10000	265	238	550		7.548,98
NEW CVE 16000	16000	384	238	550		11.437,85

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).

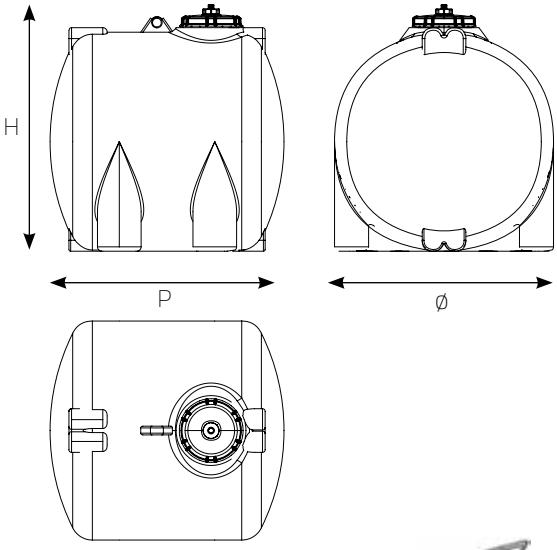
Key: Industria valve on lid

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Standard color: (NE)

Fittings and accessories on request on p. 73





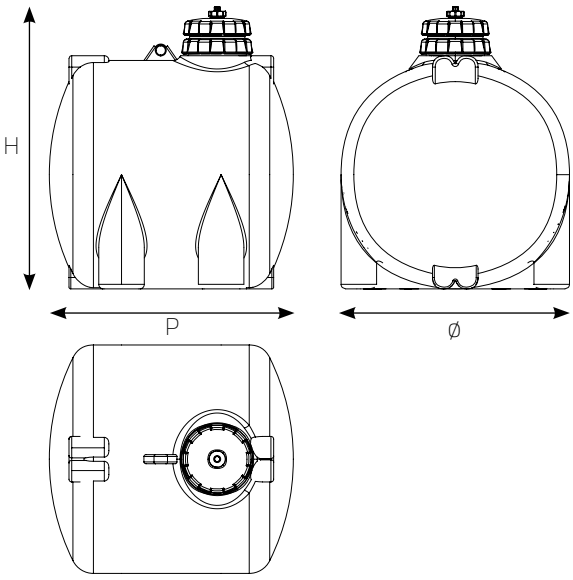
HORIZONTAL TANK "COR" from 500 to 5000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	€
		H	L	P			
COR 500	500	99	87	98	320		596,03
COR 1000	1050	120	106	127	320		855,76
COR 2000	1950	149	136	155	320		1.646,53
COR 3000	2970	171	160	185	420		2.739,25
COR 5000	4950	191	178	232	420		4.177,34

Download the data sheet

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).





HORIZONTAL TANK "COR" 10000 liters

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Vent	€
		H	L	P			
COR 10000 *	10400	235	225	310	550		8.832,08

* With CL 550 turret

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).

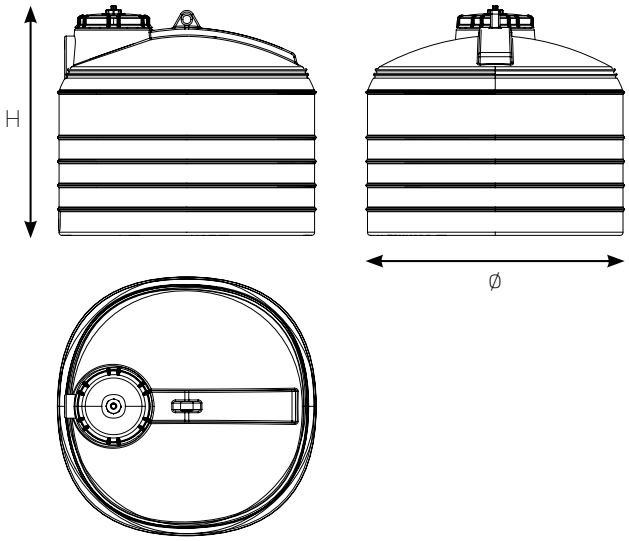
Key: Industria valve on lid

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

Standard color: (NE)

Fittings and accessories on request on p. 73





PANETTONE TANK "CCI" from 2000 to 7500 liters

Item	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Vent	€
		H	ø			
CCI 2000	2050	144	157	420		1.407,35
CCI 3000	3050	133	194	420		1.626,39
CCI 5000	4950	147	238	420		3.290,07
CCI 7500	7550	203	238	420		4.615,97



Download the data sheet

Note: some Industria tank models can optionally be fitted with level indicators. Ask our Technical Department (see p. 72).

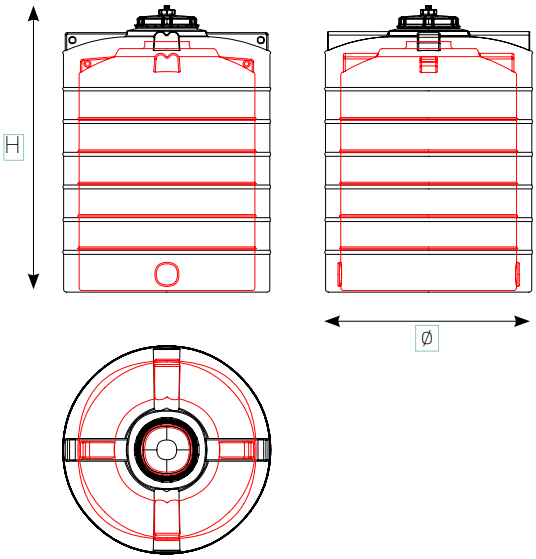
Key: Industria valve on lid

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

DOUBLE-CHAMBER TANKS OUTDOOR

Tanks made of natural-colored polymers, suitable for storing chemicals, featuring a safety chamber that contains any accidental spills.





DOUBLE-CHAMBER VERTICAL TANKS "SVDC" from 100 to 5000 liters

Item	Capacity Inner tank (liters)	Dimensions (cm) Outer tank		Lid Inner tank ø (mm)	Lid Outer tank ø (mm)	Lid Vent	€
		H	ø				
SVDC 100	100	85	60	320	320		850,57
SVDC 200	200	125	70	320	320		1.185,87
SVDC 1000	1000	182	110	320	420		2.157,05
SVDC 2000	2000	202	147	420	420		3.900,79
SVDC 3000	3000	206	169	420	420		5.315,42
SVDC 5000	5000	233	238	420	550		11.550,54



Download the data sheet

Note: DOUBLE-CHAMBER systems can be supplied with optional level indicators for the interspace, the inner tank or both (see p. 72).

Standard color: (NE)

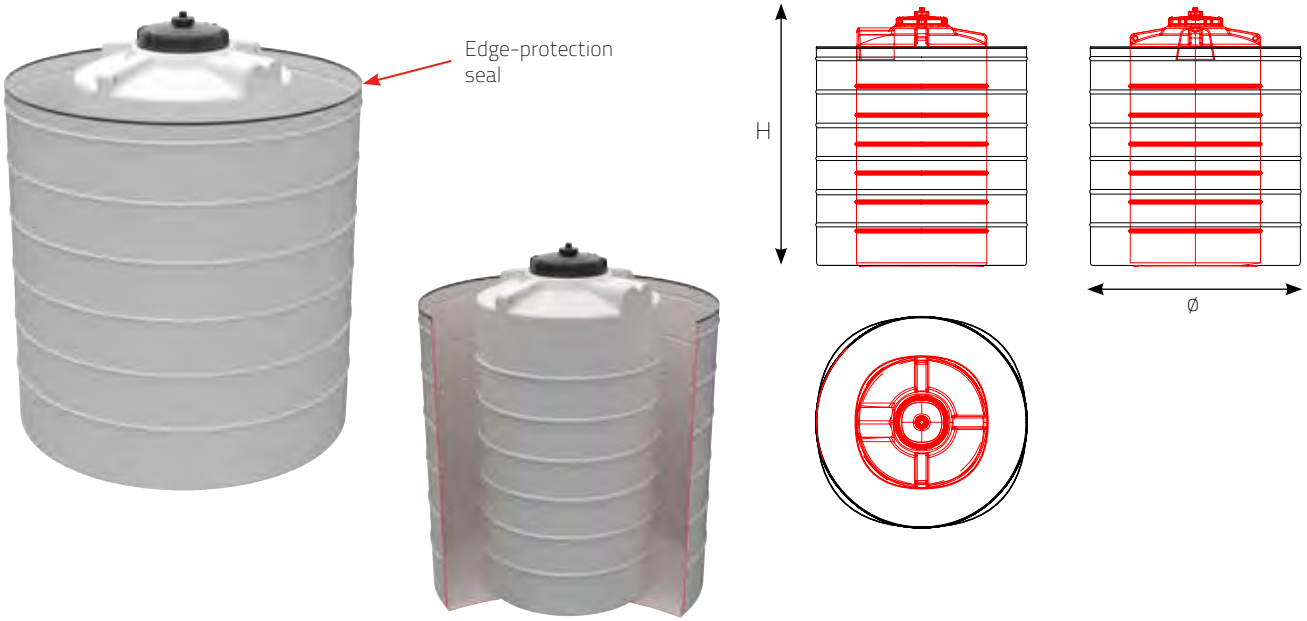
Fittings and accessories on request on p. 73

Key: Industria valve on lid

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

DOUBLE-CHAMBER TANKS INDOOR

Tanks made of natural-colored polymers, suitable for storing chemicals, featuring a safety chamber that contains any accidental spills. Model with an open-top outer chamber, therefore for indoor installation only.



OPEN DOUBLE-CHAMBER VERTICAL TANKS "SVDCA" from 100 to 5000 liters

Item	Capacity inner tank (liters)	Dimensions (cm)		Lid ø (mm)	Lid Vent	€
		H inner tank	ø outer tank			
SVDCA 100	100	72	60	320	●	402,24
SVDCA 200	200	90	70	320	●	743,50
SVDCA 1000	1000	178	110	320	●	1.738,39
SVDCA 2000	2000	182	147	420	●	3.540,41
SVDCA 3000	3000	207	169	420	●	4.968,09
SVDCA 5000	5000	194	238	420	●	11.262,32

Download the data sheet

Note: DOUBLE-CHAMBER systems can be supplied with optional level indicators for the interspace, the inner tank or both (see p. 72).

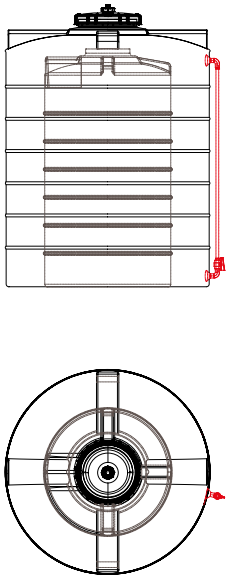
Standard color: NE

Fittings and accessories on request on p. 73

Key: ● Industria valve on lid

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



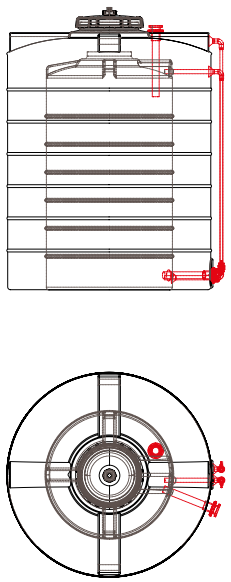


Level kit for double-chamber tank

Shows the level of the liquid in the inner tank.

Item	Description	€
KIT LIV SVDC	Level kit for double-chamber tanks	577,84





Interspace monitoring kit for double-chamber tank

Shows any leaks into the outer tank

Item	Description	€
KIT CONT SVDC	Interspace monitoring kit for double-chamber tanks	577,84



PE 100 PN 16 stub end with flange (nominal diameters)



	Item	Description	€
		FLAT AREA	
NEW	CARTELLA DN 50 I	DE50 PE100 PN16 stub end with coated Al DN40 PN16 flange	**612,07**
	CARTELLA DN63 I	DE63 PE100 PN16 stub end with coated Al DN50 PN16 flange	**612,07**
NEW	CARTELLA DN 75 I	DE75 PE100 PN16 stub end with coated Al DN65 PN16 flange	**612,07**
	CARTELLA DN90 I	DE90 PE100 PN16 stub end with coated Al DN80 PN16 flange	**612,07**
	CARTELLA DN110 I	DE110 PE100 PN16 stub end with coated Al DN100 PN16 flange	**612,07**
		NON-FLAT AREA	
NEW	CART DN50 ZNP I	DE50 PE100 PN16 stub end with coated Al DN40 PN16 flange	**798,65**
	CART DN63 ZNP I	DE63 PE100 PN16 stub end with coated Al DN50 PN16 flange	**798,65**
NEW	CART DN75 ZNP I	DE75 PE100 PN16 stub end with coated Al DN65 PN16 flange	**798,65**
	CART DN90 ZNP I	DE90 PE100 PN16 stub end with coated Al DN80 PN16 flange	**798,65**
	CART DN110 ZNP I	DE110 PE100 PN16 stub end with coated Al DN100 PN16 flange	**798,65**





PE 100 PN 16 pipe (nominal diameters)

Item	Description	€
	FLAT AREA	
TU DN63 ZP I	PE100 PN16 DN63 pipe on FLAT AREA	**455,44**
TU DN90 ZP I	PE100 PN16 DN90 pipe on FLAT AREA	**455,44**
TU DN110 ZP I	PE100 PN16 DN110 pipe on FLAT AREA	**455,44**
TU DN125 ZP I	PE100 PN16 DN125 pipe on FLAT AREA	**455,44**
TU DN160 ZP I	PE100 PN16 DN160 pipe on FLAT AREA	**455,44**
TU DN200 ZP I	PE100 PN16 DN200 pipe on FLAT AREA	**455,44**
	NON-FLAT AREA	
TU DN63 ZNP I	PE100 PN16 DN63 pipe on NON-FLAT AREA	**612,07**
TU DN90 ZNP I	PE100 PN16 DN90 pipe on NON-FLAT AREA	**612,07**
TU DN110 ZNP I	PE100 PN16 DN110 pipe on NON-FLAT AREA	**612,07**
TU DN125 ZNP I	PE100 PN16 DN125 pipe on NON-FLAT AREA	**612,07**
TU DN160 ZNP I	PE100 PN16 DN160 pipe on NON-FLAT AREA	**612,07**
TU DN200 ZNP I	PE100 PN16 DN200 pipe on NON-FLAT AREA	**612,07**

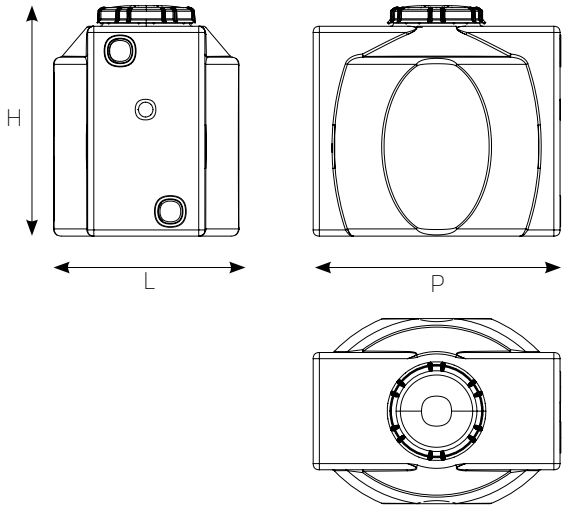
"Open" expansion tank for use in heating systems

The expansion tank allows water that expands during heating to vent freely without damaging the system. Heating from approx. 15°C to approx. 90°C increases the volume of water by about 4%, and an expansion tank of sufficient capacity compensates for this excess volume. These systems, known as open

expansion tank systems, are used in buildings with central heating. Here the expanding water is connected to the atmosphere through a vent pipe, and the volume is compensated in one or more tanks placed at the highest point of the system, connected to the boiler by a pipe upstream of the circulation pump. The height of the expansion tank therefore determines the hydrostatic head at the inlet of these pumps. The expansion tank is connected to the mains supply through a float valve to top up water that evaporates from the tank or is lost along the circuit. The minimum water level is set by the float valve (system cold and off). The maximum level corresponds to the connection of the overflow pipe (system at maximum

operating temperature). If the tank is undersized, every temperature change causes water to overflow, which then has to be topped up and suitably treated.





EXPANSION TANK "ESPA"

Item	Capacity (liters)	Dimensions (cm)			Lid ø (mm)	Molded fittings		€
		H	L	P		Inlet/Outlet (threaded)	Provision for FLOAT VALVE (not threaded)	
ESPA 30 R	32	38	30	40	140	3/4"	1/2"	**63,33**

Download the data sheet

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



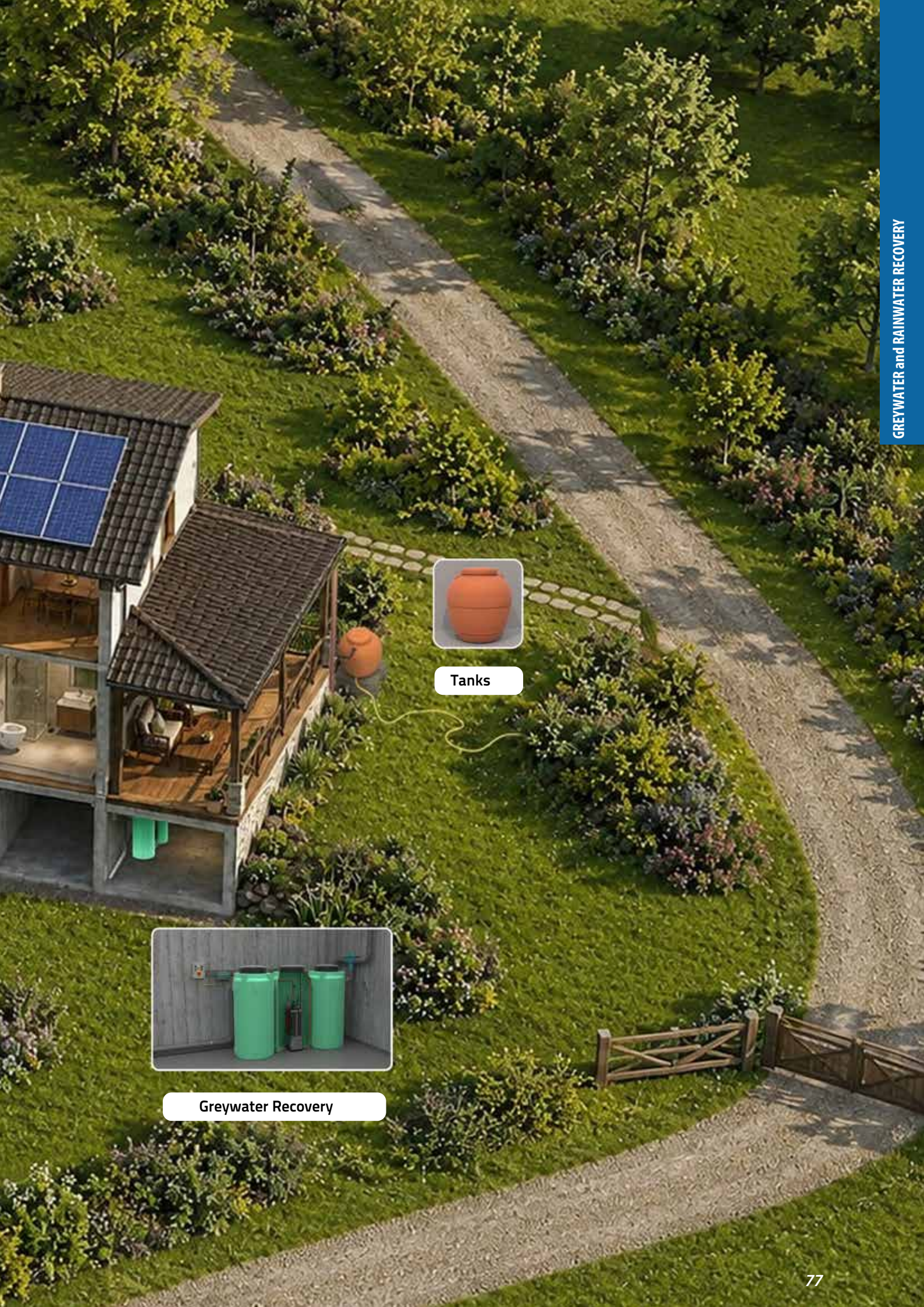
GREYWATER RECOVERY

ECOGRAY

The ECO GRAY range of systems is dedicated to the recovery and reuse of greywater, i.e. water from washbasins, showers and bathtubs (excluding toilets and the whole kitchen), which, given its level of contamination, can be treated and disinfected and then returned to the household for flushing toilets, cleaning the building, watering the garden, etc.

INDICE


Wastewater Treatment and Phytodepuration
Rainwater Harvesting

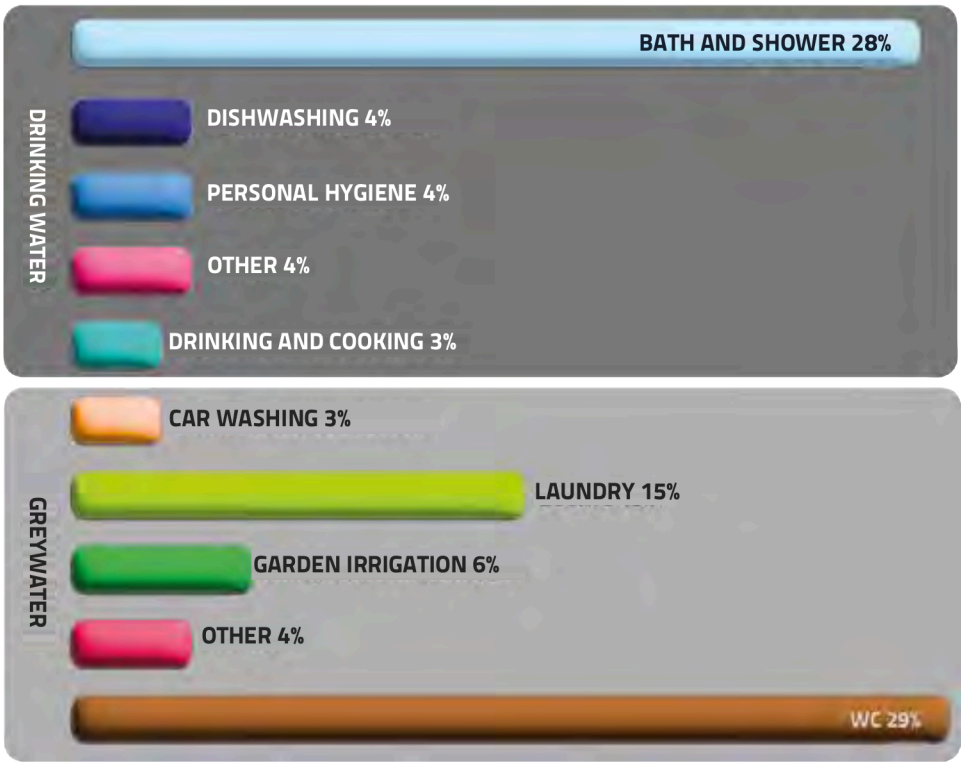

Tanks
Greywater Recovery

According to 2020 surveys in Western countries, average per capita water consumption is about 215 liters/day. Where possible, with simple plumbing measures, more than half of it could be non-potable water.
Today, most countries have regulations that promote water saving and the reuse of water.

Today, regional and municipal regulations and building codes require new homes to reuse water in order to reduce drinking water consumption.

TELCOM SpA has designed and developed the new ECO GRAY range of systems for the recovery and reuse of greywater, i.e. water from washbasins, showers and bathtubs (excluding toilets and the whole kitchen), which, given its level of contamination, can be treated and disinfected and then returned to the household for flushing toilets, cleaning the building, watering the garden, etc.

AVERAGE BREAKDOWN OF HOUSEHOLD CONSUMPTION BETWEEN DRINKING WATER AND GREYWATER



Proper greywater recovery can save more than 57% of total water requirements.



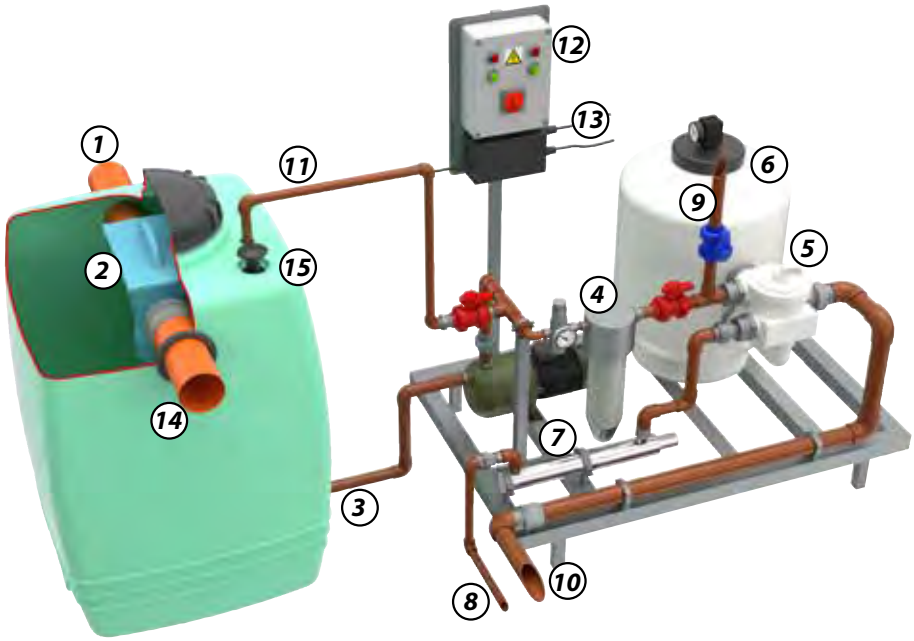
Greywater Reuse
ECOGRAY

WHY RECOVER AND REUSE GREYWATER?

From the single-family home to the residential and commercial complex, we now need to take a responsible approach to water. Water is a limited resource whose ethical and economic value we often forget.

HOW TO USE GREYWATER

- FLUSHING TOILETS;
- WATERING GREEN AREAS;
- FIRE-FIGHTING SYSTEMS;
- SUPPLYING FOUNTAINS AND PONDS;
- CLEANING AND WASHING FLOORS;
- CAR WASHING;



KEY:

1) INLET OF WATER TO BE TREATED
2) COARSE FILTRATION
3) INTAKE OF WATER TO BE TREATED
4) CARTRIDGE FILTER
5) MULTIWAY VALVE
6) SAND AND CARBON FILTER
7) UV LAMP
8) TREATED WATER
9) MAINS WATER
10) WASHING AND BACKWASHING DRAIN
11) RECIRCULATION
12) CONTROL PANEL
13) UV LAMP POWER SUPPLY
14) OVERFLOW
15) TANK VENT

ECO GRAY MINI

ITEM	* No. OF USERS SERVED (sized at 50 l/P.E.)	DAILY FLOW RATE liters/day	SYSTEM COMPOSITION volume (l) initial storage	Power Kw	€
ECO GRAY MINI	6 - 10	500	500	0,6	**16.921,40**

*sizing refers to residential homes; for other applications contact our technical department.

PROCESS DESCRIPTION

Telcom's ECO GRAY MINI is an easy-to-manage system in which the water to be treated, after separation through a self-cleaning basket filter, is collected in the storage tank and from there pumped under pressure to the users after treatment.

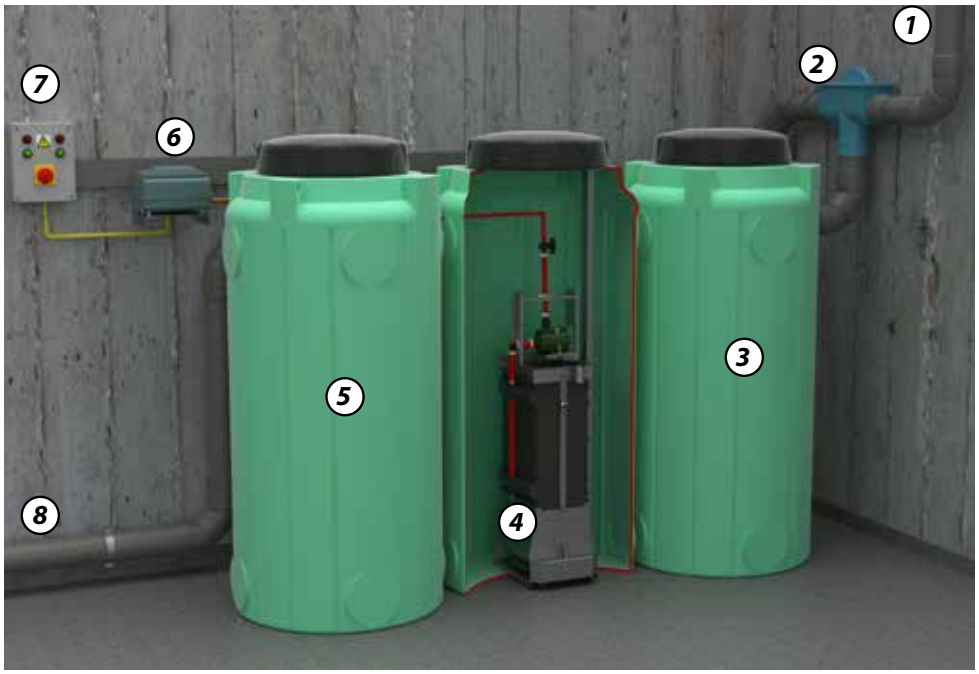
The treatment consists of:

- MECHANICAL FILTRATION to remove solid particles larger than 90 µ from the water;

- FILTRATION WITH GRANULAR ACTIVATED CARBON of vegetable origin to remove organic pollutants, surfactants and compounds that can cause bad odors;

- UV-C DISINFECTION to reduce the bacterial load in the water.

Download the data sheet



KEY:

1) INLET OF WATER TO BE TREATED
2) COARSE FILTRATION
3) INITIAL STORAGE SECTION UNTREATED WATER
4) TREATMENT SECTION WITH ULTRAFILTRATION MEMBRANES
5) TREATED WATER STORAGE
6) COMPRESSOR
7) CONTROL PANEL
8) TREATED WATER OUTLET

ECO GRAY PLUS

ITEM	* No. OF USERS SERVED (sized at 50 l/P.E.)	DAILY FLOW RATE liters/day	SYSTEM COMPOSITION volume (l) Initial storage - filtration final storage	Power Kw	€
ECO GRAY PLUS 1000	20	1000	700 - 700 - 700	1,75	**28.421,09**
ECO GRAY PLUS 2000	40	2000	1500 - 700 - 1500	1,75	**28.564,37**
ECO GRAY PLUS 3000	60	3000	2000 - (700+700) - 2000	3,50	**46.235,70**

*sizing refers to residential homes; for other applications contact our technical department.

PROCESS DESCRIPTION

Telcom's ECO GRAY PLUS is a MEMBRANE ULTRAFILTRATION system that can treat soluble macromolecules and any substance larger than the membrane cut-off.

The process takes place in several successive stages:

- COARSE FILTRATION to remove any suspended solids (lint, textile fibers, hair);

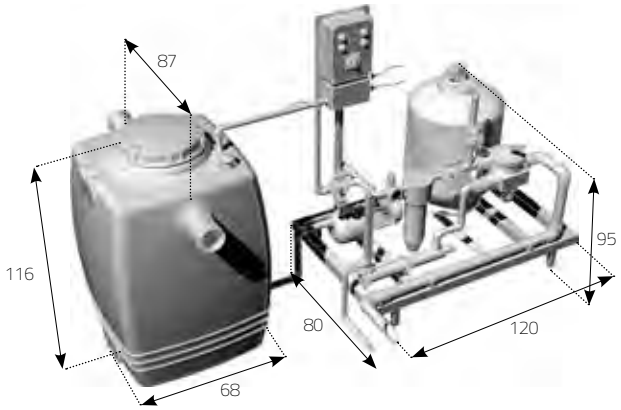
- INITIAL STORAGE OF UNTREATED GREYWATER (one or more tanks);

- MEMBRANE ULTRAFILTRATION, in which specific microorganisms first remove biodegradable substances (soaps, shampoos) and then, thanks to the 35 nm physical pore size, all solid particles, germs and viruses are retained and finally removed from the water.

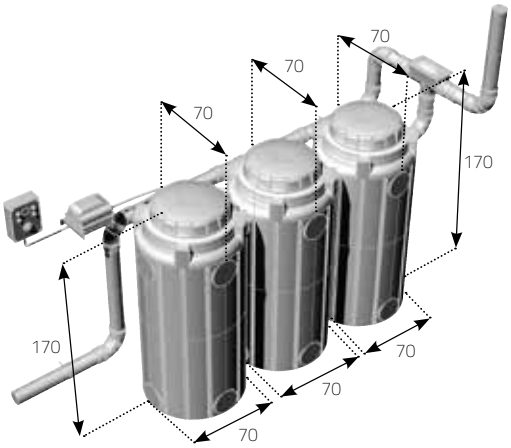
- STORAGE OF TREATED WATER (one or more tanks).

ECOGRAY SYSTEMS - APPROXIMATE OVERALL DIMENSIONS

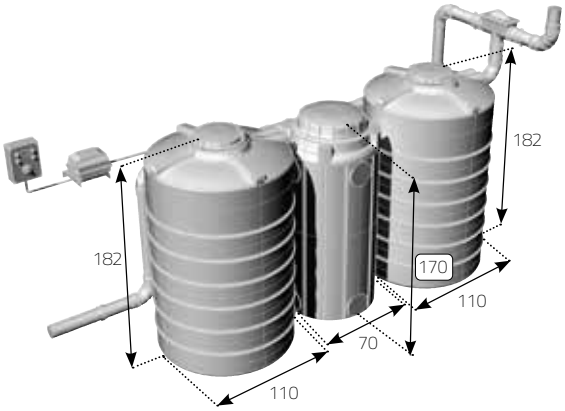
ECOGRAY MINI
Dimensions in centimeters



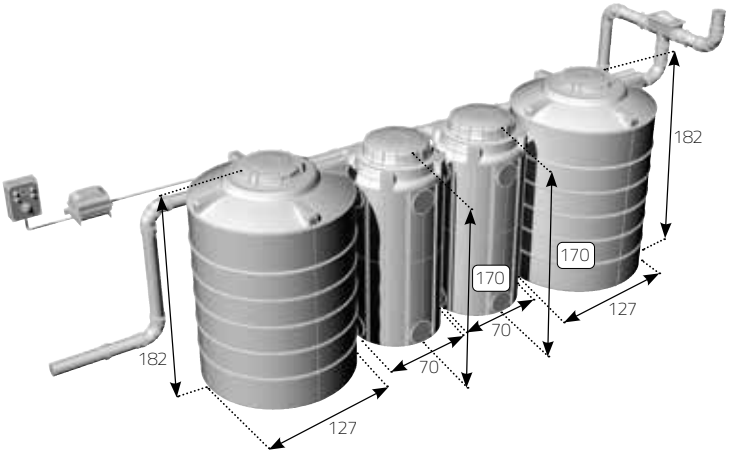
ECOGRAY PLUS 1000
Dimensions in centimeters



ECOGRAY PLUS 2000
Dimensions in centimeters



ECOGRAY PLUS 3000
Dimensions in centimeters





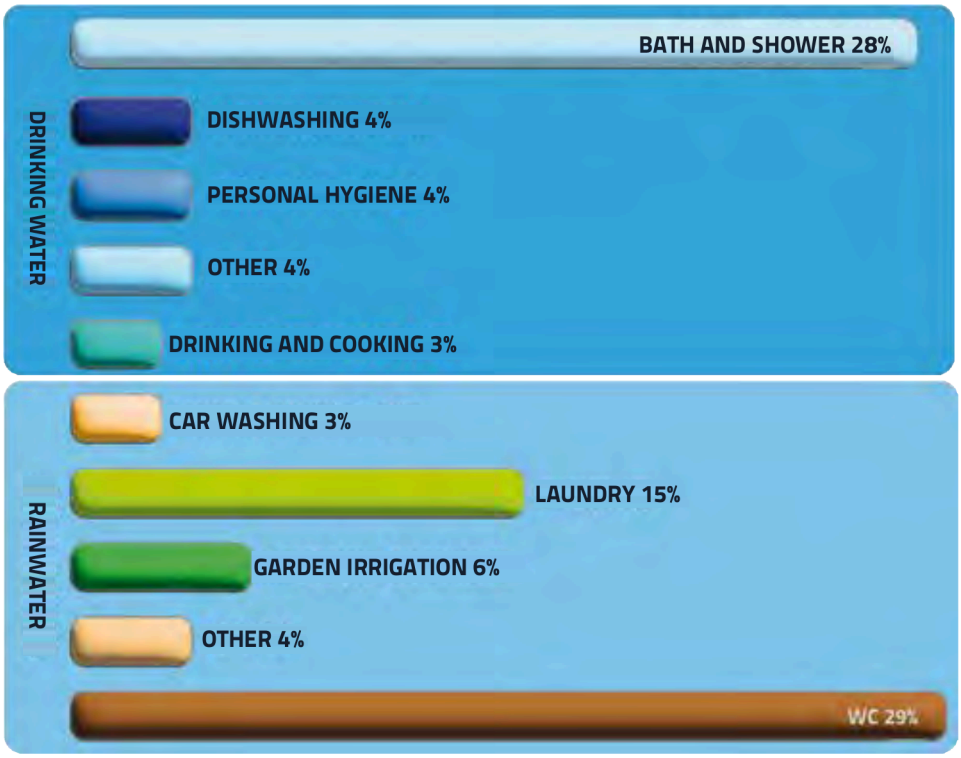
STORMWATER RECOVERY

PLUVIUM

The PLUVIUM product line offers a complete range of systems for collecting, storing and distributing rainwater for all users (single-family homes, apartment buildings, hotels), both public and industrial.

According to 2020 surveys in Western countries, average per capita water consumption is about 215 liters per day. Where possible, with simple plumbing measures, more than half of it could be non-potable water. For all uses that do not require direct contact of the water with people or food, suitably collected and distributed rainwater can be used, with clear economic benefits for users and no waste of drinking water (irrigation, toilets, car washing, laundry, etc.). Through PLUVIUM products, TELCOM offers a complete range of systems for collecting, storing and distributing rainwater for all users (single-family homes, apartment buildings, hotels), both public and industrial (rainwater can be used in various production processes, for cooling, cleaning, etc.).

AVERAGE BREAKDOWN OF HOUSEHOLD CONSUMPTION BETWEEN DRINKING WATER AND RAINWATER



Proper rainwater recovery can save more than 57% of total water requirements.

HOW TO USE RAINWATER

ushing toilets, with the greatest saving potential of 29%: rainwater is almost free of limescale, so it does not promote its build-up.

atering green areas: rainwater is ideal for watering flowers and plants and helps them absorb minerals and nutrients.

undry: rainwater is very soft and contains little calcium and magnesium, elements that impair the dissolution of detergents and the operation and life of the washing machine.

eaning: washing floors, cars, machinery, etc.

any industrial uses.

HOW TO CHOOSE THE SYSTEM

Before installing PLUVIUM rainwater harvesting systems, it is advisable to size the collection tank as a sensible compromise between water requirements and annual rainfall.



CALCULATION OF ANNUAL WATER REQUIREMENT (Q1):

Q1 = (q1 . g1 . p) + (q2 . g2 . p) + (q3 . g3) + (q4 . g4)

where:

q1 = water used per toilet flush (approx. 10 liters).
q2 = water used per washing machine cycle (approx. 100 liters).
q3 = water used for household cleaning (approx. 25 liters).
q4 = water used for garden irrigation (approx. 5 liters/m² multiplied by the garden area in m² to be irrigated).
g1 = expected number of toilet flushes.
g2 = expected number of washing machine cycles.
g3 = expected number of times water is used for household cleaning.
g4 = expected number of times the garden is watered.
p = number of people using the PLUVIUM by TELCOM Rainwater Harvesting System.

CALCULATION OF ANNUAL RAINFALL (Q2):

Q2 = L . S. Y . 0,98

where:

L = local annual rainfall (l/m²) (average 1000 l/m²).
S = total roof area (m²) used for water collection.
Y = runoff coefficient (as a percentage) typical of the surface used for collecting rainwater. It indicates what percentage of water actually reaches the storage system (e.g. 90% for tiled roofs, 80% for flat concrete roofs, 60% for flat gravel roofs, 40% for green roofs, etc.).

TANK VOLUME:

V= (Q . g) : 365

where:

Q = the smaller value between Q1 and Q2
g = number of days of the average dry period in the specific location

Note: the values "L" and "g" vary from place to place and with the seasons; they can be obtained from the data provided by local weather stations.

NOTES

Rainwater harvesting systems

Fully integrable underground tanks for rainwater recovery, fitted with a filter to capture coarse solids larger than 1 mm.

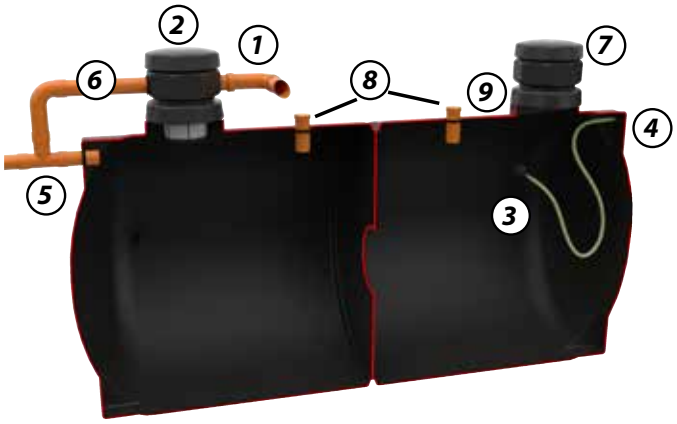
MODEL FOR INTERNAL PUMP - IN GR



KEY:
1) WATER INLET FROM DOWNPIPE
2) FILTER UNIT
(filter holder and basket filter).
3) TANK OVERFLOW
4) FILTER UNIT OVERFLOW
5) INSPECTION LID
6) cleaning/suction LIDS
7) 2" vent (see table)

MODEL WITH PROVISION FOR EXTERNAL PUMP - ES GR

KEY:
1) WATER INLET FROM DOWNPIPE
2) FILTER UNIT
(filter holder and basket filter)
3) SUCTION SYSTEM
4) 1" THREADED CONNECTION
for the external pump suction hose.
5) TANK OVERFLOW
6) FILTER UNIT OVERFLOW
7) INSPECTION LID
8) cleaning/suction LIDS
9) 2" vent (see table)



PLUVIUM FEATURES

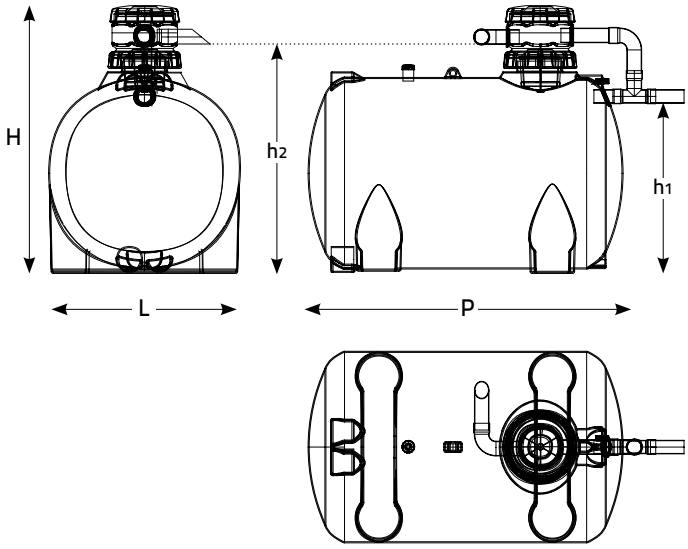
PLUVIUM systems, each identified by the capacity of the tank used, essentially include:
- Provision for collecting water from roofs through piping from the individual downpipes
- Filtration, essential for removing foreign bodies (leaves, debris, soil) washed off by the rain.
- Storage in underground tanks, away from sunlight, to keep the water in good condition for a long time and prevent the growth of algae, bacteria and unpleasant odors.
- Submersible or external self-priming pump models are available on request; their characteristics are listed among the accessories.



PLUVIUM PLS IN GR (for internal pump)

Underground tanks fitted with a filter to capture coarse solids larger than 1 mm.





PLUVIUM SYSTEMS from 2000 to 3000 liters (for internal pump)

ITEM WITHOUT pump	Suitable for installation above ground*	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent	€
		H	L	P	h1 Overflow	h2 Inlet						
PLS 2000 IN GR	SI	179	136	155	118	155	2000	CL 320 F	100	420	■	**1.648,35**
PLS 3000 IN GR	SI	194	160	185	139	171	3000	CL 420 F	100	420	■	**2.193,28**

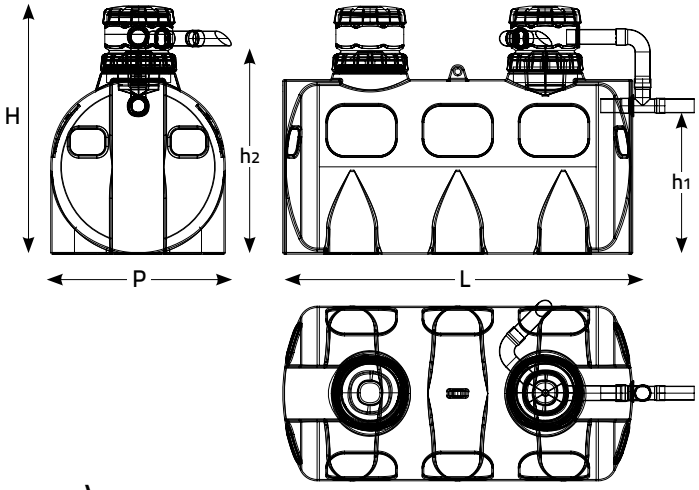
Download the data sheet

Key: ■ 2" vent fitting (male)

PLUVIUM PLS IN GR (for internal pump)

Underground tanks fitted with a filter to capture coarse solids larger than 1 mm.



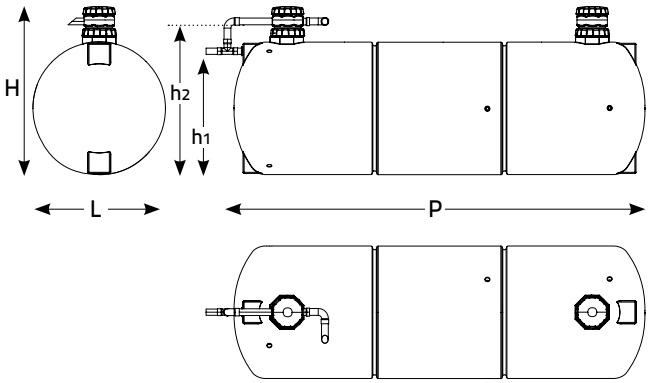


PLUVIUM SYSTEM 5000 liters (for internal pump)

ITEM WITHOUT pump	Suitable for installation above ground	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent	€
		H	L	P	h1 Overflow	h2 Inlet						
PLS 5000 IN GR	NO	198	149	298	130	171	5000	CL 550 F/125	125	550		**3.404,08**



mod. PLS 30000 IN GR



PLUVIUM SYSTEMS from 10000 to 50000 liters (for internal pump)

ITEM WITHOUT pump	Modules	Suitable for installation above ground*	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent fitted	€
			H	L	P	h1 Overflow	h2 Inlet						
PLS 10000 IN GR	2	NO	289	238	275	214	257	10000	CL 550 F/160	160	550		**6.797,28**
PLS 15000 IN GR	2	NO	289	238	390	214	257	15000	CL 550 F/160	160	550		**10.223,37**
PLS 20000 IN GR	2	NO	289	238	508	214	257	20000	CL 550 F/160	160	550		**13.184,21**
PLS 25000 IN GR	3	NO	289	238	627	214	257	25000	CL 550 F/160	160	550		**16.871,65**
PLS 30000 IN GR	3	NO	289	238	743	214	257	30000	CL 550 F/160	160	550		**19.124,06**
PLS 35000 IN GR	4	NO	289	238	862	214	257	35000	CL 550 F/160	160	550		**23.846,89**
PLS 40000 IN GR	4	NO	289	238	979	214	257	40000	CL 550 F/160	160	550		**26.753,25**
PLS 45000 IN GR	5	NO	289	238	1098	214	257	45000	CL 550 F/160	160	550		**32.929,23**
PLS 50000 IN GR	5	NO	289	238	1215	214	257	50000	CL 550 F/160	160	550		**36.562,18**

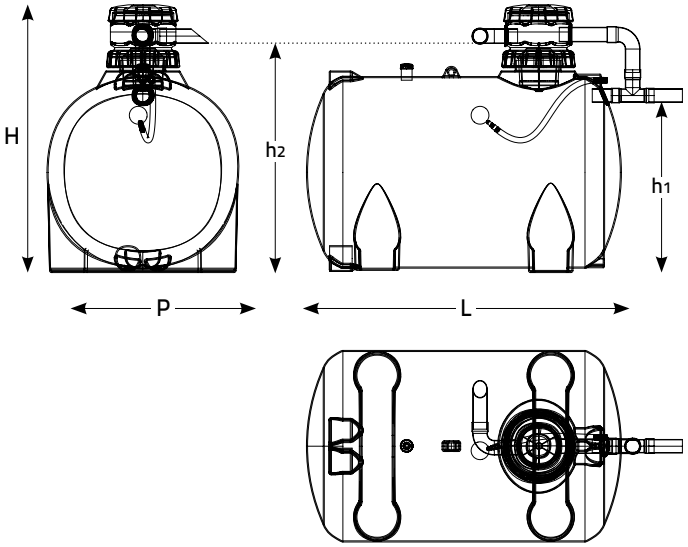
* For above-ground tanks contact our Technical Department

Key: 2" PE bulkhead fitting (male)

PLUVIUM PLS ES GR (with provision for external pump)

Underground tanks fitted with a filter to capture coarse solids and a 1" suction system for connection to an external pump.





PLUVIUM SYSTEMS from 2000 to 3000 liters (for external pump)

ITEM WITHOUT pump	Suitable for installation above ground*	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent	€
		H	L	P	h1 Overflow	h2 Inlet						
PLS 2000 ES GR	SI	179	136	155	118	155	2000	CL 320 F	100	420	■	**1.850,25**
PLS 3000 ES GR	SI	194	160	185	139	171	3000	CL 420 F	100	420	■	**2.395,18**

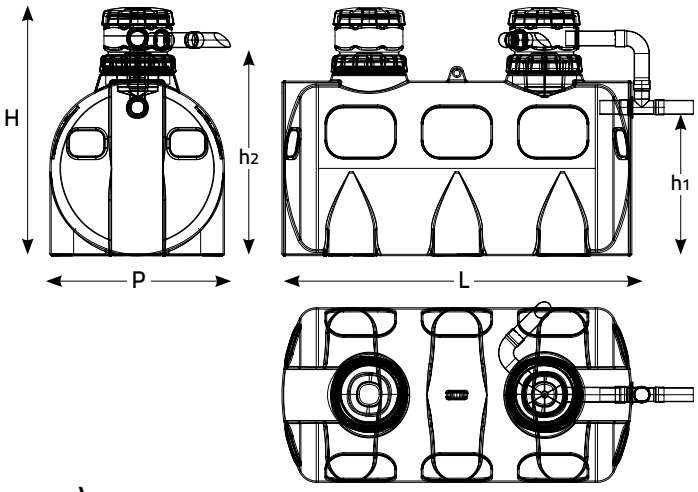
Download the data sheet

Key: ■ 2" vent fitting (male)

PLUVIUM PLS ES GR (with provision for external pump)

Underground tanks fitted with a filter to capture coarse solids and a 1" suction system for connection to an external pump.



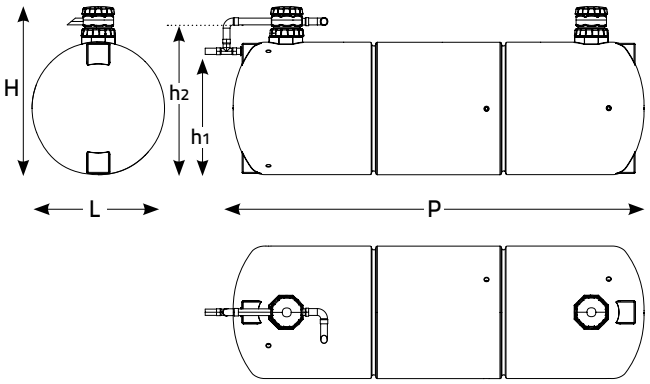


PLUVIUM SYSTEM 5000 liters (for external pump)

ITEM WITHOUT pump	Suitable for installation above ground	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent	€
		H	L	P	h1 Overflow	h2 Inlet						
PLS 5000 ES GR	NO	198	149	298	130	171	5000	CL 550 F/125	125	550		**3.605,98**



mod. PLS 30000 ES GR



PLUVIUM SYSTEMS from 10000 to 50000 liters (for external pump)

ITEM WITHOUT pump	Modules	Suitable for installation above ground*	Dimensions (cm)					Volume (liters)	Filter unit	Piping (ø mm)	Lid (ø mm)	Vent fitted	€
			H	L	P	h1 Overflow	h2 Inlet						
PLS 10000 ES GR	2	NO	289	238	275	214	257	10000	CL 550 F/160	160	550		**6.999,18**
PLS 15000 ES GR	2	NO	289	238	390	214	257	15000	CL 550 F/160	160	550		**10.425,28**
PLS 20000 ES GR	2	NO	289	238	508	214	257	20000	CL 550 F/160	160	550		**13.386,11**
PLS 25000 ES GR	3	NO	289	238	627	214	257	25000	CL 550 F/160	160	550		**17.073,55**
PLS 30000 ES GR	3	NO	289	238	743	214	257	30000	CL 550 F/160	160	550		**19.325,96**
PLS 35000 ES GR	4	NO	289	238	862	214	257	35000	CL 550 F/160	160	550		**24.048,79**
PLS 40000 ES GR	4	NO	289	238	979	214	257	40000	CL 550 F/160	160	550		**26.955,15**
PLS 45000 ES GR	5	NO	289	238	1098	214	257	45000	CL 550 F/160	160	550		**33.131,13**
PLS 50000 ES GR	5	NO	289	238	1215	214	257	50000	CL 550 F/160	160	550		**36.764,08**

* For above-ground tanks contact our Technical Department

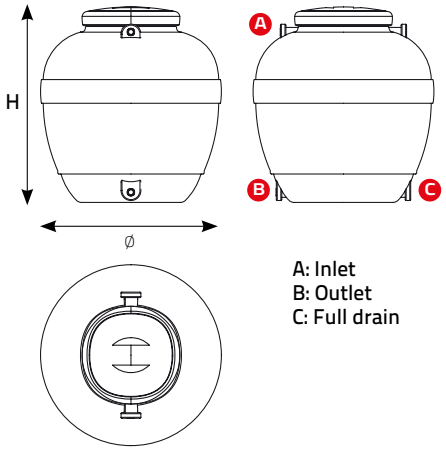
Key: 2" PE bulkhead fitting (male)

Micro rainwater harvesting systems

Fully integrable above-ground tanks for rainwater recovery, fitted with a filter to capture coarse solids larger than 1 mm.







A: Inlet
B: Outlet
C: Full drain

ORCIOBELLO PRQ AMPHORA TANK

ITEM	Suitable for installation above ground	Capacity (liters)	Dimensions (cm)		Lid ø (mm)	Molded fittings			€
			H	ø		A Inlet	B Outlet	C Full drain	
ORCIO 500 PRQ	SI	500	111	98	450	ø 80	1" 1/4	1"	**511,59**
ORCIO 1000 R PRQ	SI	1010	140	116	450	ø 80	1" 1/4	1"	**675,34**

Without piping and seal.

Download the data sheet

FILTER UNIT

filters out bodies ≥ 1 mm.

ITEM	DESCRIPTION	inlet pipe ø (mm)	€
CL 320/F	Filter unit for ø 320 mm lid	100	**237,49**
CL 420/F	Filter unit for ø 420 mm lid	100	**206,95**
CL 550/F 125	Filter unit for ø 550 mm lid	125	**352,41**
CL 550/F 160	Filter unit for ø 550 mm lid	160	**355,32**



SUCTION SYSTEM:

Float with 1" crush-proof flexible hose.
Fitted with foot valve and filter.

ITEM	DESCRIPTION	€
SUCTION SYSTEM	Suction system	**68,78**



PRESSCONTROL:

Electronic pressure and flow controller.
Automatically starts and stops the pump when the tap is opened and closed.
Stops the pump automatically if there is no water.
Max current 8 Amp, max flow 10 m^3/h, connections 1"x 1".

ITEM	DESCRIPTION	€
PRESS CONTROL	Electronic pressure and flow controller	**237,35**



INTERNAL SUBMERSIBLE PUMP:

Power 0,25 kW,
flow rate up to 135 l/min (8,1 m³/h),
head up to 7 meters,
1" delivery outlet.

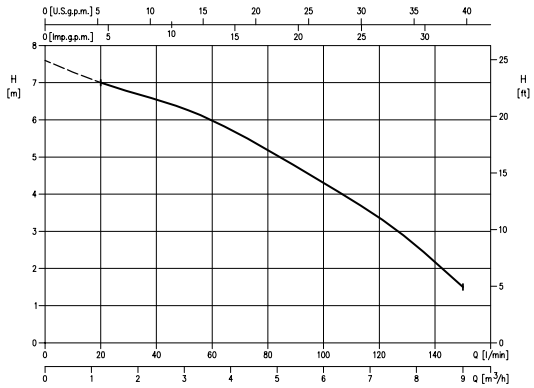
ASSEMBLY BY THE CUSTOMER



ITEM	DESCRIPTION	€
POMPA ELET. 14	Submersible pump for clear water	498,28

Not suitable for use with PRESS CONTROL

PLS IN series (0,25 kW)



Internal pump*

*Not suitable for use with PRESS CONTROL

INTERNAL SUBMERSIBLE PUMP:

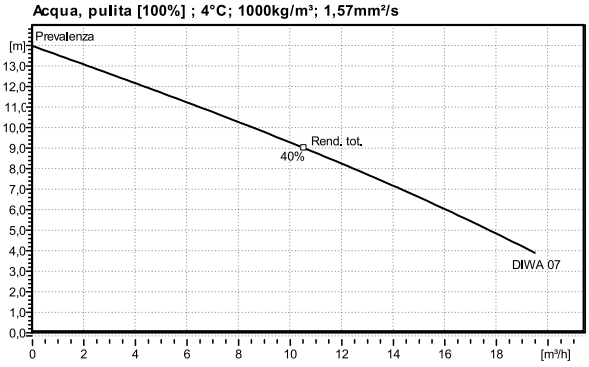
Power 0,75 kW - 1 hp
Flow rate up to 325 l/min (19,5 m³/h)
Head up to 14 meters.

ASSEMBLY BY THE CUSTOMER



ITEM	DESCRIPTION	€
POMPA ELET.15	Submersible pump for clear water	1.906,96

Prestazioni secondo ISO 9906 - Annesso A
Le prestazioni valgono con il seguente fluido:
Acqua, pulita [100%] ; 4°C; 1000kg/m³; 1,57mm²/s



PORTABLE EXTERNAL PUMP:

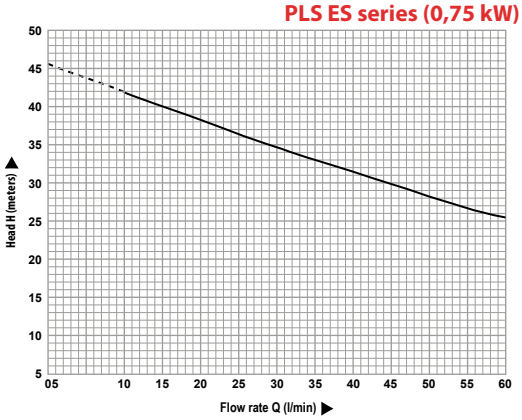
Power 0,75 kW,
flow rate up to 60 l/min (3,6 m³/h),
head up to 45,4 meters,
suction
and delivery ports 1".

ASSEMBLY BY THE CUSTOMER



ITEM	DESCRIPTION	€
POMPA ELET. 3	Portable external pump	771,98

PLS ES series (0,75 kW)



External pump

RAINWATER REUSE KIT:

Treatment unit consisting of a self-cleaning backwash prefilter with 90-micron filtration, followed by 25-micron filtration and a final activated carbon treatment that removes odors and color from rainwater.



ITEM	DESCRIPTION	€
KIT RIU. PLS	Rainwater reuse kit	**307,38**

RAINWATER REUSE KIT WITH UV DISINFECTION UNIT:

Treatment unit consisting of a self-cleaning backwash prefilter with 90-micron filtration, followed by 25-micron filtration and a final activated carbon treatment that removes odors and color from rainwater.
The unit also includes a UV lamp disinfection stage with a maximum flow rate of 600 l/h.



ITEM	DESCRIPTION	€
KIT RIU. PLS D	Rainwater reuse kit with UV disinfection unit	**1.573,13**

WATER TOP-UP KIT:

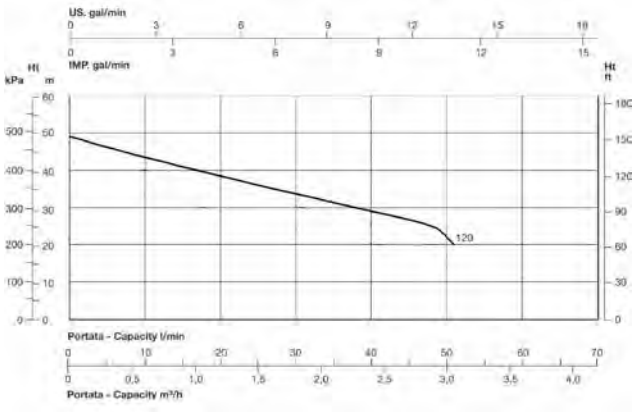
When a rainwater recovery tank is installed, a submersible pump is needed to pressurize the recovered water. If there are long periods without rain, a top-up system from the mains water supply must be installed. To prevent contamination of the public network, European standards prohibit rainwater from flowing back into the mains. This requires a special device, called an AIR GAP KIT, which completely prevents any contact between rainwater and mains water.





ITEM	DESCRIPTION	€
KIT REINTEGRO 1,2 HP	Rainwater top-up kit	**2.293,28**

The Top-up Kit includes:
- 1,2 HP automatic electric pump
- Control unit
- Air gap kit.



Electric pump features

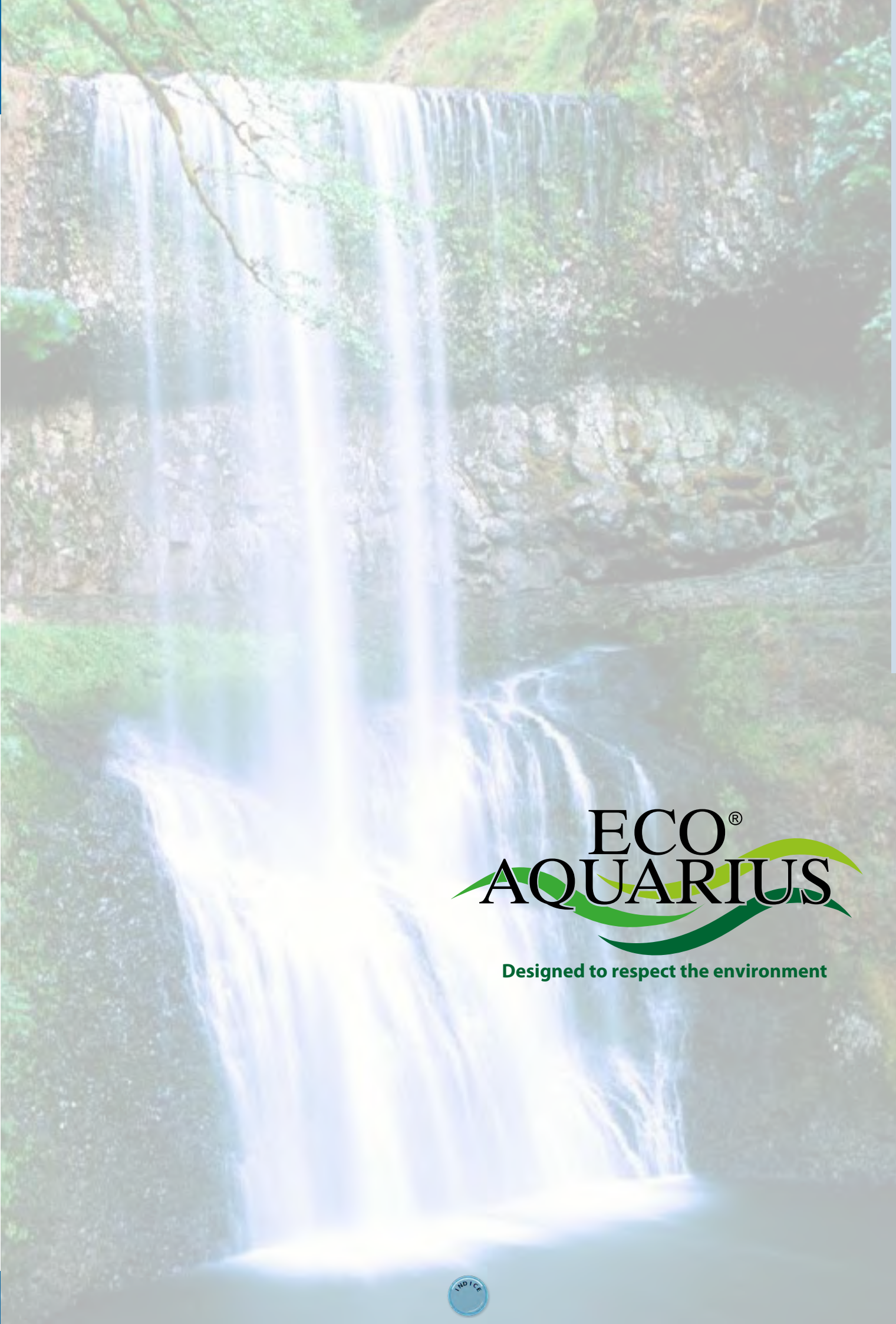
TOP-UP CONTROL UNIT KIT:

A version of the water top-up kit without electric pump is also available.

The Top-up Control Unit Kit includes:
- Control unit
- Probe
- 1/2" FF solenoid valve



ITEM	DESCRIPTION	€
KIT CENTRALINA	Rainwater top-up control unit	**764,43**



WASTEWATER TREATMENT

ECO® AQUARIUS

Designed to respect the environment

ECO® AQUARIUS

Designed to respect the environment



















ECO® AQUARIUS
Designed to respect the environment

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TECHNICAL CONSIDERATIONS FOR PRODUCT SELECTION

The TELCOM Ecology Department is a valuable source of support for designers and specialist technicians. The technical solutions proposed for the treatment of domestic wastewater allow discharge into public sewers, surface waters and onto soil in compliance with the applicable limit values. These technical solutions always include primary and secondary treatment, and the sizing of the units making up the system varies according to the receiving body. Aware of the wide variety of suitable treatments proposed by the various authorities, the Ecology Department is available to take on board any instructions from the competent authorities. TELCOM products must be selected according to the number of Population Equivalents (P.E.), the parameter that characterizes treatment plants in uniform and comparable terms. Telcom considers one P.E. to have a hydraulic load of 200 liters per day and an organic load (BOD5) of 60 grams per day. The table below shows the number of population equivalents for the most common activities. This table is for guidance only; always refer to local regulations.

Ing. Sergio de Gioia

DISPOSAL OF SLUDGE, OILS AND GREASES

Our products are not equipped with sludge treatment systems, so any sludge produced in excess of the needs of the treatment process must be removed periodically from the system by authorized companies in accordance with the regulations in force at the installation site.

REFERENCE STANDARDS*

- EN 12566-1:2002/A1:2004 - EN 12566-3:2005 - EN 12566-3:2009 - EN 1825-1:2005 - DIN 4040 - Directive 91/271/EEC of 21/05/1991 - EU Regulation 305/11

* Standards subject to possible changes or updates.

TYPE OF ACTIVITY	FORMULA FOR CALCULATING POPULATION EQUIVALENTS
RESIDENTIAL HOME	= NUMBER OF RESIDENTS x 1
RESTAURANT - TRATTORIA	= NUMBER OF DAILY MEALS x 0,25
HOTEL	= NUMBER OF GUESTS x 1
BAR	= NUMBER OF CUSTOMERS x 0,06
HOSPITAL	= NUMBER OF GUESTS x 3,15
SHOPPING CENTER	= m^2 OF ROOF AREA x 0,03
OFFICES	= NUMBER OF EMPLOYEES x 0,38
SCHOOL	= NUMBER OF STUDENTS x 0,375
CAMPSITE (for tents)	= NUMBER OF GUESTS x 1,08
CINEMA - THEATER	= NUMBER OF SEATS x 0,16
MOTORWAY SERVICE AREA	= NUMBER OF SEATS x 2
BARRACKS	= NUMBER OF EMPLOYEES x 1,9

NOTE TO THE TABLE: the number of P.E. resulting from the calculation in the table takes into account the higher of the organic load and the hydraulic load per population

NOTES

DOMESTIC WASTEWATER

THE EFFLUENT FROM THE PROPOSED SYSTEM WILL COMPLY WITH APPLICABLE REGULATIONS, PROVIDED THAT:

- the data supplied are accurate;
- the design data assumed match the actual situation;
- installation and maintenance are carried out correctly and regularly in accordance with the attached technical manual;
- the wastewater produced is domestic or similar;
- no bactericides, ammonia, chlorine or any product harmful to the bacterial flora that could impair treatment are fed into the system;
- no process water or stormwater is conveyed to the system;
- no coarse solids (diapers, plastic bags, etc.) that could damage parts of the system or cause blockages are fed into the system;
- no wastewater with concentrations above the following limits (in mg/l) for the following substances reaches the treatment plant:

PARAMETER	LIMIT SURF. WATER	LIMIT SOIL	PARAMETER	LIMIT SURF. WATER	LIMIT SOIL
ZINC	0,5	0,5	FLUORINE	6	1
ARSENIC	0,5	0,05	LEAD	0,2	0,1
PHENOLS	0,5	0,1	CHLORIDES	1200	200
TOTAL Cr	2,0	1,0	COPPER	0,1	0,1
SULFIDES	1	0,5	SURFACTANTS (NON-BIODEGRA-DABLE)	2	0,5
NICKEL	2	0,2			

IN ADDITION:

- incoming water with a pH above 9,5 or below 5,5 and with dissolved oxygen continuously below 2 mg/l is to be considered hazardous.
- outgoing nitrogen parameters will comply if the incoming sewage respects a ratio of approx. 10% to BOD5;
- outgoing phosphorus parameters will comply if the incoming sewage respects a ratio of 5% to BOD5;
- the parameters of non-biodegradable substances at the inlet must already comply with current regulations, since they are not biologically degraded.
- the following concentration ranges are to be considered hazardous for the nitrification of the sewage:

PARAMETER	RANGE	PARAMETER	RANGE
NICKEL	0,25 - 3,0	COPPER	0,1 - 0,5
CHROMIUM	0,25	ZINC	3

TELCOM SPA declines all liability in cases where these WARNINGS are not observed.

TELCOM SPA reserves the right to make changes to improve the efficiency and performance of the systems. Compliance with the discharge limits for the receiving bodies is in any case subject to the performance of our systems and therefore to the concentration of pollutants in the water entering the system.



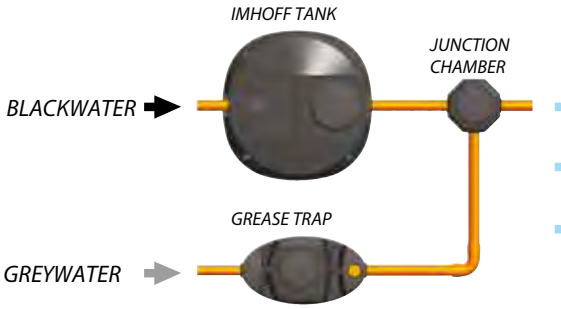
WASTEWATER TREATMENT DOMESTIC

PRIMARY TREATMENT

In PRIMARY TREATMENTS physical forces predominate. Their purpose is to pre-treat the wastewater and remove coarse elements that could impair the operation of the equipment in the subsequent stages of the system. These treatments perform a first rough cleaning of the sewage, removing part of the organic load and suspended solids. For this reason they are rarely used on their own but always upstream of secondary treatments.

INDICE

IMHOFF TANKS



According to EN 12566-1:2002/A1:2004 - Certificate No. RI 07.01,348 -

IMHOFF TANKS

Imhoff-type septic tanks are anaerobic primary treatment units consisting of a lower tank, called the digester, and an upper tank, called the settling chamber. The influent enters the settling compartment, which retains solids and floating material; from there it passes into the lower digestion compartment through the opening at the bottom of the settling chamber. The digester and settling chamber are sized so that the first provides biological stabilization of the settled organic matter (anaerobic fermentation and digestion), while the second creates the calm zone needed for proper settling of the solids in the wastewater. Mineralized substances, sludge and floating matter must be removed periodically.



IMHOFF-type SEPTIC TANK from 4 to 30 P.E.

NEW 2027



IMHOFF-type SEPTIC TANK for 51 P.E.



IMHOFF-type SEPTIC TANK SLIM for 5 P.E.



PDC dosing chamber (optional)

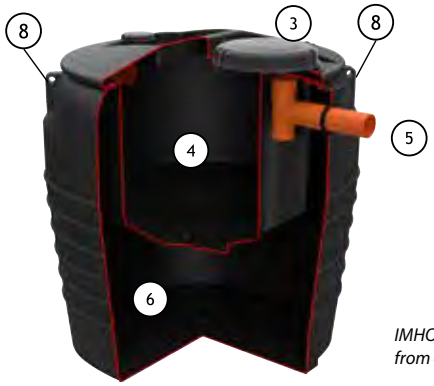


CL 140 turret for inlet lid

SPECIFICATION ITEM

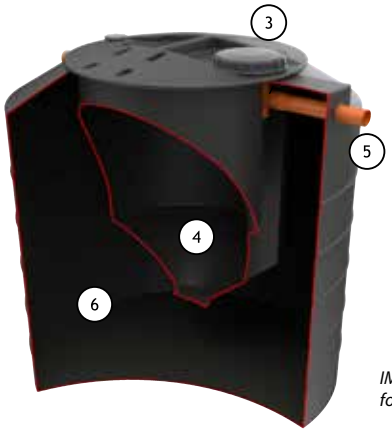
Imhoff-type septic tank in recyclable PE (linear polyethylene), consisting of two monoblock compartments. The settling chamber must have a minimum volume of 40 l/P.E. and the digester a minimum volume of 110 l/P.E. The product has a first lid for inspecting the settling chamber, removing sludge and inspecting the outlet pipe, a second lid for inspecting the inlet pipe and a vent valve for removing biogas. The inlet and outlet pipes are fitted with suitable external double-lip rubber seals to ensure a perfect seal.





IMHOFF-type SEPTIC TANK from 4 to 30 P.E.





IMHOFF-type SEPTIC TANK for 51 P.E.





IMHOFF-type SEPTIC TANK SLIM for 5 P.E.

PARTS

1. WASTEWATER INLET
2. BIOGAS VENT
3. SETTLING CHAMBER INSPECTION LID and SLUDGE REMOVAL FROM DIGESTION ZONE
4. SETTLING ZONE
5. WASTEWATER OUTLET
6. DIGESTION ZONE
7. INLET INSPECTION LID
8. LIFTING EYES

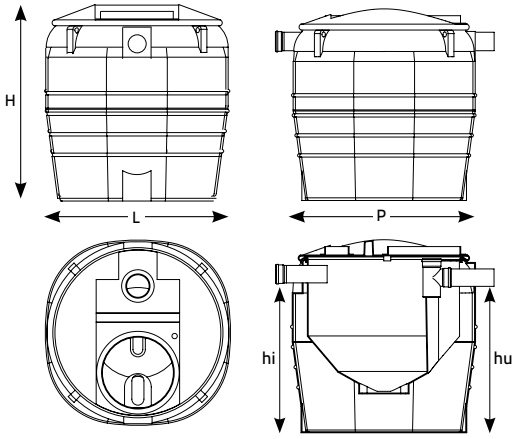
ROUTINE MAINTENANCE

Generally remove sludge and floating matter from the digester and settling chamber one to four times a year. Make sure the opening between the settling chamber and the digester is not blocked.

STANDARD IMHOFF TANKS



IMHOFF-type SEPTIC TANK from 4 to 30 P.E.

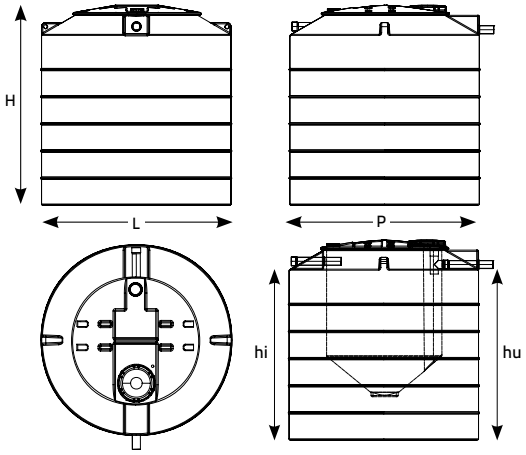


With sludge removal at least twice a year

NEW 2027



IMHOFF-type SEPTIC TANK for 51 P.E.



Download the data sheet

STANDARD IMHOFF TANKS

Models		Dimensions (cm)					Overflow volumes (liters)			Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Settling	Digester	Total	øi øu	ø lid inlet	ø lid		
4	ECO IMO 4 new	111	107	107	85	83	250	440	690	100	140	420	1″	**757,34**
6	ECO IMO 6 new	121	117	117	91	89	250	660	910	100	140	420	1″	**837,07**
10	ECO IMO 10 new	150	136	136	117	115	400	1100	1500	125	140	420	1″	**1.163,20**
15	ECO IMO 15 new	187	146	146	153	150	600	1650	2250	125	140	420	1″	**1.775,58**
20	ECO IMO 20 new	189	165	165	162	160	800	2200	3000	125	140	420	1″	**2.590,91**
25	ECO IMO 25 new	199	184	184	165	163	1000	2750	3750	125**	140	420	1″	**2.914,26**
30	ECO IMO 30 new	221	185	185	185,5	182,5	1200	3300	4500	125**	140	420	1″	**3.424,34**
51	ECO IMO 51 new	249	238	238	220	217	2040	5610	7650	160	140	420	1″	**6.600,00** NEW 2027

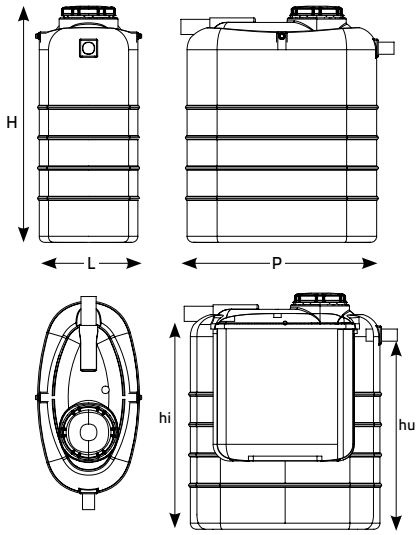
*** Available on request with inlet and outlet (øi and øu) ø=160*

SLIM IMHOFF TANKS

The SLIM Imhoff tank can be used wherever space is limited. While maintaining the sizing parameters required by current regulations, the SLIM has a compact shape that allows installation in confined spaces.



IMHOFF-type SEPTIC TANK
SLIM for 5 P.E.

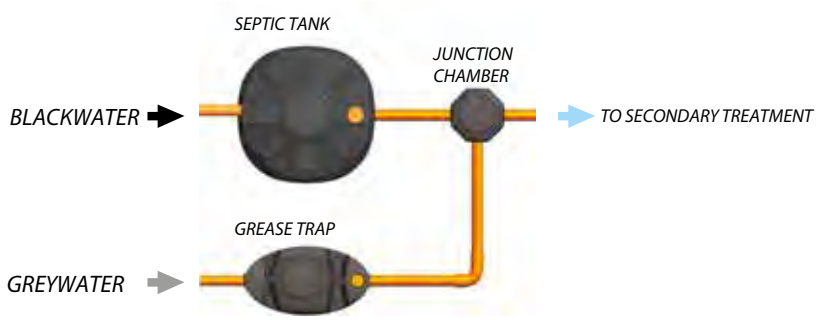


SLIM IMHOFF TANK

Models		Dimensions (cm)					Overflow volumes (liters)			Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Settling	Digester	Total	øi øu	ø lid inlet	ø lid		
5	ECO SLIM 5	159	65	125	138	123	250	570	820	100	100	320	1"	**857,90**

SPECIFICATION ITEM

Imhoff-type septic tank in recyclable PE (linear polyethylene), consisting of two monoblock compartments. The settling chamber must have a minimum volume of 40 l/P.E. and the digester a minimum volume of 110 l/P.E. The product has a first lid for inspecting the settling chamber, removing sludge and inspecting the outlet pipe, a second lid for inspecting the inlet pipe and a vent valve for removing biogas. The inlet and outlet pipes are fitted with suitable external double-lip rubber seals to ensure a perfect seal.





ECO VSV 500 *ECO VSV 1000* *ECO VSV from 1500 to 6000* *ECO VSV 10000*

SEPTIC TANKS

Septic tanks are anaerobic primary treatment units in which part of the organic material and suspended solids is removed. They are called septic tanks because anaerobic fermentation of the "septic" type takes place in them. Septic tanks are only suitable as an accessory to a secondary treatment system and may be used on their own only with specific authorization. Two-chamber and three-chamber septic tanks provide more thorough primary treatment, as their multiple compartments allow progressive clarification of the wastewater.

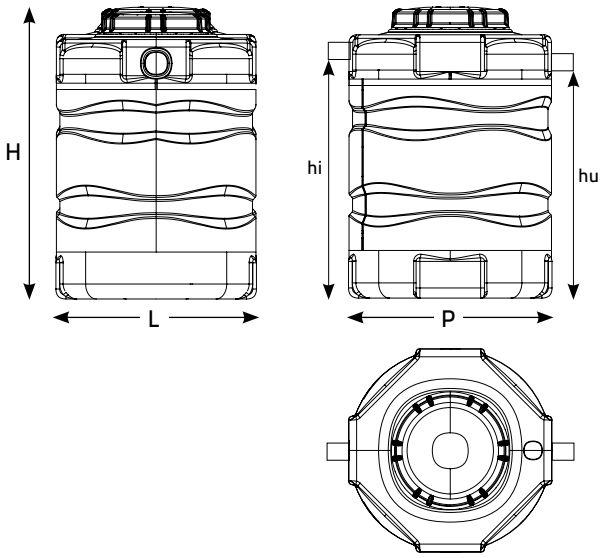


PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - LID
4 - SETTLING
5 - WASTEWATER OUTLET
6 - FLOATING MATERIAL
7 - INLET LID

ROUTINE MAINTENANCE
Generally remove the sludge and floating matter accumulated in the tank one to four times a year.

Download the data sheet

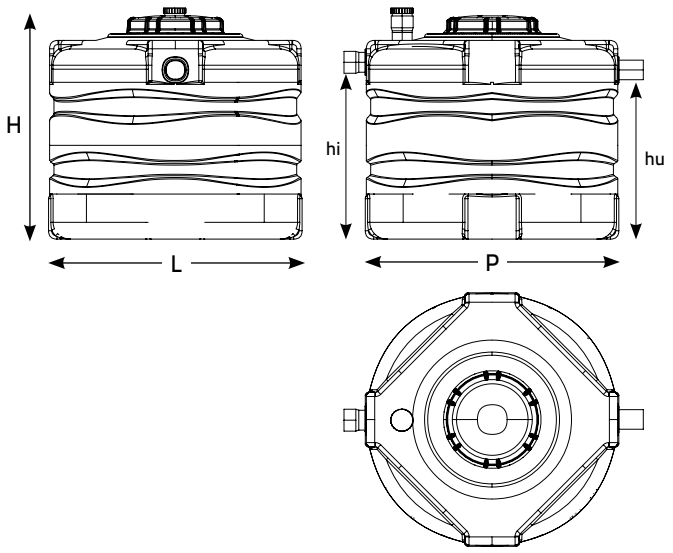




VERTICAL SEPTIC TANK ECO VSV 500

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
3	ECO VSV 500	116	80	80	92	90	432	500	100	/	420	0,5	1"	**538,28**





VERTICAL SEPTIC TANK ECO VSV 1000

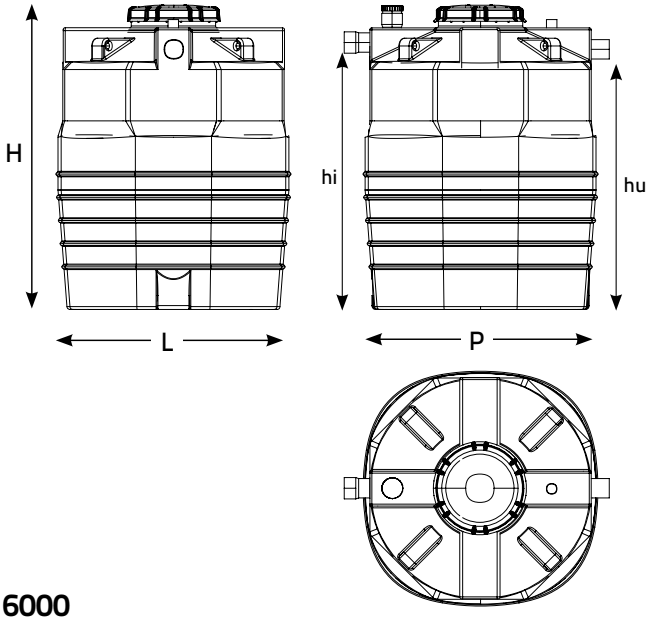
Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
6	ECO VSV 1000	108	120	120	74	72	835	1000	100	100	420	1,1	1"	**736,18**

SPECIFICATION ITEM

Septic tank in recyclable PE (linear polyethylene), consisting of a monoblock compartment and a screw lid for inspection and for removing sludge and suspended solids. It also has a vent valve and a lid for inspecting the inlet pipe. The inlet and outlet pipes are fitted with suitable external double-lip rubber seals to ensure a perfect seal.

Download the data sheet

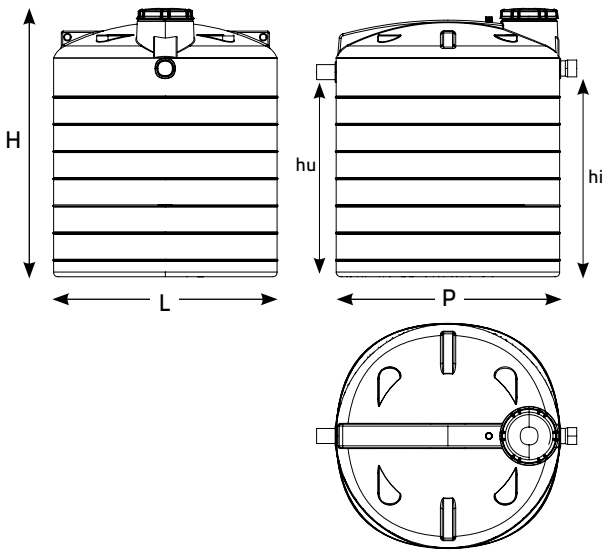




VERTICAL SEPTIC TANKS ECO VSV from 1500 to 6000

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
8	ECO VSV 1500	150	117	117	118	115	1243	1360	100	100	420	1,4	1"	**1.022,96**
14	ECO VSV 2000	182	136	136	151	148	2104	2265	125	125	420	1,8	1"	**1.210,38**
19	ECO VSV 3000	219	146	146	184	181	2923	3107	125	125	420	2,1	1"	**1.841,27**
25	ECO VSV 4000	224	165	165	189	186	3800	4200	160	160	420	2,7	1"	**2.200,01**
31	ECO VSV 5000	229	184	184	188	185	4705	5110	160	160	420	3,4	1"	**2.601,66**
37	ECO VSV 6000	257	185	185	216	213	5575	5993	160	160	420	3,4	1"	**3.273,75**





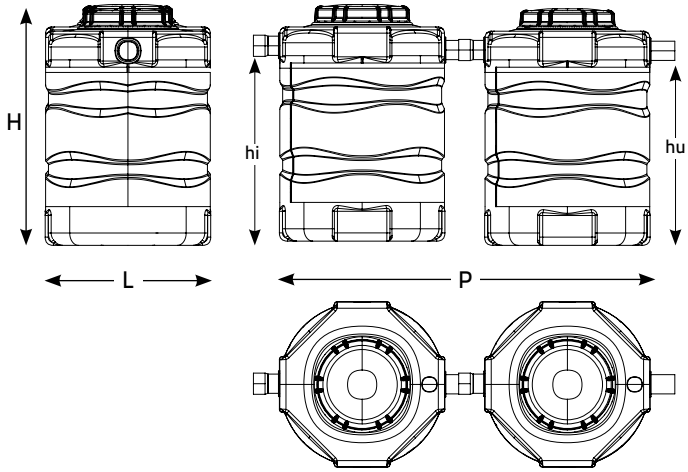
VERTICAL SEPTIC TANK ECO VSV 10000

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
60	ECO VSV 10000	260	238	238	214	210	8928	10000	160	/	550	4,4	2"	**5.271,86**

TWO-CHAMBER SEPTIC TANKS

Two-chamber septic tanks must consist of two watertight chambers with a total capacity of 225 l per P.E. and an absolute minimum of 3000 l. The liquid depth in each chamber must be between 1,5 m and 1,7 m. Each chamber must have a free space of at least 200 mm between the liquid level and the top of the tank. The sewage inlet and outlet pipes must have a diameter of at least 100 mm and be immersed at least 300 mm below the liquid level. The connection between the two chambers (saddle) must be made with pipes of at least 100 mm diameter, arranged in an "H" or inverted "U" shape, extending up to the top of the tank and down to at least 300 mm below the liquid level. They must also have two lids, one for inspecting the connection between the two chambers and one for removing sludge.

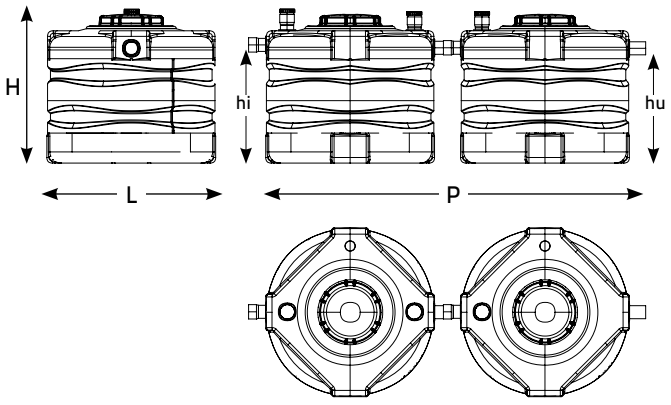




TWO-CHAMBER SEPTIC TANK ECO VBC 1000

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
6	ECO VBC 1000	116	80	min ~ 165	91	85	849	1000	100	/	420x2	0.5x2	1"	**1.076,55**





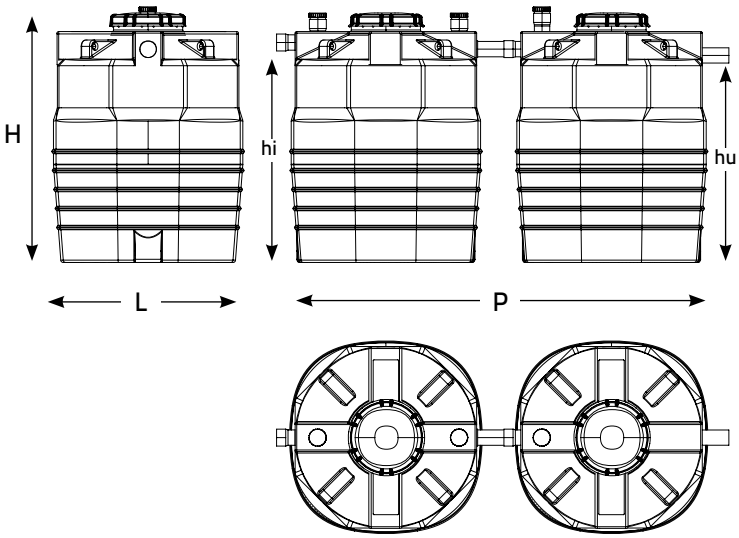
TWO-CHAMBER SEPTIC TANK ECO VBC 2000

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
11	ECO VBC 2000	108	120	min ~ 245	78	72	1636	2000	100	100	420x2	1.1x2	1"	**1.472,34**

TWO-CHAMBER SEPTIC TANKS

Download the data sheet

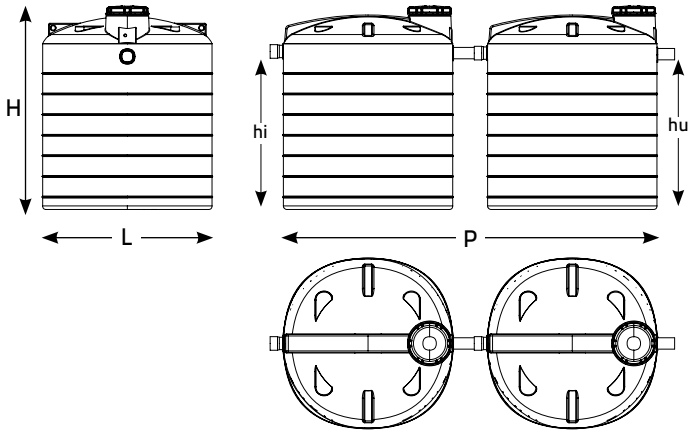




TWO-CHAMBER SEPTIC TANKS ECO VBC from 3000 to 11000

	Models	Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
* 20	ECO VBC 3000	183	117	min ~ 239	153	146	3120	3430	100	100	420x2	1.4x2	1″	**2.045,93**
* 27	ECO VBC 4000	182	136	min ~ 277	151	145	4100	4530	125	125	420x2	1.8x2	1″	**2.420,73**
38	ECO VBC 6000	219	146	min ~ 297	184	178	5724	6214	125	125	420x2	2.1x2	1″	**3.682,54**
49	ECO VBC 8000	224	165	min ~ 335	189	183	7438	8400	160	160	420x2	2.7x2	1″	**4.400,03**
61	ECO VBC 10000	229	184	min ~ 373	188	182	9212	10220	160	160	420x2	3.4x2	1″	**5.203,30**
73	ECO VBC 11000	257	185	min ~ 375	226	220	10950	11986	160	160	420x2	3.4x2	1″	**6.547,50**





TWO-CHAMBER SEPTIC TANK ECO VBC 20000

	Models	Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
118	ECO VBC 20000	260	238	min ~ 480	211	203	17683	20000	160	160	550x2	4.4x2	2″	**10.543,73**

SPECIFICATION ITEM

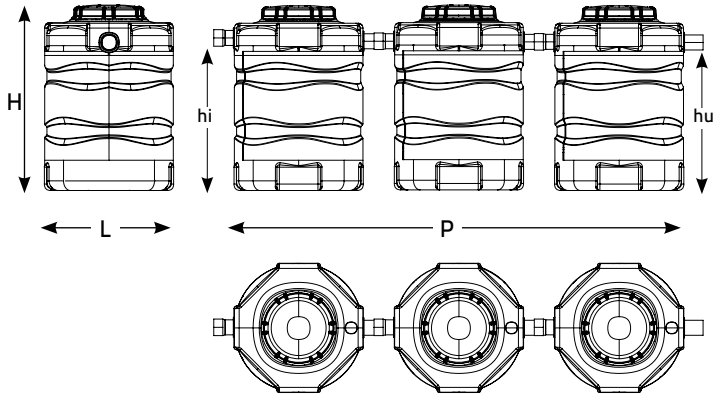
Two-chamber tanks have two completely watertight monoblock compartments in recyclable PE (linear polyethylene), connected by saddles of at least Ø100 mm. Each compartment has a vent valve, an inlet inspection lid and a sludge removal lid. The inlet, outlet and connecting pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

THREE-CHAMBER SEPTIC TANKS

Three-chamber septic tanks must consist of three watertight chambers with a total capacity of 200 l per P.E. and a minimum of 1800 l. The liquid depth must be between 1 m and 2 m, and the chambers must be connected by "H"-shaped saddles with a minimum diameter of 100 mm, immersed 300 mm in the liquid. They must also have two lids, one for inspection at the connection between the chambers and one for removing sludge.

Download the data sheet

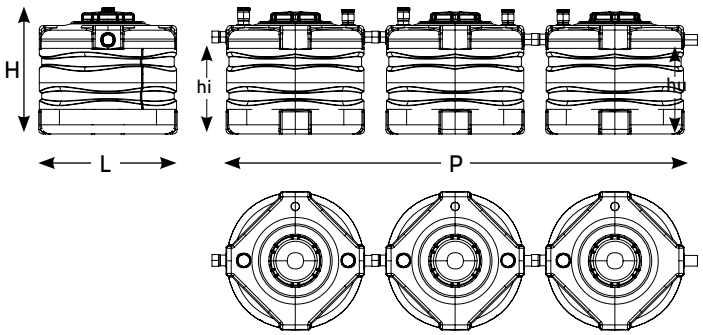




THREE-CHAMBER SEPTIC TANK ECO VTC 1500

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
8	ECO VTC 1500	116	80	min ~ 250	91	82	1251	1500	100	/	420x3	0.5x3	1″	**1.614,84**

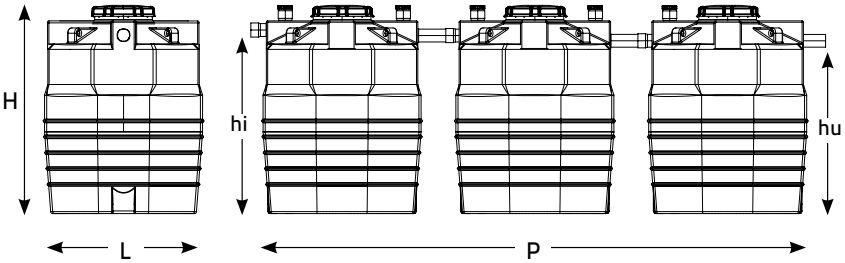




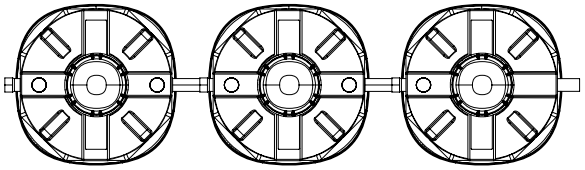
THREE-CHAMBER SEPTIC TANK ECO VTC 3000

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
16	ECO VTC 3000	108	120	min ~ 370	78	69	2404	3000	100	100	420x3	1.1x3	1″	**2.208,50**

Download the data sheet



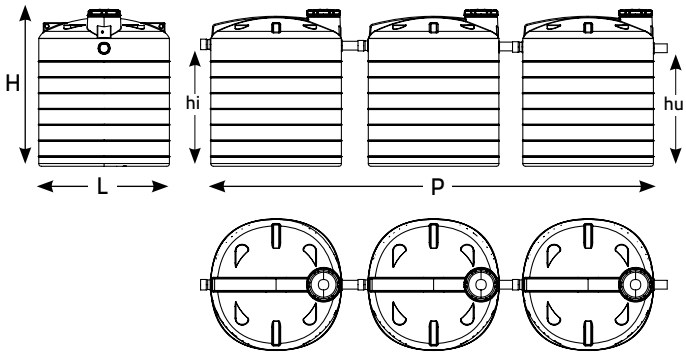




THREE-CHAMBER SEPTIC TANKS ECO VTC from 4000 to 14500

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
23	ECO VTC 4000	150	117	min ~ 361	118	109	3486	4080	100	100	420x3	1.4x3	1″	**3.068,89**
40	ECO VTC 6500	182	136	min ~ 418	157	142	5988	6795	125	125	420x3	1.8x3	1″	**3.631,10**
56	ECO VTC 9000	219	146	min ~ 448	184	175	8397	9321	125	125	420x3	2.1x3	1″	**5.523,81**
73	ECO VTC 11500	224	165	min ~ 505	188	180	10920	12600	160	160	420x3	2.7x3	1″	**6.600,04**
90	ECO VTC 14500	229	184	min ~ 562	188	178	13524	15330	160	160	420x3	3.4x3	1″	**7.804,96**





THREE-CHAMBER SEPTIC TANK ECO VTC 30000

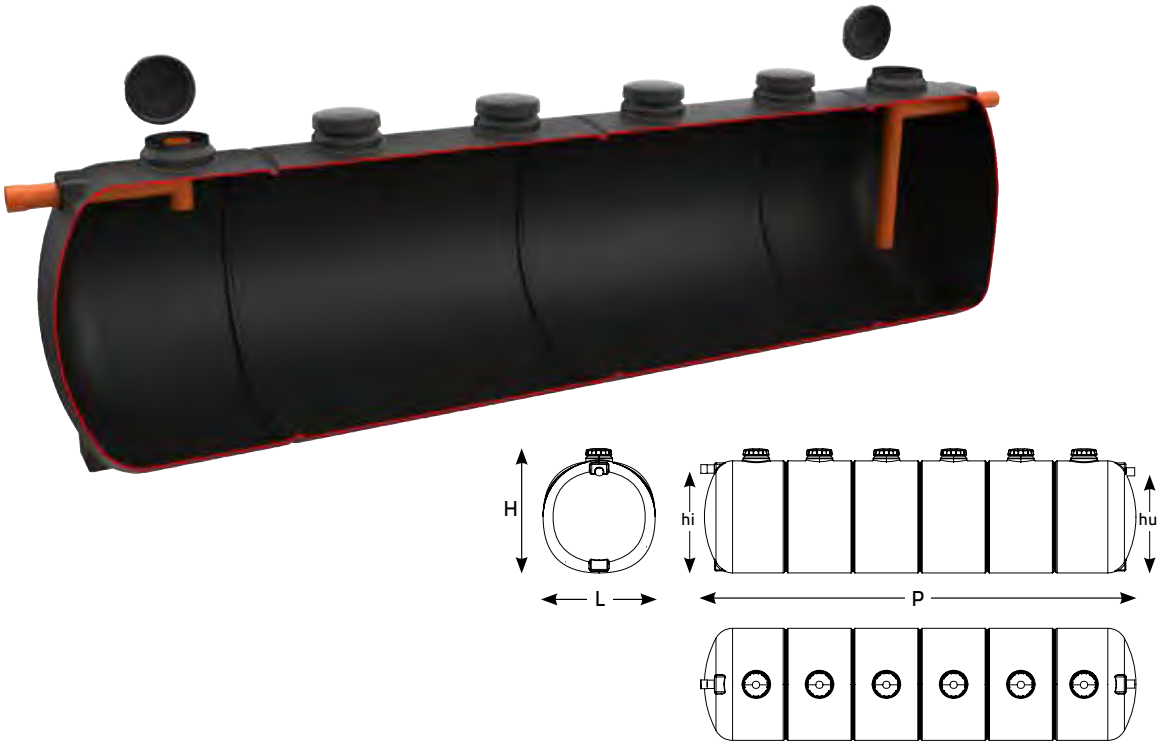
Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			Settling area (m^2)	ø biogas P.E.	€
	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid inlet	ø lid			
175	ECO VTC 30000	260	238	min ~ 725	214	205	26266	30000	160	160	550x3	4.4x3	2″	**15.815,60**

SPECIFICATION ITEM

Three-chamber tanks have three completely watertight monoblock compartments in recyclable PE (linear polyethylene), connected by saddles of at least Ø100 mm. Each compartment has a vent valve, an inlet inspection lid and a sludge removal lid. The inlet, outlet and connecting pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

LARGE-SYSTEM SEPTIC TANKS

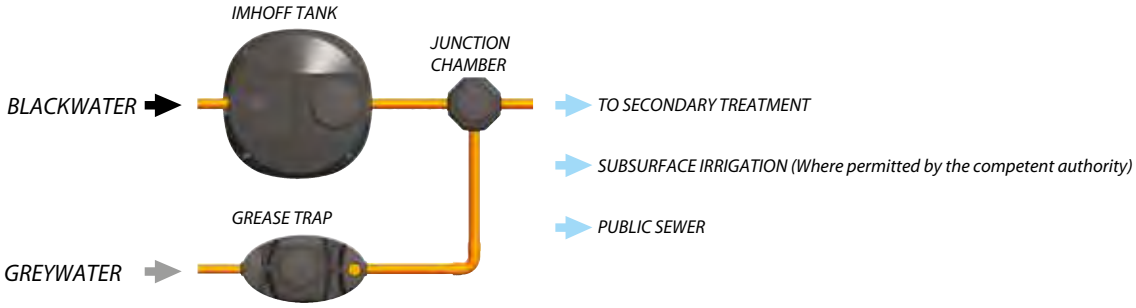
TELCOM Large-System septic tanks consist of several compartments so that the first compartments concentrate both sludge settling, creating a suitable calm zone, and the flotation of substances that tend to float on the surface because of their low relative specific weight. The following compartments then provide progressive clarification of the wastewater. The compartments are sized to achieve biological stabilization of the settled organic matter (anaerobic fermentation or digestion) while keeping the ratio between BOD5, nitrogen and phosphorus balanced. Oversizing septic tanks can in fact upset the ratio between these factors, with negative effects on the treatment capacity of any secondary treatment downstream. TELCOM septic tanks are made of PE (linear polyethylene), a fully recyclable material, and have lids for inspection and sludge removal, a wastewater inlet pipe with external rubber seal, a clarified water outlet pipe with seal and a vent for removing biogas.



Large-System SEPTIC TANKS

	P.E.	ITEM	TOTAL VOLUME (liters)	Dimensions (cm)			Number of lids ø550	ø Pipe IN/OUT (mm)	hi (cm)	hu (cm)	€
				L	P	H					
NEW	46	VS 7000	7000	238	205	255	2	160	213	209	**6.056,05**
	56	VS 8500	8500	238	240	255	2	160	213	209	**6.860,87**
	67	VS 10000	10000	238	275	255	2	160	213	209	**7.157,15**
	80	VS 12000	12000	238	370	255	2	160	213	209	**9.189,82**
	100	VS 15000	15000	238	390	255	2	160	213	209	**10.461,26**
	113	VS 17000	17000	238	502	255	2	160	213	209	**12.459,45**
	123	VS 18500	18500	238	543	255	2	160	213	209	**13.092,53**
	133	VS 20000	20000	238	508	255	2	160	213	209	**13.725,60**
	167	VS 25000	25000	238	627	255	3	160	213	209	**17.955,71**
	200	VS 30000	30000	238	743	255	3	160	213	209	**21.220,44**
	235	VS 35000	35000	238	862	255	3	160	213	209	**25.848,81**
	265	VS 40000	40000	238	979	255	4	160	213	209	**28.746,43**
	300	VS 45000	45000	238	1098	255	4	160	213	209	**33.654,54**
	333	VS 50000	50000	238	1215	255	5	160	213	209	**39.159,80**

ROUTINE MAINTENANCE
For Telcom Large-System septic tanks, one to three emptyings a year are recommended.



GREASE TRAPS

Grease traps are used to separate (non-emulsified) greases and oils or sand. Oils and greases are always present in civil discharges, especially from users such as restaurants, hotels, etc., and must be removed because they can seriously impair the operation of downstream biological treatment plants. Grease traps work by means of suitably equipped calm tanks in which oils and greases (in general all substances lighter than water) float and settleable materials sink. Grease traps are sized with a useful flotation area of not less than 0,25 m^2 for each liter per second of incoming flow, as specified in DIN 4040.



GREASE TRAP MOD. ECO DIS 1/3



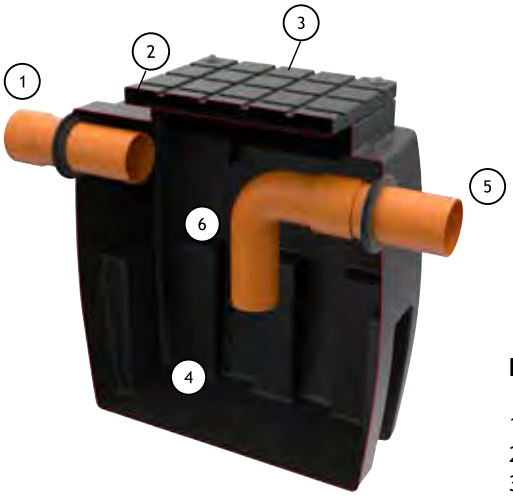
GREASE TRAP MOD. ECO DIS 18



GREASE TRAP MOD. STANDARD (30-110)

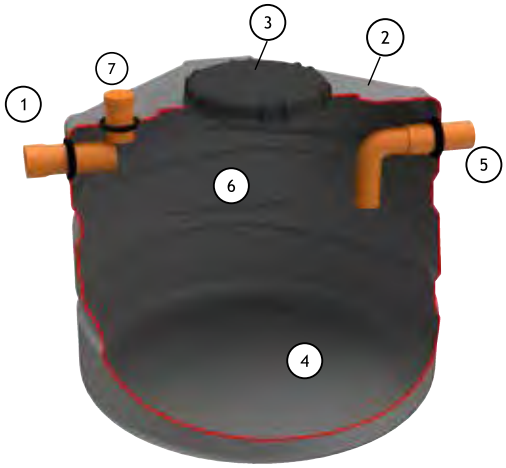


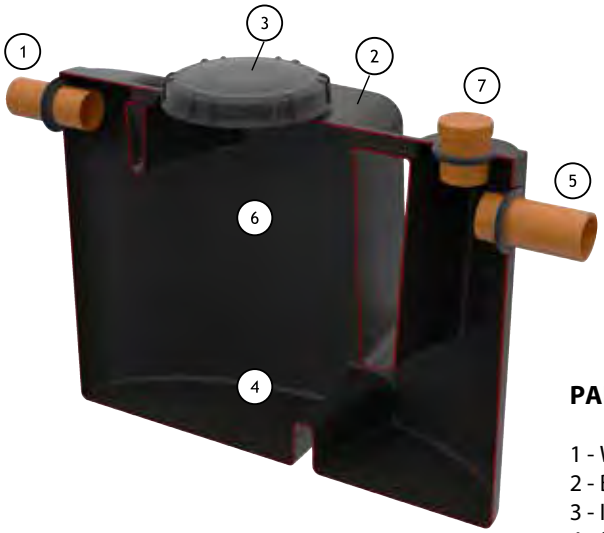
GREASE TRAP MOD. TECHNO (4-10)



PARTS:

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND REMOVAL LID
4 - SETTLING ZONE
5 - WASTEWATER OUTLET
6 - GREASE COLLECTION
7 - OUTLET LID





PARTS:

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND REMOVAL LID
4 - SETTLING ZONE
5 - WASTEWATER OUTLET
6 - GREASE COLLECTION
7 - OUTLET LID



ROUTINE MAINTENANCE

Unless otherwise specified by the competent authority, generally clean the tank one to four times a year, removing accumulated greases, oils and inert materials.

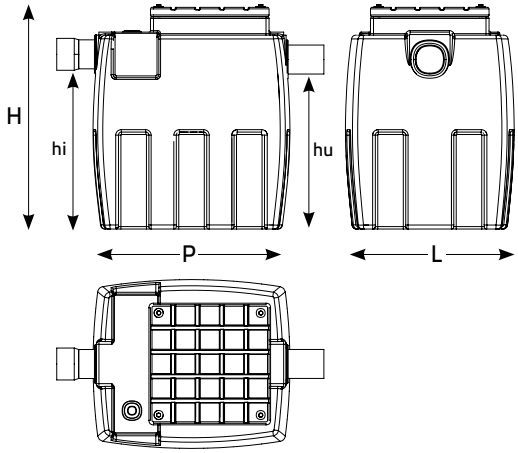
SPECIFICATION ITEM

Grease trap in recyclable PE (linear polyethylene), consisting of a monoblock compartment. The product has a vent valve for removing biogas, a lid for inspecting the inlet pipe and a lid for removing sludge and grease. The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

RECOMMENDED GREASE TRAPS (Sized at 50 liters per P.E.)

Download the data sheet



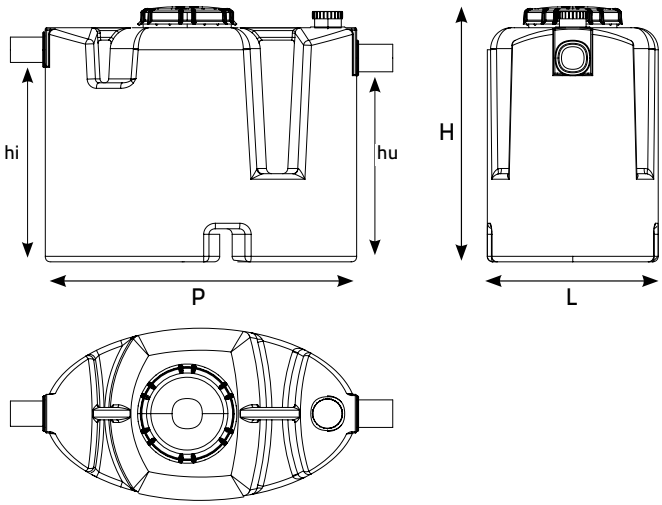


GREASE TRAPS for residential units, hotels with restaurants and similar activities (50 liters per P.E.)

Models			Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Covers	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid OUTLET	ø lid		
1	3	ECO DIS 1	58	45	53	42	40	80	100	100	/	360x360*	1"	**286,18**
3	9	ECO DIS 3	70	55	65	51	49	150	200	100	/	410x410*	1"	**371,34**

**** Lid with M10 locking pins and seals***



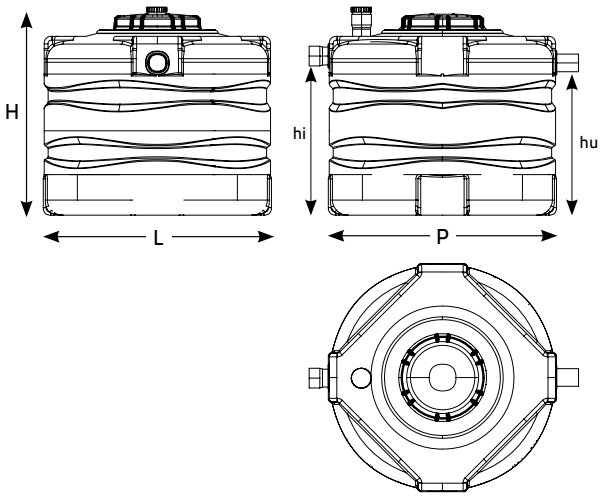


GREASE TRAPS for residential units, hotels with restaurants and similar activities (50 liters per P.E.)

Models			Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Covers	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid OUTLET	ø lid		
4	12	ECO DIS 4	80	56	101	54	52	200	260	100	100	320	1"	**387,73**
6	18	ECO DIS 6	91	63	114	66	64	320	380	100	100	320	1"	**455,20**
10	30	ECO DIS 10	103	74	135	76	74	500	590	100	100	320	1"	**543,53**

RECOMMENDED GREASE TRAPS (Sized at 50 liters per P.E.)

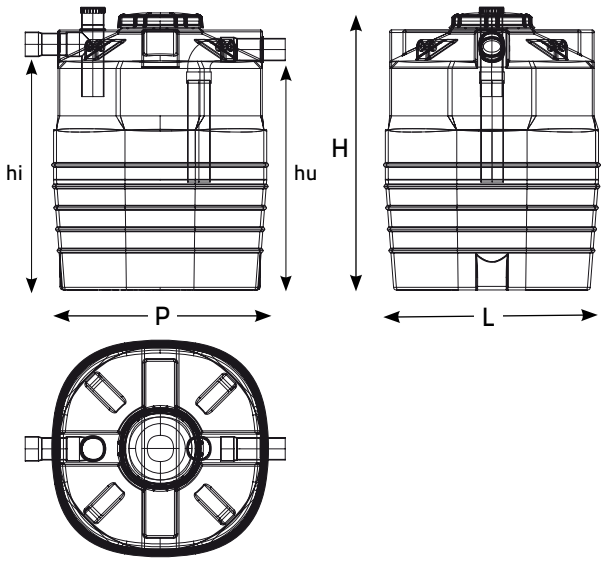




GREASE TRAPS for residential units, hotels with restaurants and similar activities (50 liters per P.E.)

Models			Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Covers	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid INLET ø lid			
18	54	ECO DIS 18	108	120	120	74	72	900	1000	100	/	420	1″	**736,18**





GREASE TRAPS for residential units, hotels with restaurants and similar activities (50 liters per P.E.)

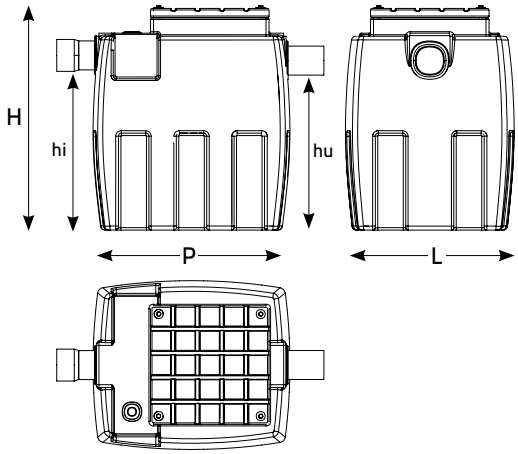
Models			Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Covers	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid INLET ø lid			
25	75	ECO DIS 30	150	117	117	118	115	1170	1360	100	100	420	1″	**1.022,96**
42	126	ECO DIS 40	182	136	136	151	148	2006	2265	125	125	420	1″	**1.210,38**
58	174	ECO DIS 60	219	146	146	184	181	2800	3107	125	125	420	1″	**1.841,27**
76	228	ECO DIS 80	224	165	165	195	192	3758	4200	125	125	420	1″	**2.200,01**
94	282	ECO DIS 100	229	184	184	195	192	4671	5110	125	125	420	1″	**2.601,66**
111	333	ECO DIS 110	257	185	185	221	218	5520	5993	125	125	420	1″	**3.273,75**

For a higher number of covers/P.E. contact our Technical/Sales Department.

RECOMMENDED GREASE TRAPS (Sized at 30 liters per P.E.) for discharge into SEWER

Download the data sheet

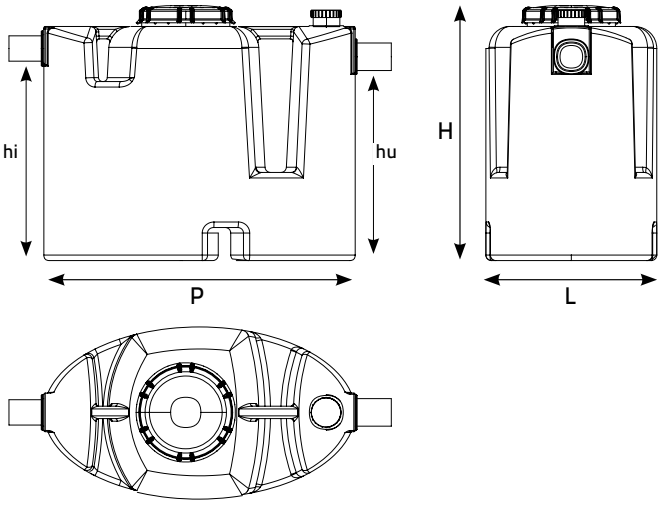




GREASE TRAPS (30 liters per P.E.)

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid OUTLET	ø lid		
2	ECO DIS 1	58	45	53	42	40	80	100	100	/	360x360*	1″	**286,18**
5	ECO DIS 3	70	55	65	51	49	150	200	100	/	410x410*	1″	**371,34**



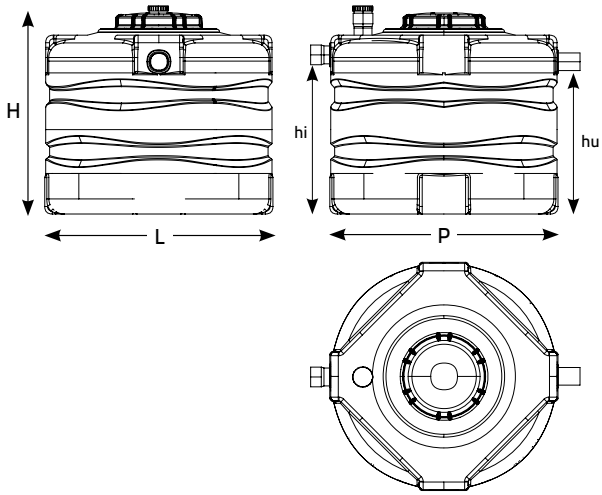


GREASE TRAPS (30 liters per P.E.)

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid OUTLET	ø lid		
6	ECO DIS 4	80	56	101	54	52	200	260	100	100	320	1″	**387,73**
10	ECO DIS 6	91	63	114	66	64	320	380	100	100	320	1″	**455,20**
17	ECO DIS 10	103	74	135	76	74	500	590	100	100	320	1″	**543,53**

RECOMMENDED GREASE TRAPS (Sized at 30 liters per P.E.) for discharge into SEWER

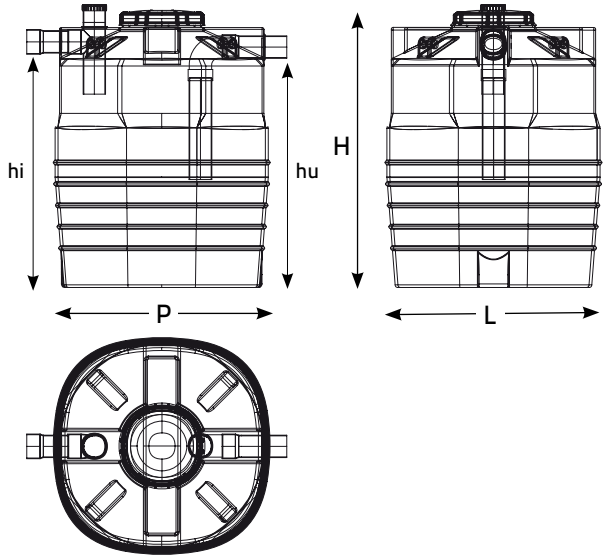




GREASE TRAPS (30 liters per P.E.)

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid INLET ø lid			
30	ECO DIS 18	108	120	120	74	72	900	1000	100	/	420	1"	**736,18**





GREASE TRAPS (30 liters per P.E.)

Models		Dimensions (cm)					Volumes (liters)		Dimensions (mm)			ø biogas	€
P.E.	Item	H	L	P	hi	hu	Overflow	Total	øi øu	ø lid INLET ø lid			
41	ECO DIS 30	150	117	117	118	115	1243	1360	100	100	420	1"	**1.022,96**
70	ECO DIS 40	182	136	136	151	148	2104	2265	125	125	420	1"	**1.210,38**
97	ECO DIS 60	219	146	146	184	181	2923	3107	125	125	420	1"	**1.841,27**
126	ECO DIS 80	224	165	165	195	192	3800	4200	125	125	420	1"	**2.200,01**
156	ECO DIS 100	229	184	184	195	192	4705	5110	125	125	420	1"	**2.601,66**
185	ECO DIS 110	257	185	185	221	218	5575	5993	125	125	420	1"	**3.273,75**

For a higher number of covers/P.E. contact our Technical/Sales Department.

GREASE TRAPS SIZED ACCORDING TO EN 1825-2
for RESTAURANTS, HOSPITALS, CATERING, COMPANY AND SCHOOL CANTEENS

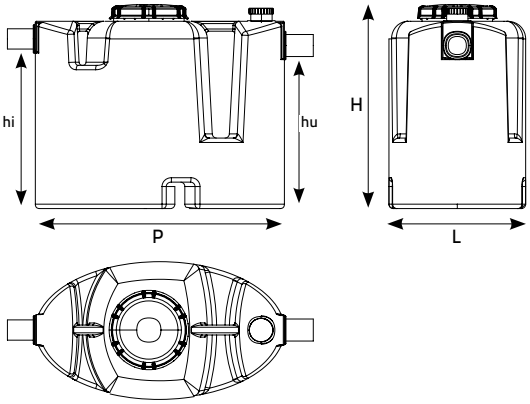
$$\text{CALCULATION OF MEALS PER DAY} = \frac{\text{NS x 3600 x working hours}}{\text{peak flow x water volume per meal}}$$

Download the data sheet

CALCULATION PARAMETERS ACCORDING TO STANDARD EN 1825-2

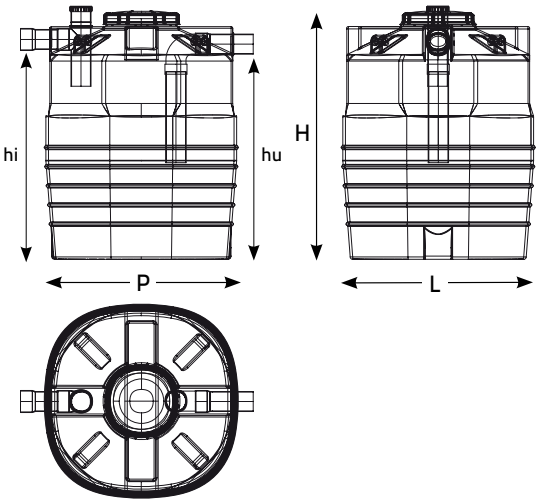
ACTIVITY	Restaurant	Hospital	Catering	Company canteen School
Working HOURS	8	8	8	8
Peak FLOW	8,5	13	20	22
Water VOL. per meal (liters)	50	20	10	5





Models / Item	NS	MEALS PER DAY (EN 1825-2) Restaurant	Hospital	Catering	Canteen	Dimensions (cm) H	L	P	hi	hu	Volumes (liters) Overflow	Total	Dimensions (mm) øi øu	ø lid OUTLET	ø lid	ø biogas	€
ECO DIS 4	1	51	111	144	262	80	56	101	54	52	200	260	100	100	320	1″	**387,73**
ECO DIS 6	2	102	222	288	524	91	63	114	66	64	320	380	100	100	320	1″	**455,20**
ECO DIS 10	3	152	332	432	785	103	74	135	76	74	500	590	100	100	320	1″	**543,53**

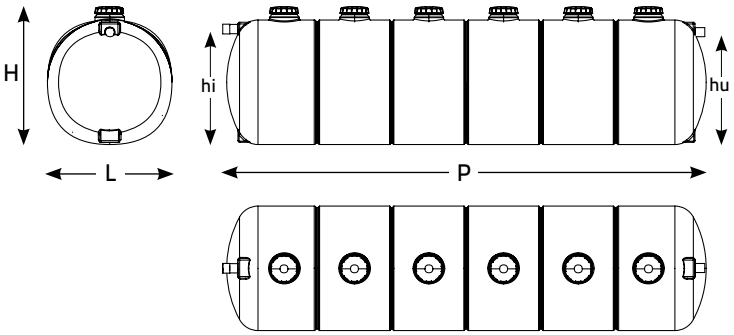




Models / Item	NS	MEALS PER DAY (EN 1825-2) Restaurant	Hospital	Catering	Canteen	Dimensions (cm) H	L	P	hi	hu	Volumes (liters) Overflow	Total	Dimensions (mm) øi øu	ø lid INLET	ø lid	ø biogas	€
ECO DIS 30	7	356	775	1008	1833	150	117	117	118	115	1243	1360	100	100	420	1″	**1.022,96**
ECO DIS 40	10	508	1108	1440	2618	182	136	136	151	148	2104	2265	125	125	420	1″	**1.210,38**
ECO DIS 60	15	762	1662	2160	3927	219	146	146	184	181	2923	3107	125	125	420	1″	**1.841,27**
ECO DIS 80	17	864	1883	2448	4451	224	165	165	195	192	3800	4200	125	125	420	1″	**2.200,01**
ECO DIS 100	20	1016	2215	2880	5236	229	184	184	195	192	4705	5110	125	125	420	1″	**2.601,66**
ECO DIS 110	25	1271	2769	3600	6545	257	185	185	221	218	5575	5993	125	125	420	1″	**3.273,75**

LARGE-SYSTEM GREASE TRAPS





RECOMMENDED GREASE TRAPS (Sized at 50 liters per P.E.)

LARGE-SYSTEM GREASE TRAPS (50 liters per P.E.)

P.E.	ITEM	CAPACITY (liters)	OVERFLOW VOL.	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	Hi (cm)	Hu (cm)	Number of lids ø 550	€
192	ECO DIS 10000	10000	9634	238	275	255	160	213	209	2	**7.157,15**
296	ECO DIS 15000	15000	14424	238	394	255	160	213	209	2	**10.461,26**
391	ECO DIS 20000	20000	19214	238	510	255	160	213	209	2	**13.725,60**
486	ECO DIS 25000	25000	24004	238	630	255	160	213	209	3	**17.955,71**
581	ECO DIS 30000	30000	28794	238	746	255	160	213	209	3	**21.220,44**
676	ECO DIS 35000	35000	33584	238	865	255	160	213	209	4	**25.848,81**
771	ECO DIS 40000	40000	38374	238	982	255	160	213	209	4	**28.746,43**
849	ECO DIS 45000	45000	43164	238	1100	255	160	213	209	5	**33.654,54**
960	ECO DIS 50000	50000	47954	238	1218	255	160	213	209	5	**39.159,80**

RECOMMENDED GREASE TRAPS (Sized at 30 liters per P.E.) for discharge into SEWER

LARGE-SYSTEM GREASE TRAPS (30 liters per P.E.)

P.E.	ITEM	CAPACITY (liters)	OVERFLOW VOL.	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	Hi (cm)	Hu (cm)	Number of lids ø 550	€
321	ECO DIS 10000	10000	9634	238	275	255	160	213	209	2	**7.157,15**
500	ECO DIS 15000	15000	14424	238	394	255	160	213	209	2	**10.461,26**
667	ECO DIS 20000	20000	19214	238	510	255	160	213	209	2	**13.725,60**
833	ECO DIS 25000	25000	24004	238	630	255	160	213	209	3	**17.955,71**
1000	ECO DIS 30000	30000	28794	238	746	255	160	213	209	3	**21.220,44**
1167	ECO DIS 35000	35000	33584	238	865	255	160	213	209	4	**25.848,81**
1333	ECO DIS 40000	40000	38374	238	982	255	160	213	209	4	**28.746,43**
1500	ECO DIS 45000	45000	43164	238	1100	255	160	213	209	5	**33.654,54**
1667	ECO DIS 50000	50000	47954	238	1218	255	160	213	209	5	**39.159,80**

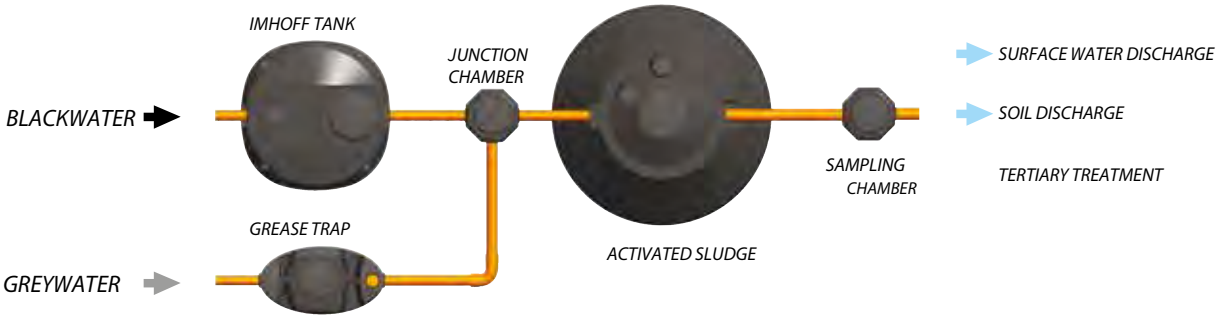


SECONDARY TREATMENT

SECONDARY TREATMENTS are those responsible for removing biodegradable organic substances. They are generally based on biological processes and are the treatments mainly responsible for purifying wastewater.

They are divided into:
- suspended biomass treatments
- attached biomass treatments

INDICE



ACTIVATED SLUDGE

Activated sludge systems are biological treatment systems with suspended biomass and extended aeration. They are called "biological" because the organic matter and part of the suspended solids in the sewage are degraded by bacteria that feed on the pollutants and thus purify the wastewater. Artificial aeration of the wastewater ensures the growth of these bacteria, which group into colonies to form the sludge flocs typical of suspended biomass. Activated sludge systems consist of two compartments: oxidation and settling. In the first, the wastewater is oxidized: the sewage undergoes intense artificial aeration, and in this oxygen-rich environment physical, chemical and above all biological processes are triggered that break down the pollutant load. The high microbial concentrations in the oxidation compartment, responsible for purifying the wastewater, are maintained by the continuous recirculation of the activated sludge collected in the following settling compartment. There, thanks to calm conditions, the sludge separates and settles and is then recirculated to the oxidation compartment. The clarified and purified wastewater is sent to any further treatment stage provided by the designer. Only excess sludge beyond the needs of the treatment process (surplus sludge) must be removed periodically from the system.



ACTIVATED SLUDGE system for 5 P.E. (FA5)



ACTIVATED SLUDGE system from 10 to 25 P.E.



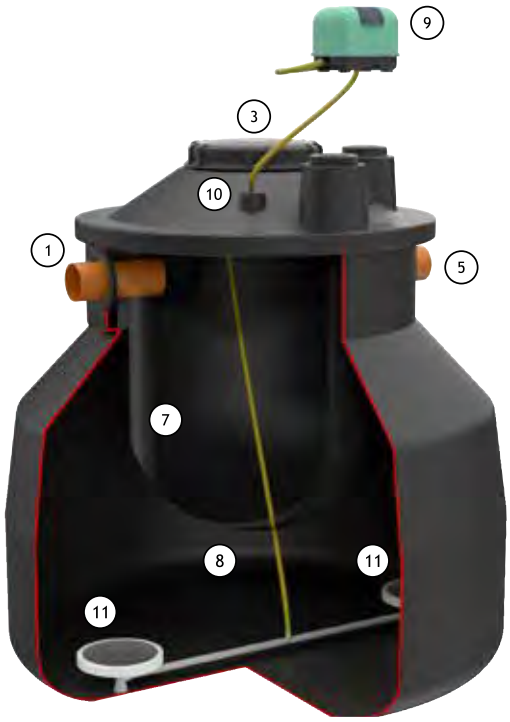
CL 140 turret for removal and inspection lids

SPECIFICATION ITEM

Monoblock activated sludge system in recyclable PE (linear polyethylene), consisting of two compartments and a central lid, a lid for inspecting the settling compartment, one for inspecting the digester compartment and a vent valve for removing biogas. The product comes with no. ..... linear diaphragm pump of .....W, 230V-50Hz and no. ..... EPDM fine-bubble disc diffusers. The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

According to standard EN 12566-3:2005 - Certificate No. 0 107 10 349





PARTS:

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID ø 420
4 - SETTLING CHAMBER INSPECTION LID ø 140
5 - WASTEWATER OUTLET
6 - SLUDGE REMOVAL FROM DIGESTION ZONE ø 140
7 - CONNECTION BETWEEN OXIDATION AND SETTLING
8 - OXIDATION COMPARTMENT
9 - BLOWER
10 - BLOWER PIPE INLET
11 - BLOWER SYSTEM DIFFUSER

Technical note: for correct installation, activated sludge systems must be preceded by primary treatment.

FA PERFORMANCE

- Suspended solids removal: 93,7%
- BOD5 removal: ~ 79,6%
- COD removal: ~ 83,5%

ROUTINE MAINTENANCE

Unless otherwise specified by the competent authority, generally remove surplus sludge from the settling chamber one to four times a year. Carefully clean the sludge deposit area, making sure the connecting hole(s) in the settling chamber are not blocked. Add the recommended doses of bacterial-enzymatic mixture every time start-up operations are carried out. The linear diaphragm pump must be installed in a suitably ventilated place, and in general the maintenance manuals of the electromechanical equipment supplied with the product must be followed carefully. (It must not be operated in the compartment used only for transport).

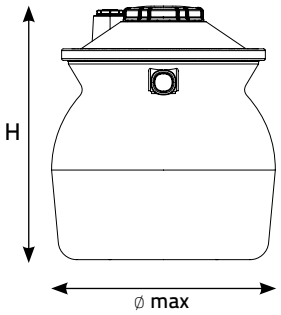
According to standard EN 12566-3:2005 - Certificate No. RI 07.10.349

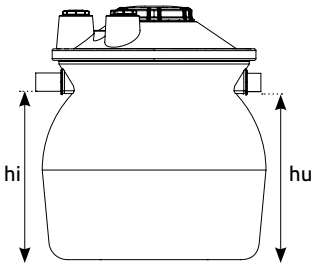
Telcom ECO AQUARIUS

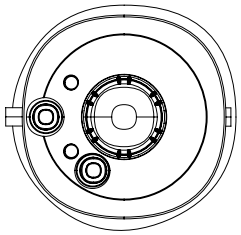
Download the data sheet









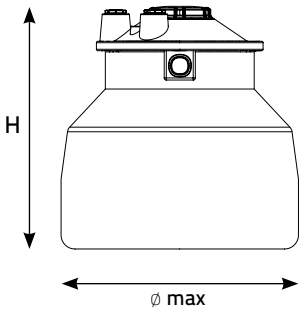


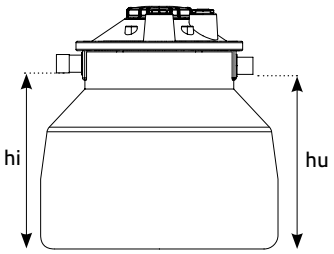
ACTIVATED SLUDGE SYSTEM "FA" 5

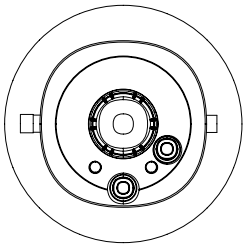
MODELS			Dimensions (cm)				Overflow volumes (liters)			Dimensions (mm)			Lid	Dimensions (mm)			€
P.E. surf.	P.E. soil	Item	H	ø max	hi	hu	SETT.	OXID.	Total	øi øu	ø removal sludge	ø settling inspection		ø biogas	No. of diffusers	Power W	
5	-	FA 5	132	118	90	88	170	850	1020	100	140	140	420	1"	2	48	**1.904,54**









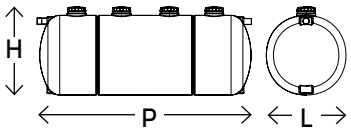


ACTIVATED SLUDGE SYSTEMS from "FA" 10 to "FA" 25

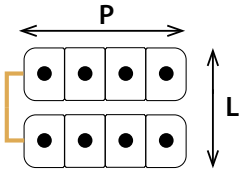
MODELS			Dimensions (cm)				Overflow volumes (liters)			Dimensions (mm)			Lid	Dimensions (mm)			€
P.E. surf.	P.E. soil	Item	H	ø max	hi	hu	SETT.	OXID.	Total	øi øu	ø removal sludge	ø settling inspection		ø biogas	No. of diffusers	Power Kw	
10	5	FA 10	166	164	120	117	340	1700	2040	125	140	140	420	1"	2	50	**2.753,97**
15	10	FA 15	171	194	125	122	510	2600	3110	125	140	140	420	1"	4	75	**3.489,02**
20	15	FA 20	184	213	135	132	700	3400	4100	125	140	140	420	1"	4	95	**4.174,44**
25	20	FA 25	211	217	161	158	900	4300	5200	125	140	140	420	1"	6	143	**4.819,45**



DIRECT-FLOW ACTIVATED SLUDGE systems
come complete with electric blower and/or diaphragm compressor,
and a control panel.



Mod. FA



Mod. N.2 FA

DIRECT-FLOW ACTIVATED SLUDGE SYSTEMS G.I. line

ITEM	P.E. soil	Average hourly flow m^3/h soil	P.E. surf.	Average hourly flow m^3/h surf.	Approximate overall dimensions of the system (Wi ies) PxL H=2,5 m	Volume TOTAL (liters)	Power total installed (Kw)	Voltage (Volt)	€
FA 13500	51	0,4	60	0,5	4,11 x 2,5 m	13500	0,24	220	**22.124,75**
FA 18500	70	0,6	90	0,8	5,43 x 2,5 m	18500	1,55	380	**26.812,49**
FA 25000	95	0,8	120	1,0	7,16 x 2,5 m	25000	1,55	380	**31.431,37**
FA 30000	120	1,0	150	1,3	8,48 x 2,5 m	30000	3	380	**37.375,05**
FA 35000	145	1,2	180	1,5	9,8 x 2,5 m	35000	3	380	**44.730,07**
FA 40000	170	1,4	200	1,7	11 x 2,5 m	40000	2	380	**52.081,52**
FA 48500	200	1,7	250	2,1	14 x 2,5 m	48500	2	380	**61.864,54**
N. 2 FA 30000	250	2,1	300	2,5	8 x 7 m	60000	3	380	**76.891,72**
N. 2 FA 35000	300	2,5	350	2,9	10 x 7 m	70000	3	380	**89.278,39**
N. 2 FA 40000	350	2,9	400	3,3	11 x 7 m	80000	3	380	**101.198,62**
N. 2 FA 48500	400	3,3	500	4,2	14 x 7 m	97000	4	380	**120.027,64**
N. 4 FA 30000	500	4,2	600	5,0	8 x 15 m	120000	7	380	**153.782,30**
N. 4 FA 35000	600	5,0	700	5,8	10 x 15 m	140000	7	380	**178.555,43**
N. 4 FA 40000	700	5,8	800	6,7	11 x 15m	160000	7	380	**202.406,30**
N. 4 FA 48500	800	6,7	1000	8,3	14 x 15 m	194000	9	380	**240.058,58**

WARNING
To comply with the discharge limits, a constant supply of wastewater must be ensured at all hours of the day; the system cannot handle flow peaks above the average values (m^3/hour) shown in the table.

Activated Sludge Systems with primary settling

The VSFA monoblock treatment plant provides complete treatment of wastewater through primary treatment by settling and anaerobic digestion followed by secondary treatment by oxidation and aerobic digestion. The system consists of three sections:

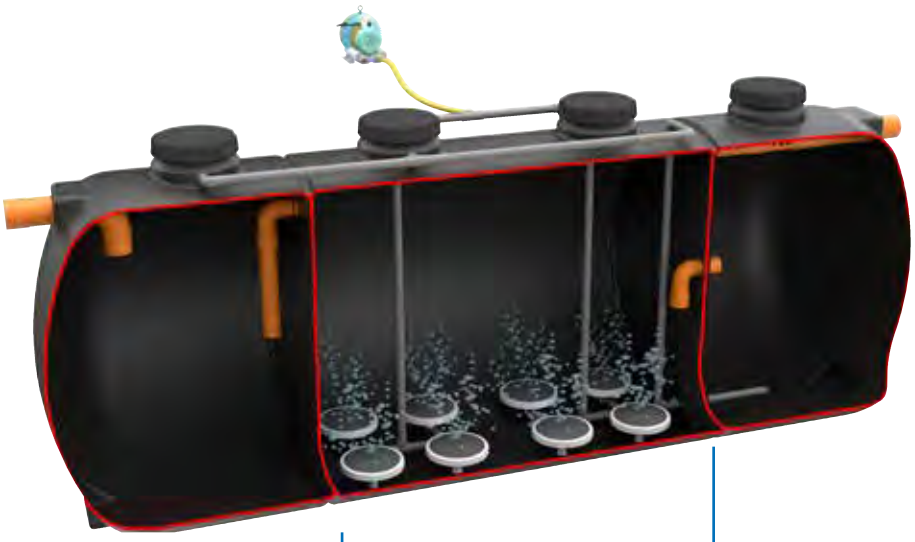
OPERATING DESCRIPTION

Zone A - PRIMARY SETTLING
where the wastewater is roughly cleaned with anaerobic digestion;

Zone B - SUSPENDED BIOMASS BIOLOGICAL TREATMENT
where the wastewater is oxidized. The sewage undergoes intense artificial aeration, and in an oxygen-rich environment physical, chemical and biological processes are triggered that break down the pollutant load. The high microbial concentrations in the oxidation compartment, responsible for purifying the wastewater, are made possible by the continuous recirculation of the activated sludge collected in the following settling compartment

Zone C - SECONDARY SETTLING
in this section, thanks to calm conditions, the sludge separates and settles and is then recirculated to the settling/oxidation compartment. The clarified wastewater is sent to any further stage provided by the designer. Excess sludge will be removed periodically. Where possible, suitable primary roughing treatment of greywater from bathrooms and kitchens is recommended.

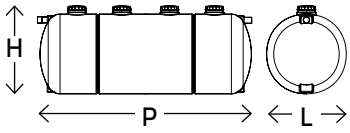
The effluent from an ECO VSFA system can be discharged into a surface watercourse (surface water discharge).



Zone A
PRIMARY SETTLING

Zone B
SUSPENDED BIOMASS
BIOLOGICAL TREATMENT

Zone C
SECONDARY SETTLING





ECO VSFA SYSTEMS - Surface water discharge

Tank Features										Design Features					
P.E. surf.	ITEM	VOLUME TOTAL	L (cm)	P (cm)	H (cm)	ø PIPE IN/OUT (mm)	NUMBER OF LIDS ø550	hi (cm)	hu (cm)	Zone A TOT. VOL. PRIMARY SETTLING (liters)	Zone B TOT. VOL. OXIDATION (liters)	Zone C TOT. VOL. SECONDARY SETTLING (liters)	POWER TOTAL (KW)	VOLTAGE (V)	€
60	ECO VSFA 22000	22000	238	560	255	160	4	213	209	8500	10000	3500	0,9	220	**25.756,95**
90	ECO VSFA 28500	28500	238	712	255	160	4	213	209	10000	15000	3500	2,18	380	**37.005,60**
120	ECO VSFA 37000 B	37000	238	914	255	160	5	213	209	13500	20000	3500	2,18	380	**45.639,23**
150	ECO VSFA 45000 B	45000	238	1103	255	160	6	213	209	15000	25000	5000	2,18	380	**57.011,64**

Download the data sheet

Constant-Flow Activated Sludge Systems

TELCOM SUSPENDED BIOMASS SYSTEMS are biological treatment systems based on the extended-aeration ACTIVATED SLUDGE principle. The organic matter and part of the suspended solids in the sewage are degraded by bacteria that feed on the pollutants and thus purify the wastewater. Artificial aeration ensures the growth of these bacteria, which group into colonies to form the sludge flocs typical of suspended biomass.

OPERATING DESCRIPTION

Zone A - EQUALIZATION - DENITRIFICATION

This section equalizes the hydraulic load and makes the pollutant load of the incoming wastewater as uniform as possible. Sudden load peaks (shock loads) would seriously affect treatment efficiency, since microorganisms adapt poorly to abrupt environmental changes. In addition, in the same suitably sized compartment, the recirculation of the aerated mixture and activated sludge from the oxidation and settling compartments respectively triggers, in an anoxic environment, the denitrification of the wastewater to reduce nitrogen in its various oxidized forms.

Zone B - OXIDATION

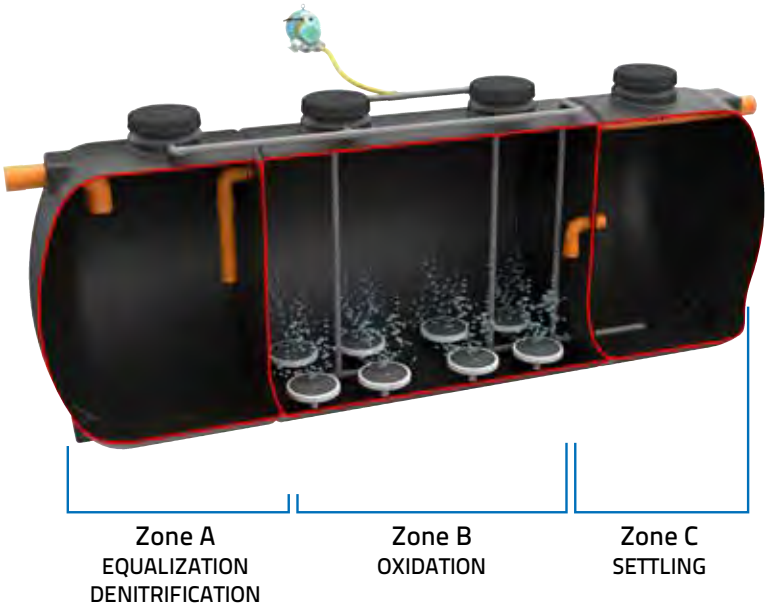
In this compartment the wastewater is oxidized. The sewage undergoes intense artificial aeration, and in this oxygen-rich environment physical, chemical and above all biological processes are triggered that break down the pollutant load. The high microbial concentrations in the oxidation compartment, responsible for purifying the wastewater, are made possible by the continuous recirculation of the activated sludge collected in the following settling compartment.

Zone C - SETTLING

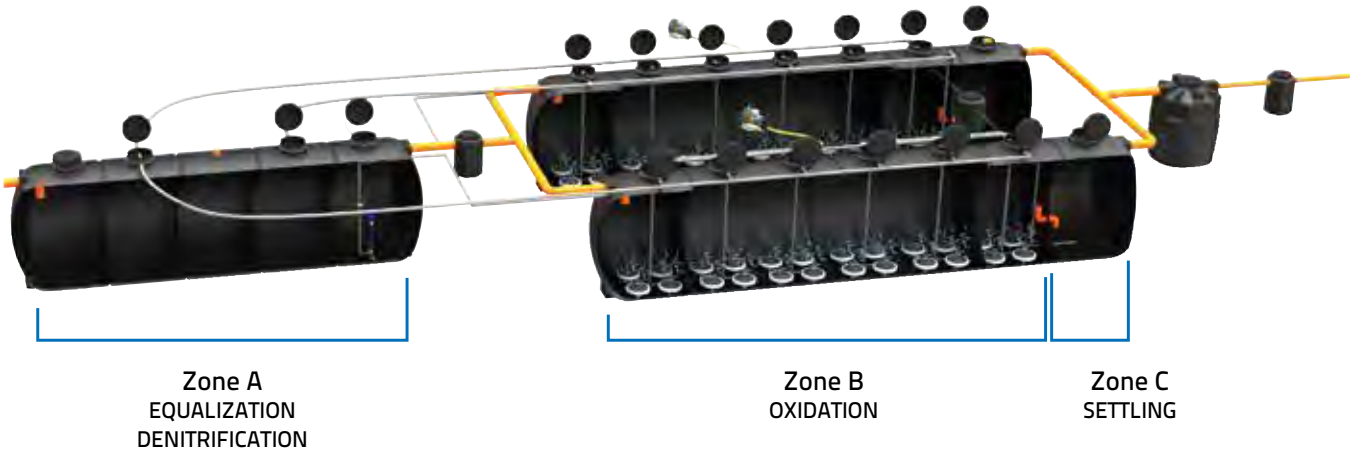
In the settling compartment, thanks to calm conditions, the sludge separates and settles and is then recirculated by means of an air-lift to the equalization and oxidation compartment. The clarified and purified wastewater is sent to any further treatment stage provided by the designer. Only excess sludge beyond the needs of the treatment process (surplus sludge) must be removed periodically from the system.

Depending on the number of population equivalents, these systems can be:
"MONOBLOCK" or "MODULAR"

MONOBLOCK SYSTEMS
Mod. EQFA

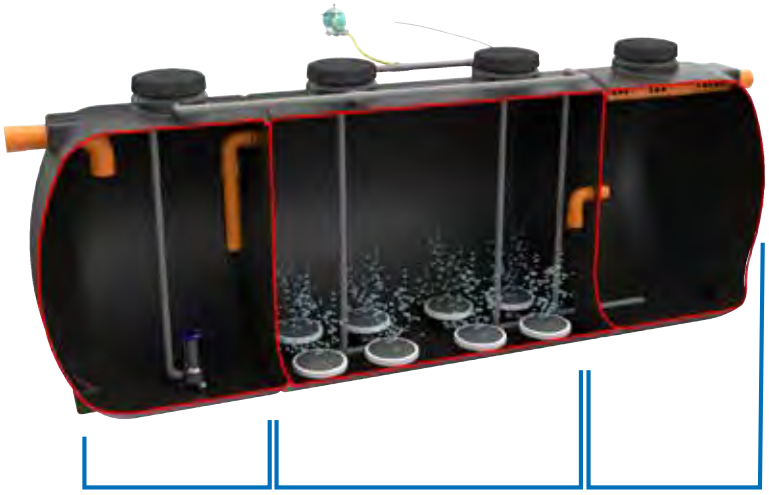


MODULAR SYSTEMS
Mod. EQ + FA

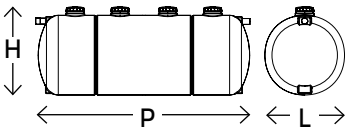


EXTENDED OXIDATION ACTIVATED SLUDGE

EQFA systems are suspended biomass MONOBLOCK SYSTEMS suitable for treating wastewater from various types of facilities. EQFA monoblock systems come complete with a CE-compliant control panel and all the electromechanical equipment needed for the system to work properly.



Download the data sheet



MONOBLOCK CONSTANT-FLOW ACTIVATED SLUDGE SYSTEMS - SURFACE WATER DISCHARGE



Tank Features								Design Features					
P.E.	ITEM	Volume (liters)	L (cm)	P (cm)	H (cm)	No. of lids Ø 550	Ø IN/OUT ø IN/OUT	ZONE A - TOT. VOL. DENITRIFICATION (liters)	ZONE B - TOT. VOL. OXIDATION (liters)	ZONE C - TOT. VOL. SECONDARY SETTLING (liters)	TOT. POWER installed (kW)	VOLTAGE (V)	€
60	EQFA 18500	18500	238	476	255	3	160	5000	10000	3500	2,45	220	**24.750,45**
90	EQFA 28500	28500	238	712	255	4	160	10000	15000	3500	2,55	380	**38.020,50**
120	EQFA 33500 B	33500	238	825	255	4	160	10000	20000	3500	2,55	380	**44.632,73**
150	EQFA 43500 B	43500	238	1067	255	6	160	13500	25000	5000	4,05	380	**58.026,54**
180	EQFA 50000 B	50000	238	1218	255	6	160	15000	30000	5000	4,05	380	**65.737,16**

MONOBLOCK CONSTANT-FLOW ACTIVATED SLUDGE SYSTEMS - SOIL DISCHARGE



Tank Features								Design Features					
P.E.	ITEM	Volume (liters)	L (cm)	P (cm)	H (cm)	No. of lids Ø 550	Ø IN/OUT ø IN/OUT	ZONE A - TOT. VOL. DENITRIFICATION (liters)	ZONE B - TOT. VOL. OXIDATION (liters)	ZONE C - TOT. VOL. SECONDARY SETTLING (liters)	TOT. POWER installed (kW)	VOLTAGE (V)	€
51	EQFA 18500	18500	238	476	255	3	160	5000	10000	3500	2,45	220	**24.750,45**
70	EQFA 23500 B	23500	238	595	255	4	160	5000	15000	3500	2,55	380	**33.665,81**
95	EQFA 33500 B	33500	238	825	255	4	160	10000	20000	3500	2,55	380	**44.632,73**
120	EQFA 40000	40000	238	982	255	5	160	10000	25000	5000	4,05	380	**51.694,54**
145	EQFA 50000 B	50000	238	1218	255	6	160	15000	30000	5000	4,05	380	**65.737,16**

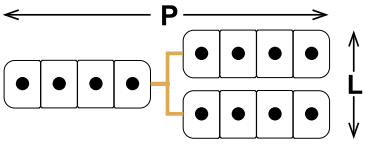
NOTE: for SEPARATE DISCHARGES contact our Technical Department.

Approximate overall dimensions do not include accessories

EXTENDED OXIDATION ACTIVATED SLUDGE

EQ+FA systems are suspended biomass MODULAR SYSTEMS suitable for treating wastewater from various types of facilities. EQ+FA modular systems come complete with a CE-compliant control panel and all the electromechanical equipment needed for the system to work properly.





MODULAR CONSTANT-FLOW ACTIVATED SLUDGE SYSTEMS - SURFACE WATER DISCHARGE



Tank Features				Design Features					
P.E.	Equalization Denitrification	Activated Sludge System	Approximate overall dimensions of the system* (m) P x L H = 2,5 m	Zone A - TOT. Volume EQUALIZATION DENITRIFICATION (liters)	Zone B TOT. Volume OXIDATION (liters)	Zone C - TOT. Volume SECONDARY SETTLING (liters)	TOT. POWER installed (kW)	VOLTAGE (V)	€
200	EQ 18500	FA 40000	18 x 2,5	18500	35000	5000	3	380	**71.862,86**
250	EQ 23500	FA 48500	22 x 2,5	23500	40000	8500	3	380	**87.234,22**
300	EQ 25000	N. 2 FA 30000	18 x 7	25000	50000	10000	4	380	**103.563,69**
350	EQ 28500	N. 2 FA 35000	20 x 7	28500	60000	10000	4	380	**119.540,05**
400	EQ 33500	N. 2 FA 40000	23 x 7	33500	70000	10000	4	380	**135.790,73**
500	EQ 40000	N. 2 FA 48500	27 x 7	40000	80000	17000	6	380	**159.203,77**
600	EQ 48500	N. 4 FA 30000	25 x 15	48500	100000	20000	8	380	**203.667,22**
700	N. 2 EQ 28500	N. 4 FA 35000	21 x 15	57000	120000	20000	8	380	**238.297,45**
800	N. 2 EQ 30000	N. 4 FA 40000	23 x 15	60000	140000	20000	8	380	**263.366,43**
1000	N. 2 EQ 40000	N. 4 FA 48500	28 x 15	80000	160000	34000	10	380	**317.904,01**

MODULAR CONSTANT-FLOW ACTIVATED SLUDGE SYSTEMS - SOIL DISCHARGE



Tank Features				Design Features					
P.E.	Equalization Denitrification	Activated Sludge System	Approximate overall dimensions of the system* (m) P x L H = 2,5 m	Zone A - TOT. Volume EQUALIZATION DENITRIFICATION (liters)	Zone B TOT. Volume OXIDATION (liters)	Zone C - TOT. Volume SECONDARY SETTLING (liters)	TOT. POWER installed (kW)	VOLTAGE (V)	€
170	EQ 15000	FA 40000	21 x 2,5	15000	35000	5000	3	380	**68.502,78**
200	EQ 18500	FA 48500	26 x 2,5	18500	40000	8500	3	380	**81.643,23**
250	EQ 23500	N. 2 FA 30000	23 x 7	23500	50000	10000	4	380	**102.909,04**
300	EQ 25000	N. 2 FA 35000	26 x 7	25000	60000	10000	4	380	**115.941,04**
350	EQ 28500	N. 2 FA 40000	27 x 7	28500	70000	10000	4	380	**131.462,52**
400	EQ 33500	N. 2 FA 48500	27 x 7	33500	80000	17000	5	380	**155.041,73**
500	EQ 40000	N. 4 FA 30000	24 x 15	40000	100000	20000	7	380	**196.285,80**
600	EQ 48500	N. 4 FA 35000	27 x 15	48500	120000	20000	7	380	**228.439,69**
700	N. 2 EQ 28500	N. 4 FA 40000	23 x 15	57000	140000	20000	8	380	**262.160,32**
800	N. 2 EQ 30000	N. 4 FA 48500	25 x 15	60000	160000	34000	10	380	**301.452,36**

NOTE: for SEPARATE DISCHARGES contact our Technical Department.

Approximate overall dimensions do not include accessories

MBBR SYSTEMS are treatment systems based on the activated sludge process, in which the bacterial biomass, instead of forming freely dispersed flocs, grows as a biofilm on special carrier media with a high specific surface area.

OPERATING DESCRIPTION

Zone A - EQUALIZATION - DENITRIFICATION

This section equalizes the hydraulic load and makes the pollutant load of the incoming wastewater as uniform as possible. Sudden load peaks (shock loads) would seriously affect treatment efficiency, since microorganisms adapt poorly to abrupt environmental changes. In addition, in the same suitably sized compartment, the recirculation of the aerated mixture and activated sludge from the oxidation and settling compartments respectively triggers, in an anoxic environment, the denitrification of the wastewater to reduce nitrogen in its various oxidized forms.

Zone B - BIOLOGICAL TREATMENT

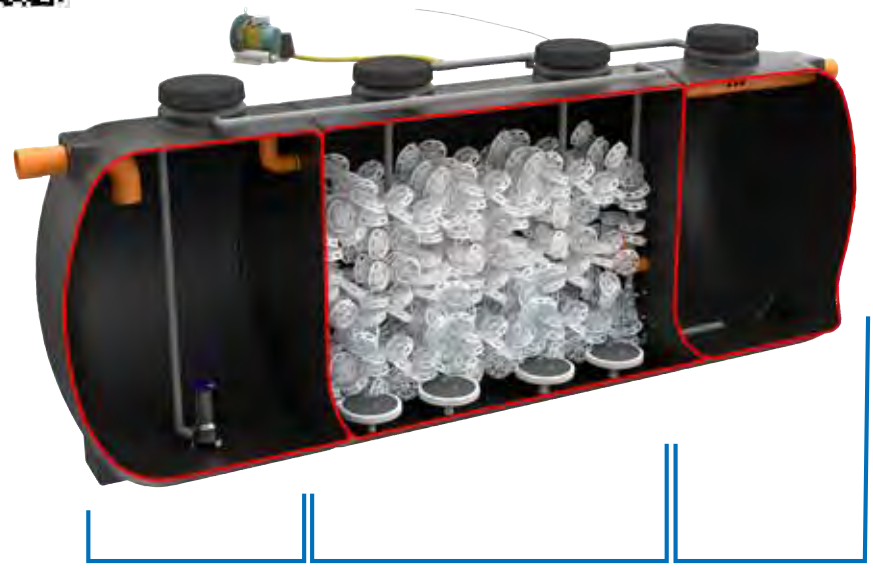
thanks to special carrier media with a high specific surface area, it combines the well-known treatment action of activated sludge systems with that of the attached biomass process;

Zone C - SETTLING

In the settling compartment, thanks to calm conditions, the sludge separates and settles and is then recirculated by means of an air-lift to the equalization and oxidation compartment. The clarified and purified wastewater is sent to any further treatment stage provided by the designer. Only excess sludge beyond the needs of the treatment process (surplus sludge) must be removed periodically from the system.

MBBR systems are used as complete treatment for domestic or similar wastewater. The effluent from an MBBR system can be discharged into a surface watercourse (surface water discharge) or onto soil (soil discharge) as required.

Download the data sheet





MBBR SYSTEMS - Surface water discharge

Tank Features										Design Features					
P.E.	ITEM	Volume TOT. (liters)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	No. of lids ø550	hi (cm)	hu (cm)	Zone A - T. V. EQUALIZ. DENITRIF. (liters)	Zone B TOT. VOL. OXIDATION (liters)	Zone C - T. V. SECONDARY SETTLING (liters)	POWER TOT. (kW)	VOLTAGE (V)	€
75	MBBR 18500	18500	238	476	255	160	3	213	209	5000	9580	3500	0,9	220	**26.758,05**
110	MBBR 28500	28500	238	712	255	160	4	213	209	10000	14370	3500	2,18	380	**41.031,90**
150	MBBR 33500 B	33500	238	825	255	160	4	213	209	10000	19160	3500	2,18	380	**48.647,92**
190	MBBR 43500 B	43500	238	1203	255	160	9	213	209	13500	23950	5000	2,18	380	**63.045,54**
225	MBBR 50000 B	50000	238	1376	255	160	10	213	209	15000	28740	5000	2,88	380	**71.759,96**

Carrier fill rate 60%

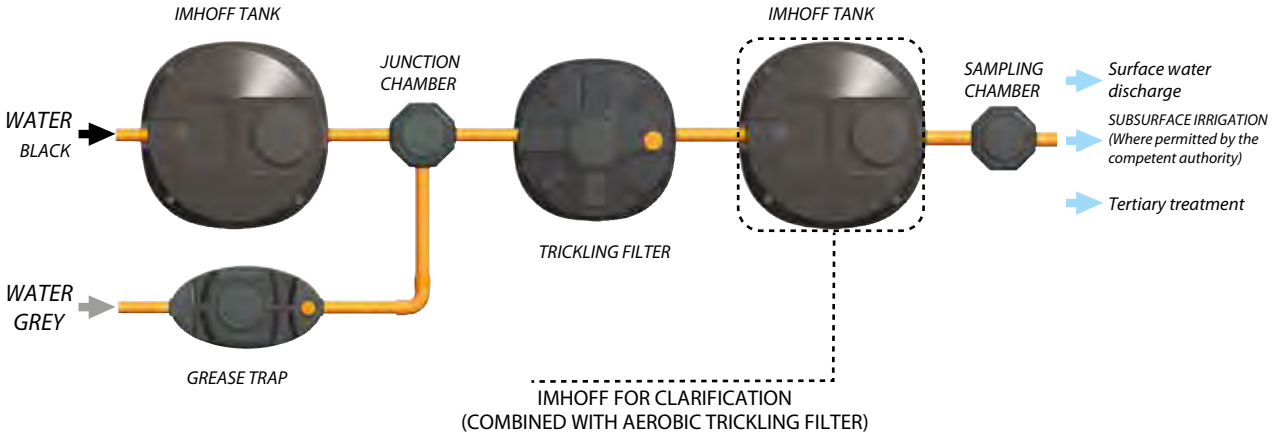


MBBR SYSTEMS - Soil discharge

Tank Features										Design Features					
P.E.	ITEM	Volume TOT. (liters)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	No. of lids ø550	hi (cm)	hu (cm)	Zone A - T. V. EQUALIZ. DENITRIF. (liters)	Zone B TOT. VOL. OXIDATION (liters)	Zone C - T. V. SECONDARY SETTLING (liters)	POWER TOT. (kW)	VOLTAGE (V)	€
65	MBBR 18500	18500	238	476	255	160	3	213	209	5000	9580	3500	0,9	220	**26.758,05**
85	MBBR 23500 B	23500	238	595	255	160	4	213	209	5000	14370	3500	2,18	380	**36.749,81**
120	MBBR 33500 B	33500	238	825	255	160	4	213	209	10000	19160	3500	2,18	380	**48.647,92**
150	MBBR 40000	40000	238	982	255	160	5	213	209	10000	23950	5000	2,18	380	**56.713,54**
180	MBBR 50000 B	50000	238	1218	255	160	6	213	209	15000	28740	5000	2,88	380	**71.759,96**

Carrier fill rate 60%

TRICKLING FILTER



TRICKLING FILTERS

Trickling filters are biological secondary treatment systems with attached biomass. Special carrier media with a high specific surface area are placed inside them, on which the bacterial colonies that purify the wastewater grow.

ANAEROBIC TRICKLING FILTERS

ECO FAN trickling filters are anaerobic, since the type of bacteria that grows in them lives without oxygen. Correct installation of a trickling filter system always includes a primary treatment unit upstream.



TRICKLING FILTER
ANAEROBIC

FORCED-AERATION AEROBIC TRICKLING FILTER (HIGH OUTLET)

In the ECOFAE PLUS series, the well-known treatment action of attached biomass systems is combined with the oxidizing action of air introduced into the wastewater by a blower and diffusers. The greater treatment capacity of the PLUS system (for the same volume as a standard aerobic trickling filter) is useful where limited space does not allow larger systems to be installed.

AEROBIC TRICKLING FILTERS (LOW OUTLET)

Aerobic trickling filters (Mod. ECO FAE) with a low outlet are available on request. These systems require a second clarification tank (smaller than the first) downstream as well, to remove sloughed biofilm.

SPECIFICATION ITEM

Trickling filter system in recyclable PE (linear polyethylene), consisting of a monoblock compartment containing polypropylene carrier media, each with a specific surface area of about 0,14 m^2. The product has a central lid for inspection and routine maintenance. The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal. Internal piping ensures uniform distribution and correct flow of the wastewater.

ANAEROBIC TRICKLING FILTER

O FAN trickling filters are anaerobic, since
e type of bacteria that grows in them
es without oxygen.

According to standard EN 12566-3:2009 - Certificate No. RI 08.03.110



Recommended for surface water discharge

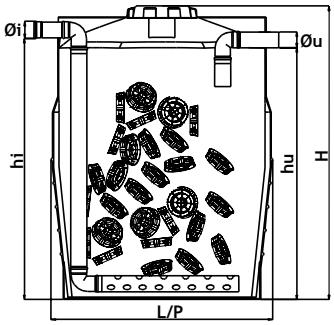
ECOFAN PERFORMANCE

- Suspended solids removal: ~ 72%
- BOD5 removal: ~ 69%
- COD removal: ~ 67%

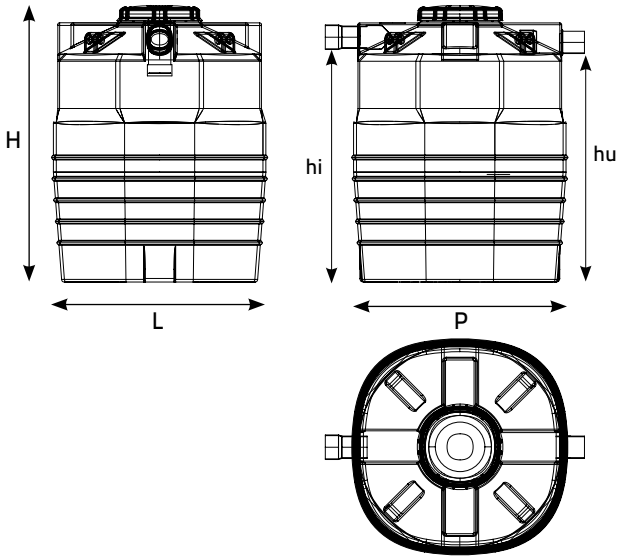


PARTS:

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET







Download the data sheet

ANAEROBIC TRICKLING FILTERS

Models		Dimensions (cm)						Volume (liters)		Dimensions (mm)		S sett (m^2)	ø biogas	€
P.E. surf.	Item	H	L	P	hi	hu	hr	Total	V filter	øi øu	ø lid			
6	ECO FAN 1500	150	117	117	125	121	140	1360	1345	100	420		1″	
11	ECO FAN 2000	182	136	136	158	154	173	2265	2256	100	420		1″	
15	ECO FAN 3000	219	146	146	192	188	209	3107	3099	125	420		1″	
20	ECO FAN 4000	224	165	165	192	188	214	4200	4117	125	420		1″	
24	ECO FAN 5000	229	184	184	197	193	220	5110	5100	125	420		1″	
29	ECO FAN 6000	257	185	185	224	220	248	5993	5987	125	420		1″	

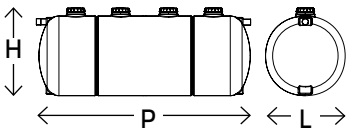
hr = Height of filter material

ANAEROBIC TRICKLING FILTER

The ECO FAN anaerobic trickling filter is a biological secondary treatment system with attached biomass. Special carrier media with a high specific surface area are placed inside these tanks, on which the ANAEROBIC bacterial colonies that purify the wastewater grow. Suitable primary roughing treatment for blackwater and greywater must be provided upstream of the system.



PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET



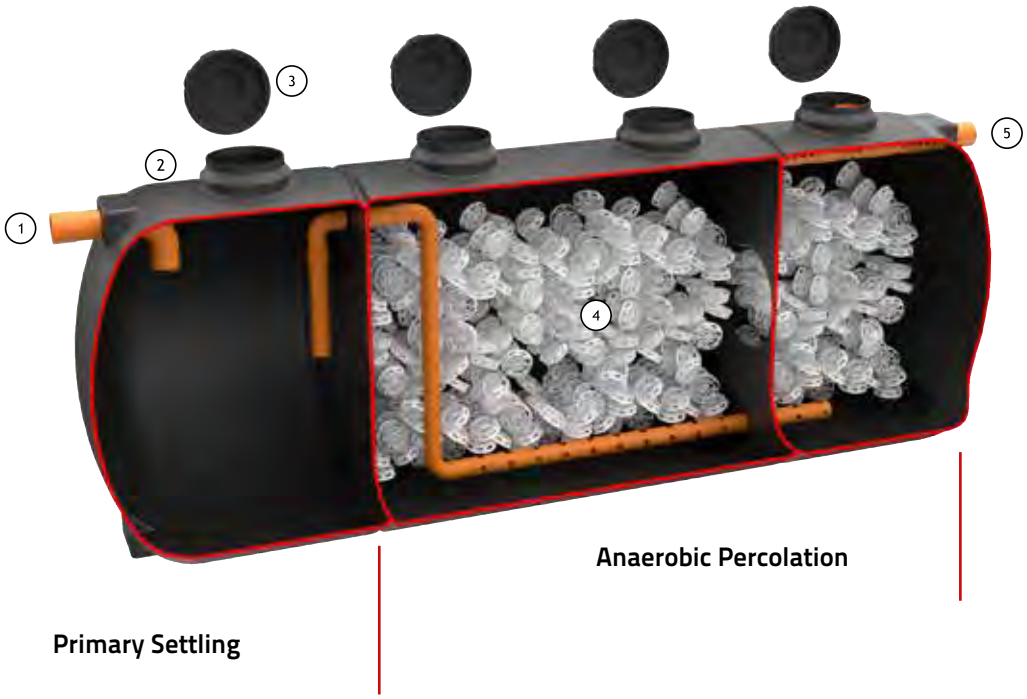
Download the data sheet

LARGE-SYSTEM ANAEROBIC TRICKLING FILTERS

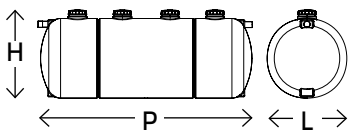
Models			Dimensions (cm)						Volume (liters)		Dimensions (mm)		Sett. area (m^2)	NUM-BER OF LI-DS	€
P.E. CALCULATED at 195 l/P.E.	P.E. CALCULATED at 150 l/P.E.	Item	H	L	P	hi	hu	hr	Total	at overflow	pipe øi øu	ø lid			
51	63	ECO FAN 10000	255	238	275	213	209	210	10000	9444	160	550	5,76	2	**9.758,18**
72	94	ECO FAN 15000	255	238	390	213	209	210	15000	14135	160	550	8,17	2	**15.006,21**
97	126	ECO FAN 20000	255	238	508	213	209	210	20000	18826	160	550	10,64	2	**20.029,20**
121	157	ECO FAN 25000	255	238	627	213	209	210	25000	23561	160	550	13,13	3	**24.500,43**
145	188	ECO FAN 30000	255	238	743	213	209	210	30000	28252	160	550	15,56	3	**29.377,93**
169	220	ECO FAN 35000	255	238	862	213	209	210	35000	32987	160	550	18,05	4	**35.987,52**
193	251	ECO FAN 40000	255	238	979	213	209	210	40000	37678	160	550	20,5	4	**40.003,97**
218	283	ECO FAN 45000	255	238	1098	213	209	210	45000	42413	160	550	22,99	5	**46.862,30**
242	314	ECO FAN 50000	255	238	1215	213	209	210	50000	47104	160	550	25,44	5	**52.146,65**

ANAEROBIC TRICKLING FILTER
WITH PRIMARY SETTLING - LARGE SYSTEMS

The ECO VSFAN anaerobic trickling filter with primary settling is a system suitable for complete wastewater treatment and has two compartments. In the first compartment, a SEPTIC TANK, the incoming wastewater undergoes primary settling and sludge digestion. In the second compartment, special carrier media with a high specific surface area are placed loose, on which the ANAEROBIC bacterial colonies that purify the wastewater grow. ECO VSFAN monoblock anaerobic trickling filter systems are used as complete treatment for domestic or similar wastewater. Where possible, suitable primary roughing treatment of greywater from bathrooms and kitchens is recommended. The effluent from an ECO VSFAN system can be discharged into a surface watercourse (seas, rivers, lakes...).



PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET



LARGE-SYSTEM ANAEROBIC TRICKLING FILTERS WITH PRIMARY SETTLING

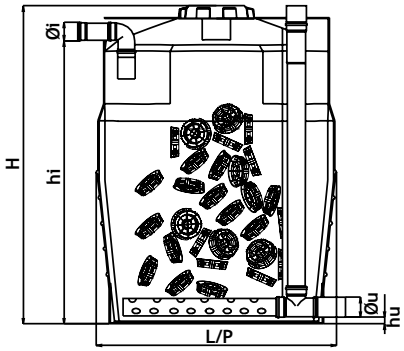
Models		Dimensions (cm)						Volume (liters)				Dimensions (mm)		Sett. area (m^2)	NUMBER OF LIDS	€
P.E. CALCULATED at 195 l/P.E.	Item	H	L	P	hi	hu	hr	Total	Filter Volume at overflow	Volume Settling	Percolation Volume	pipe øi øu	ø lid			
52	ECO VS FAN 15000	255	238	390	213	209	210	15000	10080	5000	10000	160	550	5,76	2	**10.686,60**
76	ECO VS FAN 23500	255	238	595	213	209	210	23500	14826	8500	15000	160	550	8,17	4	**17.456,34**
100	ECO VS FAN 30000	255	238	740	213	209	210	30000	19572	10000	20000	160	550	10,64	3	**23.322,49**
125	ECO VS FAN 38500	255	238	947	213	209	210	38500	24318	13500	25000	160	550	13,13	5	**28.636,88**
149	ECO VS FAN 45000	255	238	1097	213	209	210	45000	29064	15000	30000	160	550	15,56	5	**34.357,54**

AEROBIC TRICKLING FILTERS (LOW OUTLET)

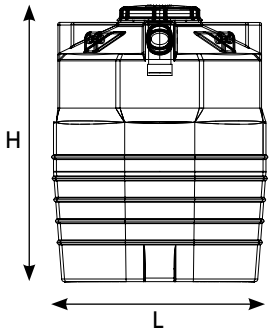
Aerobic trickling filters (Mod. ECO FAE) with a low outlet are available on request. These systems require a second clarification tank (smaller than the first) downstream as well, to remove sloughed biofilm.

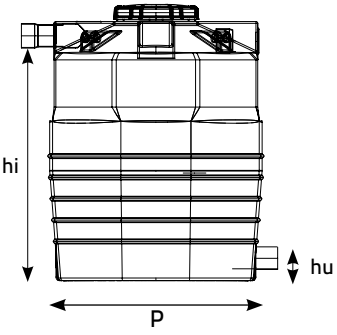
PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET
6 - OUTLET INSPECTION

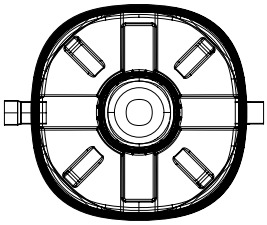












ECO FAE AEROBIC TRICKLING FILTERS

Models		Dimensions (cm)						Volumes (liters)		Dimensions (mm)		S sett (m^2)	ø biogas	€
P.E.	Item	H	L	P	hi	hu	hr	Total	V filter	øi øu	ø			
lid 6	ECO FAE 1500	150	117	117	125	7	140	1360	1345	100	420	0,96	1"	**1.576,29**
11	ECO FAE 2000	182	136	136	158	7	173	2265	2256	100	420	1,30	1"	**2.536,56**
15	ECO FAE 3000	219	146	146	192	7	209	3107	3099	125	420	1,48	1"	**3.369,98**
20	ECO FAE 4000	224	165	165	192	7	214	4200	4117	125	420	1,92	1"	**4.130,95**
24	ECO FAE 5000	229	184	184	197	7	220	5110	5100	125	420	2,32	1"	**4.891,93**
29	ECO FAE 6000	257	185	185	224	7	248	5993	5987	125	420	2,41	1"	**5.797,82**

hr = Height of filter material

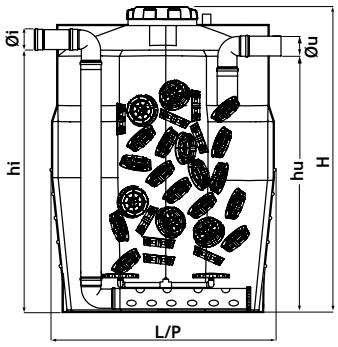
NOTES

AEROBIC TRICKLING FILTER (HIGH OUTLET)

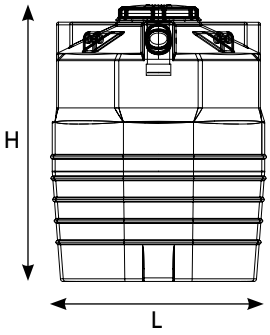
In the ECOFAE PLUS series, the well-known treatment action of attached biomass systems is combined with the oxidizing action of air introduced into the wastewater by a blower and diffusers. The greater treatment capacity of the PLUS system (for the same volume as a standard aerobic trickling filter) is useful where limited space does not allow larger systems to be installed.

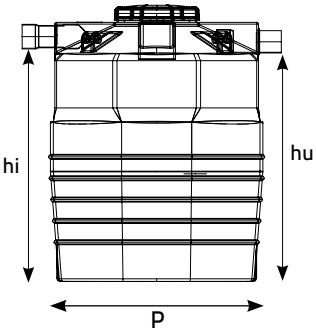
PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET
6 - DIAPHRAGM COMPRESSOR
7 - DIFFUSER

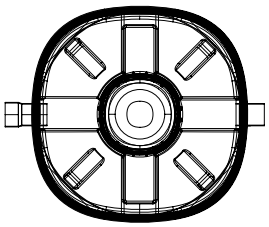












PLUS AEROBIC TRICKLING FILTERS

Models			Dimensions (cm)						Volumes (liters)			Dimensions (mm)		S sett (m^2)	N° diffus.	Power (W)	ø biogas	€
P.E. surf.	P.E. soil	Item	H	L	P	hi	hu	hr	Overflow	Total	V filter	øi øu	ø lid					
10	6	ECO FAE PLUS 1500	150	117	117	125	121	140	1300	1360	1345	100	420	0,96	2	48	1"	**2.482,19**
17	10	ECO FAE PLUS 2000	182	136	136	158	154	173	2175	2265	2256	100	420	1,30	2	50	1"	**3.225,05**
24	13	ECO FAE PLUS 3000	219	146	146	192	188	209	2990	3107	3099	125	420	1,48	4	75	1"	**4.964,40**
32	18	ECO FAE PLUS 4000	224	165	165	192	188	214	3980	4200	4117	125	420	1,92	4	75	1"	**5.363,00**
39	22	ECO FAE PLUS 5000	229	184	184	197	193	220	4930	5110	5100	125	420	2,32	4	95	1"	**6.776,22**
46	26	ECO FAE PLUS 6000	257	185	185	224	220	248	5810	5993	5987	125	420	2,41	6	143	1"	**8.334,40**

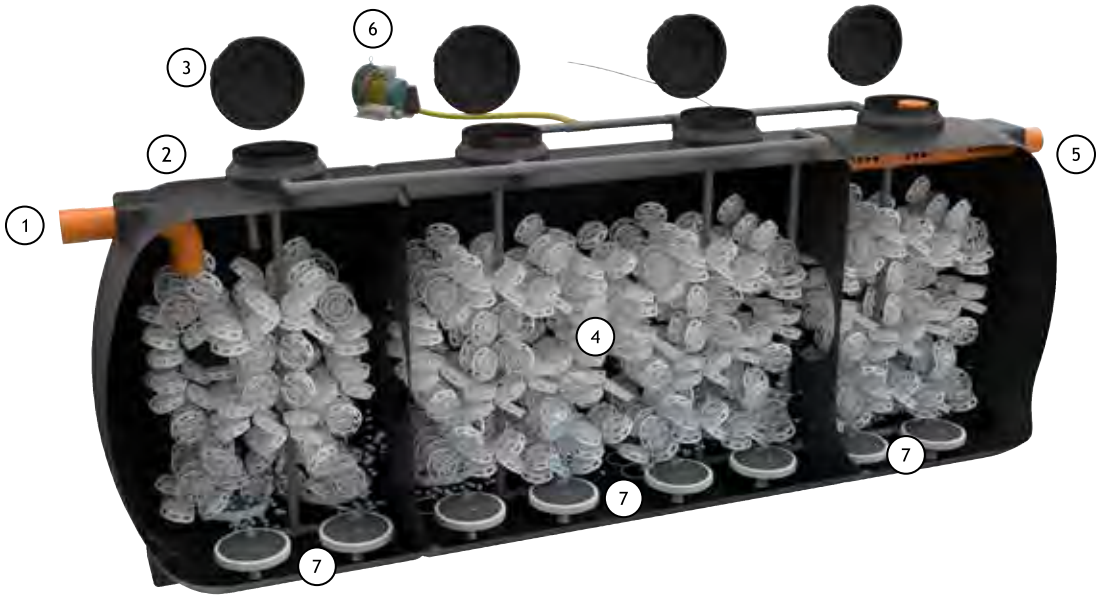
ROUTINE MAINTENANCE

Generally clean the carrier media and the sewage distribution components one to four times a year, or whenever necessary. Add the recommended doses of bacterial-enzymatic mixture every time start-up operations are carried out.

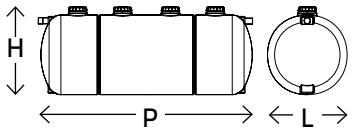
PLUS AEROBIC TRICKLING FILTER WITH FORCED AERATION LARGE SYSTEMS

PLUS TRICKLING FILTER (HIGH OUTLET)

The ECO FAE PLUS trickling filter is a biological secondary treatment system with attached biomass that combines its well-known treatment action with the oxidizing action of air continuously introduced into the tank by the external compressor and distributed inside by the diffusers. The greater treatment capacity of the ECO FAE PLUS system is widely used where limited space does not allow larger systems to be installed. Suitable primary roughing treatment for blackwater and greywater must be provided upstream of the system.



PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET
6 - ELECTRIC BLOWER
7 - DIFFUSER



Download the data sheet

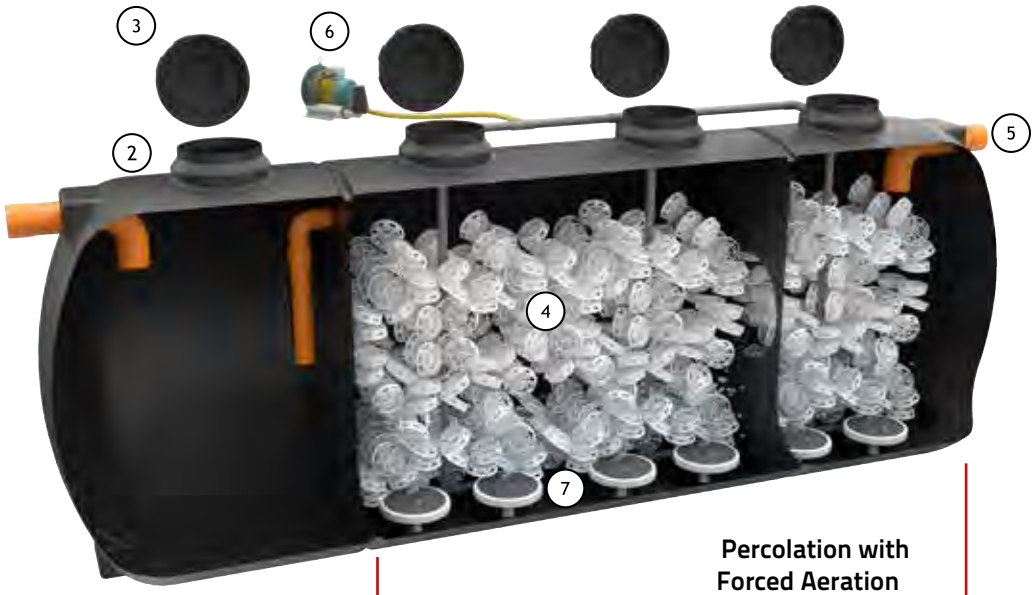
FORCED-AERATION TRICKLING FILTER

Models			Dimensions (cm)						Volume (liters)		Dimensions (mm)		NUMBER OF LIDS	POWER (W)	VOLTAGE (Volt)	€
P.E. surf.	P.E. soil	Item	H	L	P	hi	hu	hr	Total	at overflow	pipe øi øu	ø lid				
73	43	ECO FAE 10000 PLUS	255	238	275	213	209	210	10000	9444	160	550	2	0,19	220	**12.801,44**
109	64	ECO FAE 15000 PLUS	255	238	390	213	209	210	15000	14135	160	550	2	1,1	380	**19.432,31**
145	86	ECO FAE 20000 PLUS	255	238	508	213	209	210	20000	18826	160	550	2	1,1	380	**25.107,47**
181	107	ECO FAE 25000 PLUS	255	238	627	213	209	210	25000	23561	160	550	3	2,2	380	**31.012,59**
217	128	ECO FAE 30000 PLUS	255	238	743	213	209	210	30000	28252	160	550	3	2,2	380	**36.542,26**
290	171	ECO FAE 40000 PLUS	255	238	979	213	209	210	40000	37678	160	550	4	2,2	380	**50.000,67**
362	214	ECO FAE 50000 PLUS	255	238	1215	213	209	210	50000	47104	160	550	5	4,4	380	**64.724,27**

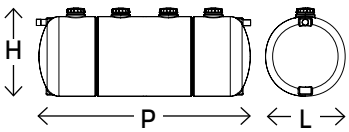
FORCED-AERATION AEROBIC TRICKLING FILTER WITH PRIMARY SETTLING - LARGE SYSTEMS

The ECO VSFAE PLUS forced-aeration aerobic trickling filter with primary settling is a system suitable for complete wastewater treatment and has two compartments. In the first compartment, a SEPTIC TANK, the incoming wastewater undergoes primary settling and sludge digestion. The second compartment is an attached biomass secondary treatment system that combines its well-known treatment action with the oxidizing action of air continuously introduced into the tank by an external compressor and distributed inside by the diffusers. ECO VSFAE PLUS monoblock aerobic trickling filter systems are used as complete treatment for domestic or similar wastewater. Where possible, suitable primary roughing treatment of greywater from bathrooms and kitchens is recommended. The effluent from an ECO VSFAE PLUS system can be discharged into a surface watercourse (surface water discharge) or onto soil (soil discharge) as required.

PARTS:
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION LID
4 - CARRIER MEDIA
5 - WASTEWATER OUTLET
6 - ELECTRIC BLOWER
7 - DIFFUSER



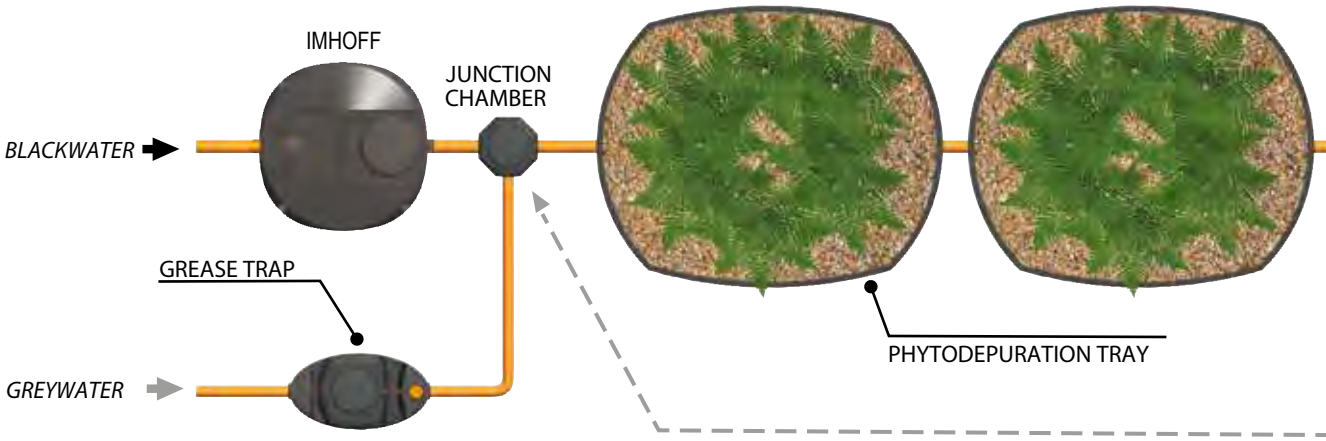
Download the data sheet



FORCED-AERATION AEROBIC TRICKLING FILTER WITH PRIMARY SETTLING

Models			Dimensions (cm)			Volume (liters)			Dimensions (mm)					
P.E. surf.	P.E. soil	Item	H	L	P	Total	Settl-ing	Percolation/ oxidation	pipe øi øu	ø lid	NUMBER OF LIDS	POWER (W)	VOLTAGE (Volt)	€
51	40	ECO VS FAE 15000 PLUS	255	238	390	15000	5000	10000	160	550	3	0,19	220	**16.574,15**
70	60	ECO VS FAE 22000 PLUS	255	238	560	22000	8500	13500	160	550	5	1,5	380	**24.609,94**
80	70	ECO VS FAE 25000 PLUS	255	238	627	25000	10000	15000	160	550	5	1,5	380	**27.224,61**
90	80	ECO VS FAE 28500 PLUS	255	238	712	28500	10000	18500	160	550	6	1,5	380	**30.560,26**
110	100	ECO VS FAE 35000 PLUS	255	238	864	35000	15000	20000	160	550	7	1,5	380	**36.102,86**

PHYTODEPURATION

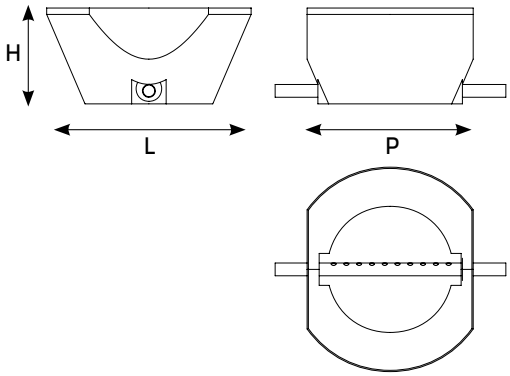


PHYTODEPURATION

Phytodepuration is a natural treatment system that refines pre-treated wastewater by triggering both aerobic and anaerobic processes typical of aquatic environments and wetlands. The purifying effect is achieved through the continuous digestion and assimilation of the substances contained in the wastewater by the root systems of shrubs, grasses and flowers, constantly bathed in the special trays by the clarified water. TELCOM phytodepuration systems are horizontal subsurface flow systems consisting of trays containing inert material (usually gravel and crushed stone) in which the roots of emergent plants grow. The wastewater level inside the trays is kept constant by a level chamber downstream of the trays, and the flow runs horizontally. Primary treatment of the wastewater must always be provided upstream of the phytodepuration trays. For separate discharges, a grease trap for greywater and an Imhoff tank for blackwater are generally recommended, while for combined discharges a three-chamber tank is preferable.

Download the data sheet

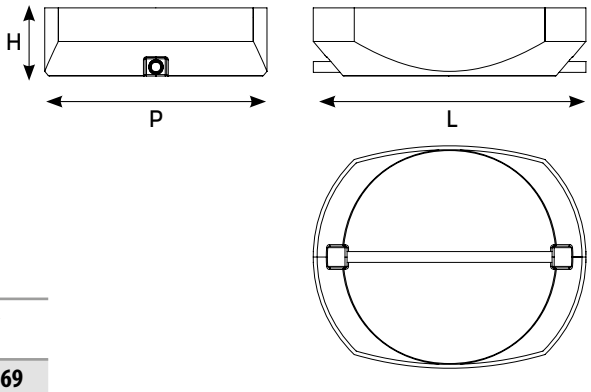




PHYTODEPURATION tray VAS 1

ITEM	AREA (m^2)	VOLUME (m^3)	Dimensions (cm)			ø pipe (mm)	€
			H	L	P		
VAS 1	2	1	76	160	130	100	**362,37**



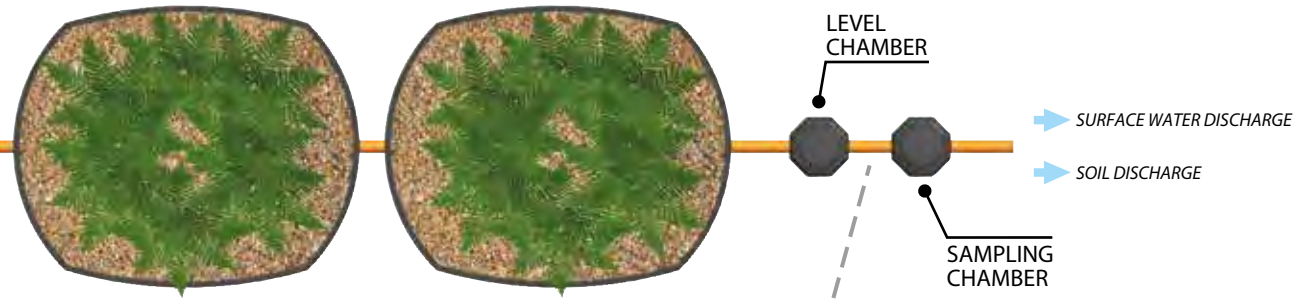


PHYTODEPURATION tray VAS 2

ITEM	AREA (m^2)	VOLUME (m^3)	Dimensions (cm)			ø pipe (mm)	€
			H	L	P		
VAS 2	5	3	70	280	228	100	**904,69**

PRODUCT SELECTION

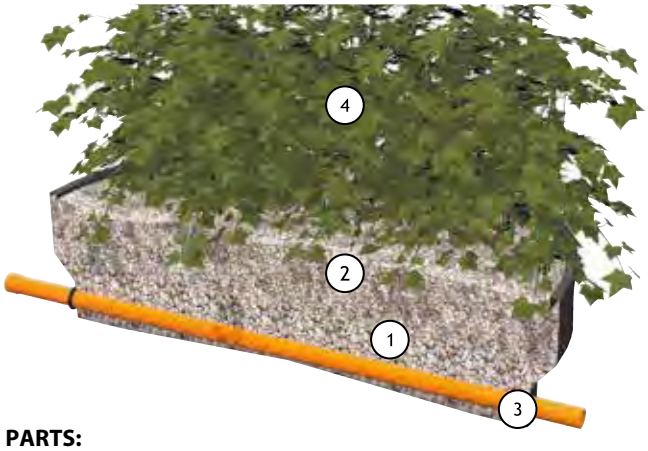
When explicitly indicated by the competent authority as an appropriate treatment, an area of 5 m^2 per P.E. is recommended. When used to refine pre-treated wastewater, an area of 2 m^2 per Population Equivalent is considered adequate.



At the request of the competent authority, wastewater recirculation can be provided

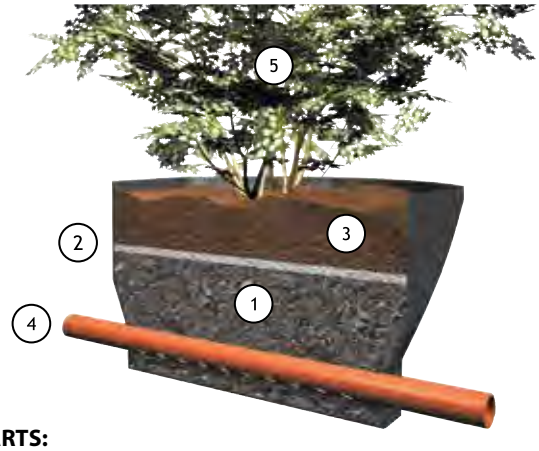
Note: install the trays on smooth surfaces and ensure natural outflow of the wastewater.

Fill option A



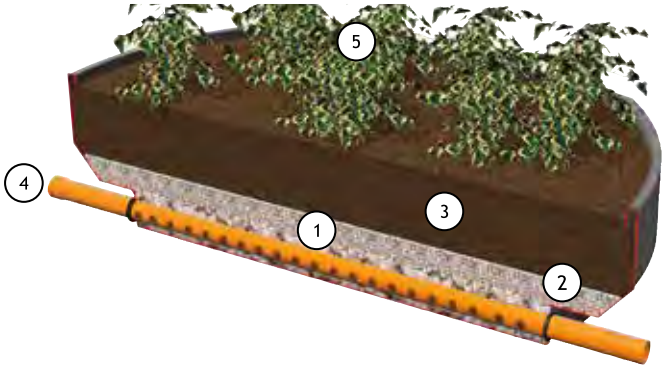
PARTS:
1 - CRUSHED STONE (grain size 80/120 mm)
2 - GRAVEL (grain size 4/16 mm)
3 - DRAINAGE PIPE
4 - PLANT (RECOMMENDED SHRUB OR FLOWER - see p. 150)

Fill option B



PARTS:
1 - GRAVEL and PEBBLES
2 - NON-WOVEN FABRIC LAYER
3 - TOPSOIL
4 - DRAINAGE PIPE
5 - PLANT (RECOMMENDED SHRUB OR FLOWER - see p. 150)

Fill option C



PARTS:
1 - 15/20 cm COARSE GRAVEL grains 4/7 cm
2 - 10 cm GRAVEL grains 1/2 cm
3 - 35/50 cm TOPSOIL separated from the underlying gravel by a non-woven fabric layer
4 - DRAINAGE PIPE
5 - PLANT (RECOMMENDED SHRUB OR FLOWER - see p. 150)

SPECIFICATION ITEM

Watertight trays in recyclable PE (linear polyethylene), 2 m² and 5 m². The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal. Inside the tray, PVC pipes ensure uniform distribution of the wastewater.

ROUTINE MAINTENANCE

Generally clean the primary treatment systems upstream of the phytodepuration trays and the sewage distribution components one to four times a year. Periodically check that the wastewater flows correctly.

PLANTS COMMONLY USED IN PHYTODEPURATION


Phragmites Australis


Aucuba Japonica


Bamboo


Schoenoplectus Lacustris


Cornus Florida


Cornus Stolonifera


Elymus


Fern


Iris Laevigata


Iris


Kalmia Latifolia


Laurus Cerasus


Lithrum


Nepeta


Petasites


Typha Latifolia


Sambucus Nigra


Spirea Salicifolia

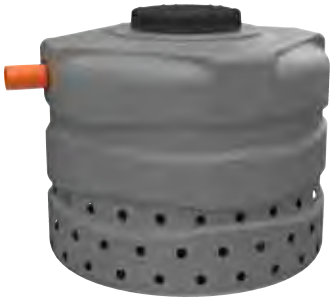

Thuya Canadensis


Cotoneaster Salicifolia

SOAKAWAY TANKS

Our ECO DSP underground polyethylene (PE) soakaway tanks are the technical solution where subsurface drainage irrigation is not planned. They allow the controlled disposal and dispersion into the subsoil of stormwater or previously treated domestic wastewater in areas not served by the public sewer network.

NEW



ECO DSP 1000



ECO DSP 1500/5000

REGULATORY FRAMEWORK

The design and use of soakaway tanks has historically been governed by the technical criteria of the Italian Interministerial Committee Resolution of 4 February 1977, which provides that:

"...The sewage from clarification flows through a sealed pipe into a cylindrical well with an internal diameter of at least one meter, built of stone masonry, bricks or concrete, without a floor slab..."

DISPERSION INTO THE GROUND BY SOAKAWAY WELLS (Art. 6)

For correct installation, please remember that:

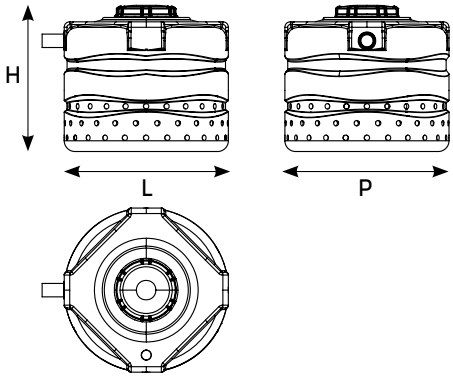
- Prior treatment: dispersion into the subsoil is permitted only for wastewater that has already undergone treatment.
- Safety distances: the unit must be positioned at least 30 meters from wells, pipes or tanks for drinking water, and at least 2 meters from property boundaries and building foundations.

- Groundwater: the bottom of the well or tank must be at a safe distance (generally at least 1-2 meters) from the maximum level of the water table.

Since discharges onto and into the soil are governed by regional regulations, it is always necessary to check the specific provisions of the regional and municipal regulations in force at the installation site, as well as the hydraulic conductivity (permeability) of the receiving soil.

NEW



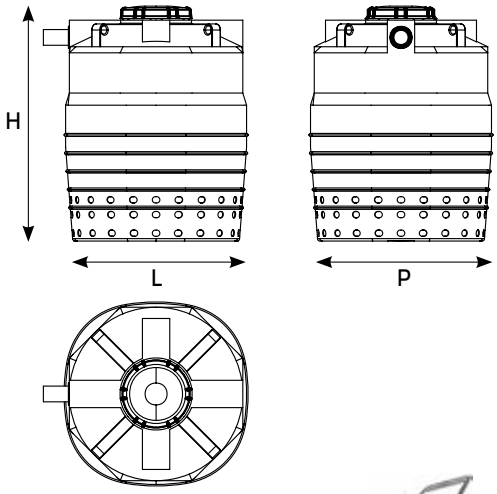


SOAKAWAY TANK ECO DSP 1000 liters

Item	Dimensions (cm)				Volume Total	Dimensions (mm)			ø biogas	€
	H	L	P	hi		øi	ø lid inlet	ø lid		
ECO DSP 1000	108	120	120	74	1000	100	100	420	1"	743,55

NEW





SOAKAWAY TANK ECO DSP 1500 and 5000 liters

Item	Dimensions (cm)				Volume Total	Dimensions (mm)			ø biogas	€
	H	L	P	hi		øi	ø lid inlet	ø lid		
ECO DSP 1500	150	117	117	118	1360	100	100	420	1"	**980,65**
ECO DSP 2000	182	136	136	151	2265	125	125	420	1"	**1.171,68**
ECO DSP 3000	219	146	146	184	3107	125	125	420	1"	**1.815,70**
ECO DSP 4000	224	165	165	189	4200	160	160	420	1"	**2.182,46**
ECO DSP 5000	229	184	184	188	5110	160	160	420	1"	**2.600,26**



Download the data sheet

SPECIFICATION ITEM

Linear polyethylene tanks made by molding (rotational or blow molding), fitted with a PVC inlet pipe with a double-lip seal. Each tank has a suitable biogas vent. The calibrated holes in the walls are specially designed to optimize the contact surface with the soil, ensuring efficient, uniform and long-lasting drainage.

ROUTINE MAINTENANCE

Routine maintenance of soakaway tanks includes inspecting the tank at least every 3 months to check its condition (blockages in the inlet pipe, sludge build-up on the bottom and in the holes) and removing sludge and cleaning the walls at least every 6 months. For proper maintenance, we recommend using specialized companies only.

CONTACT/CHLORINATION TANKS

The ECO CLO chlorination contact chamber is the ideal solution for completing the treatment cycle, ensuring perfect disinfection of the wastewater before final discharge. The process takes place upstream of the system, where the wastewater leaving the settling chamber at an almost constant flow washes over a slow-dissolving tablet. For disinfection to be effective, it is essential to install our contact chamber, which characterizes and completes the whole process through two key aspects:

GUARANTEED CONTACT TIME

The tank is specifically sized to hold the wastewater for the time needed for the chlorinating additive to complete its sanitizing action.

HYDRAULIC REACTION CHAMBER

Acting as a holding tank downstream of the dosing point, our tank provides the volume needed for a safe, compliant effluent before final discharge, without any moving mechanical parts.

While tablet dosing takes place in the previous upstream stage, our downstream tank provides the holding volume needed for the additive to act within the correct time.


ECO CLO 100/300


ECO CLO 500


ECO CLO 1000


ECO CLO 1500/6000


ECO CLO 7500/10000

CHLORINATION-CLARIFICATION CONTACT TANK from 100/10000 liters

ITEM	Dimensions (cm)			Total VOLUME (liters)	Dimensions (mm)			€
	H	L	P		øi/øu	ø lid	ø biogas	
ECO CLO 100	75	48	48	100	160	320	/	**230,00**
ECO CLO 300	82	73	73	300	160	420	/	**442,03**
ECO CLO 500	116	80	80	500	160	420	1"	**844,18**
ECO CLO 1000	108	120	120	1000	160	420	1"	**1.095,11**
ECO CLO 1500	150	117	117	1500	160	420	1"	**1.368,22**
ECO CLO 2000	182	136	136	2000	160	420	1"	**1.578,69**
ECO CLO 2500	219	146	146	2500	160	420	1"	**2.307,35**
ECO CLO 4000	224	165	165	4000	160	420	1"	**2.805,57**
ECO CLO 6000	257	184	184	6000	160	420	1"	**4.476,06**
ECO CLO 7500	217	189	318	7500	160	550	2"	**6.787,12**
ECO CLO 10000	225	225	310	10000	160	550	2"	**8.385,81**


Download the data sheet

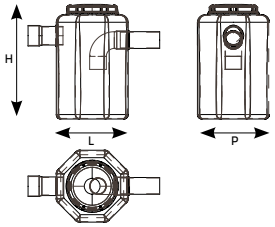
SPECIFICATION ITEM

Chlorination contact tank in recyclable PE (linear polyethylene), consisting of a monoblock compartment and a screw lid for inspection and cleaning. The inlet and outlet pipes are fitted with suitable external double-lip rubber seals to ensure a perfect seal.

ROUTINE MAINTENANCE

Routine maintenance of contact and chlorination tanks must be carried out by specialized personnel only. It includes inspections every 3 months to check for blockages, sludge build-up and chlorine dosing.

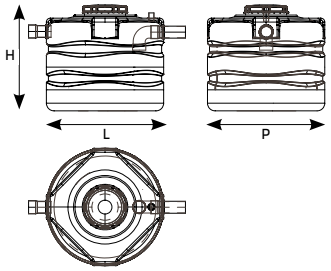




CHLORINATION-CLARIFICATION CONTACT TANK from 100/300 liters

ITEM	Dimensions (cm)			Total VOLUME (liters)	Dimensions (mm)			€
	H	L	P		øi/øu	ø lid	ø biogas	
ECO CLO 100	75	48	48	100	160	320	/	**230,00**
ECO CLO 300	82	73	73	300	160	420	/	**442,03**

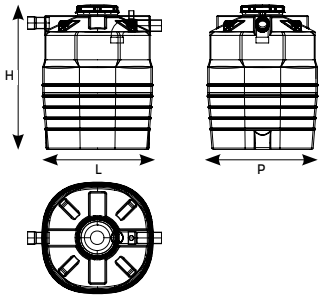




CHLORINATION-CLARIFICATION CONTACT TANK from 500/1000 liters

ITEM	Dimensions (cm)			Total VOLUME (liters)	Dimensions (mm)			€
	H	L	P		øi/øu	ø lid	ø biogas	
ECO CLO 500	116	80	80	500	160	420	1″	**844,18**
ECO CLO 1000	108	120	120	1000	160	420	1″	**1.095,11**

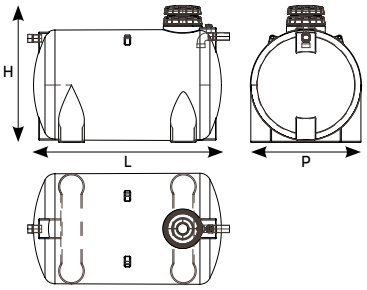




CHLORINATION-CLARIFICATION CONTACT TANK from 1500/6000 liters

ITEM	Dimensions (cm)			Total VOLUME (liters)	Dimensions (mm)			€
	H	L	P		øi/øu	ø lid	ø biogas	
ECO CLO 1500	150	117	117	1500	160	420	1″	**1.368,22**
ECO CLO 2000	182	136	136	2000	160	420	1″	**1.578,69**
ECO CLO 2500	219	146	146	2500	160	420	1″	**2.307,35**
ECO CLO 4000	224	165	165	4000	160	420	1″	**2.805,57**
ECO CLO 6000	257	184	184	6000	160	420	1″	**4.476,06**





CHLORINATION-CLARIFICATION CONTACT TANK from 7500/10000 liters

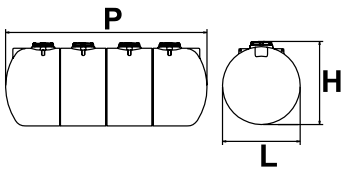
ITEM	Dimensions (cm)			Total VOLUME (liters)	Dimensions (mm)			€
	H	L	P		øi/øu	ø lid	ø biogas	
ECO CLO 7500	217	189	318	7500	160	550	2″	**6.787,12**
ECO CLO 10000	225	225	310	10000	160	550	2″	**8.385,81**

The equalization tank equalizes the hydraulic load and makes the pollutant load of the incoming wastewater as uniform as possible. Sudden load peaks would seriously affect treatment efficiency, since microorganisms adapt poorly to abrupt environmental changes. An equalization compartment is advisable in all applications but becomes essential where flow, and therefore pollutant load, varies particularly widely (e.g. shops, offices, bars, restaurants, etc.).

- RESIDENTIAL HOMES
- AIRPORT
- SHOPPING CENTER
- DEPARTMENT STORES
- HOTEL
- RETAIL (SHOP)
- BARRACKS
- COLLEGE
- HOSPITAL
- CAMPSITE
- HOLIDAY VILLAGE
- SPORTS CLUB

Production time: 16 hours





EQUALIZATION TANKS

ITEM	P.E.	TOTAL VOLUME (liters)	Dimensions (cm)			€
			L	P	ITEM P.E.	
(liters)	170	15000	225	452	243	**14.013,80**
EQ 18500	200	18500	225	543	243	**17.373,80**
EQ 23500	250	23500	225	675	243	**22.527,26**
EQ 25000	300	25000	225	716	243	**23.181,43**
EQ 28500	350	28500	225	807	243	**26.771,55**
EQ 30000	-	30000	225	848	243	**27.374,79**
EQ 33500	400	33500	225	939	243	**31.103,90**
EQ 38500	-	38500	225	1071	243	**35.141,58**
EQ 40000	500	40000	225	1112	243	**35.815,69**
EQ 45000	-	45000	225	1244	243	**39.868,46**
EQ 48500	600	48500	225	1295	243	**43.198,75**
EQ 50000	-	50000	225	1376	243	**43.772,45**



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SPECIFICATION ITEM

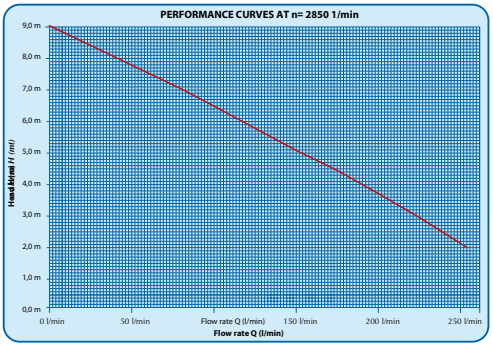
Equalization tank in recyclable PE (linear polyethylene), consisting of a monoblock compartment. The product comes with a 0,55 kW 220V - 50Hz lifting pump, a level float switch, an IP55 control panel and a screw lid for central inspection and any maintenance. The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

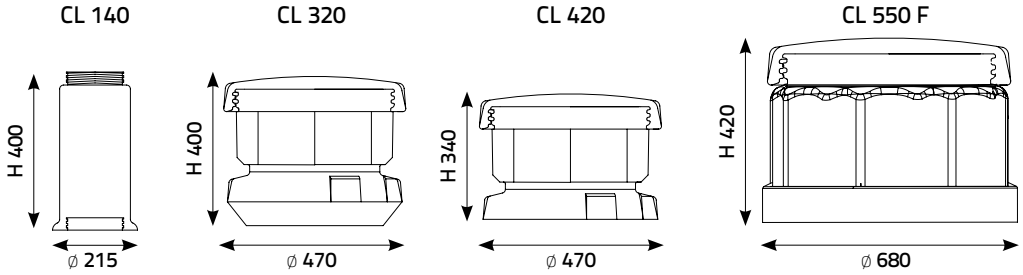
ROUTINE MAINTENANCE

Check that the float switches work properly, generally clean the tank at least once a year and carefully follow the maintenance manuals of the electromechanical equipment supplied with the product.

TYPE	Power		V	Performance Data							
	kW	HP									
				0 l/min	80 l/min	Flow rate Q (l/min)	150 l/min	175 l/min	200 l/min	225 l/min	260 l/min
Sewage pump	0,55	0,75	220	9,1 m	7,1 m	6,6 m	5,1 m	4,4 m	3,7 m	3,0 m	2,0 m

LIFTING ELECTRIC PUMP






CL 140


CL 320


CL 550 F


CL 420

CL TURRETS

ITEM	DESCRIPTION	€
CL 140	Turret for ø 140 openings	**65,34**
CL 320	Turret for ø 320 openings	**119,63**
CL 420	Turret for ø 420 openings	**88,80**
CL 550 F	Turret for ø 550 openings	**286,85**

Code: CL 140 (for ø 140 mm openings) - Without cap
dimensions cm ø 21,5; H 40;
Code: CL 320 (for ø 320 mm openings) - Supplied with ø 420 cap
dimensions cm ø 47; H 40;
Code: CL 420 (for ø 420 mm openings) - Without cap
dimensions cm ø 47; H 34;
Code: CL 550 F (for ø 550 mm openings) - Without cap
dimensions cm ø 68; H 42;



OUTDOOR COMPRESSOR HOUSING
- Code VANO COMP (VCM 550)
dimensions [cm] L=68, W=68, H=60

ITEM	DESCRIPTION	€
VCM 550	Outdoor compressor housing	**484,33**



LINEAR DIAPHRAGM COMPRESSOR
Low noise and low consumption

ITEM	DESCRIPTION	€
COMPR. DS 40 L	Linear compressor EL 60 N - 48 W	**631,39**
COMPR. DS 80 L	Linear compressor JDK-S 80 - 50 W	**794,56**
COMPR. DS 120 L	Linear compressor JDK-S 100 - 75 W	**915,16**
COMPR. DS 160 L	Linear compressor JDK-S 120 - 95 W	**1.340,81**



SEAL

Double-lip seal

ITEM	DESCRIPTION	€
Seal ø 100	Double-lip seal	**7,84**
Seal ø 125	Double-lip seal	**8,39**
Seal ø 160	Double-lip seal	**9,32**
Seal ø 200	Double-lip seal	**45,69**
Seal ø 250	Double-lip seal	**59,17**
Seal ø 315	Double-lip seal	**68,17**
Seal ø 400	Double-lip seal	**136,34**



MIXTURE - SURFACTANT DEGRADER

ITEM	DESCRIPTION	€
NO TENS	Mixture - Surfactant molecule degrader (5 liters)	**369,00**



BACTERIAL-ENZYMATIC MIXTURE

Specially formulated to start or restore bacterial activity in biological wastewater treatment systems.

ITEM	DESCRIPTION	€
BIOACTIVE	Bacterial-enzymatic mixture (blister of 10 tablets)	**47,72**



CHLORINE TABLET

ITEM	DESCRIPTION	€
TRICL 90/200 BL	200 g chlorine tablet	**12,41**



CARRIER MEDIA

Isotactic polypropylene Ø 200

Specially made for high/medium-load trickling beds.

ITEM	DESCRIPTION	€
CRP 19	Carrier media for trickling filters * (Price per m^3)	**635,71**



DIFFUSER

ITEM	DESCRIPTION	€
DIFF. DIEP. D260	Diffuser	**99,70**



ELECTRIC BLOWER
Complete with intake and delivery silencer
and safety valve

Price to be assessed according to the required specifications.



CONTROL PANELS

Control panel with electronic circuit
for timed control of a single-phase pump:
- Code QE FITO for items with single-phase pump

Control panel with electronic circuit for
timed control of one or two diaphragm compressors:
- Code QE COM

ITEM	DESCRIPTION	€
QE COM	Control panel for diaphragm compressor management and timing	**444,28**
QE FITO	Control panel for starting a single-phase pump with timer	**545,75**



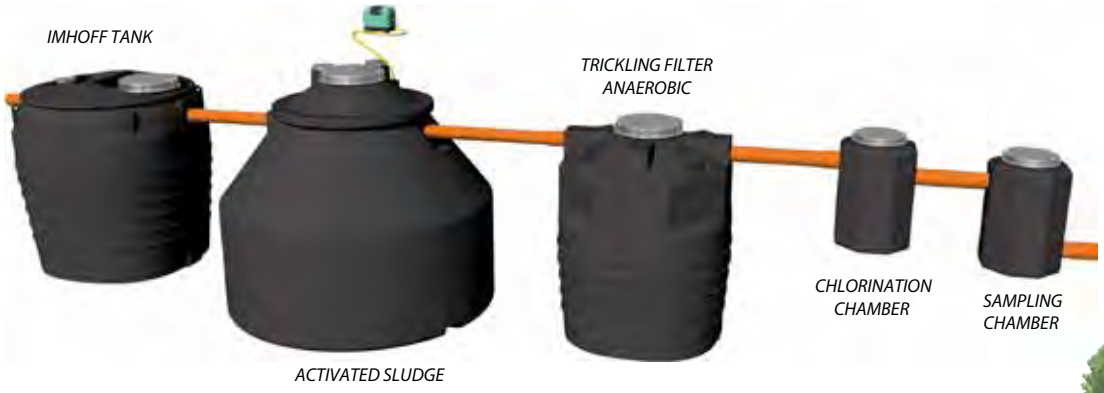
RECOMMENDED SYSTEMS

INDICE

RECOMMENDED ACTIVATED SLUDGE SYSTEMS DOMESTIC OR SIMILAR USERS

RECOMMENDED SYSTEMS FOR SOIL DISCHARGE

Combined greywater and blackwater discharges

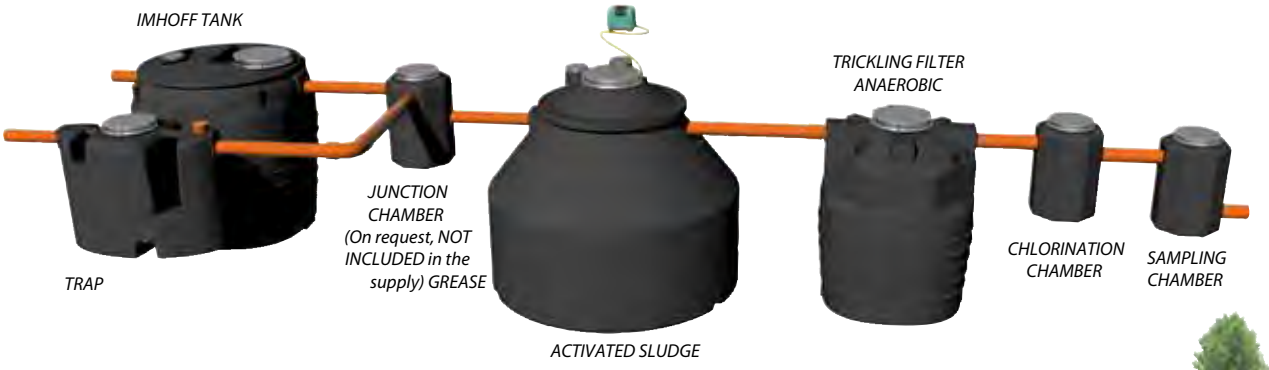




SOIL DISCHARGE - COMBINED DISCHARGES

ITEM	P.E.	IMHOFF TANK	ACTIVATED SLUDGE	TRICKLING FILTER ANAEROBIC	CHLORINATION CHAMBER	SAMPLING CHAMBER	€
ECO IRC 5 S PLUS	5	ECO IMO 6 NEW	FA 5	ECO FAN 1500	POZ 100 CLO	POZ 100 G.I.	**4.820,17**
ECO IRC 10 S PLUS	10	ECO IMO 10 NEW	FA 10	ECO FAN 2000	POZ 100 CLO		**6.956,00**
ECO IRC 15 S PLUS	15	ECO IMO 15 NEW	FA 15	ECO FAN 3000	POZ 300 CLO		**9.348,96**
ECO IRC 20 S PLUS	20	ECO IMO 20 NEW	FA 20	ECO FAN 4000	POZ 300 CLO		**11.610,64**
ECO IRC 25 S PLUS	25	ECO IMO 25 NEW	FA 25	ECO FAN 5000	POZ 300 CLO		**13.339,96**
ECO IRC 29 S PLUS	29	ECO IMO 30 NEW	FA 25	ECO FAN 6000	POZ 300 CLO		**14.755,95**

Separate greywater and blackwater discharges





SOIL DISCHARGE - SEPARATE DISCHARGES

ITEM	P.E.	IMHOFF TANK	GREASE TRAP	ACTIVATED SLUDGE	TRICKLING FILTER ANAEROBIC	CHLORINATION CHAMBER	SAMPLING CHAMBER	€
ECO IRS 5 S PLUS	5	ECO IMO 4 NEW	ECO DIS 6	FA 5	ECO FAN 1500	POZ 100 CLO	POZ 100 G.I.	**5.195,64**
ECO IRS 10 S PLUS	10	ECO IMO 6 NEW	ECO DIS 10	FA 10	ECO FAN 2000	POZ 100 CLO		**7.173,41**
ECO IRS 15 S PLUS	15	ECO IMO 10 NEW	ECO DIS 18	FA 15	ECO FAN 3000	POZ 300 CLO		**9.472,71**
ECO IRS 20 S PLUS	20	ECO IMO 15 NEW	ECO DIS 18	FA 20	ECO FAN 4000	POZ 300 CLO		**11.531,51**
ECO IRS 25 S PLUS	25	ECO IMO 20 NEW	ECO DIS 30	FA 25	ECO FAN 5000	POZ 300 CLO		**13.863,35**
ECO IRS 29 S PLUS	29	ECO IMO 25 NEW	ECO DIS 30	FA 25	ECO FAN 6000	POZ 300 CLO		**15.268,18**

RECOMMENDED ACTIVATED SLUDGE SYSTEMS DOMESTIC OR SIMILAR USERS

RECOMMENDED SYSTEMS WHEN ONLY AN ACTIVATED SLUDGE SYSTEM IS REQUIRED

Combined greywater and blackwater discharges



SURFACE WATER DISCHARGE

ITEM	P.E.	IMHOFF TANK	ACTIVATED SLUDGE	CHLORINATION CHAMBER*	SAMPLING CHAMBER	€
ECO IRC 5 AS	5	ECO IMO 6 NEW	FA 5	POZ 100 CLO	POZ 100 G.I.	**3.243,90**
ECO IRC 10 AS	10	ECO IMO 10 NEW	FA 10	POZ 100 CLO		**4.419,44**
ECO IRC 15 AS	15	ECO IMO 15 NEW	FA 15	POZ 300 CLO		**5.978,96**
ECO IRC 20 AS	20	ECO IMO 20 NEW	FA 20	POZ 300 CLO		**7.479,69**
ECO IRC 25 AS	25	ECO IMO 25 NEW	FA 25	POZ 300 CLO		**8.448,04**



SOIL DISCHARGE

ITEM	P.E.	IMHOFF TANK	ACTIVATED SLUDGE	CHLORINATION CHAMBER*	SAMPLING CHAMBER	€
ECO IRC 5 S	5	ECO IMO 6 NEW	FA 10	POZ 100 CLO	POZ 100 G.I.	**4.093,32**
ECO IRC 10 S	10	ECO IMO 10 NEW	FA 15	POZ 100 CLO		**5.154,50**
ECO IRC 15 S	15	ECO IMO 15 NEW	FA 20	POZ 300 CLO		**6.664,37**
ECO IRC 20 S	20	ECO IMO 20 NEW	FA 25	POZ 300 CLO		**8.124,69**



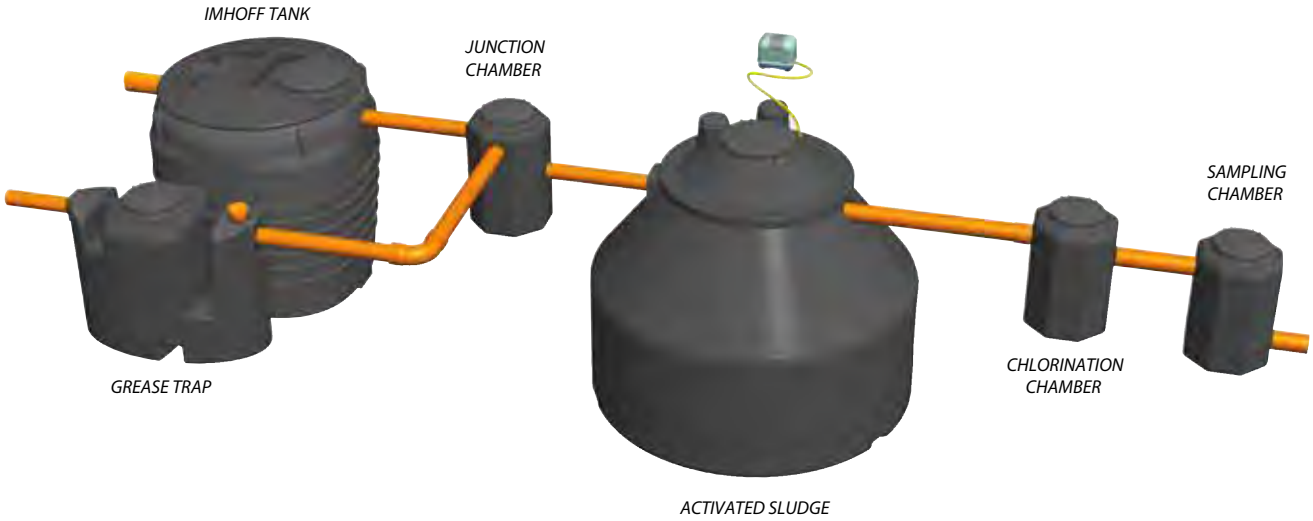
Follow the opinion of the competent authority



Download the data sheet

RECOMMENDED SYSTEMS WHEN ONLY AN ACTIVATED SLUDGE SYSTEM IS REQUIRED

Separate greywater and blackwater discharges





SURFACE WATER DISCHARGE

ITEM	P.E.	IMHOFF TANK	GREASE TRAP	ACTIVATED SLUDGE	CHLORINATION CHAMBER*	JUNCTION CHAMBER	SAMPLING CHAMBER	€
ECO IRS 5 AS	5	ECO IMO 4 NEW	ECO DIS 4	FA 5	POZ 100 CLO	POZ 100 CO	POZ 100 G.I.	**3.781,89**
ECO IRS 10 AS	10	ECO IMO 6 NEW	ECO DIS 6	FA 10	POZ 100 CLO			**4.778,50**
ECO IRS 15 AS	15	ECO IMO 10 NEW	ECO DIS 10	FA 15	POZ 300 CLO			**6.140,11**
ECO IRS 20 AS	20	ECO IMO 15 NEW	ECO DIS 18	FA 20	POZ 300 CLO			**7.630,53**
ECO IRS 25 AS	25	ECO IMO 20 NEW	ECO DIS 30	FA 25	POZ 300 CLO			**9.201,40**



SOIL DISCHARGE

ITEM	P.E.	IMHOFF TANK	GREASE TRAP	ACTIVATED SLUDGE	CHLORINATION CHAMBER*	JUNCTION CHAMBER	SAMPLING CHAMBER	€
ECO IRS 5 S	5	ECO IMO 4 NEW	ECO DIS 6	FA 10	POZ 100 CLO	POZ 100 CO	POZ 100 G.I.	**4.698,78**
ECO IRS 10 S	10	ECO IMO 6 NEW	ECO DIS 10	FA 15	POZ 100 CLO			**5.601,92**
ECO IRS 15 S	15	ECO IMO 10 NEW	ECO DIS 18	FA 20	POZ 300 CLO			**7.018,13**
ECO IRS 20 S	20	ECO IMO 15 NEW	ECO DIS 18	FA 25	POZ 300 CLO			**8.275,54**

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RECOMMENDED SYSTEMS WHEN ONLY A TRICKLING FILTER IS REQUIRED

Combined greywater and blackwater discharges



SURFACE WATER DISCHARGE

ITEM	P.E.	IMHOFF TANK	TRICKLING FILTER	CHLORINATION CHAMBER*	SAMPLING CHAMBER	€
ECO IFC 6 AS	6	ECO IMO 6 NEW	ECO FAN 1500	POZ 100 CLO	POZ 100 G.I.	**2.915,63**
ECO IFC 10 AS	10	ECO IMO 10 NEW	ECO FAN 2000	POZ 100 CLO		**4.202,03**
ECO IFC 15 AS	15	ECO IMO 15 NEW	ECO FAN 3000	POZ 300 CLO		**5.859,92**
ECO IFC 20 AS	20	ECO IMO 20 NEW	ECO FAN 4000	POZ 300 CLO		**7.436,20**
ECO IFC 25 AS	24	ECO IMO 25 NEW	ECO FAN 5000	POZ 300 CLO		**8.520,53**
ECO IFC 30 AS	29	ECO IMO 30 NEW	ECO FAN 6000	POZ 300 CLO		**9.936,52**



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SOIL DISCHARGE

ITEM	P.E.	IMHOFF TANK	TRICKLING FILTER	CHLORINATION CHAMBER*	SAMPLING CHAMBER	€
ECO IFC 6 S	6	ECO IMO 6 NEW	ECO FAE PLUS 1500	POZ 100 CLO	POZ 100 G.I.	**3.821,54**
ECO IFC 10 S	10	ECO IMO 10 NEW	ECO FAE PLUS 2000	POZ 100 CLO		**4.890,52**
ECO IFC 13 S	13	ECO IMO 15 NEW	ECO FAE PLUS 3000	POZ 300 CLO		**7.454,33**
ECO IFC 18 S	18	ECO IMO 20 NEW	ECO FAE PLUS 4000	POZ 300 CLO		**8.668,25**
ECO IFC 22 S	22	ECO IMO 25 NEW	ECO FAE PLUS 5000	POZ 300 CLO		**10.404,83**
ECO IFC 26 S	26	ECO IMO 30 NEW	ECO FAE PLUS 6000	POZ 300 CLO		**12.473,08**

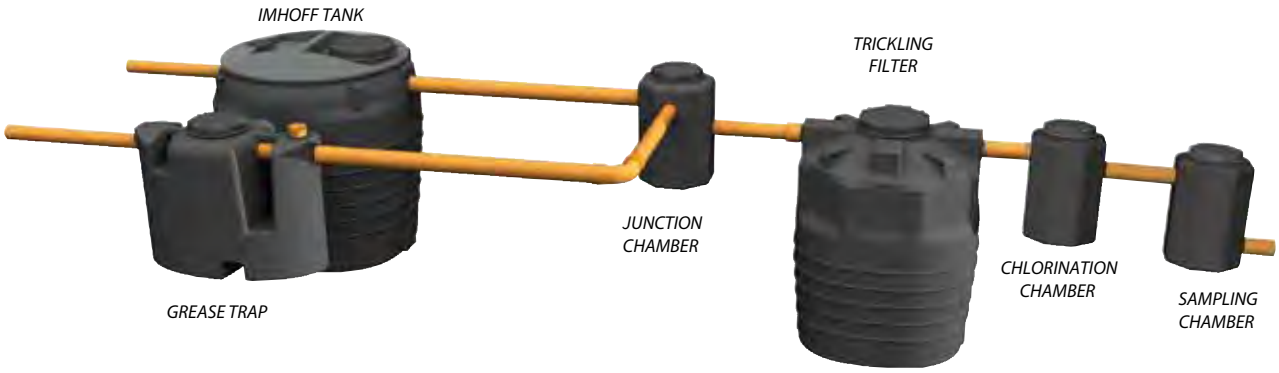


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RECOMMENDED SYSTEMS WHEN ONLY A TRICKLING FILTER IS REQUIRED

Separate greywater and blackwater discharges





SURFACE WATER DISCHARGE

ITEM	P.E.	IMHOFF TANK	GREASE TRAP	TRICKLING FILTER	CHLORINATION CHAMBER*	JUNCTION CHAMBER	SAMPLING CHAMBER	€
ECO IFS 6 AS	6	ECO IMO 4 NEW	ECO DIS 4	ECO FAN 1500	POZ 100 CLO	POZ 100 CO	POZ 100 G.I.	**3.453,63**
ECO IFS 10 AS	10	ECO IMO 6 NEW	ECO DIS 6	ECO FAN 2000	POZ 100 CLO			**4.561,08**
ECO IFS 15 AS	15	ECO IMO 10 NEW	ECO DIS 10	ECO FAN 3000	POZ 300 CLO			**6.021,06**
ECO IFS 20 AS	20	ECO IMO 15 NEW	ECO DIS 18	ECO FAN 4000	POZ 300 CLO			**7.587,04**
ECO IFS 24 AS	24	ECO IMO 20 NEW	ECO DIS 30	ECO FAN 5000	POZ 300 CLO			**9.273,88**
ECO IFS 29 AS	29	ECO IMO 25 NEW	ECO DIS 30	ECO FAN 6000	POZ 300 CLO			**10.503,15**

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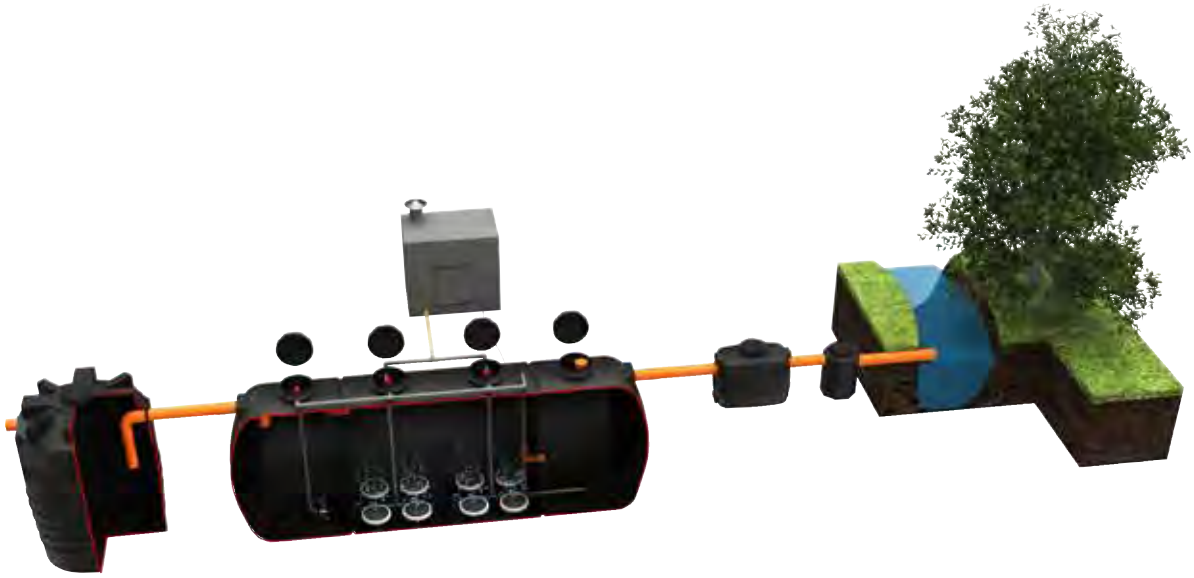
SOIL DISCHARGE

ITEM	P.E.	IMHOFF TANK	GREASE TRAP	TRICKLING FILTER	CHLORINATION CHAMBER*	JUNCTION CHAMBER	SAMPLING CHAMBER	€
ECO IFS 6 S	6	ECO IMO 6 NEW	ECO DIS 6	ECO FAE PLUS 1500	POZ 100 CLO	POZ 100 CO	POZ 100 G.I.	**4.506,73**
ECO IFS 10 S	10	ECO IMO 10 NEW	ECO DIS 10	ECO FAE PLUS 2000	POZ 100 CLO			**5.664,06**
ECO IFS 13 S	13	ECO IMO 15 NEW	ECO DIS 18	ECO FAE PLUS 3000	POZ 300 CLO			**8.420,49**
ECO IFS 18 S	18	ECO IMO 20 NEW	ECO DIS 18	ECO FAE PLUS 4000	POZ 300 CLO			**9.634,41**
ECO IFS 22 S	22	ECO IMO 25 NEW	ECO DIS 30	ECO FAE PLUS 5000	POZ 300 CLO			**11.657,77**
ECO IFS 26 S	26	ECO IMO 30 NEW	ECO DIS 30	ECO FAE PLUS 6000	POZ 300 CLO			**13.549,79**

Follow the opinion of the competent authority

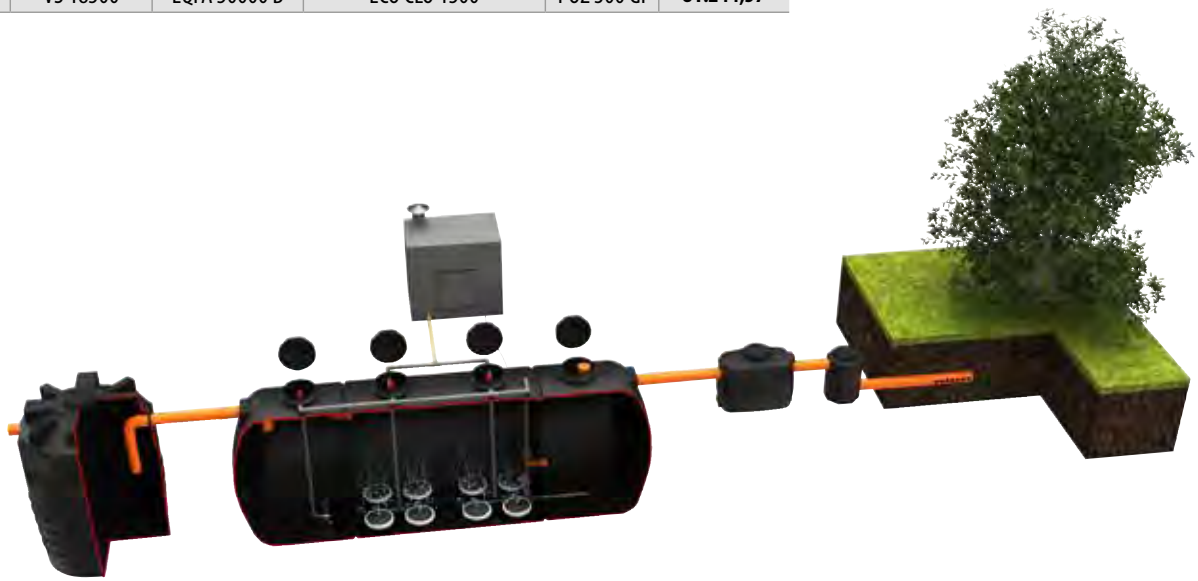
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NOTES



SURFACE WATER DISCHARGE

P.E.	BIOLOGICAL PRIMARY	EQFA	CHLORINATION CLARIFICATION CONTACT TANK	SAMPLING CHAMBER	€
60	ECOVSV 6000	EQFA 18500	ECO CLO 500	POZ 100 GI	**29.064,53**
90	VS 10000	EQFA 28500	ECO CLO 1000	POZ 100 GI	**46.468,90**
120	VS 12000	EQFA 33500 B	ECO CLO 1000	POZ 300 GI	**56.602,69**
150	VS 15000	EQFA 43500 B	ECO CLO 1500	POZ 300 GI	**70.318,01**
180	VS 18500	EQFA 50000 B	ECO CLO 1500	POZ 300 GI	**81.244,57**

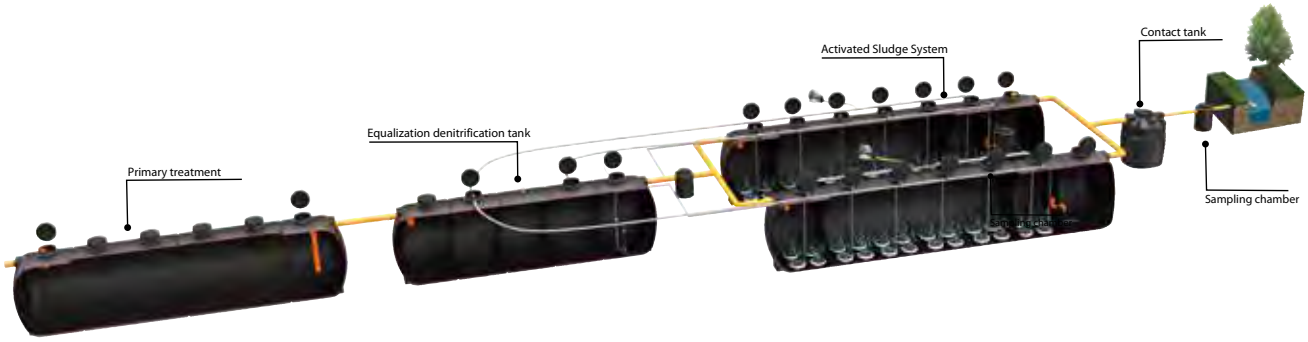


SOIL DISCHARGE

P.E.	BIOLOGICAL PRIMARY	EQFA	CHLORINATION CLARIFICATION CONTACT TANK	SAMPLING CHAMBER	€
51	ECOVSV 5000	EQFA 18500	ECO CLO 500	POZ 100 GI	**28.392,43**
70	ECOVSV 6000	EQFA 23500 B	ECO CLO 1000	POZ 100 GI	**38.230,81**
95	VS 10000	EQFA 33500 B	ECO CLO 1000	POZ 100 GI	**53.081,13**
120	VS 12000	EQFA 40000	ECO CLO 1500	POZ 300 GI	**63.937,61**
145	VS 15000	EQFA 50000 B	ECO CLO 1500	POZ 300 GI	**77.980,23**

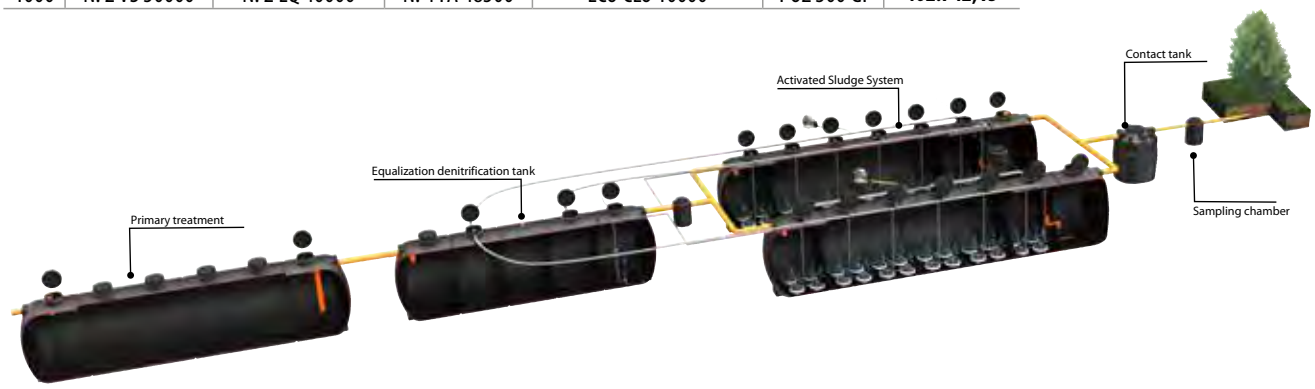
Note: for separate discharges contact the Technical Department to define the appropriate grease trap.

RECOMMENDED MODULAR ACTIVATED SLUDGE SYSTEMS
USERS ABOVE 50 P.E.



SURFACE WATER DISCHARGE

P.E.	BIOLOGICAL PRIMARY	Equalization Denitrification	Activated Sludge System	CHLORINATION CLARIFICATION CONTACT TANK	SAMPLING CHAMBER	€
200	VS 20000	EQ 18500	FA 40000	ECO CLO 2000	POZ 300 GI	**87.575,34**
250	VS 25000	EQ 23500	FA 48500	ECO CLO 2000	POZ 300 GI	**107.176,81**
300	VS 30000	EQ 25000	N. 2 FA 30000	ECO CLO 2500	POZ 300 GI	**127.499,68**
350	VS 35000	EQ 28500	N. 2 FA 35000	ECO CLO 2500	POZ 300 GI	**148.104,41**
400	VS 40000	EQ 33500	N. 2 FA 40000	ECO CLO 4000	POZ 300 GI	**167.750,92**
500	VS 50000	EQ 40000	N. 2 FA 48500	ECO CLO 4000	POZ 300 GI	**201.577,32**
600	N. 2 VS 30000	EQ 48500	N. 4 FA 30000	ECO CLO 6000	POZ 300 GI	**250.992,36**
700	N. 2 VS 35000	N. 2 EQ 28500	N. 4 FA 35000	ECO CLO 6000	POZ 300 GI	**294.879,34**
800	N. 2 VS 40000	N. 2 EQ 30000	N. 4 FA 40000	ECO CLO 7500	POZ 300 GI	**328.054,60**
1000	N. 2 VS 50000	N. 2 EQ 40000	N. 4 FA 48500	ECO CLO 10000	POZ 300 GI	**402.742,15**



SOIL DISCHARGE

P.E.	BIOLOGICAL PRIMARY	Equalization Denitrification	Activated Sludge System	CHLORINATION CLARIFICATION CONTACT TANK	SAMPLING CHAMBER	€
170	VS 17000	EQ 15000	FA 40000	ECO CLO 1500	POZ 300 GI	**82.738,64**
200	VS 20000	EQ 18500	FA 48500	ECO CLO 2000	POZ 300 GI	**97.355,70**
250	VS 25000	EQ 23500	N. 2 FA 30000	ECO CLO 2000	POZ 300 GI	**122.851,63**
300	VS 30000	EQ 25000	N. 2 FA 35000	ECO CLO 2500	POZ 300 GI	**139.877,03**
350	VS 35000	EQ 28500	N. 2 FA 40000	ECO CLO 2500	POZ 300 GI	**160.026,87**
400	VS 40000	EQ 33500	N. 2 FA 48500	ECO CLO 4000	POZ 300 GI	**187.001,91**
500	VS 50000	EQ 40000	N. 4 FA 30000	ECO CLO 4000	POZ 300 GI	**238.659,36**
600	N. 2 VS 30000	EQ 48500	N. 4 FA 35000	ECO CLO 6000	POZ 300 GI	**275.764,82**
700	N. 2 VS 35000	N. 2 EQ 28500	N. 4 FA 40000	ECO CLO 6000	POZ 300 G	**318.742,19**
800	N. 2 VS 40000	N. 2 EQ 30000	N. 4 FA 48500	ECO CLO 7500	POZ 300 G	**366.140,51**

Note: for separate discharges contact the Technical Department to define the appropriate grease trap.

RECOMMENDED MBBR SYSTEMS USERS ABOVE 50 P.E.



SURFACE WATER DISCHARGE

P.E. surf.	BIOLOGICAL PRIMARY	MBBR	CONTACT TANK CHLORINATION CLARIFICATION	SAMPLING CHAMBER	€
75	VS 8500	MBBR 18500	ECO CLO 1000	POZ 100 G.I.	**34.910,17**
110	VS 12000	MBBR 28500	ECO CLO 1000	POZ 100 G.I.	**51.512,97**
150	VS 15000	MBBR 33500 B	ECO CLO 1500	POZ 100 G.I.	**60.673,55**
190	VS 20000	MBBR 43500 B	ECO CLO 1500	POZ 100 G.I.	**78.335,50**
225	VS 25000	MBBR 50000 B	ECO CLO 2000	POZ 100 G.I.	**91.490,50**



SOIL DISCHARGE

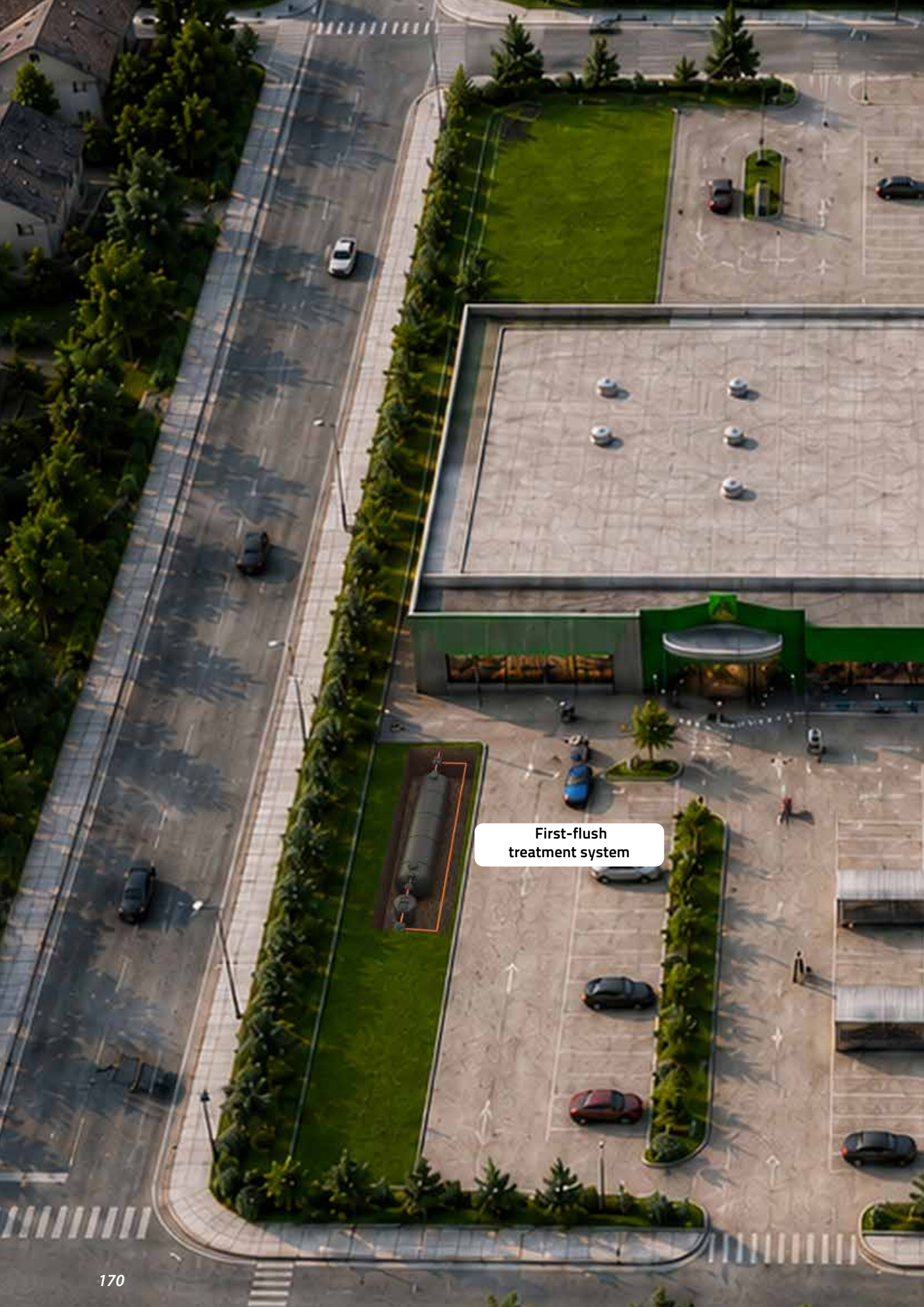
P.E. soil	BIOLOGICAL PRIMARY	MBBR	CONTACT TANK CHLORINATION CLARIFICATION	SAMPLING CHAMBER	€
65	VS 8500	MBBR 18500	ECO CLO 750	POZ 100 G.I.	**34.770,56**
85	VS 10000	MBBR 23500 B	ECO CLO 1000	POZ 100 G.I.	**45.198,21**
120	VS 12000	MBBR 33500 B	ECO CLO 1000	POZ 100 G.I.	**59.129,00**
150	VS 15000	MBBR 40000	ECO CLO 1500	POZ 100 G.I.	**68.739,16**
180	VS 20000	MBBR 50000 B	ECO CLO 1500	POZ 100 G.I.	**87.049,92**

Note: for separate discharges contact the Technical Department to define the appropriate grease trap.



STORMWATER TREATMENT RUNOFF

INDICE


First-flush
treatment system


Car wash water treatment system
AUTOLAVAGGIO
Stormwater treatment system and detention tank

STORMWATER RUNOFF

The yard is not used for any kind of processing, nor are hazardous substances stored there;

Any goods stored or handled in the yard must be properly packed to prevent the release of pollutants;

Screening treatment must be carried out upstream of the system;

Oil separators must be installed and maintained correctly and regularly in accordance with the installation instructions supplied with the system;

Inert materials in the incoming wastewater must be larger than 0,2 mm, with a specific gravity of 0,85 g/cm^3 for oils;

The metal parameters at the inlet must already comply with current regulations;

The pollutants reaching the system, i.e. non-emulsified oils and any traces of hydrocarbons, must be the only ones present so that they are removed by the planned treatment (separation of non-emulsified oils).

WARRANTIES

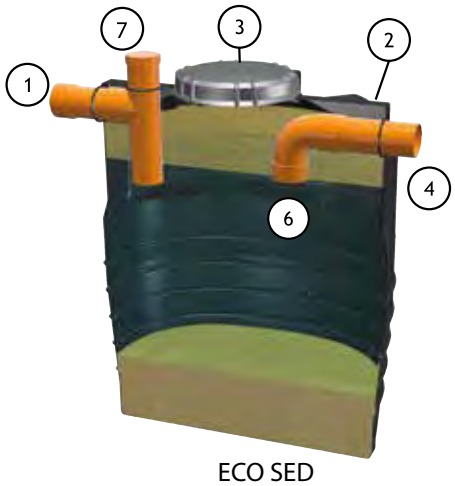
Compliance with the discharge limits for the various receiving bodies is in any case subject to the performance of our systems and therefore to the concentration of pollutants in the water entering the system.

NOTE FOR THE INSTALLER

The systems must be installed so that material on the surface and settled material can be removed periodically. They must be located outside buildings and at least 1 m from foundation walls. For burying the unit, strictly follow the instructions in this manual.

GRIT CHAMBERS

Grit chambers are used to separate sand and settleable materials from stormwater runoff. They work by means of suitably equipped calm tanks in which settleable materials can settle. Grit chambers are sized for inert materials larger than 0,2 mm and a detention time of at least 4 minutes.

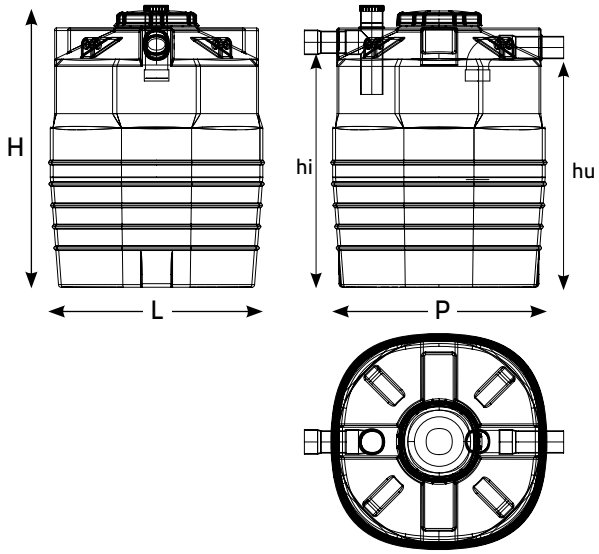


ECO SED



KEY

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND MAINTENANCE LID
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
7 - INLET INSPECTION LID



GRIT CHAMBERS

ITEM	CAPACITY (liters)		AREA (m^2)	AREA (m^2)	FLOW (l/sec.)	DIMENSIONS (cm)					ø IN/OUT (mm)	€
	OVERFLOW	TOTAL	Flow coeff. 70 mm/h	Flow coeff. 20 mm/h		L	P	H	hi	hu		
ECO SED 1500	1243	1360	250	870	4,86	117	117	150	116	113	125	**1.022,96**
ECO SED 2000	2104	2265	400	1400	7,78	136	136	182	151	148	125	**1.210,38**
ECO SED 3000	2923	3107	550	1650	10,69	146	146	219	184	181	125	**1.841,27**
ECO SED 4000	3800	4200	750	2250	14,58	165	165	224	189	186	160	**2.200,01**
ECO SED 5000	4705	5110	900	3150	17,50	184	184	229	188	185	160	**2.601,66**
ECO SED 6000	5575	5993	1000	3500	19,44	185	185	257	216	213	160	**3.273,75**



Download the data sheet

SPECIFICATION ITEM

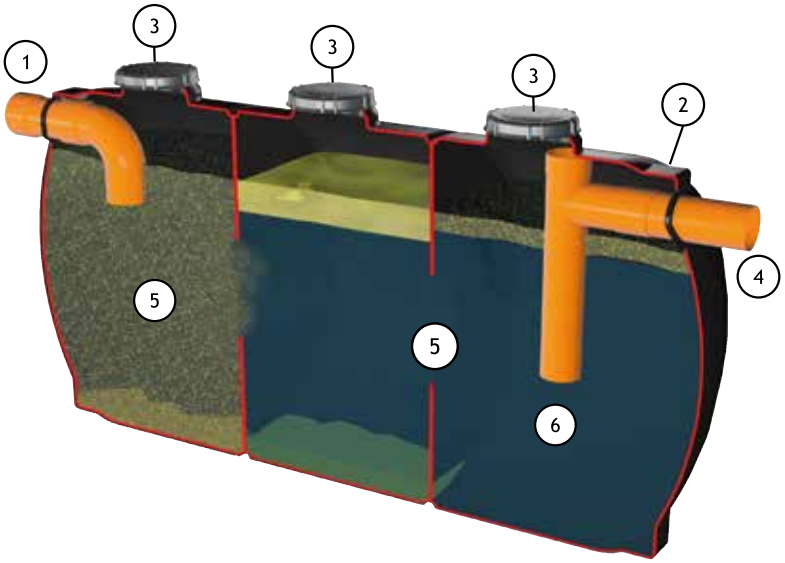
Grit chamber in recyclable PE (linear polyethylene), consisting of a monoblock compartment (mod. ECO SED) or a modular unit (mod. ECO DEO). The product has a vent valve, one or more lids for inspecting the inlet pipe and a lid for removing sand. The inlet and outlet pipes are fitted with suitable double-lip rubber seals to ensure a perfect seal.

ROUTINE MAINTENANCE

Unless otherwise specified by the competent authority, generally clean the tank one to four times a year.

GRIT CHAMBERS - LARGE SYSTEMS

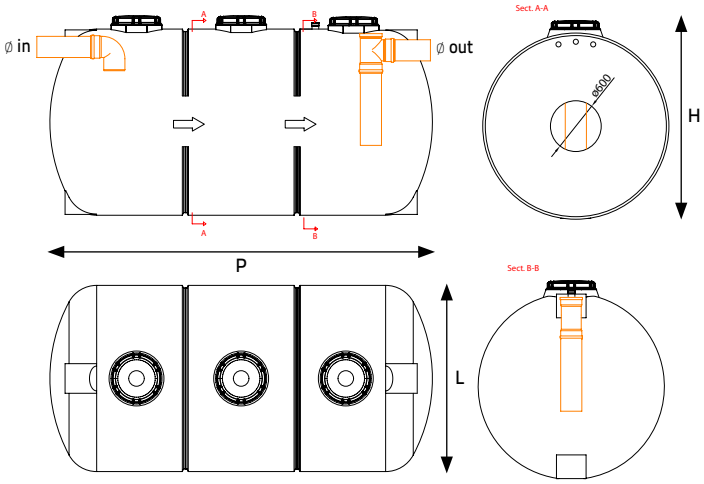
Download the data sheet



KEY

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND MAINTENANCE LIDS
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE





LARGE-SYSTEM GRIT CHAMBERS

ITEM	CAPACITY (liters)	AREA (m^2) Flow coeff. 70 mm/h	AREA (m^2) Flow coeff. 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	Hi (cm)	Hu (cm)	Number of lids ø 550	€
ECO DEO 7000	7200	1200	4200	23,33	238	205	255	250	204	200	2	**6.177,09**
ECO DEO 8500	8500	1500	5200	29,17	238	240	255	250	204	200	2	**6.860,87**
ECO DEO 10000	10000	2000	7000	38,89	238	275	255	315	185	181	2	**7.157,15**
ECO DEO 15000	15000	2700	9500	52,50	238	390	255	315	198	194	2	**10.461,26**
ECO DEO 20000	20000	3500	12200	68,06	238	508	255	315	198	194	2	**13.725,60**
ECO DEO 25000	25000	4300	15000	83,61	238	627	255	315	198	194	3	**17.955,71**
ECO DEO 30000	30000	5200	18200	97,22	238	743	255	315	198	194	3	**21.220,44**
ECO DEO 40000	40000	6800	23800	132,22	238	979	255	400	189	185	4	**28.746,43**
ECO DEO 50000	50000	8400	26250	145,83	238	12150	255	400	189	185	5	**39.159,80**

OIL SEPARATORS

According to standard EN 858-1:2005 - Certificate No. R 0807 2281

TELCOM oil separators, made of polyethylene, a fully recyclable material, are used to separate (non-emulsified) mineral oils that are insoluble in water from yard runoff water, before discharge into the public sewer or the receiving body indicated by the competent authority. In any case, these products are the preliminary roughing stage of more complex systems. They work by means of calm tanks with an internal compartment in which the oils float according to the physical mechanisms of liquid-liquid gravity separation; the separated substances remain trapped in the internal compartment, while the treated wastewater passes into the main basin through the opening at the bottom of the internal compartment and flows to the outlet.

ECO DEO models are oil separators defined in EN 858/1 and 858/2 as CLASS II - gravity separators.

ECO DEO/C models have a lamellar pack to induce coalescence, i.e. the merging of several droplets into a single drop.

In addition to the lamellar pack, ECO DEO/CF models have a polyurethane foam filter for further separation.
These products are defined in EN 858/1 and 858/2 as CLASS I - coalescing separators - and provide higher efficiency for the same volume. They are recommended where limits are particularly strict.



TECHNICAL NOTE
For treating yard runoff water, correct installation always includes a grit chamber upstream of the oil separator.
(See Continuous-Flow Systems on p. 166)

OIL SEPARATORS



PARTS

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND REMOVAL LID ø 420
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
7 - REINFORCING RIBS
8 - INLET LID ø 140
9 - LAMELLAR PACK
10 - MAINTENANCE LID (ECO DEO/CF)
11 - POLYURETHANE FOAM FILTER



ECO DEO



ECO DEO/C



ECO DEO/CF



CL 140 turret
for inspection lid



CL 420 turret

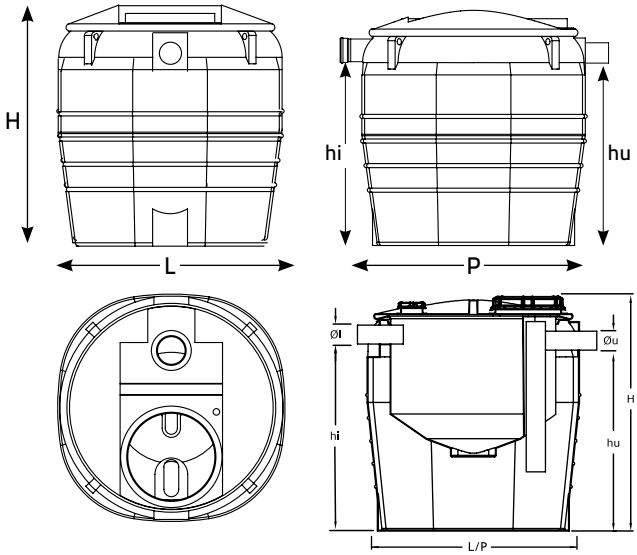
Given the many variables involved in a rain event (intensity and duration, characteristics of the drainage surface and drainage network, types of hydrocarbons of different origin and nature), TELCOM recommends always carrying out an accurate analysis of the areas to be treated and of the local rainfall pattern.

Oil separators must be selected according to the average flow rate, considering a maximum rainfall coefficient.

For treating yard runoff water, correct installation always includes
a grit chamber upstream of the oil separator.
Choosing larger volumes will reduce the frequency of maintenance and removal of separated oils. This applies all the more to covered yards, for which no estimated flow rate is available, since runoff often depends on how and how often these surfaces are cleaned.

Download the data sheet





OIL SEPARATORS

ITEM	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	Overflow volumes (liters)			Dimensions (cm)					ø pipes (mm)	Areas (m^2)		€
				Total	Oils Settl.	Oils Total	L	P	H	hi	hu		Separ. settl.	Total	
ECO DEO 5 NEW ECO DEO 5/C NEW ECO DEO 5/CF NEW	130	460	2,44	690	250	550	107	107	111	85	83	100	0,6	0,9	**801,30** **1.353,72** **1.558,50**
ECO DEO 7 NEW ECO DEO 7/C NEW ECO DEO 7/CF NEW	180	630	3,33	910	250	750	117	117	121	89	86	125	0,71	1,07	**884,64** **1.390,90** **1.588,13**
ECO DEO 11 NEW ECO DEO 11/C NEW ECO DEO 11/CF NEW	300	1000	5,68	1500	400	1280	136	136	150	117	115	125	0,87	1,45	**1.272,24** **1.868,45** **2.062,46**
ECO DEO 17 NEW ECO DEO 17/C NEW ECO DEO 17/CF NEW	430	1500	8,88	2250	600	2000	146	146	187	153	150	125	0,98	1,67	**1.793,07** **2.433,94** **2.709,84**
ECO DEO 22 NEW ECO DEO 22C NEW ECO DEO 22/CF NEW	570	2000	11,77	3000	800	2650	165	165	189	159	156	160	1,09	2,14	**2.619,27** **3.247,47** **3.530,55**
ECO DEO 28 NEW ECO DEO 28/C NEW ECO DEO 28/CF NEW	700	2500	14,88	3750	1000	3350	184	184	199	161	159	160	1,63	2,66	**2.943,68** **3.746,85** **4.018,31**
ECO DEO 33 NEW ECO DEO 33/C NEW ECO DEO 33/CF NEW	950	3000	18,22	4500	1200	4100	185	185	221	184	181	160	1,63	2,69	**3.384,72** **4.148,01** **4.435,41**

Guaranteed detention time at least 4 minutes.

SEPARATE CONTINUOUS-FLOW SYSTEMS

CONTINUOUS-FLOW GRIT CHAMBERS - OIL SEPARATORS

Telcom S.p.A. provides a grit and oil separation process as "continuous treatment" of stormwater "for drainage surfaces used only for vehicle transit, parking or stopping, and for handling and storing non-hazardous materials". Telcom grit-oil separators work by means of physical processes based on reducing the speed of the wastewater. By providing a calm zone, the substances present, which have a specific gravity different from that of water, rise by flotation or settle on the bottom under the force of gravity.





SAFETY CHAMBER BY-PASS OPTIONAL available on p. 194

PRODUCT SELECTION: given the many variables involved in a rain event (intensity and duration, characteristics of the drainage surface and drainage network, types of hydrocarbons of different origin and nature), TELCOM recommends always carrying out an accurate analysis of the areas to be treated and of the local rainfall pattern. Oil separators must be selected according to the average flow rate, considering a maximum rainfall coefficient. Always submit the technical solution to the competent authority for approval. TELCOM recommends:

- mod. ECO DEO/C for discharge into public sewers and surface water;

- mod. ECO DEO/CF for discharge onto soil.

Choosing larger volumes will allow the user to reduce the frequency of maintenance and removal of separated oils. This applies all the more to covered yards, for which no estimated flow rate is available, since runoff often depends on how and how often these surfaces are cleaned.



PARTS
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND REMOVAL LID ø 420
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
7 - REINFORCING RIBS
8 - INLET LID ø 140
9 - LAMELLAR PACK
11 - POLYURETHANE FOAM FILTER



GENERAL TABLE
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Separate)
Discharge into public sewer / surface water

ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 300/C	Public sewer Surface water	300	1000	5,83	ECO SED 1500	1360	ECO DEO 7/C NEW	910	2270	125	**2.413,85**
ECO IC 500/C		500	1700	9,72	ECO SED 2000	2265	ECO DEO 11/C NEW	1500	3765	125	**3.078,82**
ECO IC 700/C		700	2400	13,61	ECO SED 3000	3107	ECO DEO 17/C NEW	2250	5357	125	**4.275,21**
ECO IC 1000/C		1000	3500	19,44	ECO SED 4000	4200	ECO DEO 22/C NEW	3000	7200	160	**5.447,49**
ECO IC 1200/C		1200	4200	23,33	ECO SED 5000	5110	ECO DEO 28/C NEW	3750	8860	160	**6.348,49**





PARTS
1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND REMOVAL LID ø 420
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
7 - REINFORCING RIBS
8 - INLET LID ø 140
9 - LAMELLAR PACK
10 - MAINTENANCE LID
11 - POLYURETHANE FOAM FILTER

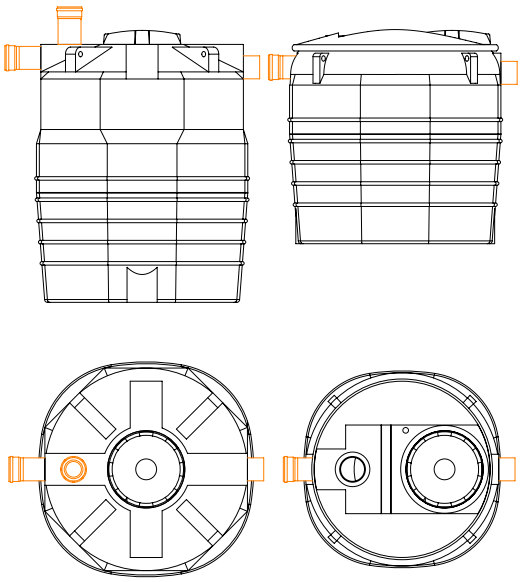


GENERAL TABLE
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Separate)
Soil discharge

ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 300/CF	Soil	300	1000	5,83	ECO SED 1500	1360	ECO DEO 7/CF NEW	910	2270	125	**2.611,10**
ECO IC 500/CF		500	1700	9,72	ECO SED 2000	2265	ECO DEO 11/CF NEW	1500	3765	125	**3.272,83**
ECO IC 700/CF		700	2400	13,61	ECO SED 3000	3107	ECO DEO 17/CF NEW	2250	5357	125	**4.551,11**
ECO IC 1000/CF		1000	3500	19,44	ECO SED 4000	4200	ECO DEO 22/CF NEW	3000	7200	160	**5.730,57**
ECO IC 1200/CF		1200	4200	23,33	ECO SED 5000	5110	ECO DEO 28/CF NEW	3750	8860	160	**6.619,97**

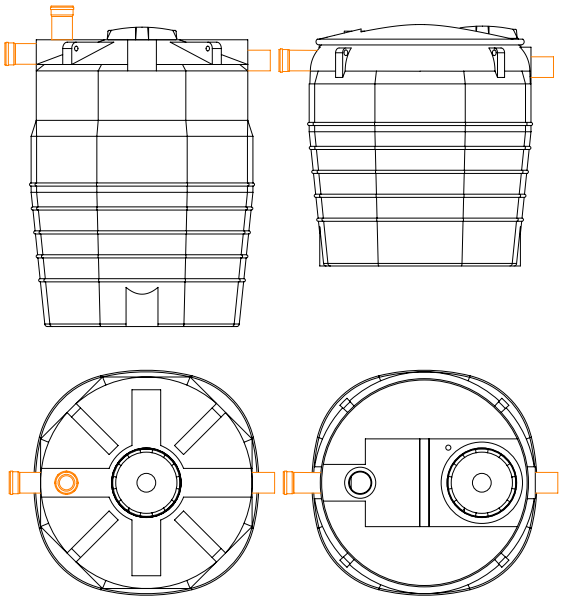
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Separate)





ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 300/C	Public sewer Surface water	300	**1000**	5,83	ECO SED 1500	1360	ECO DEO 7/C NEW	910	2270	125	**2.413,85**
ECO IC 300/CF	Soil						ECO DEO 7/CF NEW				**2.611,10**

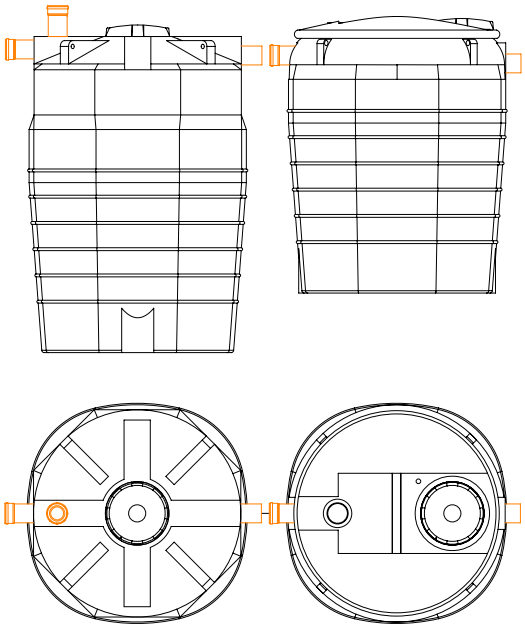




ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 500/C	Public sewer Surface water	500	**1700**	9,72	ECO SED 2000	2265	ECO DEO 11/C NEW	1500	3765	125	**3.078,82**
ECO IC 500/CF	Soil						ECO DEO 11/CF NEW				**3.272,83**

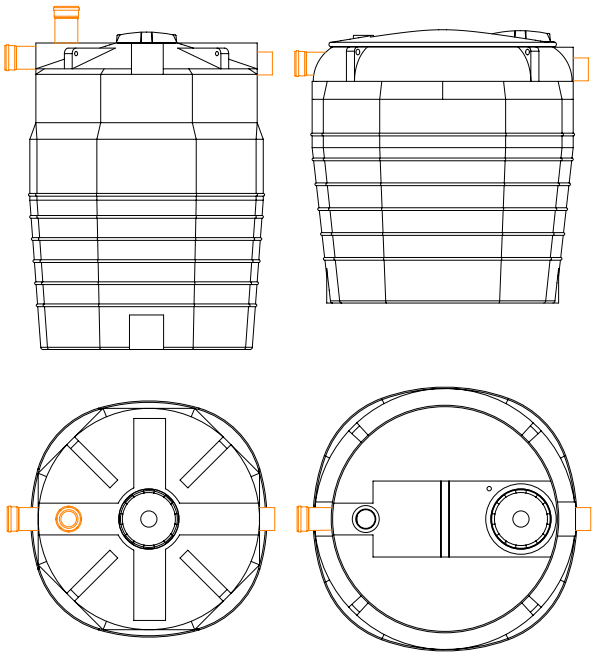
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Separate)





ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 700/C	Public sewer Surface water	700	**2400**	13,61	ECO SED 3000	3107	ECO DEO 17/C NEW	2250	5357	125	**4.275,21**
ECO IC 700/CF	Soil						ECO DEO 17/CF NEW				**4.551,11**

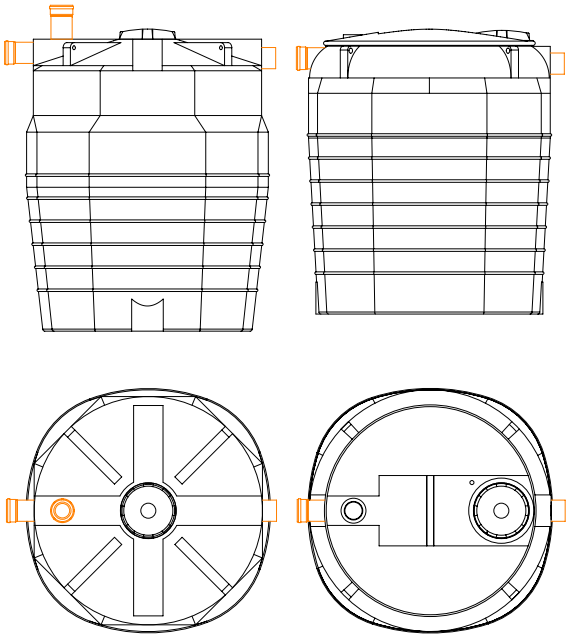




ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 1000/C	Public sewer Surface water	1000	**3500**	19,44	ECO SED 4000	4200	ECO DEO 22/C NEW	3000	7200	160	**5.447,49**
ECO IC 1000/CF	Soil						ECO DEO 22/CF NEW				**5.730,57**

CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Separate)





ITEM	RECEIVING BODY	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	GRIT CHAMBER		OIL SEPARATOR		VOLUME TOT.	ø IN/OUT (mm)	€
					Model	Volume (liters)	Model	Volume (liters)			
ECO IC 1200/C	Public sewer Surface water	1200	**4200**	23,33	ECO SED 5000	5110	ECO DEO 28/C NEW	3750	8860	160	**6.348,49**
ECO IC 1200/CF	Soil						ECO DEO 28/CF NEW				**6.619,97**

MONOBLOCK CONTINUOUS-FLOW SYSTEMS

CONTINUOUS-FLOW GRIT CHAMBERS - OIL SEPARATORS: Telcom S.p.A. provides a grit and oil separation process as continuous treatment of stormwater "for drainage surfaces used only for vehicle transit, parking or stopping, and for handling and storing non-hazardous materials". Telcom grit-oil separators work by means of physical processes based on reducing the speed of the wastewater. By providing a calm zone, the substances present, which have a specific gravity different from that of water, rise by flotation or settle on the bottom under the force of gravity. The process is helped by the compartments of the units: oils and settleable substances accumulate in the first compartments, while the wastewater is progressively clarified in the following ones.





SAFETY CHAMBER BY-PASS OPTIONAL available on p. 194

PRODUCT SELECTION: given the many variables involved in a rain event (intensity and duration, characteristics of the drainage surface and drainage network, types of hydrocarbons of different origin and nature), TELCOM recommends always carrying out an accurate analysis of the areas to be treated and of the local rainfall pattern. Oil separators must be selected according to the average flow rate, considering a maximum rainfall coefficient. Always submit the technical solution to the competent authority for approval. TELCOM recommends:

- mod. ECO DEO/F for discharge into public sewers and surface water;

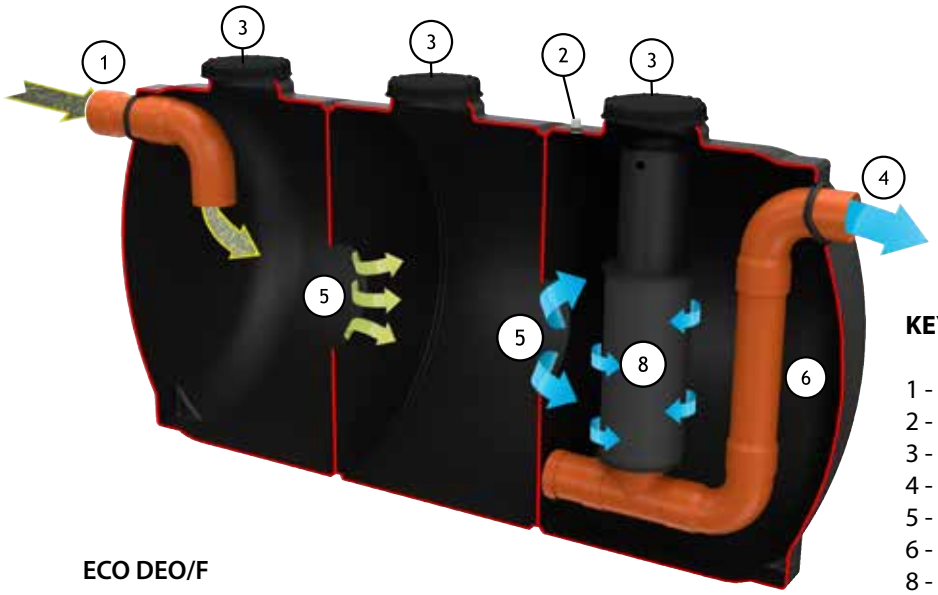
- mod. ECO DEO/CF for discharge onto soil.

Choosing larger volumes will allow the user to reduce the frequency of maintenance and removal of separated oils. This applies all the more to covered yards, for which no estimated flow rate is available, since runoff often depends on how and how often these surfaces are cleaned.

MONOBLOCK CONTINUOUS-FLOW SYSTEMS

ECODEO/F models have a polyurethane foam filter for further separation. These products are defined in EN 858/1 and 858/2 as CLASS I - coalescing separators - and provide higher efficiency for the same volume. They have a shut-off device to prevent accidental oil spills.

Download the data sheet



ECO DEO/F

With automatic shut-off device

KEY

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND MAINTENANCE LID
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
8 - POLYURETHANE FOAM FILTER

The figure on this page refers to the 15,000-liter model and is purely *indicative, for the sole purpose of illustrating how the product works.*



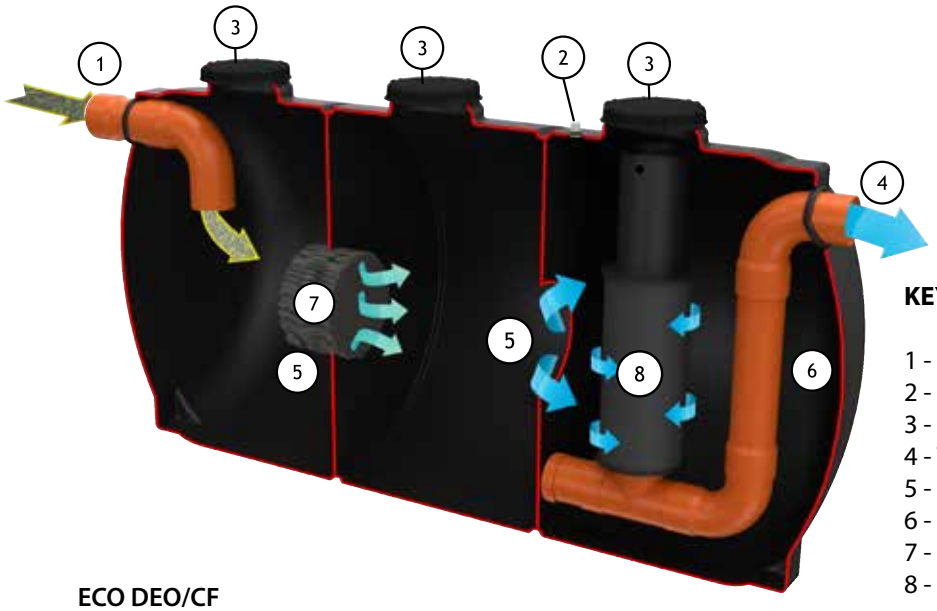
GENERAL TABLE
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)
Discharge into public sewer / surface water

ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 8500/F	Public sewer Surface water	8500	1500	**5200**	29,17	238	275	255	250	204	200	2	**11.031,07**
ECO DEO 10000/F		10000	2000	**7000**	38,89	225	320	243	315	185	181	2	**11.994,13**
ECO DEO 15000/F		15000	2700	**9500**	52,50	238	380	255	315	198	194	2	**15.244,66**
ECO DEO 20000/F		20000	3500	**12200**	68,06	238	508	255	315	198	194	2	**18.595,43**
ECO DEO 25000/F		25000	4300	**15000**	83,61	238	627	255	315	198	194	3	**22.528,72**
ECO DEO 30000/F		30000	5000	**18200**	97,22	238	746	255	315	198	194	3	**25.710,66**
ECO DEO 40000/F*		40000	6800	**23800**	132,22	238	979	255	400	189	185	4	**38.617,48**
ECO DEO 50000/F*		50000	7500	**26250**	145,83	238	12150	255	400	189	185	5	**46.627,58**

** With double coalescing filter and double automatic shut-off device*

Note: guaranteed detention time at least 4 minutes

ECODEO/CF models have, in addition to the lamellar pack, a polyurethane foam filter for further separation. These products are defined in EN 858/1 and 858/2 as CLASS I - coalescing separators - and provide higher efficiency for the same volume. They are recommended where limits are particularly strict and have a shut-off device to prevent accidental oil spills.



Download the data sheet

KEY

1 - WASTEWATER INLET
2 - BIOGAS VENT
3 - INSPECTION AND MAINTENANCE LID
4 - TREATED WATER OUTLET
5 - SEPARATION ZONE
6 - CLARIFIED WATER ZONE
7 - LAMELLAR PACK
8 - POLYURETHANE FOAM FILTER

ECO DEO/CF

Con dWith automatic shut-off device

The figure on this page refers to the 15,000-liter model and is purely *indicative, for the sole purpose of illustrating how the product works.*

LAMELLAR PACK (7)
Technical specifications:
Dimensions [mm]: 500x500x300
Exchange surface: 240 m^2/m^3



GENERAL TABLE
CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)
Soil discharge

ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 8500/CF	Soil	8500	1500	**5200**	29,17	238	275	255	250	204	200	2	**12.088,28**
ECO DEO 10000/CF		10000	2000	**7000**	38,89	225	320	243	315	185	181	2	**13.051,33**
ECO DEO 15000/CF		15000	2700	**9500**	52,50	238	380	255	315	198	194	2	**16.301,86**
ECO DEO 20000/CF		20000	3500	**12200**	68,06	238	508	255	315	198	194	2	**19.652,63**
ECO DEO 25000/CF		25000	4300	**15000**	83,61	238	627	255	315	198	194	3	**23.585,93**
ECO DEO 30000/CF		30000	5000	**18200**	97,22	238	746	255	315	198	194	3	**26.767,86**
ECO DEO 40000/CF*		40000	6800	**23800**	132,22	238	979	255	400	189	185	4	**39.674,68**
ECO DEO 50000/CF*		50000	7500	**26250**	145,83	238	12150	255	400	189	185	5	**47.684,78**

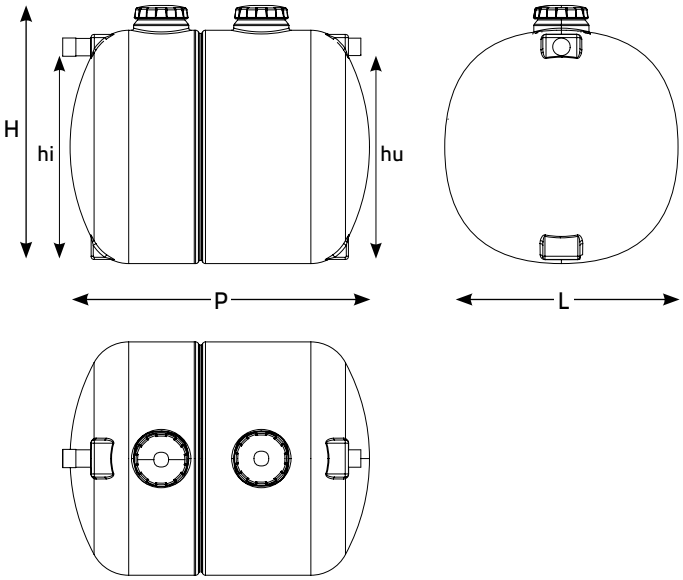
** With double coalescing filter and double automatic shut-off device*

Note: guaranteed detention time at least 4 minutes

CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)

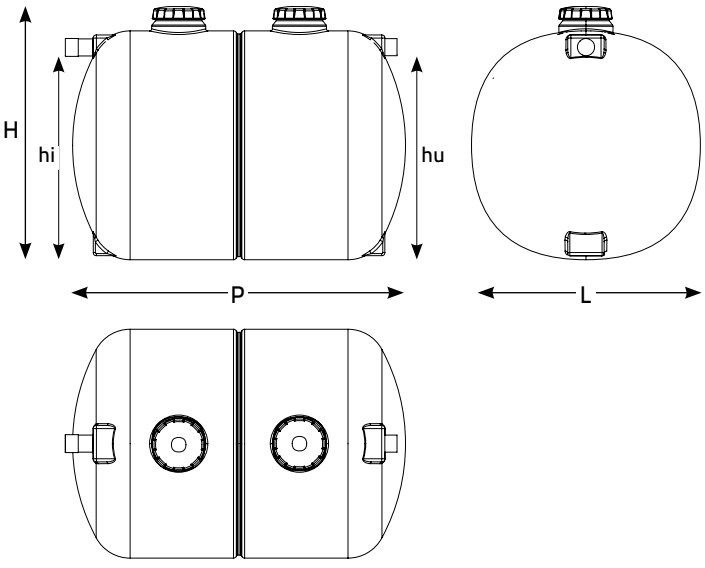
Note: guaranteed detention time at least 4 minutes





ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 8500/F	Public sewer Surface water	8500	1500	**5200**	29,17	238	275	255	250	189	185	2	**11.031,07**
ECO DEO 8500/CF	Soil												**12.088,28**



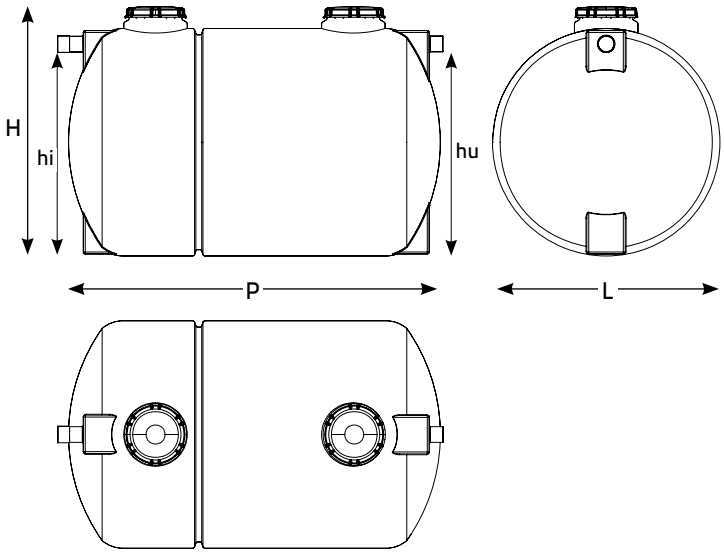


ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 10000/F	Public sewer Surface water	10000	2000	**7000**	38,89	255	320	243	315	185	181	2	**11.994,13**
ECO DEO 10000/CF	Soil												**13.051,33**

CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)

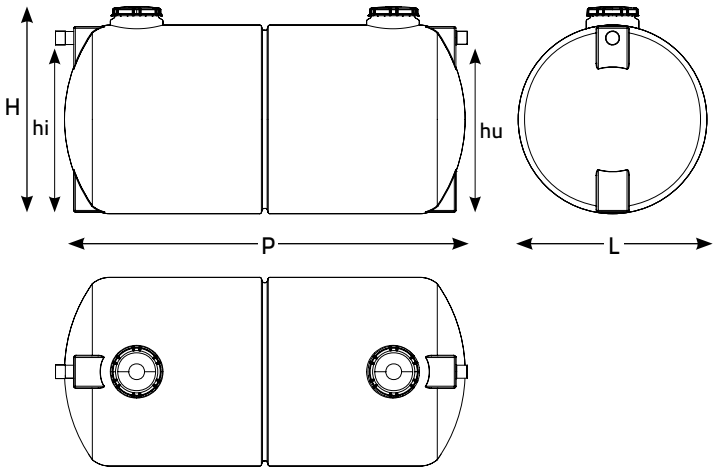
Note: guaranteed detention time at least 4 minutes





ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 15000/F	Public sewer Surface water	15000	2700	**9500**	52,50	238	380	255	315	198	194	2	**15.244,66**
ECO DEO 15000/CF	Soil												**16.301,86**



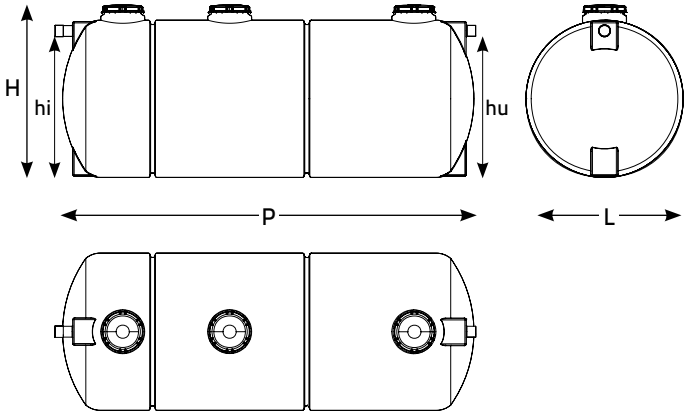


ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 20000/F	Public sewer Surface water	20000	3500	**12200**	68,06	238	508	255	315	198	194	2	**18.595,43**
ECO DEO 20000/CF	Soil												**19.652,63**

CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)

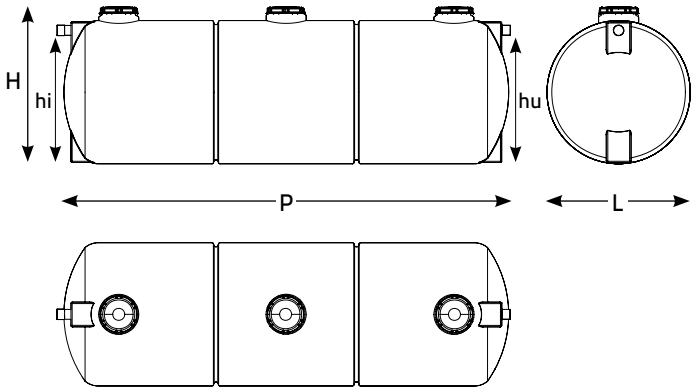
Note: guaranteed detention time at least 4 minutes





ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 25000/F	Public sewer Surface water	25000	4300	**15000**	83,61	238	627	255	315	198	194	3	**22.528,72**
ECO DEO 25000/CF	Soil												**23.585,93**



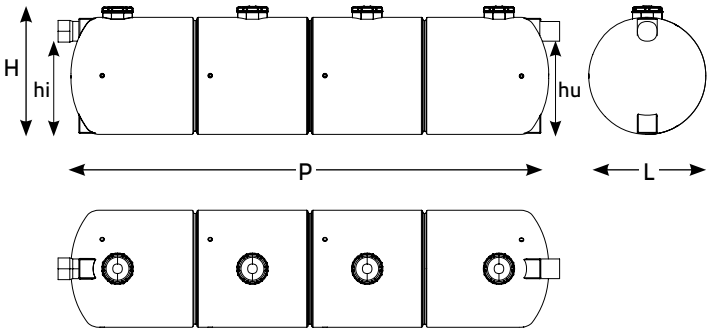


ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 30000/F	Public sewer Surface water	30000	5000	**18200**	97,22	238	746	255	315	198	194	3	**25.710,66**
ECO DEO 30000/CF	Soil												**26.767,86**

CONTINUOUS-FLOW STORMWATER RUNOFF TREATMENT SYSTEMS (Monoblock)

Note: guaranteed detention time at least 4 minutes

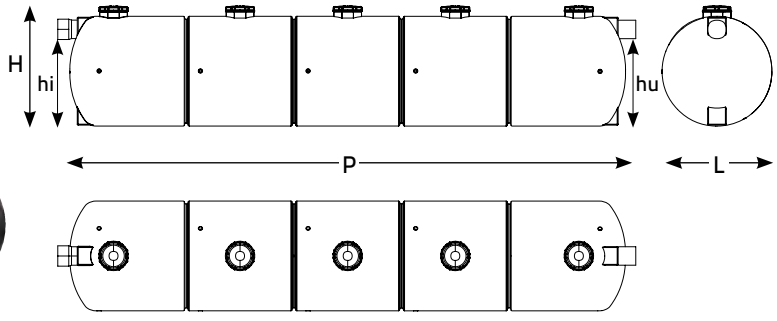




ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 40000/F*	Public sewer Surface water	40000	6800	**23800**	132,22	238	979	255	400	189	185	4	**38.617,48**
ECO DEO 40000/CF*	Soil												**39.674,68**

** With double coalescing filter and double automatic shut-off device*





ITEM	RECEIVING BODY	CAPACITY (liters)	AREA (m^2) Flow 70 mm/h	AREA (m^2) Flow 20 mm/h	FLOW (l/sec.)	L (cm)	P (cm)	H (cm)	ø IN/OUT (mm)	hi (cm)	hu (cm)	Number of lids ø 550	€
ECO DEO 50000/F*	Public sewer Surface water	50000	7500	**26250**	145,83	238	12150	255	400	189	185	5	**46.627,58**
ECO DEO 50000/CF*	Soil												**47.684,78**

** With double coalescing filter and double automatic shut-off device*

FIRST-FLUSH SYSTEMS

FIRST-FLUSH SYSTEMS are suitable where current regulations require the separation and storage of first-flush water from the runoff of yards or impermeable surfaces.
The systems consist of the following elements:

- Overflow chamber: separates the first-flush water, sent to the storage tank, from the subsequent water, sent to the receiving body through the by-pass pipe.

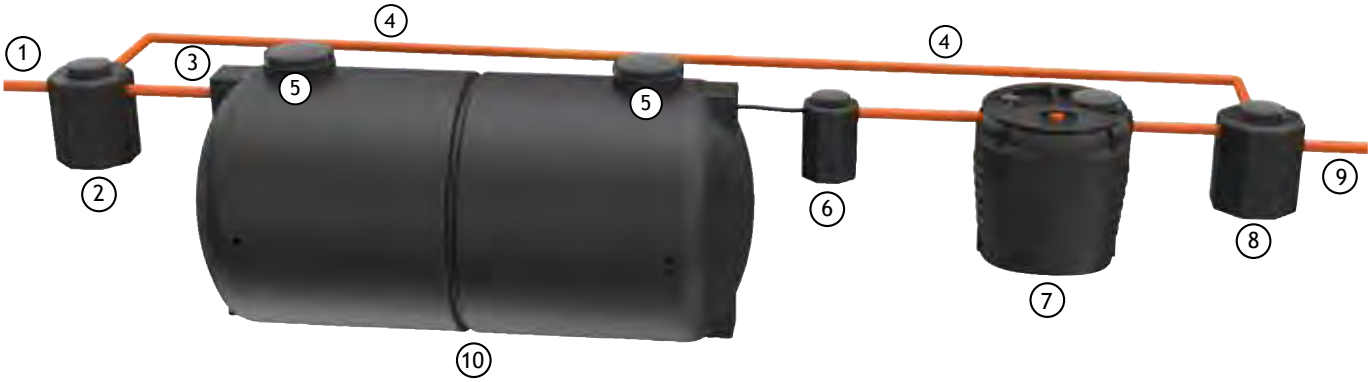
- Storage tank: collects the first-flush water, which is treated 48* hours after the end of the last rain event. The first-flush tank is sized for the first 5 mm of rain falling on the equivalent impermeable drainage surface.
*The time after which first-flush water must be discharged varies according to local regulations, so it can be set with a timer.

- Oil separator: separates non-emulsified oils. Always submit the technical solution to the competent authority for approval. TELCOM recommends:
- mod. ECO DEO/C for discharge into public sewers and surface water;
- mod. ECO DEO/CF for discharge onto soil.

- Junction chamber: where first-flush and second-flush water converge before discharge.

The system automation is managed by a control panel, included in the supply.





PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP and electric float switch

TELCOM recommends always carrying out an accurate analysis of the areas to be treated and of the local rainfall pattern, given the many variables involved in a rain event - intensity and duration, characteristics of the drainage surface and drainage network, types of hydrocarbons of different origin and nature.

Please contact our Technical Department if:

- in addition to oil separation, grit separation or the removal of specific pollutants by pressure filtration or chemical-physical treatment is required;

- the competent authority requires treatment of the water following the first flush.

Download the data sheet





GENERAL TABLE
FIRST-FLUSH SYSTEMS
Discharge into Public Sewer and Surface Water (C)

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (2)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (3)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 400/C	Public sewer Surface water	400	125	100	L48xP48xH75	2000	L136xP155xH144	ECO DEO 5/C NEW	0,25	**5.176,68**
ECO IPP 600/C		600	125	100	L48xP48xH75	3000	L160xP185xH166	ECO DEO 5/C NEW	0,25	**5.705,76**
ECO IPP 1000/C		1000	160	100	L48xP48xH75	5000	L184xP184xH229	ECO DEO 7/C NEW	0,25	**6.354,28**
ECO IPP 1500/C		1500	200	100	L48xP48xH75	7500	L189xP318xH201	ECO DEO 7/C NEW	0,25	**8.806,69**
ECO IPP 2000/C		2000	200	300	L73xP73xH82	10000	L238xP275xH255	ECO DEO 7/C NEW	0,25	**10.607,34**
ECO IPP 3000/C		3000	250	300	L73xP73xH82	15000	L238xP390xH255	ECO DEO 11/C NEW	0,25	**14.248,23**
ECO IPP 4000/C		4000	250	300	L73xP73xH82	20000	L238xP508xH255	ECO DEO 17/C NEW	0,25	**18.174,39**
ECO IPP 5000/C		5000	315	500	L68xP87xH116	25000	L238xP627xH255	ECO DEO 17/C NEW	0,25	**22.313,73**
ECO IPP 6000/C		6000	315	500	L68xP87xH116	30000	L238xP743xH255	ECO DEO 22/C NEW	0,25	**26.074,24**
ECO IPP 7000/C		7000	315	500	L68xP87xH116	35000	L238xP862xH255	ECO DEO 22/C NEW	0,25	**30.797,05**
ECO IPP 8000/C		8000	315	500	L68xP87xH116	40000	L238xP979xH255	ECO DEO 22/C NEW	0,25	**33.703,40**
ECO IPP 9000/C		9000	315	500	L68xP87xH116	45000	L238xP1098xH255	ECO DEO 22/C NEW	0,25	**39.879,41**
ECO IPP 10000/C		10000	315	500	L68xP87xH116	50000	L238xP1215xH255	ECO DEO 22/C NEW	0,25	**43.724,39**

(1) Area assessed assuming a runoff coefficient of 1 (corresponding to impermeable drainage surfaces).

(2) Check that the pipe diameter is suitable for the expected flow rate.

(3) To reduce the frequency of oil separator cleaning, Telcom Spa is available to size a larger oil separator.

Note: for larger surfaces contact our Technical Department or our Sales Network.

Download the data sheet





GENERAL TABLE
FIRST-FLUSH SYSTEMS
Soil Discharge (CF)

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (2)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (3)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 400/CF	Soil	400	125	100	L48xP48xH75	2000	L136xP155xH144	ECO DEO 5/CF NEW	0,25	**5.375,49**
ECO IPP 600/CF		600	125	100	L48xP48xH75	3000	L160xP185xH166	ECO DEO 5/CF NEW	0,25	**5.904,56**
ECO IPP 1000/CF		1000	160	100	L48xP48xH75	5000	L184xP184xH229	ECO DEO 7/CF NEW	0,25	**6.545,76**
ECO IPP 1500/CF		1500	200	100	L48xP48xH75	7500	L189xP318xH201	ECO DEO 7/CF NEW	0,25	**9.331,76**
ECO IPP 2000/CF		2000	200	300	L73xP73xH82	10000	L238xP275xH255	ECO DEO 7/CF NEW	0,25	**10.798,84**
ECO IPP 3000/CF		3000	250	300	L73xP73xH82	15000	L238xP390xH255	ECO DEO 11/CF NEW	0,25	**14.436,58**
ECO IPP 4000/CF		4000	250	300	L73xP73xH82	20000	L238xP508xH255	ECO DEO 17/CF NEW	0,25	**18.444,55**
ECO IPP 5000/CF		5000	315	500	L68xP87xH116	25000	L238xP627xH255	ECO DEO 17/CF NEW	0,25	**22.583,86**
ECO IPP 6000/CF		6000	315	500	L68xP87xH116	30000	L238xP743xH255	ECO DEO 22/CF NEW	0,25	**26.344,40**
ECO IPP 7000/CF		7000	315	500	L68xP87xH116	35000	L238xP862xH255	ECO DEO 22/CF NEW	0,25	**31.080,13**
ECO IPP 8000/CF		8000	315	500	L68xP87xH116	40000	L238xP979xH255	ECO DEO 22/CF NEW	0,25	**33.986,48**
ECO IPP 9000/CF		9000	315	500	L68xP87xH116	45000	L238xP1098xH255	ECO DEO 22/CF NEW	0,25	**40.162,49**
ECO IPP 10000/CF		10000	315	500	L68xP87xH116	50000	L238xP1215xH255	ECO DEO 22/CF NEW	0,25	**44.007,47**

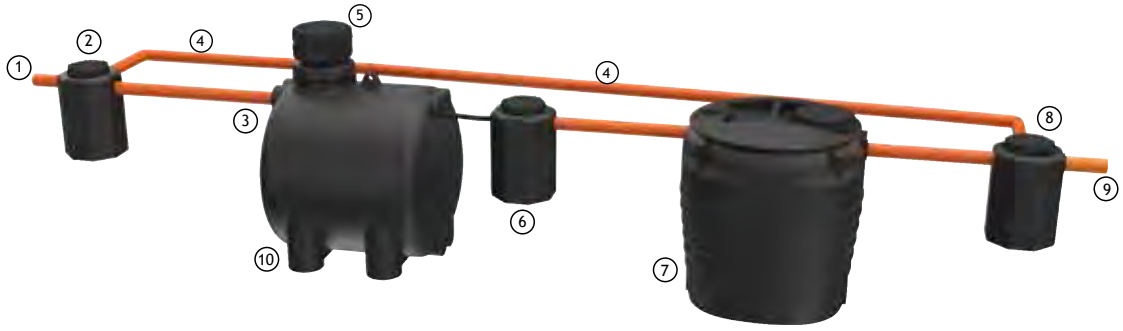
(1) Area assessed assuming a runoff coefficient of 1 (corresponding to impermeable drainage surfaces).

(2) Check that the pipe diameter is suitable for the expected flow rate.

(3) To reduce the frequency of oil separator cleaning, Telcom Spa is available to size a larger oil separator.

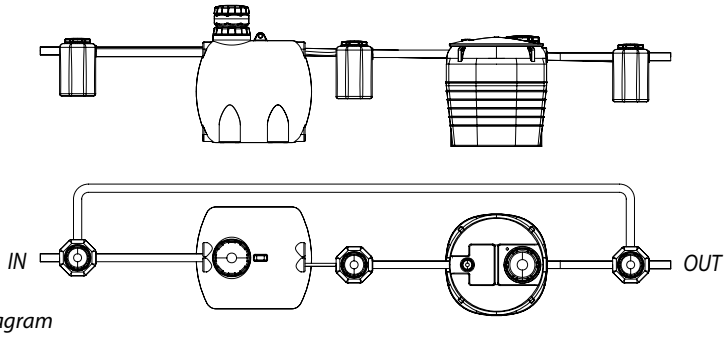
Note: for larger surfaces contact our Technical Department or our Sales Network.

FIRST-FLUSH SYSTEMS



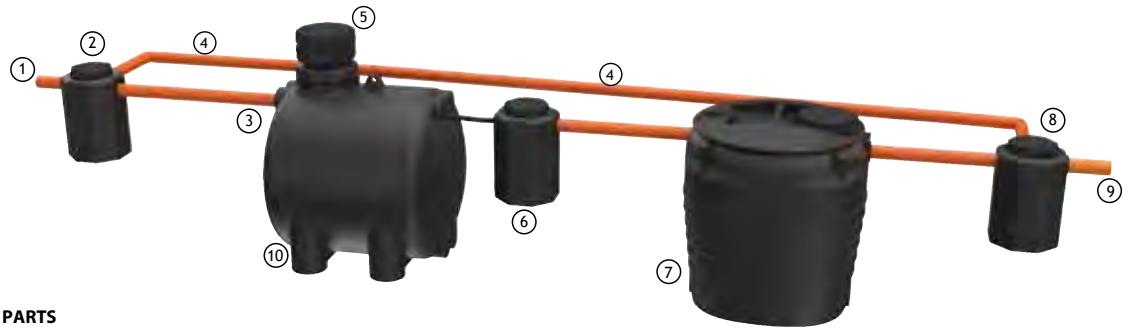
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP and electric float switch
(Piping NOT INCLUDED)



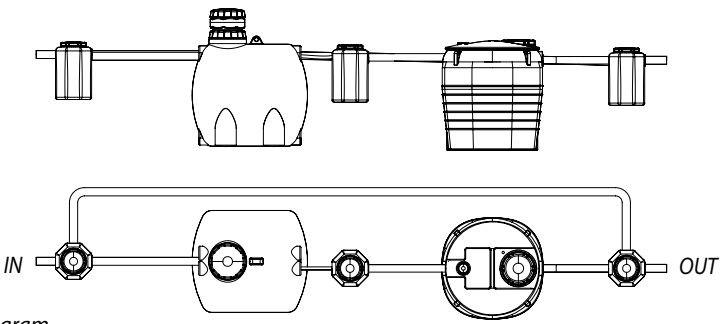
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 400/C	Public sewer Surface water	400	125	100	L48xP48xH75	2000	L136xP155xH144	ECO DEO 5/C NEW	0,25	**5.176,68**
ECO IPP 400/CF	Soil							ECO DEO 5/CF NEW	0,25	**5.375,49**



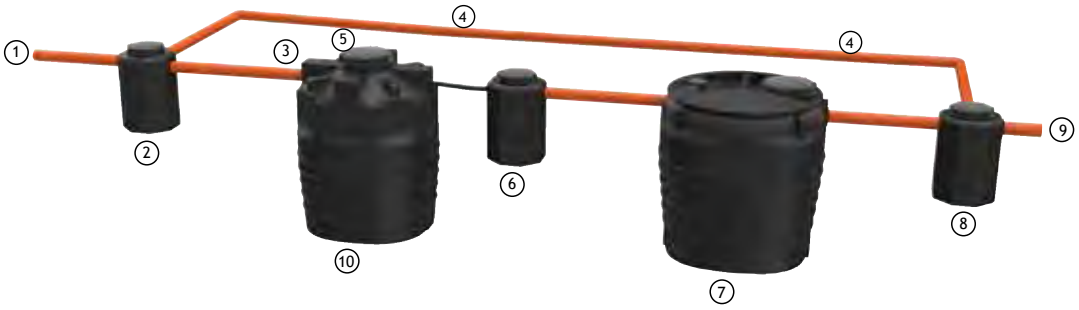
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP and electric float switch
(Piping NOT INCLUDED)



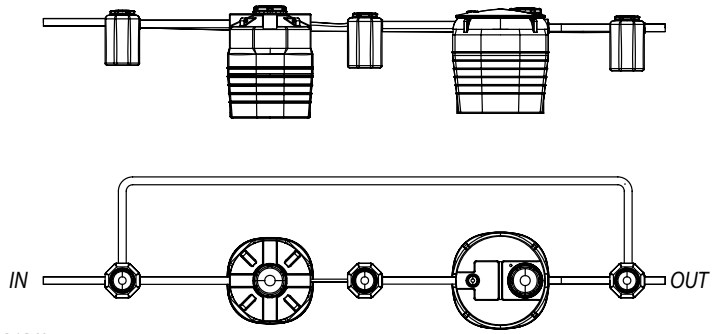
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 600/C	Public sewer Surface water	600	125	100	L48xP48xH75	3000	L160xP185xH166	ECO DEO 5/C NEW	0,25	**5.705,76**
ECO IPP 600/CF	Soil							ECO DEO 5/CF NEW	0,25	**5.904,56**



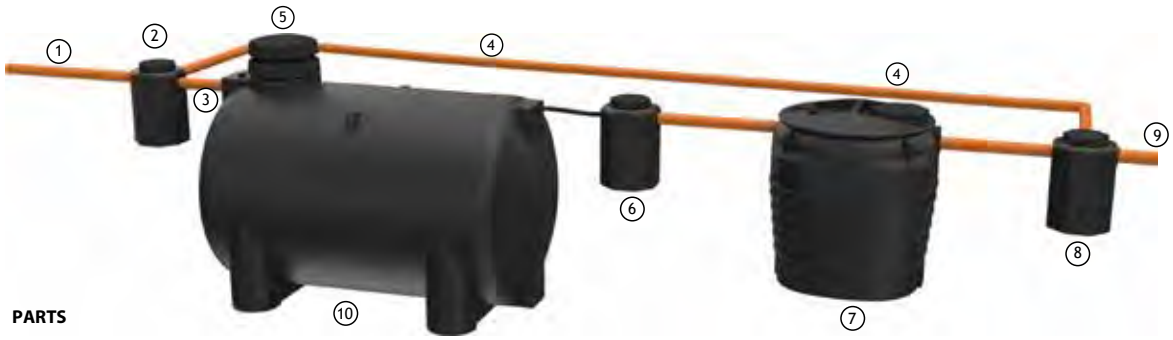
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
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8 - JUNCTION CHAMBER
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10 - STORAGE with ELECTRIC PUMP and electric float switch
(Piping NOT INCLUDED)



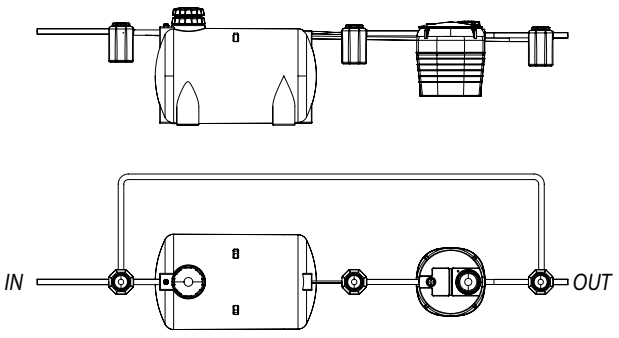
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 1000/C	Public sewer Surface water	1000	160	100	L48xP48xH75	5000	L184xP184xH229	ECO DEO 7/C NEW	0,25	**6.354,28**
ECO IPP 1000/CF	Soil							ECO DEO 7/CF NEW	0,25	**6.545,76**



PARTS

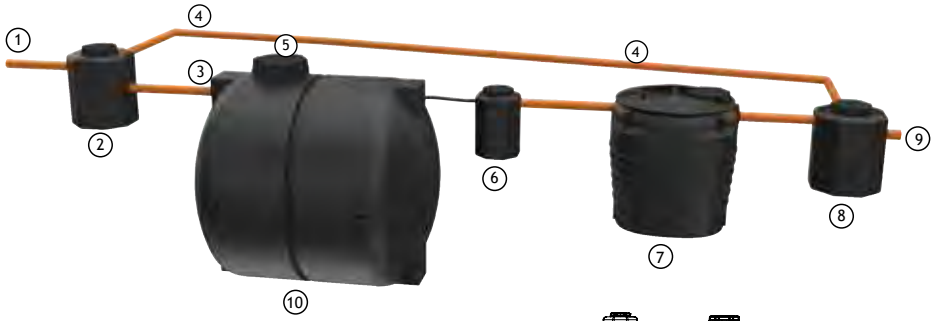
1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP and electric float switch
(Piping NOT INCLUDED)



indicative diagram

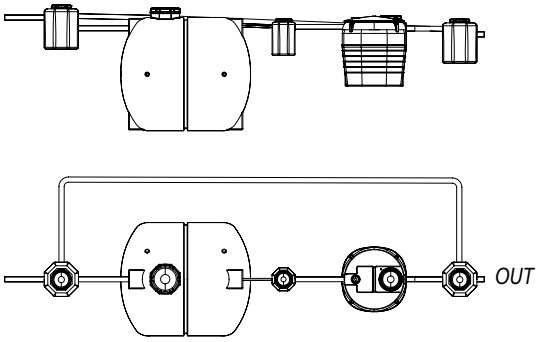
ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 1500/C	Public sewer Surface water	1500	200	100	L48xP48xH75	7500	L189xP318xH201	ECO DEO 7/C NEW	0,25	**8.806,69**
ECO IPP 1500/CF	Soil							ECO DEO 7/CF NEW	0,25	**9.331,76**

FIRST-FLUSH SYSTEMS



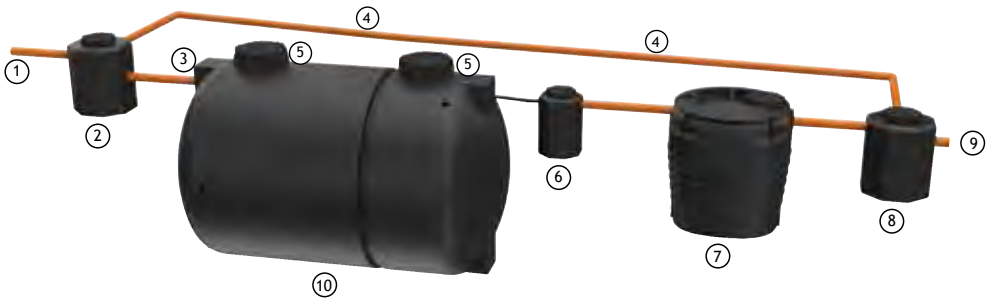
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
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7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



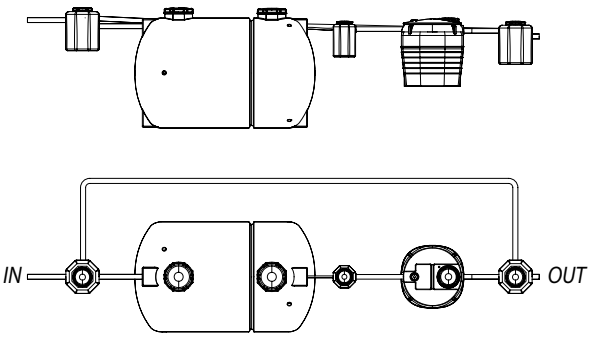
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 2000/C	Public sewer Surface water	2000	200	300	L73xP73xH82	10000	L238xP275xH255	ECO DEO 7/C NEW	0,25	**10.607,34**
ECO IPP 2000/CF	Soil							ECO DEO 7/CF NEW	0,25	**10.798,84**



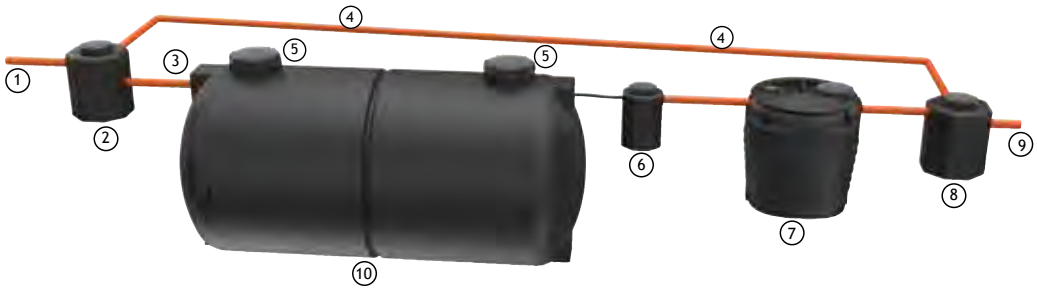
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
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10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



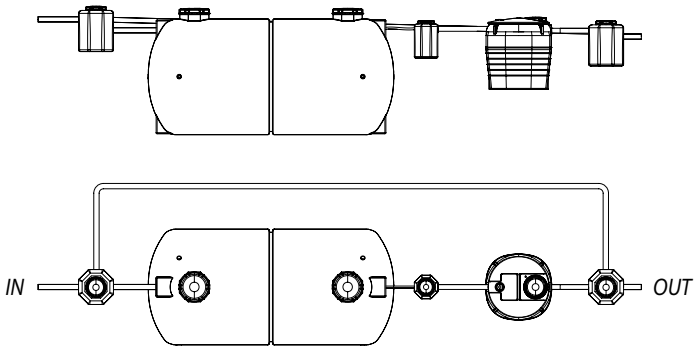
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 3000/C	Public sewer Surface water	3000	250	300	L73xP73xH82	15000	L238xP390xH255	ECO DEO 11/C NEW	0,25	**14.248,23**
ECO IPP 3000/CF	Soil							ECO DEO 11/CF NEW	0,25	**14.436,58**



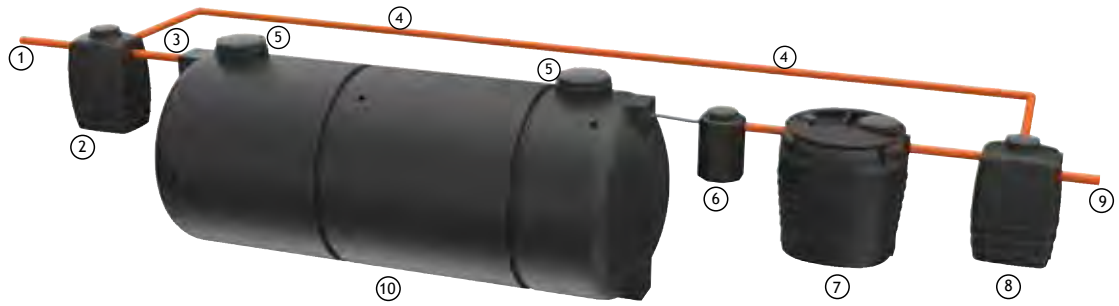
PARTS

1 - STORMWATER INLET
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3 - FIRST-FLUSH STORAGE INLET
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and electric float switch
(Piping NOT INCLUDED)



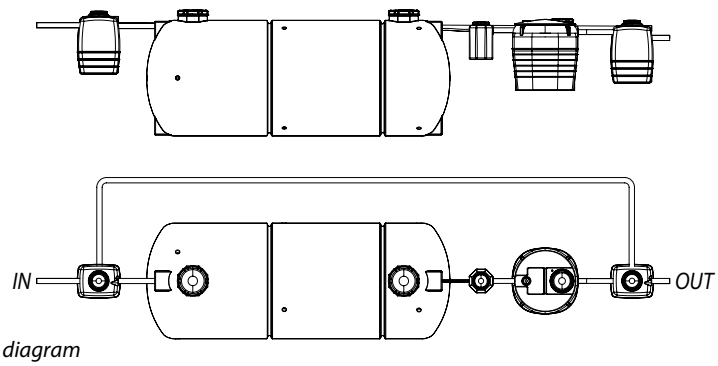
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 4000/C	Public sewer Surface water	4000	250	300	L73xP73xH82	20000	L238xP508xH255	ECO DEO 17/C NEW	0,25	**18.174,39**
ECO IPP 4000/CF	Soil							ECO DEO 17/CF NEW	0,25	**18.444,55**



PARTS

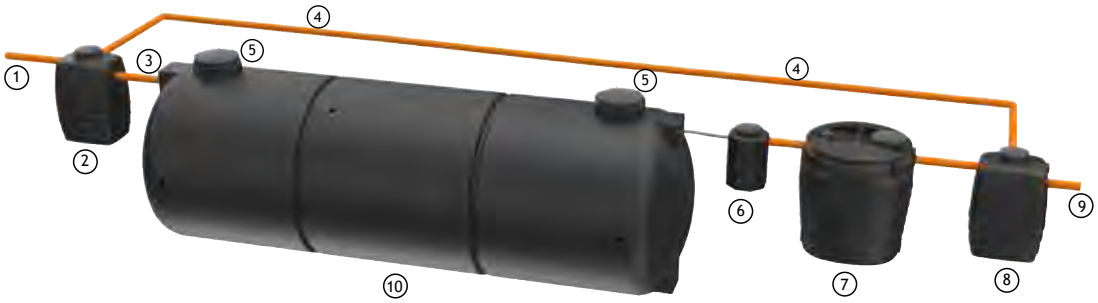
1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
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8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



indicative diagram

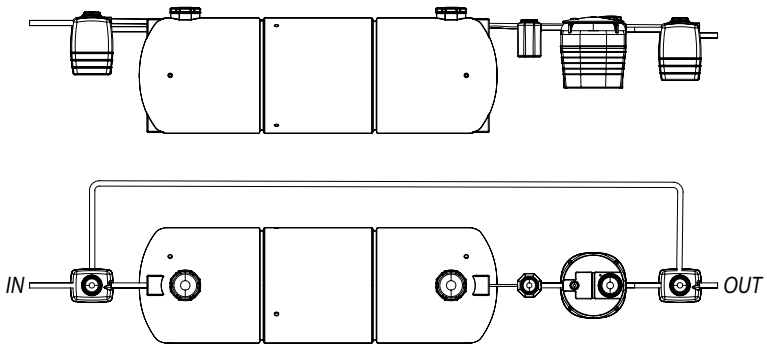
ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 5000/C	Public sewer Surface water	5000	315	500	L68xP87xH116	25000	L238xP627xH255	ECO DEO 17/C NEW	0,25	**22.313,73**
ECO IPP 5000/CF	Soil							ECO DEO 17/CF NEW	0,25	**22.583,86**

FIRST-FLUSH SYSTEMS



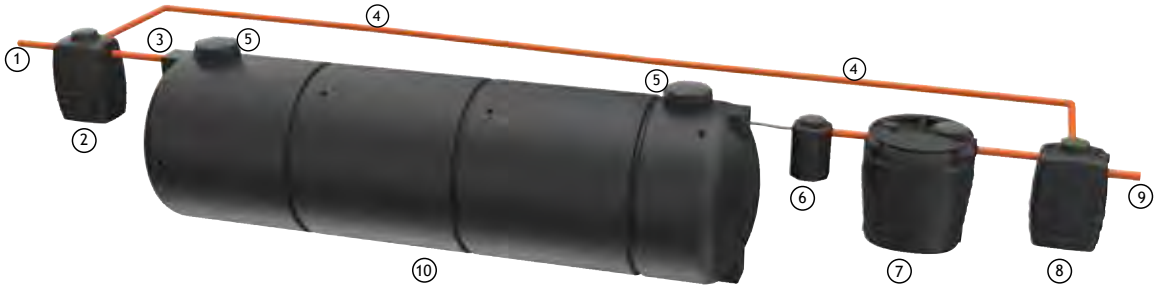
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
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7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



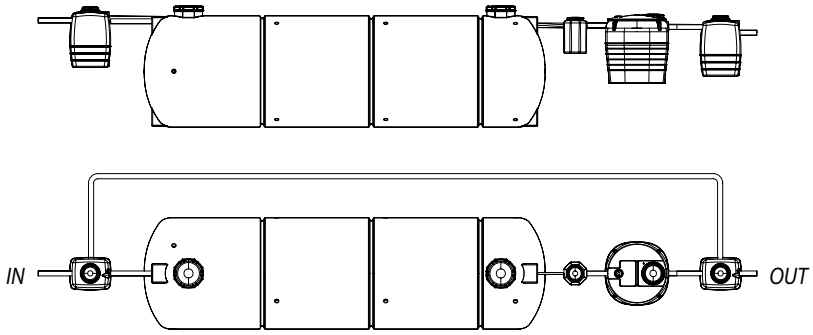
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 6000/C	Public sewer Surface water	6000	315	500	L68xP87xH116	30000	L238xP743xH255	ECO DEO 22/C NEW	0,25	**26.074,24**
ECO IPP 6000/CF	Soil							ECO DEO 22/CF NEW	0,25	**26.344,40**



PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



indicative diagram

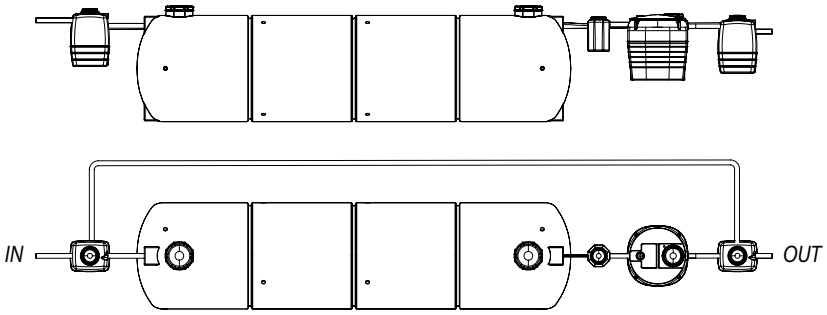
ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 7000/C	Public sewer Surface water	7000	315	500	L68xP87xH116	35000	L238xP862xH255	ECO DEO 22/C NEW	0,25	**30.797,05**
ECO IPP 7000/CF	Soil							ECO DEO 22/CF NEW	0,25	**31.080,13**

FIRST-FLUSH SYSTEMS



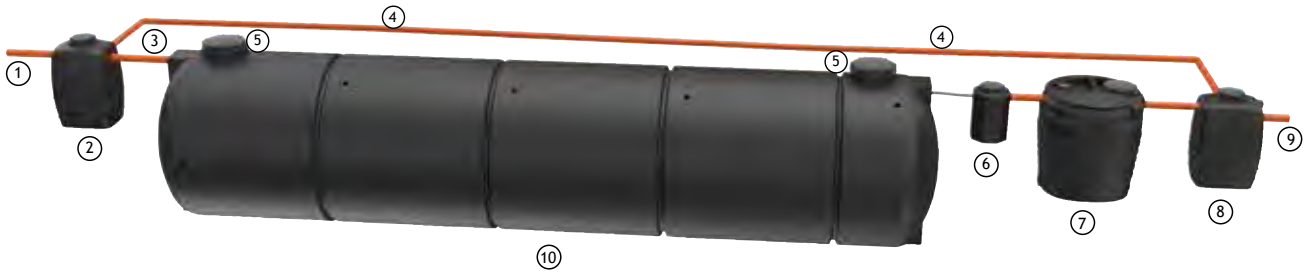
PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
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10 - STORAGE with ELECTRIC PUMP
and electric float switch
(Piping NOT INCLUDED)



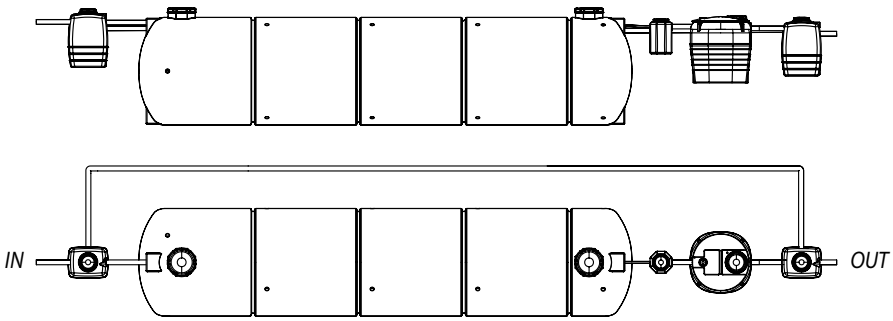
indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 8000/C	Public sewer Surface water	8000	315	500	L68xP87xH116	40000	L238xP979xH255	ECO DEO 22/C NEW	0,25	**33.703,40**
ECO IPP 8000/CF	Soil							ECO DEO 22/CF NEW	0,25	**33.986,48**



PARTS

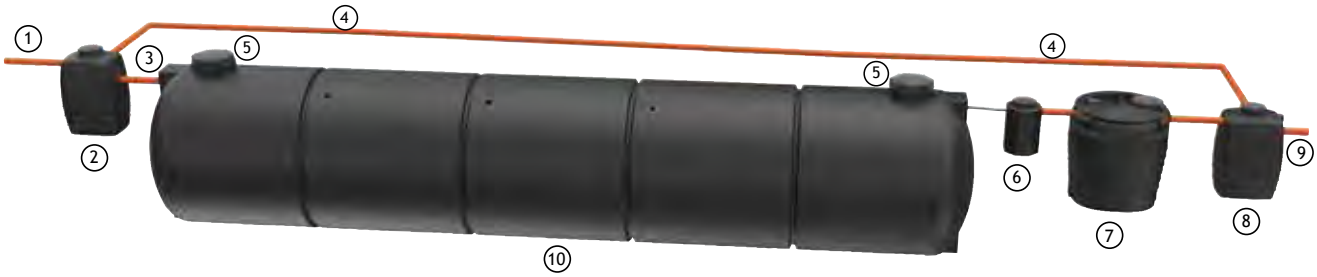
1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
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8 - JUNCTION CHAMBER
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and electric float switch
(Piping NOT INCLUDED)



indicative diagram

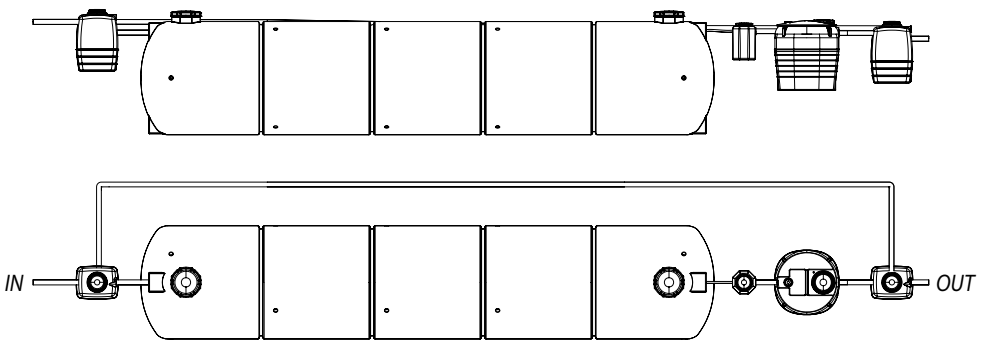
ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 9000/C	Public sewer Surface water	9000	315	500	L68xP87xH116	45000	L238xP1098xH255	ECO DEO 22/C NEW	0,25	**39.879,41**
ECO IPP 9000/CF	Soil							ECO DEO 22/CF NEW	0,25	**40.162,49**

FIRST-FLUSH SYSTEMS



PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3 - FIRST-FLUSH STORAGE INLET
4 - SYSTEM BY-PASS
5 - INSPECTION AND MAINTENANCE LID
6 - CALMING CHAMBER
7 - OIL SEPARATION UNIT
8 - JUNCTION CHAMBER
9 - SYSTEM OUTLET
10 - STORAGE with ELECTRIC PUMP and electric float switch
(Piping NOT INCLUDED)



indicative diagram

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (3)	Overflow and diversion CHAMBER		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
ECO IPP 10000/C	Public sewer Surface water	10000	315	500	L68xP87xH116	50000	L238xP1215xH255	ECO DEO 22/C NEW	0,25	**43.724,39**
ECO IPP 10000/CF	Soil							ECO DEO 22/CF NEW	0,25	**44.007,47**

PREMIUM FIRST-FLUSH SYSTEMS

The PREMIUM version of the FIRST-FLUSH SYSTEMS features:



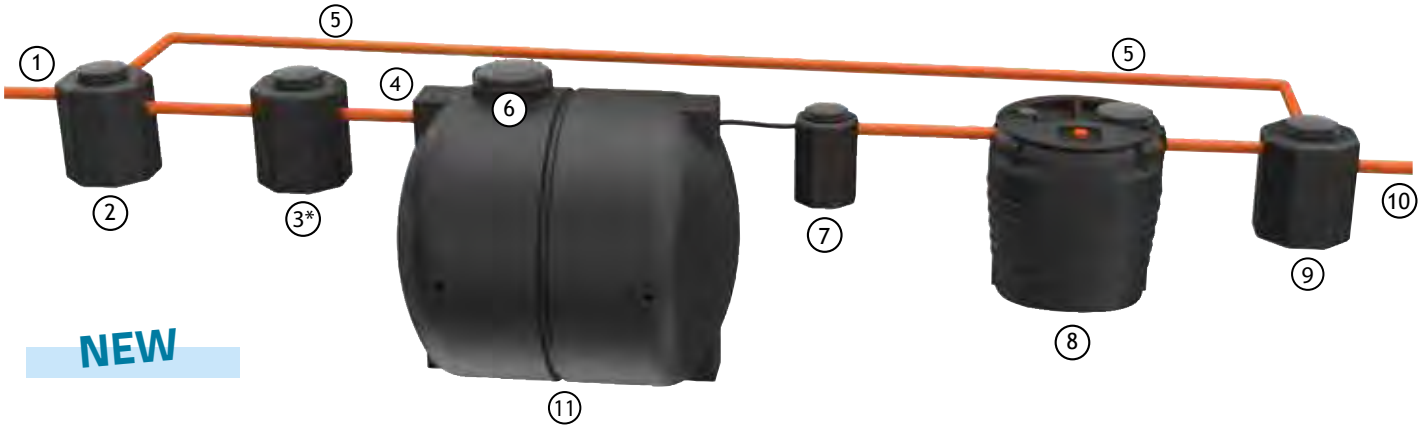
VALVE

Automatic butterfly valve with electric actuator, controlled by the control panel, which closes when the first-flush storage tank is full and reopens (only after 48 dry hours).



CONTROL PANEL + RAIN SENSOR

- Control panel for managing the automation.
- Resistive rain sensor with integrated heating element: detects rainfall through the change in electrical conductivity on the sensitive surface and uses an internal heater to prevent false positives caused by condensation, dew or residual moisture.



PARTS

1 - STORMWATER INLET
2 - OVERFLOW CHAMBER WITH RAIN SENSOR
3* - VALVE CHAMBER FOR AUTOMATIC VALVE UP TO ø200
4 - FIRST-FLUSH STORAGE INLET
5 - SYSTEM BY-PASS
6 - INSPECTION AND MAINTENANCE LID
7 - CALMING CHAMBER
8 - OIL SEPARATION UNIT
9 - JUNCTION CHAMBER
10 - SYSTEM OUTLET
11 - STORAGE with ELECTRIC PUMP and electric float switch

* For larger diameters only the automatic valve is supplied; the valve chamber is not included in the supply and must be provided by the customer.

TELCOM recommends always carrying out an accurate analysis of the areas to be treated and of the local rainfall pattern, given the many variables involved in a rain event - intensity and duration, characteristics of the drainage surface and drainage network, types of hydrocarbons of different origin and nature.

Please contact our Technical Department if:

- in addition to oil separation, grit separation or the removal of specific pollutants by pressure filtration or chemical-physical treatment is required;

- the competent authority requires treatment of the water following the first flush.

FIRST-FLUSH SYSTEMS - PREMIUM



NEW



GENERAL TABLE
PREMIUM FIRST-FLUSH SYSTEMS
Discharge into Public Sewer and Surface Water (C)

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (2)	Overflow and diversion CHAMBER		VALVE CHAMBER (3)		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	ø Valve	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
IPP 400/C P	Public sewer Surface water	400	125	100	L48xP48xH75	125	L73xP73xH82	2000	L136xP155xH144	ECO DEO 5/C NEW	0,30	**9.434,09**
IPP 600/C P		600	125	100	L48xP48xH75	125	L73xP73xH82	3000	L160xP185xH166	ECO DEO 5/C NEW	0,30	**10.726,02**
IPP 1000/C P		1000	160	100	L48xP48xH75	160	L73xP73xH82	5000	L184xP184xH229	ECO DEO 7/C NEW	0,30	**11.506,28**
IPP 1500/C P		1500	200	100	L48xP48xH75	200	L73xP73xH82	7500	L189xP318xH201	ECO DEO 7/C NEW	0,33	**16.009,89**
IPP 2000/C P		2000	200	300	L73xP73xH82	200	L73xP73xH82	10000	L238xP275xH255	ECO DEO 7/C NEW	0,33	**17.810,54**
IPP 3000/C P		3000	250	300	L73xP73xH82	250	Not supplied	15000	L238xP390xH255	ECO DEO 11/C NEW	0,33	**21.326,29**
IPP 4000/C P		4000	250	300	L73xP73xH82	250	Not supplied	20000	L238xP508xH255	ECO DEO 17/C NEW	0,33	**25.252,45**
IPP 5000/C P		5000	315	500	L68xP87xH116	315	Not supplied	25000	L238xP627xH255	ECO DEO 17/C NEW	0,32	**30.682,86**
IPP 6000/C P		6000	315	500	L68xP87xH116	315	Not supplied	30000	L238xP743xH255	ECO DEO 22/C NEW	0,32	**34.443,37**
IPP 7000/C P		7000	315	500	L68xP87xH116	315	Not supplied	35000	L238xP862xH255	ECO DEO 22/C NEW	0,32	**39.166,18**
IPP 8000/C P		8000	315	500	L68xP87xH116	315	Not supplied	40000	L238xP979xH255	ECO DEO 22/C NEW	0,32	**42.072,53**
IPP 9000/C P		9000	315	500	L68xP87xH116	315	Not supplied	45000	L238xP1098xH255	ECO DEO 22/C NEW	0,32	**48.248,54**
IPP 10000/C P		10000	315	500	L68xP87xH116	315	Not supplied	50000	L238xP1215xH255	ECO DEO 22/C NEW	0,32	**52.093,52**

(1) Area assessed assuming a runoff coefficient of 1 (corresponding to impermeable drainage surfaces).

(2) Check that the pipe diameter is suitable for the expected flow rate.

(3) The valve chamber is supplied for models from 400 to 2000; from 3000 to 10000 it must be provided by the customer.

(4) To reduce the frequency of oil separator cleaning, Telcom Spa is available to size a larger oil separator.

Note: for larger surfaces contact our Technical Department or our Sales Network.



NEW



GENERAL TABLE
FIRST-FLUSH SYSTEMS
Soil Discharge (CF)

ITEM	RECEIVING BODY	AREA YARD (m^2) (1)	PIPES ø IN/OUT (mm) (2)	Overflow and diversion CHAMBER		VALVE CHAMBER (3)		FIRST-FLUSH STORAGE		OIL SEPARATOR (4)	POWER kw	€
				Capacity (liters)	Dimensions (cm)	ø Valve	Dimensions (cm)	Capacity (liters)	Dimensions (cm)			
IPP 400/CF P	Soil	400	125	100	L48xP48xH75	125	L73xP73xH82	2000	L136xP155xH144	ECO DEO 5/CF NEW	0,30	**9.632,90**
IPP 600/CF P		600	125	100	L48xP48xH75	125	L73xP73xH82	3000	L160xP185xH166	ECO DEO 5/CF NEW	0,30	**10.924,82**
IPP 1000/CF P		1000	160	100	L48xP48xH75	160	L73xP73xH82	5000	L184xP184xH229	ECO DEO 7/CF NEW	0,30	**11.697,76**
IPP 1500/CF P		1500	200	100	L48xP48xH75	200	L73xP73xH82	7500	L189xP318xH201	ECO DEO 7/CF NEW	0,33	**16.534,96**
IPP 2000/CF P		2000	200	300	L73xP73xH82	200	L73xP73xH82	10000	L238xP275xH255	ECO DEO 7/CF NEW	0,33	**18.002,04**
IPP 3000/CF P		3000	250	300	L73xP73xH82	250	Not supplied	15000	L238xP390xH255	ECO DEO 11/CF NEW	0,33	**21.514,64**
IPP 4000/CF P		4000	250	300	L73xP73xH82	250	Not supplied	20000	L238xP508xH255	ECO DEO 17/CF NEW	0,33	**25.522,61**
IPP 5000/CF P		5000	315	500	L68xP87xH116	315	Not supplied	25000	L238xP627xH255	ECO DEO 17/CF NEW	0,32	**30.952,99**
IPP 6000/CF P		6000	315	500	L68xP87xH116	315	Not supplied	30000	L238xP743xH255	ECO DEO 22/CF NEW	0,32	**34.713,53**
IPP 7000/CF P		7000	315	500	L68xP87xH116	315	Not supplied	35000	L238xP862xH255	ECO DEO 22/CF NEW	0,32	**39.449,26**
IPP 8000/CF P		8000	315	500	L68xP87xH116	315	Not supplied	40000	L238xP979xH255	ECO DEO 22/CF NEW	0,32	**42.355,61**
IPP 9000/CF P		9000	315	500	L68xP87xH116	315	Not supplied	45000	L238xP1098xH255	ECO DEO 22/CF NEW	0,32	**48.531,62**
IPP 10000/CF P		10000	315	500	L68xP87xH116	315	Not supplied	50000	L238xP1215xH255	ECO DEO 22/CF NEW	0,32	**52.376,60**

(1) Area assessed assuming a runoff coefficient of 1 (corresponding to impermeable drainage surfaces).

(2) Check that the pipe diameter is suitable for the expected flow rate.

(3) The valve chamber is supplied for models from 400 to 2000; from 3000 to 10000 it must be provided by the customer.

(4) To reduce the frequency of oil separator cleaning, Telcom Spa is available to size a larger oil separator.

Note: for larger surfaces contact our Technical Department or our Sales Network.

NEW

STORMWATER DETENTION TANKS

In an increasingly unpredictable climate, proper management of rainfall peaks is not only a regulatory obligation but a choice of environmental responsibility. Telcom stormwater detention tanks are designed to prevent hydraulic risk: they act as a buffer that temporarily holds excess water and releases it at a constant, safe rate to the receiving body.



PARTS

1 - INLET
2 - OVERFLOW OUTLET
3 - DISCHARGE

Technology and Operation

Our detention tanks are made of linear polyethylene and consist of modules produced by rotational molding, designed for underground installation. The system works on a simple and effective physical principle: - Storage: rainwater is conveyed into the tank through a PVC pipe, sized to collect flows from impermeable surfaces such as roads, car parks and industrial roofs. - Controlled release: discharge takes place through a welded PE100 PN 16 pipe at the bottom. Its calibrated diameter acts as a flow regulator, temporarily holding the excess volume and gradually returning it to the network or natural receiving body. - Safety: each tank has an overflow pipe, essential for handling exceptional rain events in complete safety and preventing backflow upstream.

Design and Sizing

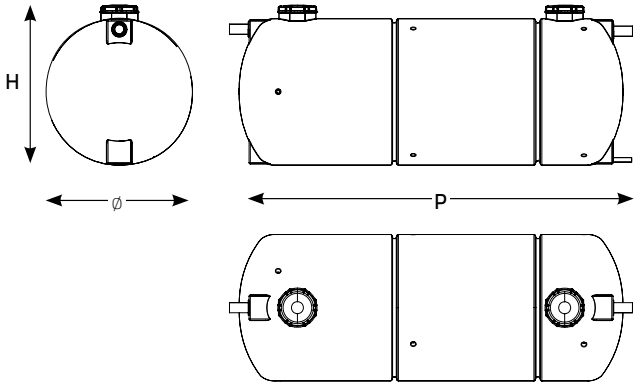
Correct sizing of the system is a fundamental technical task that must be entrusted to a qualified professional. The calculation identifies precisely the two key design parameters:

1. The useful volume of the storage tank.
2. The diameter of the discharge pipe (corresponding to the maximum permitted flow rate).

In addition to hydraulic engineering manuals, the designer must refer to the specific local regulations that define the hydraulic invariance parameters.

NEW





STORMWATER DETENTION TANKS from 10000 to 60000 liters A

Item	Capacity (liters)	Vent *	Dimensions (cm)			Lid ø (mm)	Compatible turret	€
			H	ø	P			
VSC LAM 10000	10000		255	238	275	550	CL 550 F	**6.244,87**
VSC LAM 15000	15000		255	238	394	550	CL 550 F	**9.550,85**
VSC LAM 20000	20000		255	238	510	550	CL 550 F	**12.631,79**
VSC LAM 25000	25000		255	238	630	550	CL 550 F	**15.806,20**
VSC LAM 30000	30000		255	238	746	550	CL 550 F	**18.088,25**
VSC LAM 35000	35000		255	238	865	550	CL 550 F	**22.716,62**
VSC LAM 40000	40000		255	238	982	550	CL 550 F	**24.791,02**
VSC LAM 45000	45000		255	238	1100	550	CL 550 F	**29.699,13**
VSC LAM 50000	50000		255	238	1218	550	CL 550 F	**33.041,43**
VSC LAM 55000	55000		255	238	1336	550	CL 550 F	**36.133,06**
VSC LAM 60000	60000		255	238	1453	550	CL 550 F	**on request

Download the data sheet

* Fitted by the customer.
** Ask for a quote based on intended use.

Key: 2" PE bulkhead fitting (male)

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

INLET AND OVERFLOW PIPE

B

Item	IN/OUT Ø (mm)	Flow rate* inlet l/sec	Flow rate** inlet l/sec	€
KIT 160	160	18,8	21,95	**79,13**
KIT 200	200	33,8	39,46	**138,27**
KIT 250	250	60,2	70,29	**212,95**
KIT 315	315	109,5	127,85	**299,08**
KIT 400	400	203,11	237,15	**543,26**

* assuming 70% filling and a 1% slope
** assuming 80% filling and a 1% slope

DISCHARGE PIPE

PE 100 PN 16 pipe (nominal diameters)

C

Item	Description	€
TUBO DN63 ZP	PE100 PN16 DN63 pipe on FLAT AREA	**271,78**
TUBO DN90 ZP	PE100 PN16 DN90 pipe on FLAT AREA	**283,48**
TUBO DN110 ZP	PE100 PN16 DN110 pipe on FLAT AREA	**293,20**
TUBO DN125 ZP	PE100 PN16 DN125 pipe on FLAT AREA	**332,88**
TUBO DN160 ZP	PE100 PN16 DN160 pipe on FLAT AREA	**391,88**
TUBO DN200 ZP	PE100 PN16 DN200 pipe on FLAT AREA	**508,48**

COMPLETE FINAL PRICE

A		B		C
Item Tank	+	Item Inlet / Overflow pipe	+	Item Discharge pipe

WASH WATER TREATMENT FROM CAR WASHES

INDICE

CAR WASH WATER

- Car washing covers only the external bodywork; washing the engine compartment is strictly prohibited;

- One or more settling chambers are recommended immediately after the grated gullies collecting the washing water;

- The data supplied, on which the sizing is based, must be accurate;

- The design data assumed must match the actual situation;

- The inlet water parameters must fall within the ranges indicated in the supplied technical manual.

- Installation and maintenance must be carried out correctly in accordance with the attached technical manual;

- No bactericides, ammonia, chlorine or any product harmful to the bacterial flora that could impair treatment may be fed into the system;

- No stormwater may be conveyed to the system;

- No coarse solids that could damage parts of the system or cause blockages may be fed into the system;

- The metal parameters at the inlet must already comply with current regulations.

REFERENCE STANDARDS

- Directive 91/271/EEC of 21/05/91

NOTES FOR THE INSTALLER

The products must be installed so that material on the surface and settled material can be removed periodically. They must be located outside buildings and at least 1 m from foundation walls. For burying the unit, strictly follow the instructions in the supplied manual.

ECO WASH



PROCESS DESCRIPTION

The TELCOM treatment plant for car wash water includes the following treatment stages:
1. GRIT SEPARATION: vertical-flow grit chamber ensuring gravity separation of settleable solids.
2. OIL SEPARATION: oil separator using calm tanks with an internal compartment in which the separated substances remain trapped; it has a lamellar pack filter to induce coalescence.
3. ATTACHED BIOMASS BIOLOGICAL TREATMENT: forced-aeration trickling filter based essentially on attached-biomass biological oxidation. These trickling filters contain special carrier media with a high specific surface area on which aerobic bacterial flora can settle and start the treatment process, supported by the oxidizing action of air introduced into the wastewater by a blower and diffusers.
4. CLARIFICATION: clarification tank with an internal compartment to clarify the wastewater.
5. INSPECTION: inspection chamber for wastewater sampling. Depending on the treatment requirements and the type of discharge, a pressure polishing unit, described below, is installed.
6. POLISHING UNIT Mod. GDA S: stainless steel electric pump - PVC-PN10 and galvanized filter inlet and outlet piping - Activated Carbon Filter (290-430 liters) entirely in hot-dip galvanized, epoxy powder-coated steel sheet, complete with valves and fittings - Manual backwashing system for the filter columns - Palletizable base in hot-dip galvanized, epoxy powder-coated steel sheet - Flow meter and flow control valve - Control, protection and monitoring panel. Voltage: 220 V single-phase - Installed power: 1,0 kW.
6. POLISHING UNIT Mod. GDA SCA: stainless steel electric pump - PVC-PN10 and galvanized filter inlet and outlet piping - Quartz Sand Filter and Activated Carbon Filter (2 x 290-430 liters) entirely in hot-dip galvanized, epoxy powder-coated steel sheet, complete with valves and fittings - Manual backwashing system for the filter columns - Palletizable base in hot-dip galvanized, epoxy powder-coated steel sheet - Flow meter and flow control valve - Control, protection and monitoring panel - Voltage: 220 V single-phase - Installed power: 1,5 kW.

ECO WASH (Underground systems)

ITEM	FLOW HOURLY [liters/h]	No. of cars per day	RECEIVING BODY	VOLUME TOTAL [liters]	POLISHING UNIT (Above ground)	ø IN/OUT	€
ECO WASH 100	100	10	Public sewer	5130	-	125	**6.442,63**
ECO WASH AS 100			Surface water		GDA S		**20.093,03**
ECO WASH SR 100			Soil - Reuse		GDA SCA		**28.688,87**
ECO WASH 300	300	30	Public sewer	8125	-	125	**8.480,58**
ECO WASH AS 300			Surface water		GDA S		**22.130,95**
ECO WASH SR 300			Soil - Reuse		GDA SCA		**30.726,81**
ECO WASH 600	600	60	Public sewer	11715	-	125	**11.050,65**
ECO WASH AS 600			Surface water		GDA S		**24.701,04**
ECO WASH SR 600			Soil - Reuse		GDA SCA		**33.296,90**
ECO WASH 1200	1200	120	Public sewer	16060	-	125	**14.716,00**
ECO WASH AS 1200			Surface water		GDA S		**31.052,59**
ECO WASH SR 1200			Soil - Reuse		GDA SCA		**41.797,43**
ECO WASH 2000	2000	200	Public sewer	21893	-	160	**20.290,39**
ECO WASH AS 2000			Surface water		GDA S		**36.626,99**
ECO WASH SR 2000			Soil - Reuse		GDA SCA		**47.371,81**

Download the data sheet

For correct burial conditions, refer to the instructions in the Technical Manual.
Also available for above-ground installation (subject to authorization by the competent authority).

STANDARD COMPOSITION







ITEM	GRIT CHAMBER		OIL SEPARATOR		FORCED-AERATION TRICKLING FILTER		CLARIFICATION TANK		INSPECTION CHAMBER	
	Mod.	Vol. (liters)	Mod.	Vol. (liters)	Mod.	Vol. (liters)	Mod.	Vol. (liters)	Mod.	Vol. (liters)
ECO WASH 100	ECOVSV 1500	1360	ECODEO 11/C	1500	ECOFAE 1500 PLUS	1360	ECOIMO 6F	910	POZ 300 G.I.	300
ECO WASH 300	ECOVSV 2000	2265	ECODEO 17/C	2250	ECOFAE 1500 PLUS	1360	ECOIMO 15F	2250	POZ 300 G.I.	300
ECO WASH 600	ECOVSV 4000	4200	ECODEO 22/C	3000	ECOFAE 2000 PLUS	2265	ECOIMO 15F	2250	POZ 300 G.I.	300
ECO WASH 1200	ECOVSV 5000	5110	ECODEO 28/C	3750	ECOFAE 4000 PLUS	4200	ECOIMO 20F	3000	POZ 300 G.I.	300
ECO WASH 2000	ECOVBC 8000	8400	ECODEO 33/C	4500	ECOFAE 6000 PLUS	5993	ECOIMO 20F	3000	POZ 300 G.I.	300

ECO WASH FT

Treatment plant for car washes, installed above ground, consisting of the following treatment train:





1 - GRIT SEPARATION
2 - OIL SEPARATION WITH POLYURETHANE SPONGE FILTER
3 - BIOLOGICAL OXIDATION WITH SLUDGE REMOVAL
4 - CLARIFICATION (with 1" fitting for full drainage)

Control panel and blower included in the supply.



The BIOLOGICAL OXIDATION section (3) has a sludge removal system.

NEW

ECO WASH FT (Above-ground systems)

ITEM	FLOW HOURLY [liters/h]	No. of cars per day	RECEIVING BODY	VOLUME TOTAL [liters]	Single tank dimensions		POLISHING UNIT (Above ground)	ø IN	ø OUT	POWER W	€
					L x W	H * max					
WASH FT 15	105	15	Public sewer	6000	117x117	173	-	1"1/2	125	48	**6.487,23**
WASH FT AS 15			Surface water				GDA S				**14.596,55**
WASH FT SR 15			Soil - Reuse				GDA SCA				**22.075,58**
WASH FT 20	140	20	Public sewer	8000	136x136	205	-	1"1/2	125	50	**7.833,40**
WASH FT AS 20			Surface water				GDA S				**15.942,72**
WASH FT SR 20			Soil - Reuse				GDA SCA				**23.421,74**
WASH FT 30	210	30	Public sewer	12000	146x146	242	-	1"1/2	125	75	**11.465,42**
WASH FT AS 30			Surface water				GDA S				**19.574,74**
WASH FT SR 30			Soil - Reuse				GDA SCA				**27.053,76**

* Maximum height refers to the biological oxidation unit with turret.

Download the data sheet



CONTROL PANEL

ITEM	DESCRIPTION	€
QE COM	Control panel for diaphragm compressor management and timing	444,28



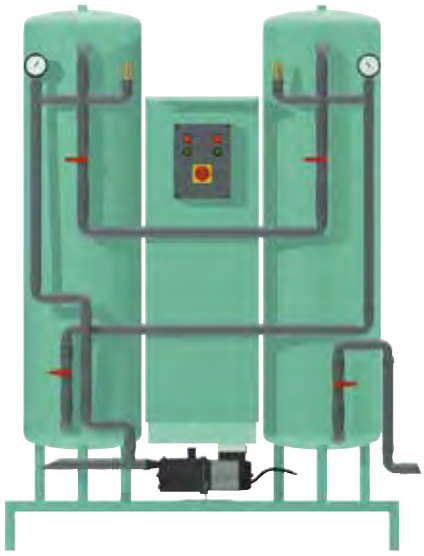
OUTDOOR COMPRESSOR HOUSING
- Code VANO COMP (VCM 550)
dimensions [cm] L=68, W=68, H=60

ITEM	DESCRIPTION	€
VCM 550	Outdoor compressor housing	484,33



MIXTURE - SURFACTANT DEGRADER

ITEM	DESCRIPTION	€
NO TENS	Mixture - Surfactant molecule degrader (5 liters)	369,00



POLISHING UNIT

Mod. GDA S: stainless steel electric pump - PVC-PN10 and galvanized filter inlet and outlet piping - Activated Carbon Filter (290-430 liters) entirely in hot-dip galvanized, epoxy powder-coated steel sheet, complete with valves and fittings - Manual backwashing system for the filter columns - Palletizable base in hot-dip galvanized, epoxy powder-coated steel sheet - Flow meter and flow control valve - Control, protection and monitoring panel. Voltage: 220 V single-phase - Installed power: 1,0 kW.

Mod. GDA SCA: stainless steel electric pump - PVC-PN10 and galvanized filter inlet and outlet piping - Quartz Sand Filter and Activated Carbon Filter (2 x 290-430 liters) entirely in hot-dip galvanized, epoxy powder-coated steel sheet, complete with valves and fittings - Manual backwashing system for the filter columns - Palletizable base in hot-dip galvanized, epoxy powder-coated steel sheet - Flow meter and flow control valve - Control, protection and monitoring panel - Voltage: 220 V single-phase - Installed power: 1,5 kW.

NEW

LIFTING STATIONS

Lifting stations are units for handling water that cannot be discharged by gravity. They are suitable for collecting, lifting and then delivering rainwater or wastewater to the public sewer or a treatment plant. TELCOM tanks are made of recyclable linear polyethylene, with unit volumes from 100 to 800 liters, and house one or two pumps suitable for lifting the collected water, fitted with an ultrasonic level sensor, an emergency float switch and a dedicated Control Panel. The pumps supplied, suitable for professional use and mounted on a metal coupling and release system, are particularly suitable for discharging civil and industrial wastewater, draining areas below ground level, handling liquids containing solid and fibrous matter in suspension, emptying seepage water and handling sewage (toilets); they can also lift liquids containing suspended solids from Ø 35 mm to Ø 50 mm depending on the pump type. The pumps are available with vortex, multi-channel or grinder impellers.



SDS 100: for one pump



SDS 200: for one pump



SDS 800: for two pumps



SDS 500: for two pumps

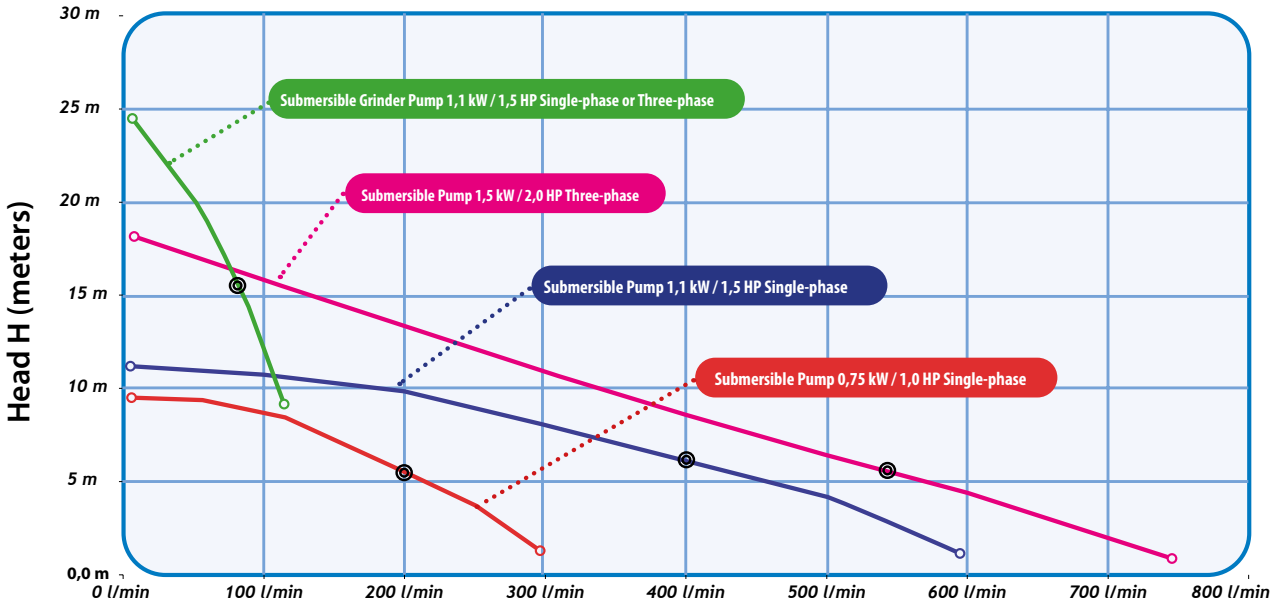
PRODUCT SELECTION

Lifting stations should be selected with the help of a specialized technician. Sizing must take into account the quantity of liquid (flow rate) to be lifted per unit of time and the height (head) to which it must be transferred, considering any localized and distributed pressure losses in the delivery pipe.

ROUTINE MAINTENANCE

Maintenance of Lifting Stations comes down to a few simple operations: - Clean the tank regularly to remove any solid residues; - Periodically check the seals to prevent leaks; - For maintenance of the pump and its parts, strictly follow the attached manual.

LIFTING STATIONS - LIFTING PUMP RANGE



Flow rate Q (liters/minute) Standard Test: ISO 9906:20212 - Grade 3B

FEATURES OF SUBMERSIBLE SEWAGE PUMPS

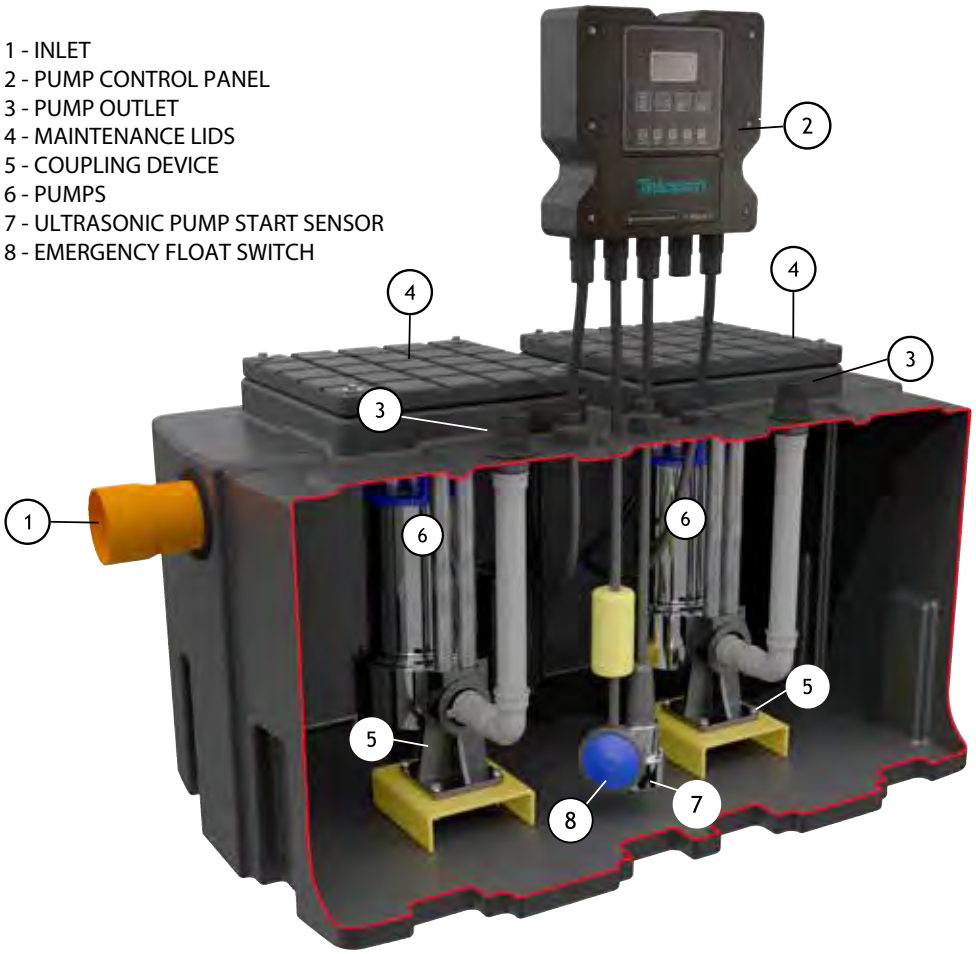
TYPE	POWER kW	POWER HP	V	Performance Data									
Sewage pump	0,75	1,0	220	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	
				0	80	100	150	175	200	225	260	300	
				Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m	
				10	9,7	9,0	7,5	6,4	5,5	4,7	3,6	2,3	
Sewage pump	1,1	1,5	220	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min		
				0	100	150	300	400	500	600			
				Head m	Head m	Head m	Head m	Head m	Head m	Head m			
				11,5	10,8	10,4	8,8	7,5	5,5	1,8			
Sewage pump	1,5	2,0	380	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min		
				0	100	200	300	400	500	600	700		
				Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m		
				18,5	16,2	14,5	12	9,5	7,5	4,5	1,8		
Pump GRINDER for sewage	1,1	1,5	220 380	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min	Flow rate L/min
				0	15	30	40	50	60	70	90	100	110
				Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m	Head m
				25	23,5	21,7	20,5	19,3	18	16,6	13,5	11,7	9,5

SYSTEMS WITH CAPACITY FROM 100 TO 800 LITERS

NEW

For larger capacities contact our Technical Department

1 - INLET
2 - PUMP CONTROL PANEL
3 - PUMP OUTLET
4 - MAINTENANCE LIDS
5 - COUPLING DEVICE
6 - PUMPS
7 - ULTRASONIC PUMP START SENSOR
8 - EMERGENCY FLOAT SWITCH





Control Panel SINGLE-PHASE/THREE-PHASE *On all models



Ultrasonic sensor *On all models



The special Pump Mounting Plate means the bottom of the Lifting Station need not be drilled *See table



Pump Coupling Device for Pump *See table

CONTROL PANEL FOR LIFTING STATIONS WITH ONE OR TWO PUMPS:

1. Starts and stops the pumps as the water level in the collection tank changes. 2. Alternates the pumps at each start. 3. Is equipped with submersible and ultrasonic level sensors. 4. Allows the activation level of each pump and of the alarm to be set. 5. Has a connection for an electric float switch. 6. Has a volt-free contact for remote signaling of pump status.

OPERATING LOGIC OF LIFTING STATIONS WITH 2 PUMPS:

During normal operation the pumps are activated alternately at each start. Activation of an emergency float switch triggers the backup function, starting both pumps.

SPECIFICATION ITEM

Lifting station in recyclable PE (linear polyethylene), consisting of a monoblock compartment, one/two lids for inspection, maintenance and cleaning, and no. .... submersible electric pumps model ..... for sewage, fitted with an ultrasonic level sensor and a safety float switch with the related Control Panel. Each station has a hole with a double-lip seal for the inlet and one or two threaded fittings for the outlet, on which a non-return valve can be installed on request. The pumps are mounted on a metal coupling and release base to facilitate removal or maintenance. A vent for removing biogas is installed on the top of the lifting stations.

GENERAL RANGE OF LIFTING STATIONS

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 100-100	100	58	45	53	300x300	100	43	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.161,15**
SDS 200-100	200	74	64	55	350x350	100	54	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.313,61**
SDS 200-100 S	200	74	64	55	350x350	100	54	2"	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	SI	**1.616,81**
SDS 200-150	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	NO*	**1.666,85**
SDS 200-150 S	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**1.970,05**
SDS 500-150 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.433,89**
SDS 800-150 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.668,15**
SDS 200-150 TRIT	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	NO*	**2.028,55**
SDS 200-150 TRIT S	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	SI	**2.331,75**
SDS 500-150 TRI M	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.157,28**
SDS 800-150 TRI M	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.391,54**
SDS 500-150 TRI T	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.533,07**
SDS 800-150 TRI T	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.767,33**
SDS 200-200	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	NO*	**2.290,66**
SDS 200-200 S	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**2.593,86**
SDS 500-200 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.305,71**
SDS 800-200 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.539,98**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.

Download the data sheet



SDS 100



SDS 200

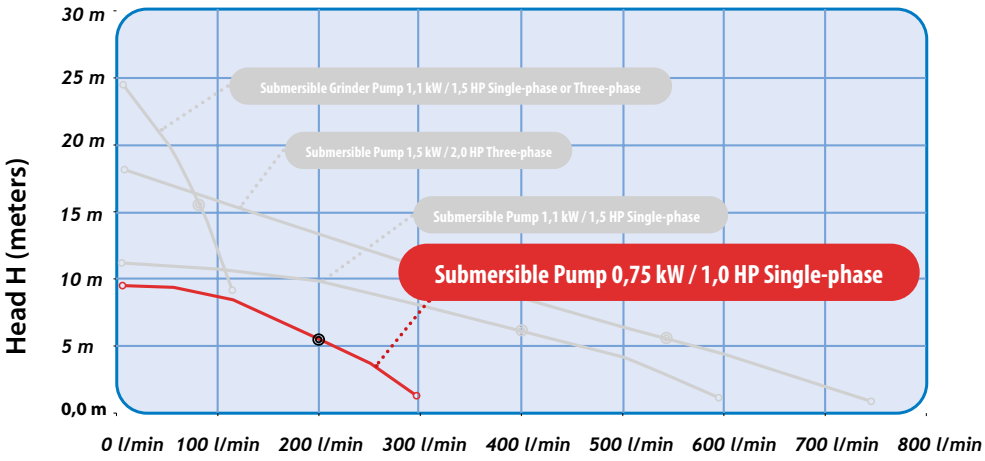


SDS 500



SDS 800

SUBMERSIBLE PUMP 0,75 KW / 1,0 HP SINGLE-PHASE





Pump with recessed VORTEX impeller in stainless steel AISI 304

Standard Test: ISO 9906:20212 - Grade 3B

GENERAL TABLE
Lifting Stations with 0,75 KW / 1,0 HP Single-phase Submersible Pump

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 100-100	100	58	45	53	300x300	100	43	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.161,15**
SDS 200-100	200	74	64	55	350x350	100	54	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.313,61**
SDS 200-100 S	200	74	64	55	350x350	100	54	2"	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	SI	**1.616,81**

Control panel and ultrasonic sensor on all models.

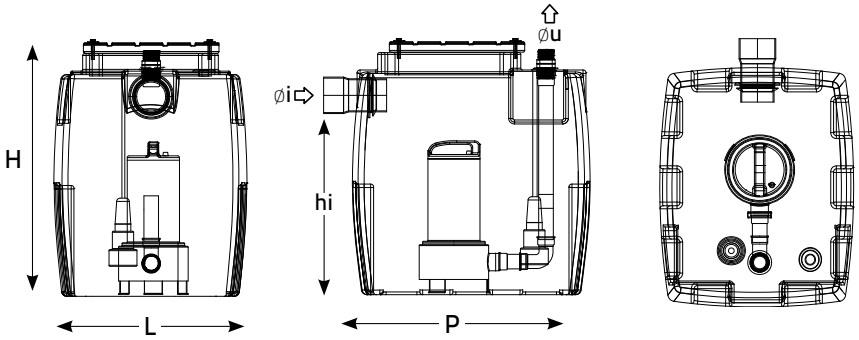
* Pump assembly by the customer.







SDS 100-100



100-liter Lifting Stations without coupling foot

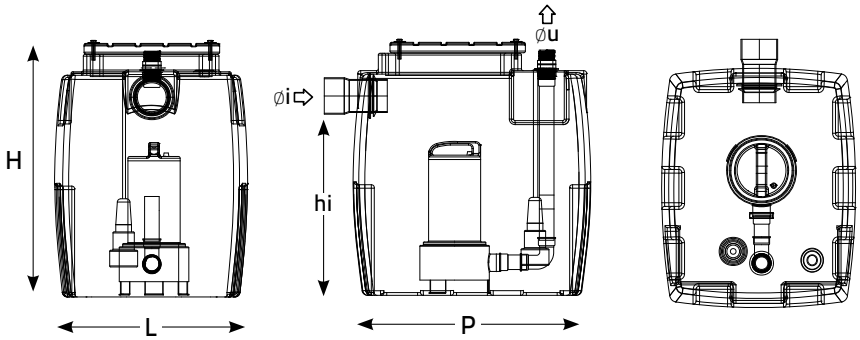
ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 100-100	100	58	45	53	300x300	100	43	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.161,15**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200-100



200-liter Lifting Stations without coupling foot

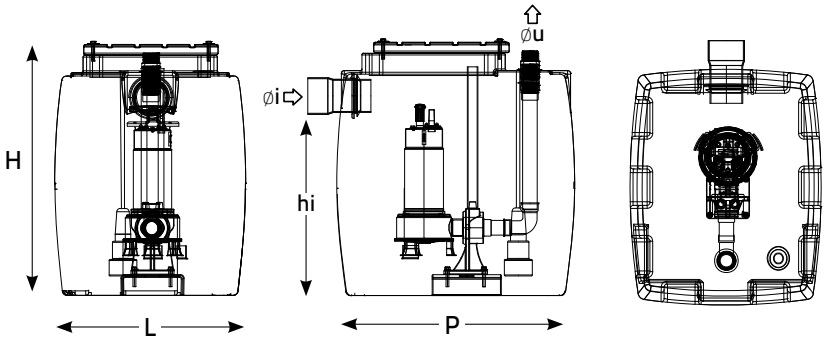
ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-100	200	74	64	55	350x350	100	54	1" 1/2	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	NO*	**1.313,61**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200-100 S

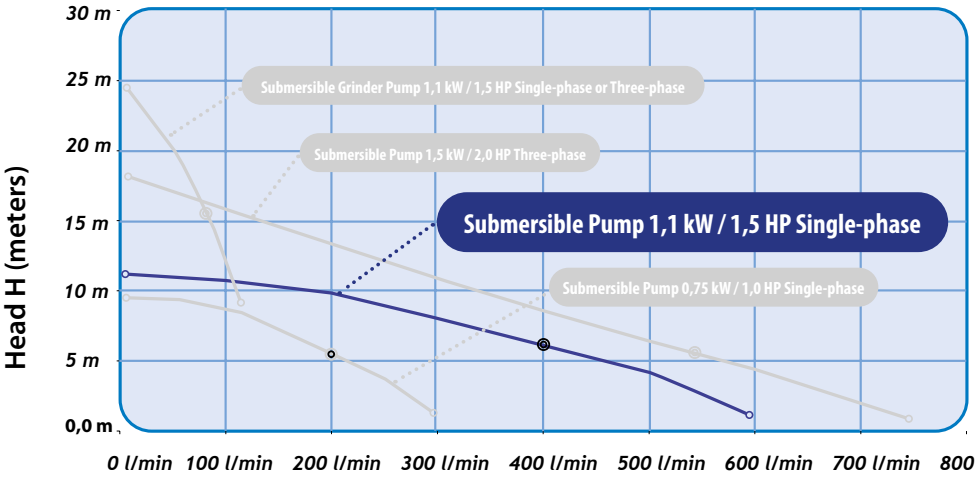


200-liter Lifting Stations with coupling foot

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-100 S	200	74	64	55	350x350	100	54	2"	35	1 WITH RECESSED VORTEX IMPELLER	220	0,75	1,0	SI	**1.616,81**

Control panel and ultrasonic sensor on all models.

SUBMERSIBLE PUMP 1.1KW / 1,5 HP SINGLE-PHASE





Pump with recessed VORTEX impeller in stainless steel AISI 304

Standard Test: ISO 9906:20212 - Grade 3B

GENERAL TABLE
Lifting Stations with 1,1 KW / 1,5 HP Single-phase Submersible Pump

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	NO*	**1.666,85**
SDS 200-150 S	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**1.970,05**
SDS 500-150 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.433,89**
SDS 800-150 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.668,15**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200: for one pump



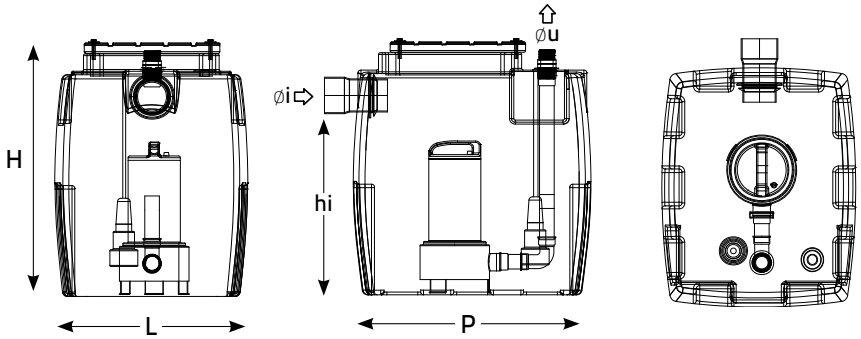
SDS 500: for two pumps



SDS 800: for two pumps



SDS 200-150



200-liter Lifting Stations without coupling foot

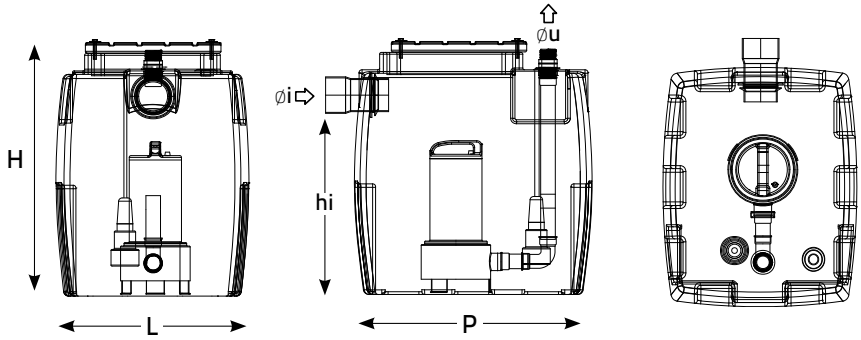
ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	NO*	**1.666,85**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200-150 S



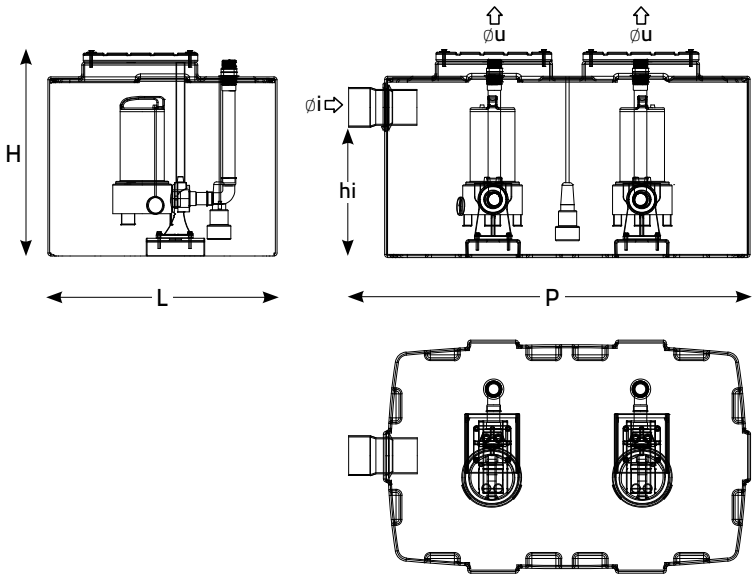
200-liter Lifting Stations with coupling foot

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150 S	200	74	64	55	350x350	100	54	2"	50	1 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**1.970,05**

Control panel and ultrasonic sensor on all models.



SDS 500-150 S



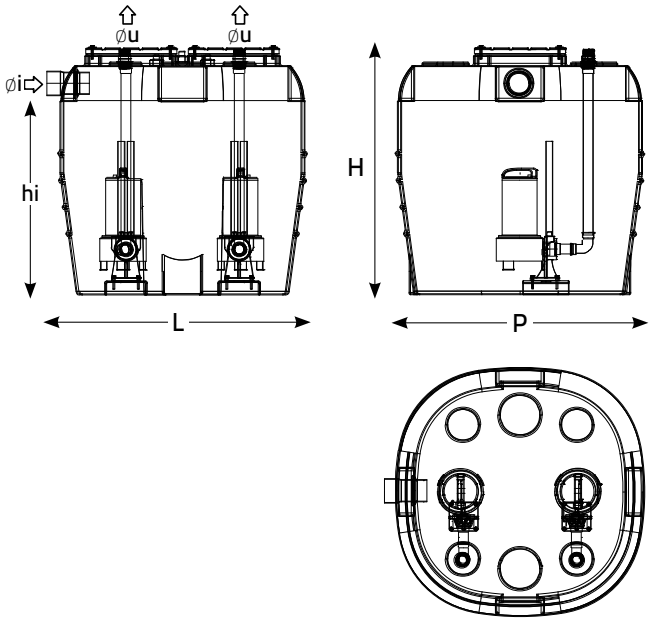
500-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 500-150 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.433,89**

Control panel and ultrasonic sensor on all models.



SDS 800-150 S

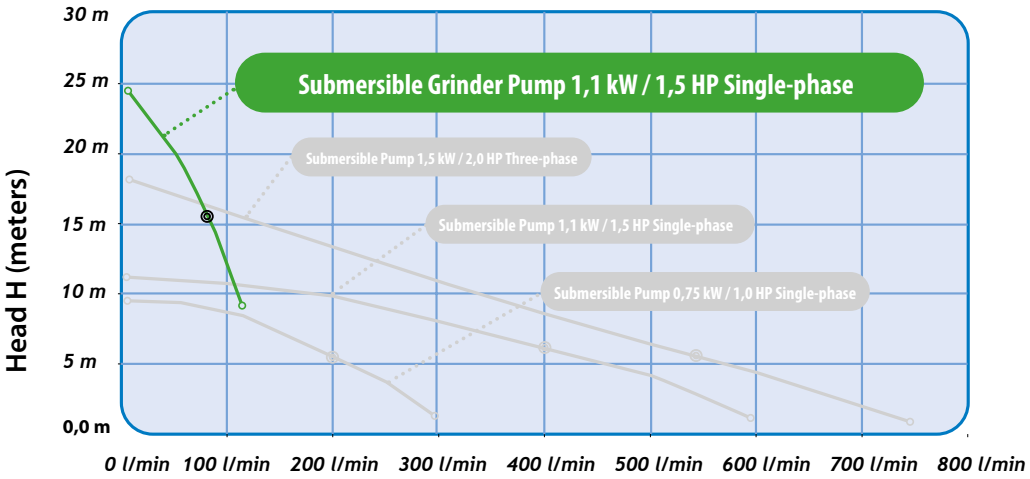


800-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 800-150 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH RECESSED VORTEX IMPELLER	220	1,1	1,5	SI	**3.668,15**

Control panel and ultrasonic sensor on all models.

SUBMERSIBLE GRINDER PUMP 1.1KW / 1,5 HP SINGLE-PHASE





Submersible pump with grinder

Standard Test: ISO 9906:20212 - Grade 3B

The submersible GRINDER pump has a grinding system. This means it has no free-passage limit for large solids, since the special impeller finely shreds solids and fibers before pumping them, allowing smaller-diameter pipes to be used (down to 25 mm).

GENERAL TABLE

Lifting Stations with 1,5 KW / 2,0 HP Single-phase Submersible Grinder Pump

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150 TRIT	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	NO*	**2.028,55**
SDS 200-150 TRIT S	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	SI	**2.331,75**
SDS 500-150 TRI M	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.157,28**
SDS 800-150 TRI M	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.391,54**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200: for one pump

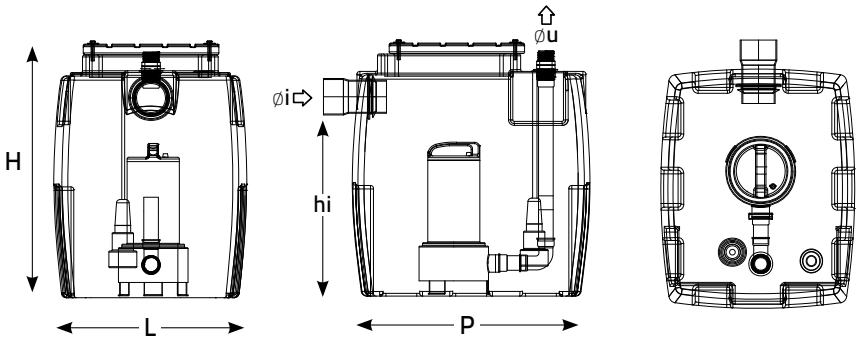


SDS 500: for two pumps



SDS 800: for two pumps





SDS 200-150 TRIT

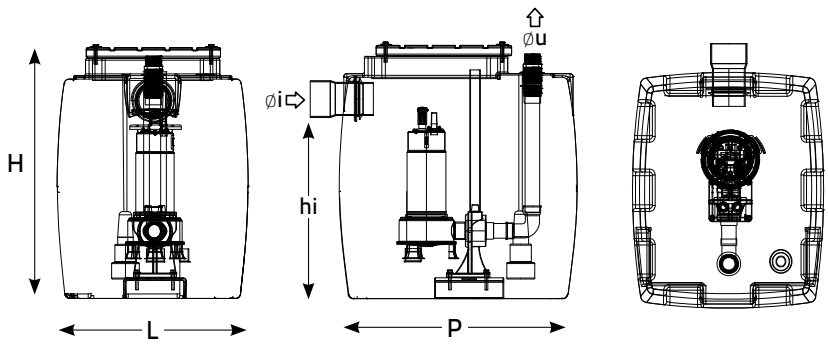
200-liter Lifting Stations without coupling foot

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150 TRIT	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	NO*	**2.028,55**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.





SDS 200-150 TRIT S

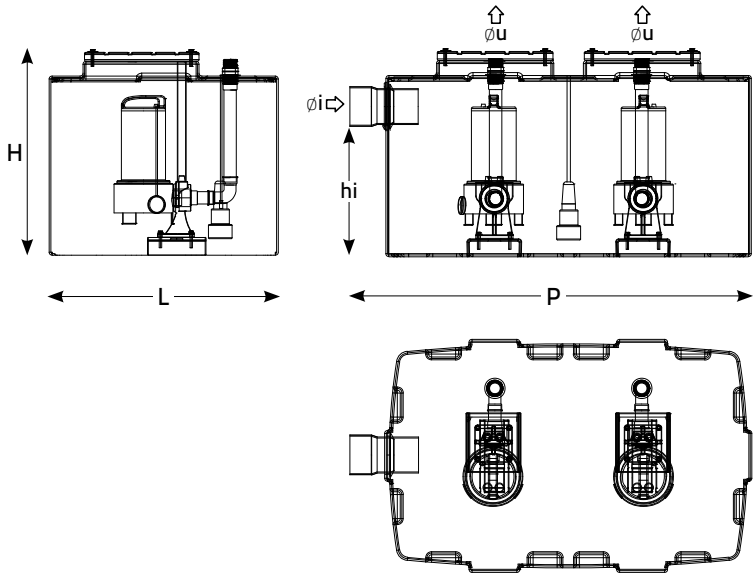
200-liter Lifting Stations with coupling foot

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-150 TRIT S	200	74	64	55	350x350	100	54	2"	-	1 WITH GRINDER	220	1,1	1,5	SI	**2.331,75**

Control panel and ultrasonic sensor on all models.



SDS 500-150 TRI M



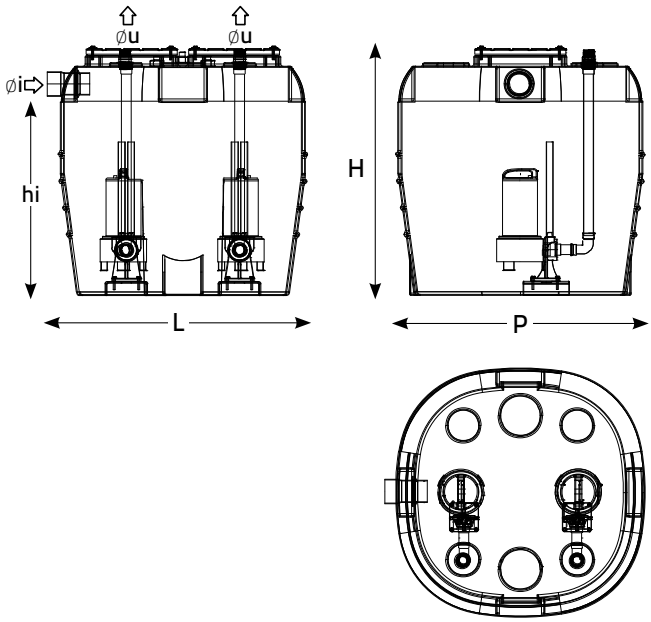
500-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 500-150 TRI M	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.157,28**

Control panel and ultrasonic sensor on all models.



SDS 800-150 TRI M

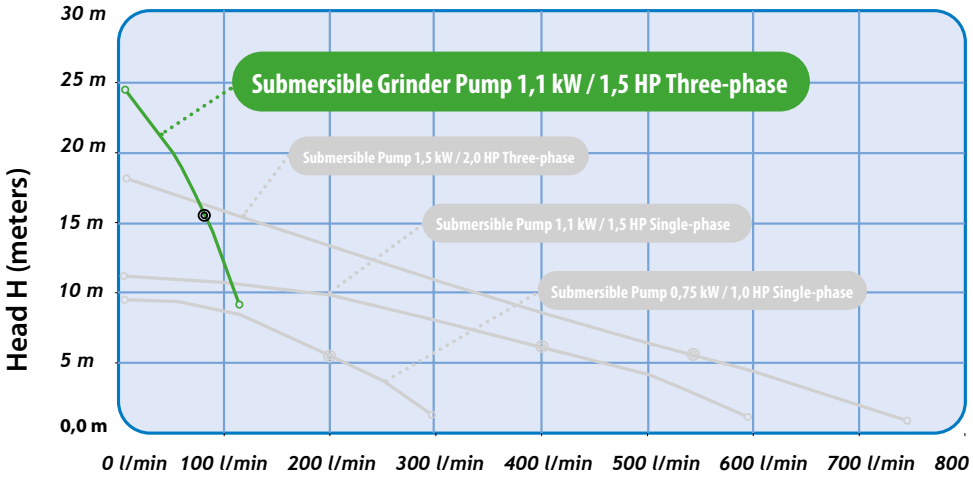


800-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 800-150 TRI M	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	220	1,1	1,5	SI	**4.391,54**

Control panel and ultrasonic sensor on all models.

SUBMERSIBLE GRINDER PUMP 1.1KW / 1,5 HP THREE-PHASE





Submersible pump with grinder

Standard Test: ISO 9906:20212 - Grade 3B

The submersible GRINDER pump has a grinding system. This means it has no free-passage limit for large solids, since the special impeller finely shreds solids and fibers before pumping them, allowing smaller-diameter pipes to be used (down to 25 mm).

GENERAL TABLE
Lifting Stations with 1,5 KW / 2,0 HP Three-phase Submersible Grinder Pump

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 500-150 TRI T	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.533,07**
SDS 800-150 TRI T	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.767,33**

Control panel and ultrasonic sensor on all models.



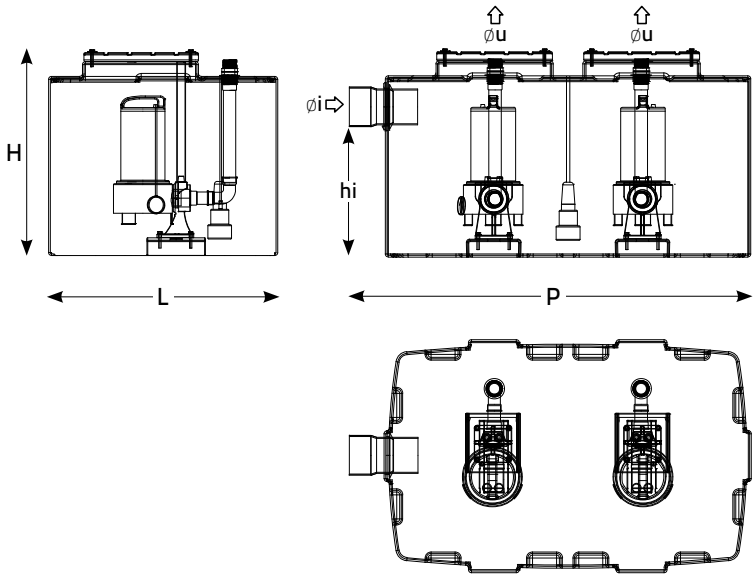
SDS 500: for two pumps



SDS 800: for two pumps



SDS 500-150 TRI T



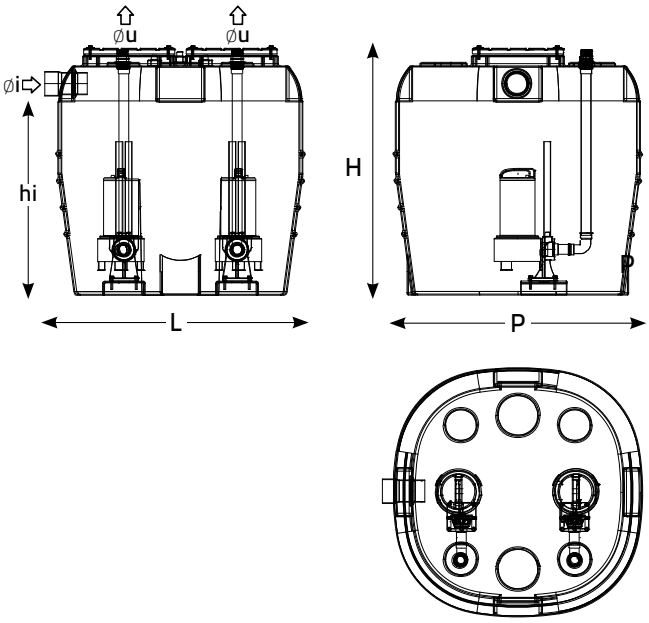
500-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 500-150 TRI T	500	70	125	78	2x 410x410	100	50	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.533,07**

Control panel and ultrasonic sensor on all models.



SDS 800-150 TRI T

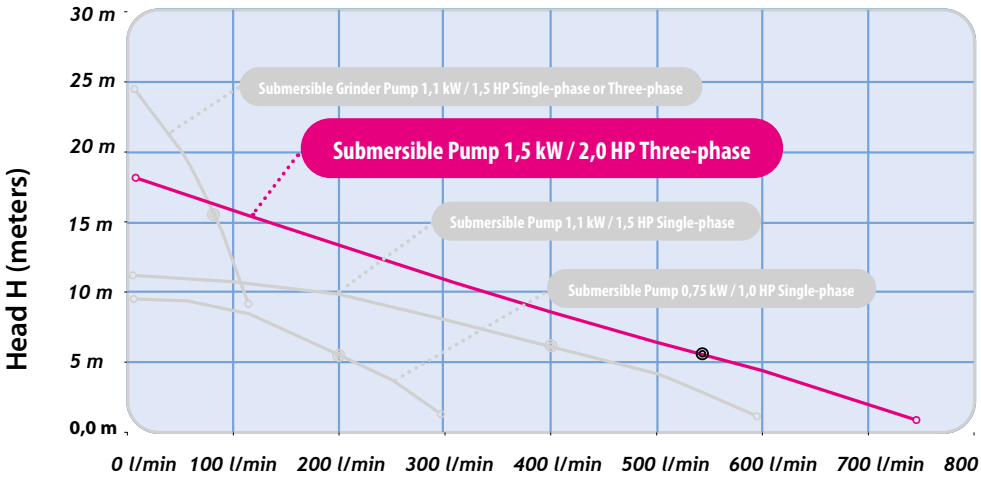


800-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 800-150 TRI T	800	107	107	107	2x 410x410	100	92	2"	-	2 WITH GRINDER	380	1,1	1,5	SI	**4.767,33**

Control panel and ultrasonic sensor on all models.

SUBMERSIBLE PUMP 1.5KW / 2,0 HP THREE-PHASE





Submersible pump with single-channel impeller in stainless steel AISI 304

◎ Standard Test: ISO 9906:20212 - Grade 3B

GENERAL TABLE
Lifting Stations with 1,5 KW / 2,0 HP Three-phase Submersible Pump

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-200	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	NO*	**2.290,66**
SDS 200-200 S	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**2.593,86**
SDS 500-200 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.305,71**
SDS 800-200 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.539,98**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200: for one pump



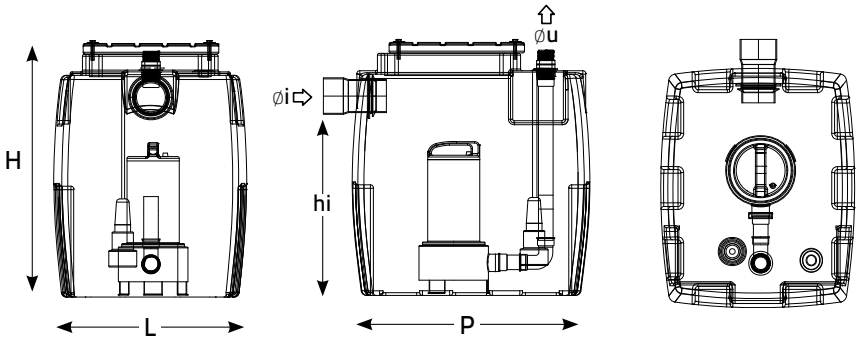
SDS 500: for two pumps



SDS 800: for two pumps



SDS 200-200



200-liter Lifting Station without coupling foot

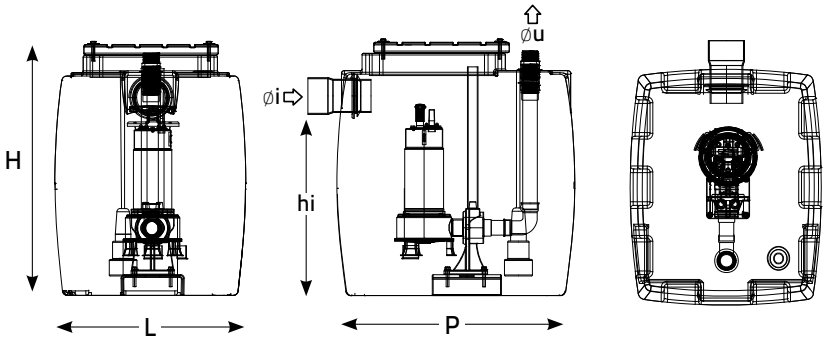
ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-200	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	NO*	**2.290,66**

Control panel and ultrasonic sensor on all models.

* Pump assembly by the customer.



SDS 200-200 S



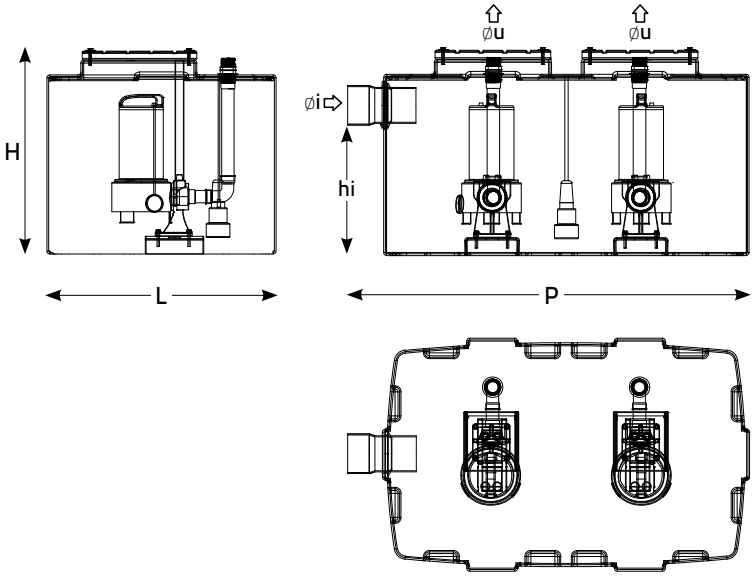
200-liter Lifting Station with coupling foot

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 200-200 S	200	74	64	55	350x350	100	54	2"	50	1 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**2.593,86**

Control panel and ultrasonic sensor on all models.



SDS 500-200 S



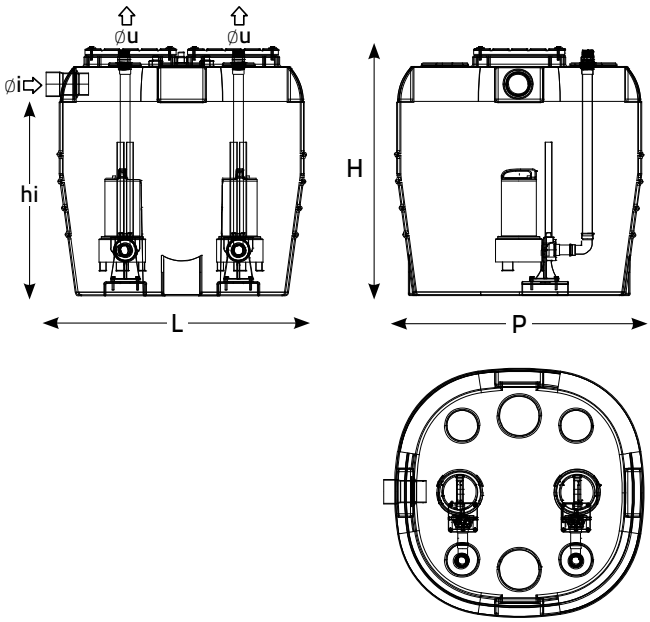
500-liter Lifting Stations with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 500-200 S	500	70	125	78	2x 410x410	100	50	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.305,71**

Control panel and ultrasonic sensor on all models.



SDS 800-200 S



800-liter Lifting Station with coupling feet

ITEM	VOLUME (lt)	Dimensions (cm)			Dimensions LID (mm)	Inlet		Outlet øu	Solids size (mm)	PUMP				Coupling device	€
		H	L	P		øi (mm)	hi (cm)			Pumps	Voltage (V)	Power (KW)	Power (HP)		
SDS 800-200 S	800	107	107	107	2x 410x410	100	92	2"	50	2 WITH SINGLE-CHANNEL IMPELLER	380	1,5	2,0	SI	**4.539,98**

Control panel and ultrasonic sensor on all models.



NON-RETURN VALVE

- With 1 1/2" and 2" connections

ITEM	DESCRIPTION	€
VALVOLA RITEGNO 1" 1/2	1" 1/2 cast iron ball non-return valve	**210,98**
VALVOLA RITEGNO 2"	2" cast iron ball non-return valve	**413,09**



LIFTING ELECTRIC PUMP

ITEM	DESCRIPTION	€
POMPA ELET. 13	Single-phase grinder pump - 1,5 HP	**1.807,88**
POMPA ELET. 19	Three-phase grinder pump - 1,5 HP	**1.807,88**
POMPA ELET. 14	Submersible pump for clear water - 220V - 0,25 HP	**349,54**
POMPA ELET. 16	Submersible pump with single-channel impeller - 380V - 2,0 HP	**1621,86**
POMPA ELET. 17	Submersible pump with recessed impeller - 220V - 1,0 HP	**637,98**
POMPA ELET. 18	Submersible pump with recessed impeller - 220V - 1,5 HP	**1216,01**



NEW

CONTROL PANEL WITH ULTRASONIC SENSOR

ITEM	DESCRIPTION	€
KIT SS T4	Control panel for managing 1 or 2 pumps at 380 V and up to 4 HP with ultrasonic sensor.	**1.383,58**



NEW

CONTROL PANEL WITH ULTRASONIC SENSOR

ITEM	DESCRIPTION	€
KIT SS M3	Control panel for managing 1 or 2 pumps at 220 V and up to 3 HP with ultrasonic sensor.	**768,66**

CHAMBERS

An eight-sided monolithic chamber has been developed for installation requirements and is used in the various solutions proposed. Its special shape makes it easy to make connections at 45° or multiples. Given the specific installation requirements (slope, inlet/outlet levels, etc.), the chambers are fitted out by the installer.

Download the data sheet



POZ 300 GR



POZ 100 GR

PLAIN CHAMBER

- Code: POZ 100GR - Lid Ø320 mm
dimensions [cm]: 48x48x75H
capacity 100 liters
- Code: POZ 300GR - Lid Ø420 mm
dimensions [cm]: 73x73x82H
capacity 300 liters

ITEM	DESCRIPTION	€
POZ 100 GR	Plain chamber	**153,84**
POZ 300 GR	Plain chamber	**365,88**



SAMPLING CHAMBER

- Code: POZ 100 GI - Lid Ø320 mm
dimensions [cm]: 48x48x75H
capacity 100 liters
- Code: POZ 300 GI - Lid Ø420 mm
dimensions [cm]: 73x73x82H
capacity 300 liters

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm	ø 160 mm	ø 200 mm	ø 250 mm	ø 315 mm
POZ 100 GI	Sampling chamber	**196,14**	**196,14**	**196,14**	/	/	/
POZ 300 GI	Sampling chamber	/	/	**413,59**	**442,04**	**526,66**	**560,48**



SAFETY BY-PASS CHAMBER

- Code: POZ 100 BP - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 BP - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm	ø 160 mm	ø 200 mm	ø 250 mm	ø 315 mm
POZ 100 BP	Safety by-pass chamber	**230,00**	**230,00**	**230,00**	/	/	/
POZ 300 BP 250	Safety by-pass chamber	/	/	/	/	**607,72**	/
POZ 300 BP 315	Safety by-pass chamber	/	/	/	/	/	**654,85**

Download the data sheet



LEVEL CHAMBER

- Code: POZ 100 LI - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 LI - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm
POZ 100 LI	Level chamber	**280,77**
POZ 300 LI	Level chamber	**492,81**



JUNCTION CHAMBER

- Code: POZ 100 CO - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 CO - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm	ø 160 mm
POZ 100 CO	Junction chamber	**230,00**	**230,00**	**230,00**
POZ 300 CO	Junction chamber	on request		



DISTRIBUTION CHAMBER

- Code: POZ 100 RI - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 RI - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm	ø 160 mm
POZ 100 RI	Distribution chamber	**230,00**	**230,00**	**230,00**
POZ 300 RI	Distribution chamber	on request		



CALMING CHAMBER

- Code: POZ 100 CA - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 CA - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm
POZ 100 CA	Calming chamber	**246,91**	**246,91**
POZ 300 CA	Calming chamber	**458,97**	/



CHLORINATION CHAMBER

- Code: POZ 100 CLO - Lid Ø320 mm
dimensions [cm]: 48x48x75H (capacity 100 liters)
- Code: POZ 300 CLO - Lid Ø420 mm
dimensions [cm]: 73x73x82H (capacity 300 liters)

ITEM	DESCRIPTION	ø 100 mm	ø 125 mm
POZ 100 CLO	Chlorination chamber	**306,13**	**306,13**
POZ 300 CLO	Chlorination chamber	/	**518,19**



LEAF FILTER CHAMBER

- Code: POZ 100 PLS - Lid Ø320 mm
dimensions [cm]: 48x48x111H
capacity 100 liters
- Code: POZ 300 PLS - Lid Ø420 mm
dimensions [cm]: 73x73x108H
capacity 300 liters

ITEM	DESCRIPTION	ø 100 mm
POZ 100 PLS	Leaf filter chamber	**421,65**
POZ 300 PLS	Leaf filter chamber	**603,16**



SCREENING CHAMBER

- Code POZ 550 GR
dimensions [cm] L=68, W=68, H=60
Lid: ø 550 mm
Diameter Øi/Øu: 160 mm
capacity ~ 140 liters

ITEM	DESCRIPTION	ø 160 mm
POZ 550 GR	Screening chamber	**1.209,42**

Other diameters on request

NEW



OIL-ABSORBENT CHAMBER

Polyethylene chamber with PVC inlet and outlet stubs. Inside there is a cushion of oil-absorbent material that retains traces of oil and any hydrocarbons in runoff water. It is particularly used in first-flush systems, downstream of the oil separator.

- Code POZ 500 OLEO
dimensions [cm] L=68, W=87, H=116
capacity 500 liters
Lid ø 420 mm
Diameter Øi/Øu: 125/160 mm

ITEM	ITEM DESCRIPTION	€
POZ 500 OLEO 125	Oil-absorbent chamber	**617,62**
POZ 500 OLEO 160	Oil-absorbent chamber	**634,95**



DOSING CHAMBER

The dosing chamber is intended for all cases where proper wastewater flow must be ensured. It works on physical principles and has no electrical equipment.

- Code PDC 300
dimensions [cm] L=88, W=66, H=70
capacity 300 liters
Lid ø 320 mm
Diameter Øi/Øu: 100 mm

ITEM	DESCRIPTION	ITEM
DESCRIPTION	Flushing chamber	**634,15**





TRAPPED GULLY (ROAD GULLY)
For collecting and conveying road stormwater.

- Code POTAC 62
dimensions [cm] L=62, W=40, H=47
capacity 70 liters - outlet Ø 110 mm.
Provision for grated cover.
Top opening 20x30 cm

ITEM	ITEM DESCRIPTION	€
POTAC 62 (Outlet ø 110)	Trapped gully	**94,67**

OIL·TANK





Workshops
Service stations
Recycling centers...











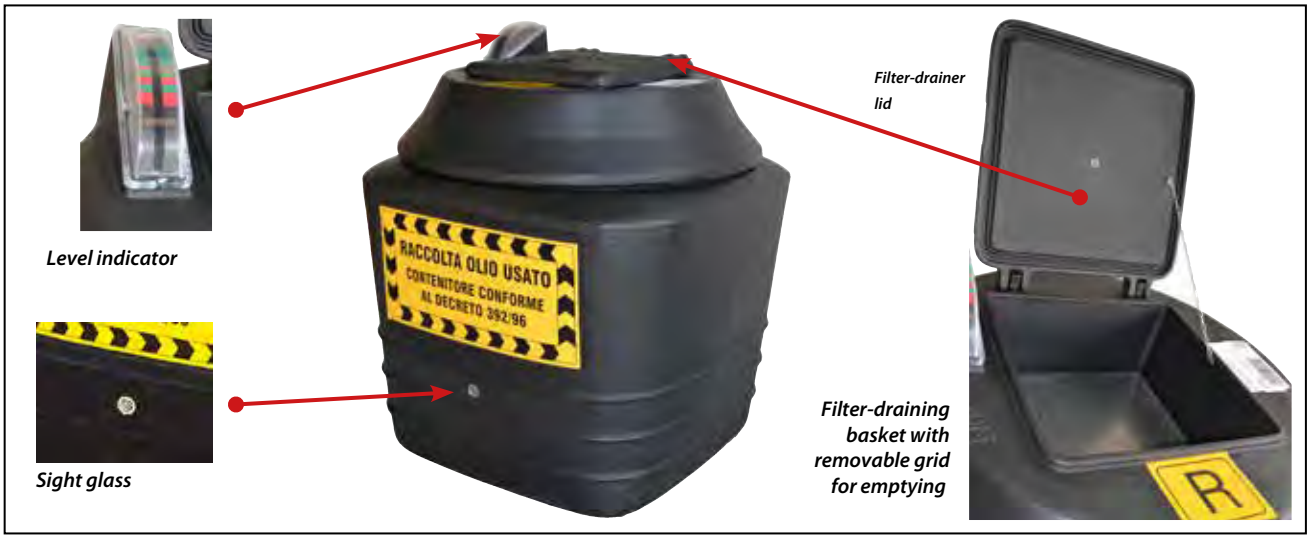
Canteens - Restaurants - Fry shops...

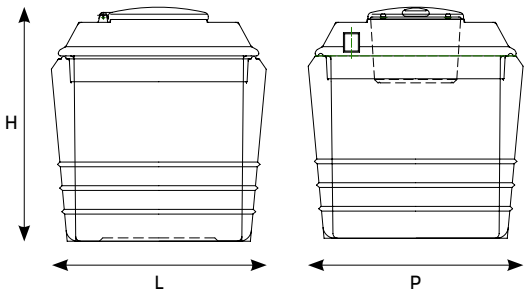
SOL 250 and SOL 500 BLACK

TECHNICAL FEATURES

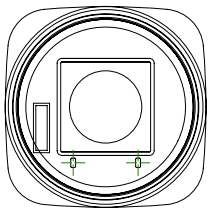
Linear polyethylene tank made of black mass-colored polymers. It consists of an internal collection compartment and an external containment tank. High mechanical strength, resistance to frost and hot sun from -60°C to +80°C. Fitted with a level indicator and a safety sight glass for checking the integrity of the inner container at any time. It has a filter-draining basket with removable grid for easy, immediate access to the contents. Using OIL TANK to collect used oils ensures ideal respect for the environment. (Also suitable for "emulsions" and "antifreeze"). 100% recyclable.

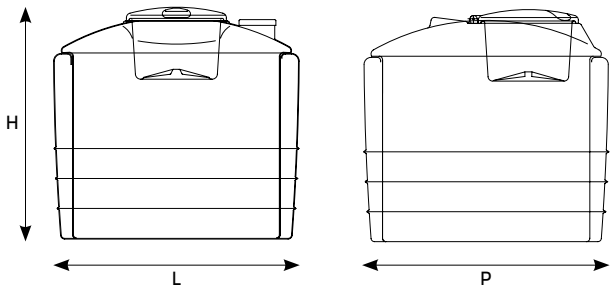
Download the data sheet



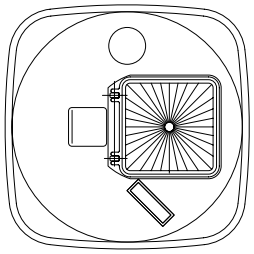


SOL 250





SOL 500



SOL BLACK USED OIL TANKS

ITEM	Inner comp. capacity (liters)	Max dimensions (cm)			L x W base ø IN/OUT	Lid ø IN/OUT	Useful dimensions filter drainer	€
		H	L	P				
SOL250 BLACK	250	92	88	88	80x80	44x47	38x38xH18	862,83
SOL500 BLACK	500	106	110	107	89x89	44x47	38x38xH18	1.052,64

Color: BL

Overall dimensions with ± 1,5% tolerance, capacities with ± 4,6% tolerance.

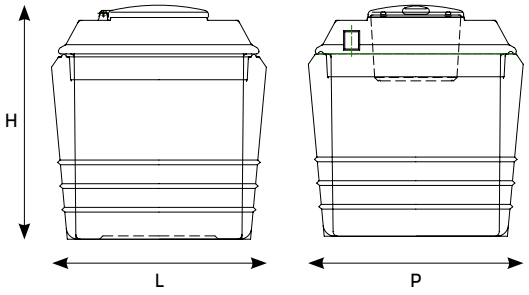
SOL 250 and SOL 500 H2O

TECHNICAL FEATURES

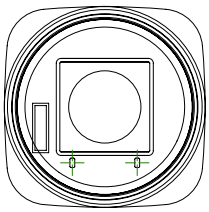
Linear polyethylene tank made of green mass-colored polymers. It consists of an internal collection compartment and an external containment tank. High mechanical strength, resistance to frost and hot sun from -60°C to +80°C. Fitted with a level indicator and a safety sight glass for checking the integrity of the inner container at any time. It has a filter-draining basket with removable grid for easy, immediate access to the contents. Using OIL TANK to collect "emulsions" and "antifreeze" ensures ideal respect for the environment. 100% recyclable.

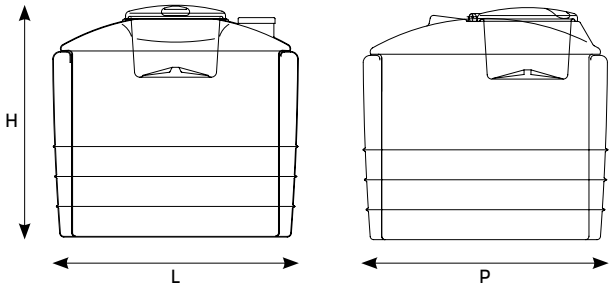
Download the data sheet



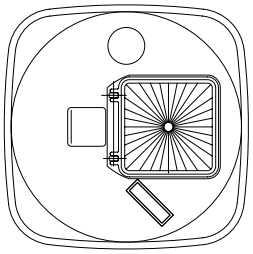


SOL 250





SOL 500



SOL H2O ANTIFREEZE TANKS

ITEM	Inner comp. capacity (liters)	Max dimensions (cm)			L x W base ø IN/OUT	Lid ø IN/OUT	Useful dimensions filter drainer	€
		H	L	P				
SOL250 H_2O	250	92	88	88	80x80	44x47	38x38xH18	862,83
SOL500 H_2O	500	106	110	107	89x89	44x47	38x38xH18	1.052,64

Color: H_2O

Overall dimensions with ± 1,5% tolerance, capacities with ± 4,6% tolerance.

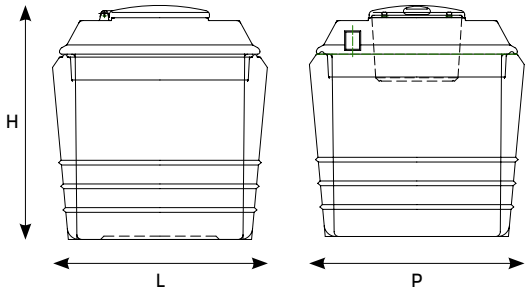
SOL 250 and SOL 500 THE V

TECHNICAL FEATURES

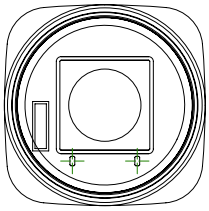
Linear polyethylene tank made of green mass-colored polymers. It consists of an internal collection compartment and an external containment tank. High mechanical strength, resistance to frost and hot sun from -60°C to +80°C. Fitted with a level indicator and a safety sight glass for checking the integrity of the inner container at any time. It has a filter-draining basket with removable grid for easy, immediate access to the contents. Using OIL TANK to collect vegetable oils ensures ideal respect for the environment. 100% recyclable.

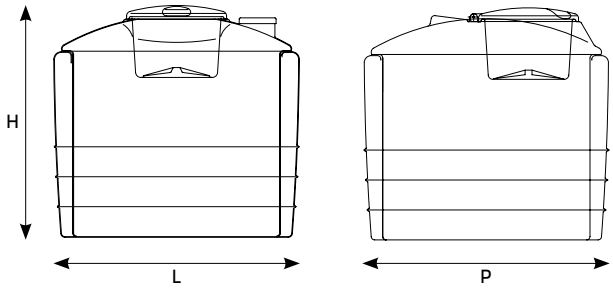
Download the data sheet



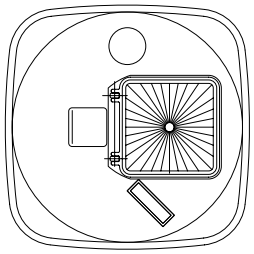


SOL 250





SOL 500



SOL THE V VEGETABLE OIL TANKS

ITEM	Inner comp. capacity (liters)	Max dimensions (cm)			L x W base ø IN/OUT	Lid ø IN/OUT	Useful dimensions filter drainer	€
		H	L	P				
SOL250 THE V	250	92	88	88	80x80	44x47	38x38xH18	862,83
SOL500 THE V	500	106	110	107	89x89	44x47	38x38xH18	1.052,64

Color: C94

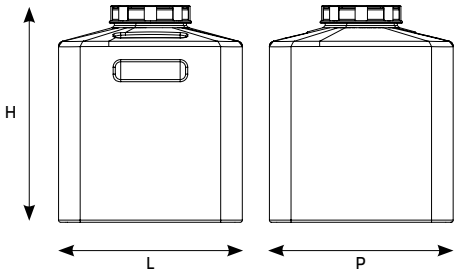
Overall dimensions with ± 1,5% tolerance, capacities with ± 4,6% tolerance.

VEGETABLE OIL CONTAINERS

Linear polyethylene tank made of green mass-colored polymers. High mechanical strength, resistance to frost and hot sun from -60°C to +80°C.
Ideal for collecting and handling small quantities of oil.
100% recyclable.



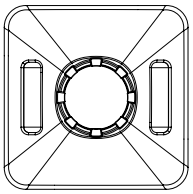




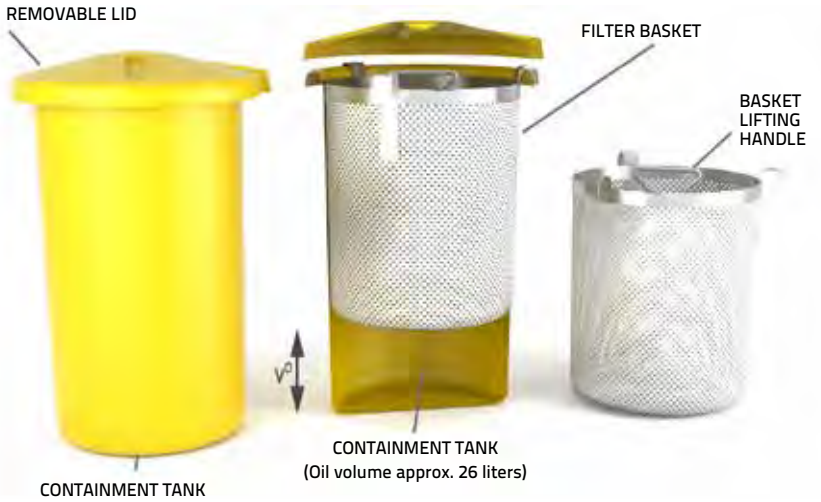
BOQN VEGETABLE OIL CONTAINERS

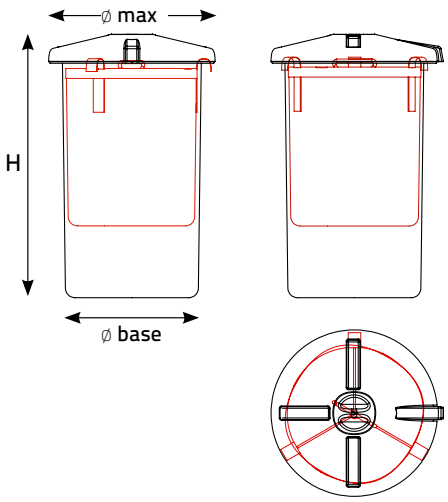
ITEM	Liters	L	P	H	Molded fittings	€
BOQN 30 THE V	30	34	34	40	1/2"	81,49
BOQN 55 THE V	55	34	34	61	1/2"	130,39

Color: C94



OIL FILTER CONTAINER CPF 100





OIL FILTER CONTAINER CPF 100

ITEM	V Total volume (liters)	V° Drained liquid volume (liters)	Dimensions (cm) H total	ø base	ø max	€
CPF 100	100	26	81	41	53	500,44

Standard standard CGI

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%



SOL BLACK

**For collecting used mineral oils
at service stations, workshops, industries, etc.**



SOL H_2O

**For collecting antifreeze and other emulsions
at service stations, workshops, industries, etc.**



SOL THE V

**For collecting used vegetable oil in
restaurants, canteens, apartment buildings, recycling centers, etc.**

OIL·TANK

DECLARATION OF CONFORMITY

TELCOM S.p.A. certifies that the SOL series, produced and marketed by our company, has been designed for the collection, storage and stockpiling of used oils, in particular to prevent soil contamination from accidental spills. TELCOM S.p.A. therefore guarantees its correct operation and declines all liability in the event of incorrect installation and use. (Tank NOT suitable for burial).

GARANZIA Telcom WARRANTY



MULTI-PURPOSE CHESTS

CONSTRUCTION SITE

Super MULTI-PURPOSE CHESTS

Designed to protect against impacts, dust, bad weather and tampering. Designed for easy handling, transport and stacking. Made of recyclable polyethylene, suitable for food use (black and PT), resistant to frost and hot sun (-60°C +80°C), resistant to acids, immune to mold and lichens, washable with common detergents. Wide range of sizes and colors to meet countless needs for work, hobbies, sport and home: tools, equipment, fragile objects, food, seasonal clothing, duvets and blankets, on boats, camping, moving house, diving equipment, firewood, toys, etc.

Sturdy containers
for transporting and storing
with maximum safety and convenience



Baule 45

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE 45 BL	Multi-purpose chest	45	45	35	Black	Black	35	20	32	**158,74**
BAULE 45 GS	Multi-purpose chest	45	45	35	Grey	Grey	35	20	32	**158,74**
BAULE 45 BLU/GI	Multi-purpose chest	45	45	35	Blue	Yellow	35	20	32	**158,74**
BAULE 45 BLU/RO	Multi-purpose chest	45	45	35	Blue	Red	35	20	32	**158,74**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%







Indestructible lever locks with steel striker and padlock eyelet.



Nylon hinges with stainless steel pins, low profile.



Raised feet on the base allow water and cables to pass and ensure optimal stacking with other HR chests of the same size.



Interlocking holes with drainage channels on the top against water and dirt.



Practical handles in galvanized steel



Baule HR 60

ITEM	DESCRIPTION	SIZES			COLOR	Volume (liters)	PIECES PER PALLET		€
		L	P	H			euro pallet	110x130	
BAULE HR 60 GI	Multi-purpose chest	60	40	46	YELLOW	66	16	23	**224,32**
BAULE HR 60 OG	Multi-purpose chest	60	40	46	OXFORD GREEN	66	16	23	**224,32**
BAULE HR 60 PT	Multi-purpose chest	60	40	46	WHITE SPECKLED	66	16	23	**224,32**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%







Container Tub
- Water- and dirt-proof perimeter edge.
- Ribs on the bottom to withstand any load.



Top Lid
- Sturdy ribs and deep interlocks for secure fixing of stacked items during transport.
- Water- and dirt-proof perimeter channel.



Baule HR 80

ITEM	DESCRIPTION	SIZES			COLOR	Volume (liters)	PIECES PER PALLET		€
		L	P	H			euro pallet	110x130	
BAULE HR 80 GI	Multi-purpose chest	80	40	46	YELLOW	92	12	12	**273,75**
BAULE HR 80 OG	Multi-purpose chest	80	40	46	OXFORD GREEN	92	12	12	**273,75**
BAULE HR 80 PT	Multi-purpose chest	80	40	46	WHITE SPECKLED	92	12	12	**273,75**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%









Baule 100 Slim

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE SLIM 100 GS	Multi-purpose chest	100	40	53	Grey	Grey	138	8	11	**323,80**



Baule 100/B Large

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE LARGE 100/B GS	Multi-purpose chest	100	60	45	Grey	Grey	151	4	8	**429,62**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%







Baule 110 Maxi

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE MAXI 110 GS	Multi-purpose chest	110	55	64	Grey	Grey	235	3	6	**471,95**



Baule Coffer 110

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE COFFER 110 GS	Multi-purpose chest	110	52	55	Grey	Grey	169	4	8	**550,26**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%







Baule 125 Large

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BAULE 125 BLU M./A.	Baule Trasloco	125	62	62	Blueberry Blue	Orange	266	3	3	**636,75**
BAULE 125 BLU MIRTILLO	Baule Trasloco	125	62	62	Blueberry Blue	Blueberry Blue	266	3	3	**636,75**

Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%





Baule della Nonna

ITEM	DESCRIPTION	SIZES			COLOR		Volume (liters)	PIECES PER PALLET		€
		L	P	H	Base	Lid		euro pallet	110x130	
BADN 100 PS	Baule	100	55	65	Dark speckled		262	3	6	**370,34**

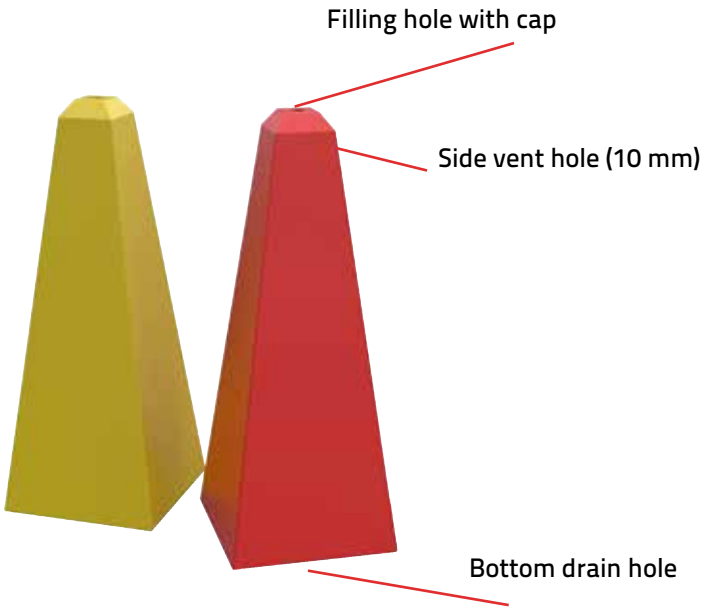
Overall dimensions tolerance ± 1,5% - Capacity tolerance ± 4,6%





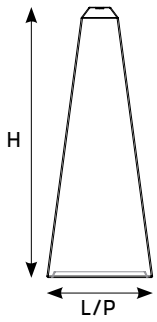
PSP 100 PYRAMID DELINEATOR

The PSP100 Pyramid Delineator is used to mark and delimit transit or clearance limits and routes in maneuvering areas for industrial and private vehicles. Stable, light and weatherproof, it has a 1" fitting so that it can be filled with water or sand.



PSP 100 PYRAMID DELINEATOR

ITEM	Col.	Ballast (liters)	Dimensions (cm)			€
			L	P	H	
PSP 100 YELLOW		30	40	40	100	85,00
PSP 100 RED		30	40	40	100	85,00



Download the data sheet

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

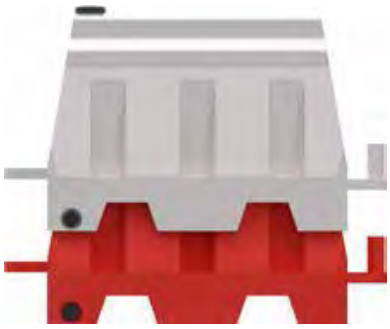
"NEW JERSEY" type LANE DIVIDER

Modular divider that can be "linked" and, if necessary, ballasted with liquids or sandy materials. Useful for marking lane limits or separating traffic lanes on construction sites, in car parks and at public events, and as a limit barrier for access and route control.

Easy to transport when empty, each divider has a level indicator and a safety "overflow hole" at 20 liters. It also has a "full drain" plug for quick removal from the areas of use.

Resistant to weather, heat and frost (-40°C + 60°C).





Light, sturdy and stackable for easy transport

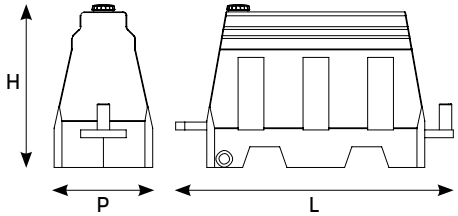


With a filling level indicator and an overflow hole at 20 liters

"NEW JERSEY" LANE DIVIDER NJ 100

ITEM	Col.	Dimensions (cm)			Maximum weight Kg.	€
		L	P	H		
NJ 100 WHITE	○	107	38	60	55	103,54
NJ 100 ROSSO	●	107	38	60	55	103,54

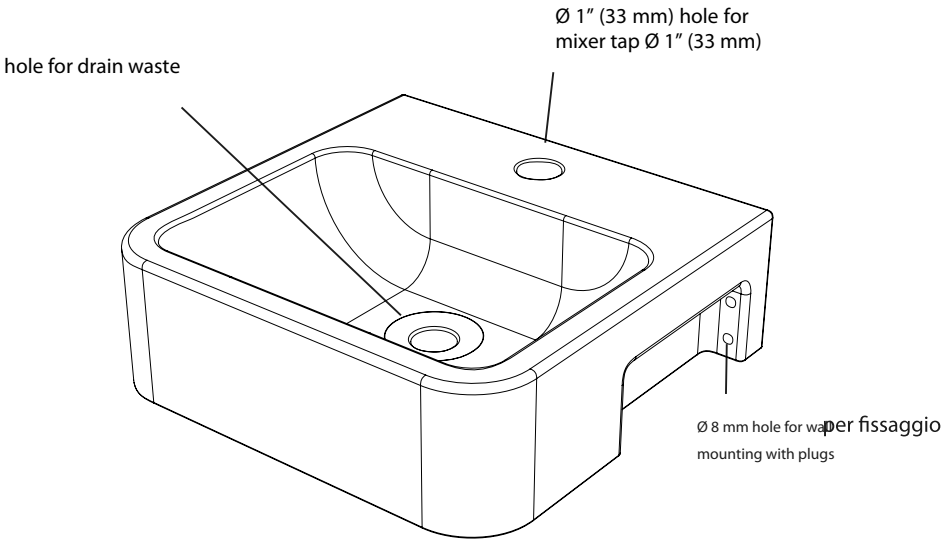
● Color on request



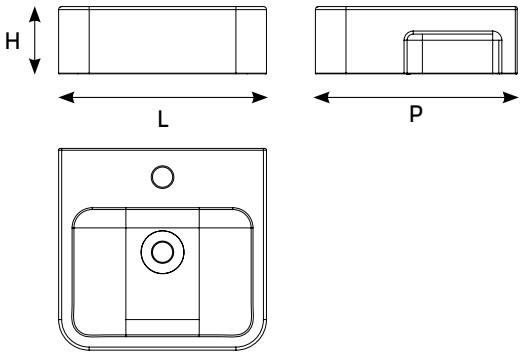
Download the data sheet

Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

WALL-MOUNTED HAND WASH BASIN







Wall-mounted HAND WASH BASIN

ITEM	Description	Standard	Dimensions (cm)			€
			L	P	H	
LAMU 34	Wall-mounted hand wash basin	PT	34	33	11	49,08
LAMU S 34*	Wall-mounted hand wash basin with accessories	PT	34	33	11	103,18

* The S version is supplied with the following accessories: 1. Fixing kit consisting of wall plugs and waste with plug and trap complete with seals specific for sanitaryware

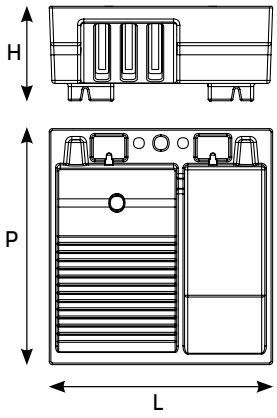
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Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

UTILITY SINK PILAV 70

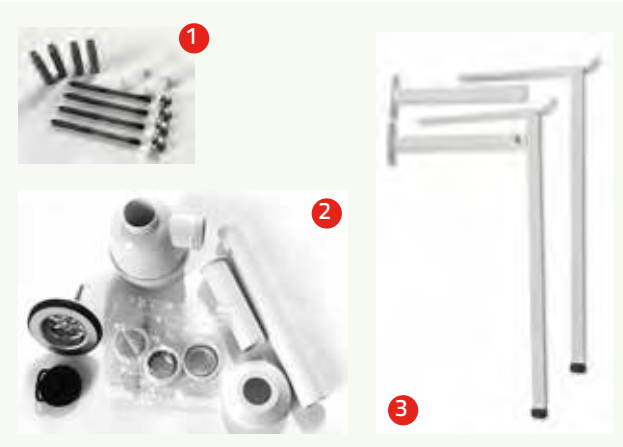




UTILITY SINK PILAV 70

ITEM	Description	Standard	Dimensions (cm)			€
			L	P	H	
PILAV 70	Utility Sink	PT	70	75	30	175,61
PILAV S 70*	Utility sink with accessories	PT	70	75	30	254,26

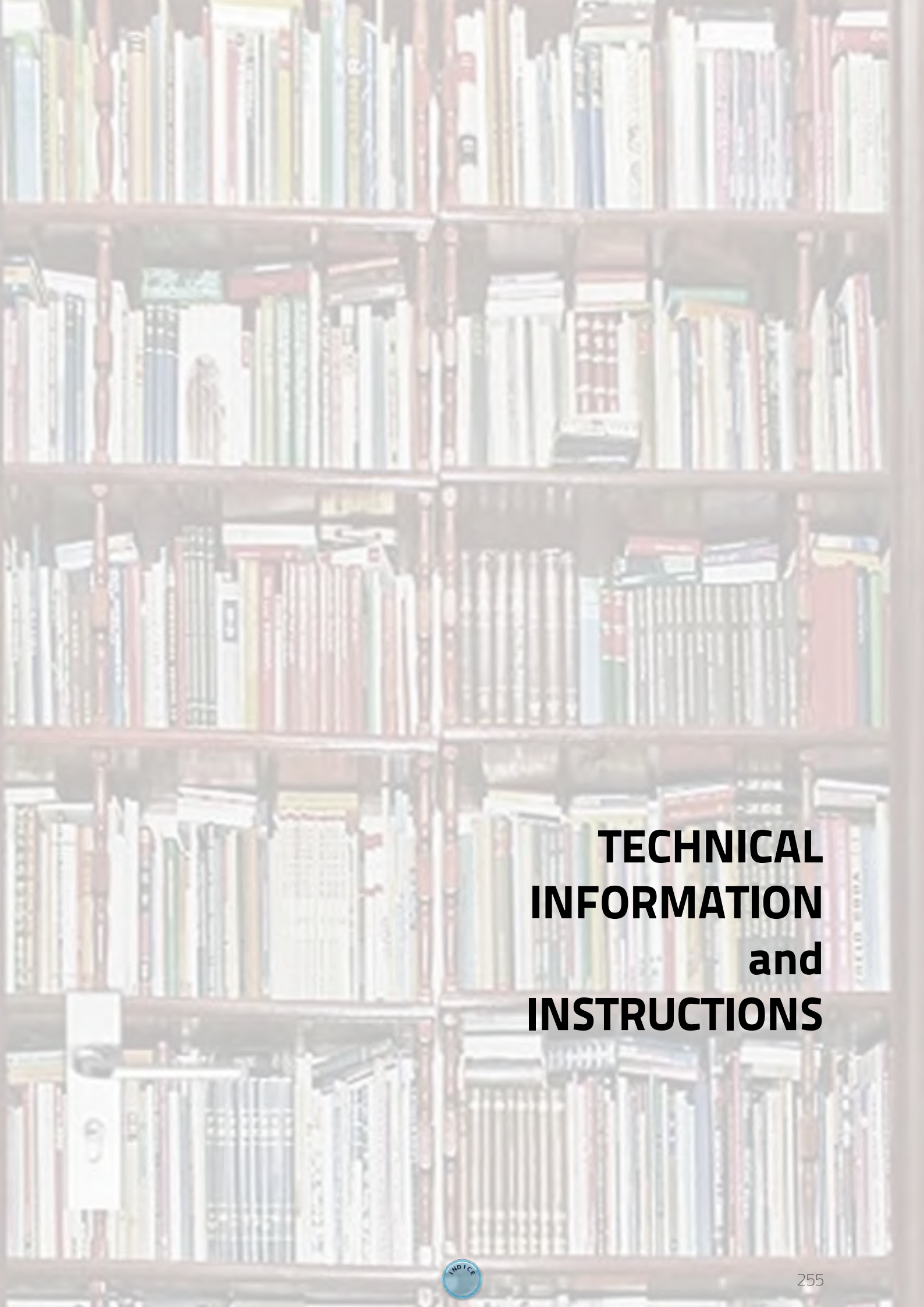
* The S version is supplied with the following accessories: 1. STAINLESS STEEL fixing kit specific for sanitaryware 2. Waste with plug and trap complete with seals 3. Adjustable metal wall brackets
(Height from the top edge of the basin = 70 cm)





Overall dimensions tolerance ± 1,5%
Capacity tolerance ± 4,6%

NOTES



TECHNICAL INFORMATION and INSTRUCTIONS

TELCOM product features

Suitable for food contact - Italian Ministerial Decree 104/73 as amended;
- EU Regulation No. 10/2011 and related standards EN 1186-1:2003, EN 1186-4:2003, EN 1186-5:2003
- M.O.C.A. certification

Resistant to temperature changes between -60°C and +80°C Suitable for liquids with (non-continuous) peaks between -10°C and +5

Supplied with hygienic caps



- Made of non-toxic MLDPE (medium-density linear polyethylene)
- Suitable for liquids at atmospheric pressure (primary collection tanks)
- Suitable for storing diesel, preferably BLACK tanks, in any case fitted with brass fittings and suitable seals (for this use the provisions of the competent authorities must be observed, according to the laws in force).
- U.V. resistant.
- Corrosion-resistant and immune to mold and lichens.
- Easy to wash with any household detergent.
- Practically unaffected by aging.

				ONDA Series Tanks	
MLDPE Properties	Unit	Value	ASTM Method	Value	Method
Melt Flow Index (190° C / 2,16 kg)	g/10'	4 ÷ 9	D 1238	0,25	ISO 1133
Density (23° C)	g/cm³	0,935 ÷ 0,940	D 1505	0,954	ISO 1183
Melting point	°C	126 ÷ 128	DSC	135	Internal
Brittleness temperature	°C	<-70	D 746	<-60	ASTMD 746
Vicat softening temp. (1 kg oil 50° C min)	°C	113 ÷ 117	D 1525	125	ISO 306/A
Yield strength	MPa	17 ÷ 19	D 638	27	ISO 527
Tensile strength	MPa	16 ÷ 21	D 638	30	ISO 527
Elongation at break	%	800 ÷ 900	D 638	>600	ISO 527
Flexural modulus	MPa	600 ÷ 690	D 790	1200	ISO 178
Shore D hardness		55 ÷ 60	D 2240	64	ISO 868/A
Resistance to surfactants (ESCR)	h	200 ÷ 400	D 1693 (B)	>60	ASTM D 1693 (B)

WARNINGS

- All installation and burial operations must be carried out in compliance with current occupational safety regulations;
- For all handling operations use lifting and transport equipment suitable for the weight of the unit;
- Above-ground tanks may not be buried except as described in the Instruction and Warranty Booklet.
- Underground tanks may be placed above ground, except for the NER and XXLI models and all their versions (in any case, contact our Technical Department before proceeding);
- Do not use the tanks for liquids that are not compatible with polyethylene.

INSTALLATION SITE

Before choosing the model of our tank, make sure that the route and the place where it is to be installed are wide enough and that there is a flat, solid and smooth base to support the weight of the full tank. The tank must rest entirely on the base, must be level and must not be installed near heat sources. The tank walls must not rest on any masonry or object and must be at least 20 cm away from them. Specifically for the XXLE series, the feet are 20 mm above the ground when the tank is empty, and no shims or spacers must be placed under them. Always consult a technician about the load resistance of the structures on which the tank is to be installed.

INSTALLATION

When connecting rigid mains piping to our fittings (or extra fittings fitted by you, or fitted or welded by us to your specifications), flexible hoses at least twice the diameter of the fitting, or an expansion joint, must be inserted, to prevent the fittings from being subjected to stress, bending and tension due to the continuous filling and emptying of the tank. This could cause slight, imperceptible flexing of the walls, which would damage the fittings if the above precautions are not taken. To obtain a perfect seal between the thread of the fitting and that of the hose, apply a few layers of Teflon (PTFE) tape in the right quantity without overtightening. Finally, screw the lid onto the tank without tightening and make sure that the vent valve (or vent system), which keeps the pressure inside the tank constant, works. If necessary, vents of different sizes can be used according to specific system requirements. In the event of accidental breakage of the fitting, proceed as indicated in the "Instruction and Warranty Booklet" (in which case

a bulkhead fitting must be installed). In all installation or repair operations, always use a specialized operator who carries out the work with all necessary safety measures.

TRANSPORT

During transport never knock the tank against edges or blunt objects: although very impact-resistant, it could suffer damage that is not immediately visible. We also recommend securing the tanks with canvas straps around the tank body. Never move the tank when full.

HANDLING OF LARGE-CAPACITY TANKS AND SYSTEMS (by the purchaser)

For tanks up to **20.000** liters, i.e. units weighing less than 900 kg and shorter than 6 meters, handling can be done with a forklift or other lifting system, provided the slings can be fastened around the unit. In this case loading onto the vehicle can also be done from the side. For larger tanks, suitable lifting equipment for the weight and size of the units must be used for both loading and unloading (for a **50,000-liter** tank, for example, lifting equipment with a capacity of 5000 kg is needed). In the latter case the truck must be loaded from above. During loading and transport take care not to let the tank hit edges or blunt objects. Although extremely impact-resistant, its own inertia could cause damage not visible to the naked eye. During transport the unit must also be secured with canvas straps.



Handling large XXLI and XXLE tanks requires textile slings which, for safety reasons, must have a capacity of more than 4500 kg.

WARNINGS

A correct installation procedure is essential for successful burial.

1. In all cases, the assistance of a competent technician is required, who recommends the most suitable choices for the soil characteristics, follows all stages of the operation and issues a written report on the work carried out. This document must be kept together with the traceability code attached to the tank. Without these documents the warranty offered by Telcom s.p.a. is void.

2. When digging the excavation, follow good engineering practice and comply with current occupational safety regulations.

3. For the INSM, XXLI, NER, CIV and PLS series (except PLS 2000 and PLS 3000), use the tank for burial only. Above-ground use is not permitted and in any case voids the product warranty. Under normal conditions of use, the tank must be filled at most up to its neck, without filling any extension (dome).

4. During installation, we recommend closing the excavation as soon as possible, since sudden torrential rain or exceptional events could cause water to stagnate and irreversibly damage the tank.

5. The burial area will be pedestrian-only, and vehicle transit will be prohibited within 2 m of the excavation. The area can be made suitable for cars or trucks. Any work or structure for vehicle traffic must be designed by a competent technician. Such structures or any other construction or unit (low walls, manholes, etc.) must never bear on the tank.

6. At the top, around the excavation, a clear zone about 60 cm wide must be left to prevent the soil from collapsing and allow operators to move during burial.

7. Make sure the unit does not come into contact with roots, rocks or sharp objects that could damage it.

EXCAVATION SOIL STABILITY

WARNING: if the tank is to be placed where there is a shallow water table or in landslide-prone or clay soils, on slopes, in positions exposed to rainwater channeling, on beaches, etc., go to the chapter on "INSTALLATIONS IN DIFFICULT CONDITIONS".

SOIL TYPE	ANGLES OF NATURAL SLOPE		
	Dry	*Damp*	*Wet*
Hard rock	80-85°	80-85°	80-85°
Soft or fissured rock, Tuff	50-55°	45-50°	40-45°
Rubble	45-50°	40-45°	35-40°
Gravel	35-45°	30-40°	25-35°
Coarse sand (non-clay)	30-35°	30-35°	25-30°
Fine sand (non-clay)	25-30°	30-40°	20-30°
Topsoil	35-45°	30-40°	20-30°
Compact soils	45-55°	35-45°	25-35°

Soil can be considered stable if the slope of the excavation walls does not exceed the angle of natural slope. The causes that impair stability are: - persistent rain - water from water tables or pipe leaks freezing and thawing - vibrations from construction machinery operating in the immediate vicinity

BURIAL PROCEDURES:

Dig the excavation considering that, in addition to the tank dimensions, an extra 30 cm must be allowed on each side beyond the overall dimensions, as shown in Figure 1 and Figure 2. The bottom of the excavation must allow perfect drainage, to prevent water from stagnating and accumulating.

1. Dig the excavation with the dimensions and wall slope suggested in Figure 1 and Figure 2: -
   Rocky soils: angle α 80/85° -
   Compact soils: angle α
   45°/55°, - Sandy soils: angle α 30°/35°



Fig. 1

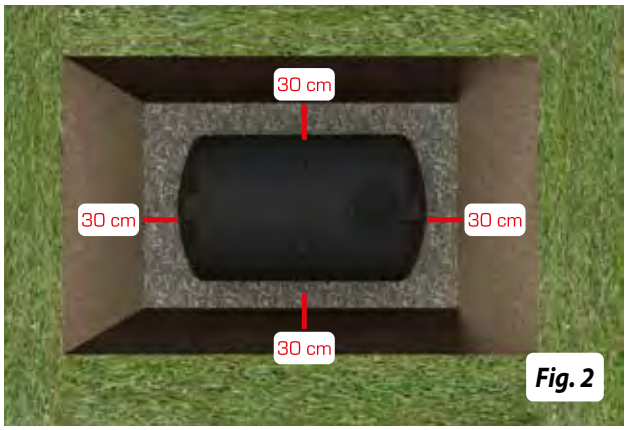


Fig. 2

2. Create a 15-20 cm bed of non-recycled sand, laying at least one drainage pipe in it. Carefully level the base, removing any unevenness. Make sure the support area does not give way under the weight of the full tank.

3. After checking the integrity of the tank, move it empty (Figure 3) using the lifting eyes, if present, or a sling passed through the grooves of the unit.

4. Level the tank and any extension chamber perfectly. Make all hydraulic connections to the rest of the system and check for leaks before continuing with burial.


Fig. 3



It is essential to compact each layer added as much as possible.
Excellent burial results can be achieved by using lightweight concrete instead of sand. In this case too, pour in successive layers that must be leveled, taking care not to exceed a thickness of 20-30 cm per layer and not to pour excessive quantities at once, both to avoid damaging the tank and to prevent localized build-ups and consequent voids in adjacent areas. The layers must be poured allowing the ***concrete to set and form a firm base for the next layer.***

5. Fill the tank with about 20-30 cm of water and fill the space between the tank and the excavation wall with fine sand (S.W. max 1,5 kg/dm^3) up to the water level, in layers of about 20-30 cm at a time (Fig. 3), taking care to compact them perfectly using a wooden stake or other suitable means. Avoid pouring fine sand in large quantities, as this could create build-ups capable of deforming the tank, while generating voids in other areas.

6. Continue burial in successive layers, each time matching the level of the layer to that of the water being fed into the tank, until it is completely full.

7. We recommend filling the top of the pit, up to the start of the dome extension, if present, with non-recycled sand, completing the last burial stage with topsoil (height 10 cm ≤h ≤15 cm), taking care not to exceed the maximum burial depth of 30 cm, as shown in figure 4. (~ 50 cm for the NER, CIV and PLS series).

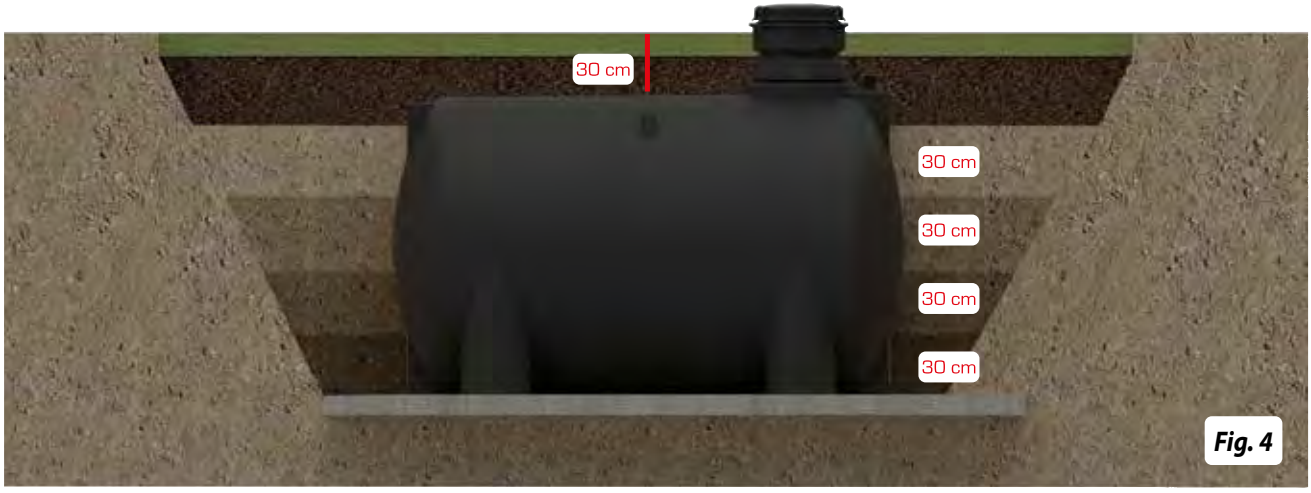


Fig. 4

8. Leave the buried tank full of water with the lid screwed on for at least two days to allow better **settling. Before use, especially with hydraulic pumps, make sure an adequate vent system has been installed to prevent a vacuum from forming, allowing air to flow in constantly while the tank is being emptied.**

INSTALLATIONS IN DIFFICULT CONDITIONS

If the tank is to be placed in landslide-prone or clay soils, on slopes, in positions exposed to rainwater channeling, on beaches, etc., a competent technician who knows the morphological and hydrogeological characteristics of the installation area must be consulted to define the most appropriate actions.

- Where there is a shallow water table that may rise, water must be prevented from reaching the unit. A geotechnical report by a specialized technician is recommended, calculating the water thrust and sizing the base slab and the concrete retaining walls accordingly.

(the burial procedure remains as described in PROCEDURES, points 1 to 8)

- Also for installations on or near slopes, the tank must be enclosed by reinforced concrete walls sized by a competent technician.

(the burial procedure remains as described in PROCEDURES, points 1 to 8)

- Where rainfall is expected and when burying in landslide-prone, clay or marshy soils, or soils that do not allow deep drainage, rainwater must be prevented from exerting pressure on the unit and must be able to drain away. A competent technician must calculate the soil thrust and size a retaining structure. The tank must then be backfilled, the bottom of the excavation covered with 20/30 mm washed gravel and a drainage system provided. A possible solution is shown in figure 5, with a water collection system based on a drainage well. The collected water can be removed with a sewage pump that drains the bottom of the well. Such structures or any other construction or unit (low walls, manholes, etc.) must never bear on the tank.

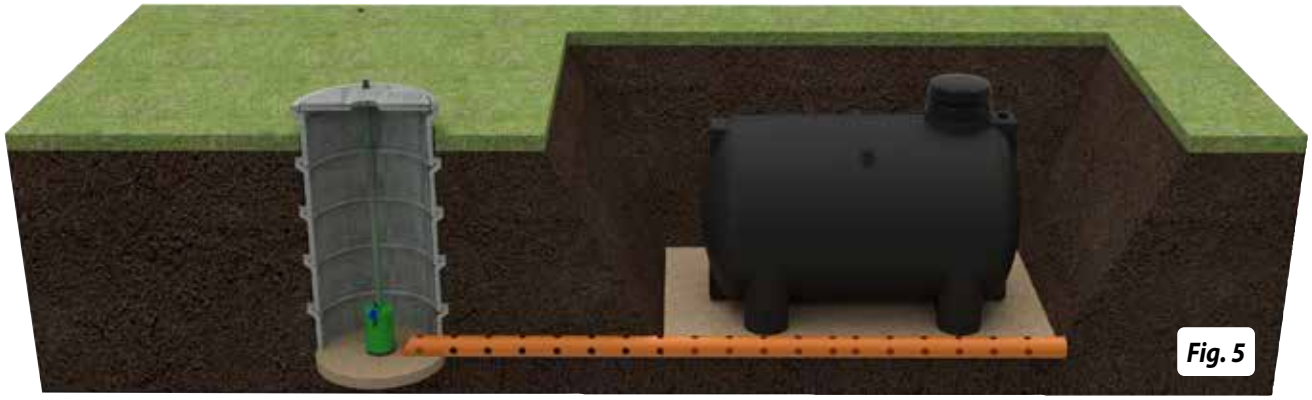


Fig. 5

ADVICE ON SANITIZING STORAGE TANKS WATER FOR HUMAN CONSUMPTION

Various products can be used to clean and sanitize drinking water storage tanks, but the most common are chlorine-based. Standard EN 805 "Water supply - Requirements for systems and components" lists sodium hypochlorite among the chemicals for disinfecting water distribution systems, with a maximum concentration of 50 mg/l (50 ppm). Sodium hypochlorite is a clear liquid antimicrobial compound; the commercial product normally used for water chlorination is a 12-13% sodium hypochlorite solution.

It is important to stress that any product used must be compatible with water for human consumption.

The steps to take are as follows:

1. Empty the tank through the bottom valve after closing the inlet valve;

2. Remove any solid residues deposited on the bottom;

3. Fill the tank with water while adding the disinfectant up to a maximum concentration of about 50 mg/l.; 4. Keep the tank in this condition for about 8 - 10 hours;

5. Run the pressure booster to empty the tank, passing the water through the internal pipes with the taps open; 6. Refill the tank by opening the inlet valve and let the water run for about 30 minutes with the taps open to remove excess chlorine.

N.B. The water leaving the sanitized tank must have a maximum residual chlorine concentration of 0,2 mg/l

CHLORINE SOLUTION CONCENTRATION

Residual chlorine (mg/l)	0,5%	1%	5%	15%	
0,2	40	20	4	1,33	Milliliters to be
0,5	100	50	10	3,33	
1,0	200	100	20	6,66	
1,5	300	150	30	9,99	
2,0	400	200	40	13,32	
3,0	600	300	60	19,98	

- The volumes in ml (milliliters) to be injected refer to 1 m^3

LEGAL GUARANTEE OF CONFORMITY

This legal guarantee of conformity applies exclusively to contracts for the sale of Telcom products concluded between a professional seller and a consumer and is governed by Articles 128 to 135-septies of Legislative Decree no. 206 of 6 September 2005 (Italian Consumer Code), as in force and as amended by Legislative Decree no. 170 of 4 November 2021, implementing Directive (EU) 2019/771.

1. Scope and party liable

Consumer means the natural person who purchases the product for purposes outside their entrepreneurial, commercial, craft or professional activity. The party liable to the consumer under the legal guarantee of conformity is the professional seller named in the purchase document. Where Telcom S.p.A. is also the seller, Telcom S.p.A. is liable in that capacity and as provided by law.

Seller named in the purchase document: the seller from whom the product was purchased, which may be Telcom S.p.A. or its distributor.

In order to exercise the rights provided by law, the consumer may contact the seller at the contact details given in the purchase document or in any service documents supplied with the product.

2. Conformity of the product

The seller must deliver a product that conforms to the contract of sale. The product must match the description, type, quantity, quality, functionality, compatibility, interoperability, safety and durability provided for in the contract, as well as the characteristics normally expected of a product of the same type. The product must also be fit for the ordinary use for which products of the same type are intended and, where the consumer has made a specific use known to the seller and the seller has accepted it, for that use. The instructions supplied with the product, including those on installation, use, maintenance and, where applicable, burial, must be followed for the product to be used correctly. Where installation is provided for in the contract and is carried out by the seller or under the seller's responsibility, or where the defect results from incomplete or incorrect installation instructions supplied by the seller, incorrect installation is assessed under the rules on the legal guarantee of conformity.

3. Duration of the seller's liability

The seller is liable for any lack of conformity existing at the time of delivery and becoming apparent within two years of delivery of the product, within the limits and under the conditions laid down by law. The action to assert a lack of conformity is time-barred twenty-six months after delivery. The seller's liability and the assessment of whether a defect exists are determined according to the presumptions, the burden of proof and every other rule laid down by the Consumer Code. For second-hand products, any agreement on the duration of liability is valid only within the limits permitted by law.

4. Notifying and verifying the defect

The consumer may notify the seller of the lack of conformity, describing the problem found and stating, as far as possible, the date on which the defect became apparent. The consumer must make the product available to the seller, in a reasonable manner, so as to allow the necessary checks and the application of the appropriate remedy. Proof of purchase and of the date of delivery may be given by documents or other reasonably suitable evidence, such as an invoice, a commercial document, an electronic receipt, an order confirmation, a payment statement or equivalent documentation. It is not necessary to produce the original till receipt or invoice where the purchase and the date of delivery can be proved by other suitable means.

5. Remedies provided by law

In the event of a lack of conformity, the consumer is entitled first of all to have conformity restored by repair or replacement, at their choice, unless the remedy requested is impossible or would impose on the seller costs that are disproportionate to the other remedy provided by law.

Repair or replacement must be carried out free of charge, within a reasonable period and without significant inconvenience to the consumer, taking into account the nature of the product and the purpose for which it was purchased. Free of charge covers all the costs necessary to restore conformity, including the costs of shipping or collection, transport, labour and materials.

The consumer may request a proportionate reduction of the price or the termination of the contract in the cases and under the conditions laid down by law, including, by way of example, where the seller has not restored conformity within a reasonable period and without significant inconvenience, where the defect persists after an attempt at repair, where the defect is serious enough to justify the remedy requested, or where it is clear that the seller will not restore conformity within the time and in the manner laid down by law. Termination of the contract may not be requested where the defect is minor, save as otherwise provided by law. In the event of termination, the return of the product and the refund of the price take place in the manner and within the time limits laid down by the Consumer Code.

6. Circumstances that do not constitute a lack of conformity

Damage or malfunctions arising, after delivery, from incorrect installation not attributable to the seller or to instructions supplied by the seller, from improper use or handling, from use for purposes other than those intended, from maintenance not in accordance with the instructions, from unauthorised modification or repair, from normal wear and tear, from accident, force majeure or extraordinary weather events do not constitute a lack of conformity, if and to the extent that the seller proves the causal link with the circumstance relied upon.

Compliance with the installation, use and maintenance instructions is necessary in order to preserve the product and to assess its conformity correctly. The circumstances set out in this article do not, however, entail automatic forfeiture: they must be assessed on the facts of the case and must be causally connected to the damage or malfunction complained of.

7. Mandatory rights

This legal guarantee neither limits nor excludes the rights granted to the consumer by the Consumer Code and by the other applicable mandatory provisions. Any provision incompatible with those rights is deemed to be replaced or disapplied to the extent provided by law.



TECNOLOGIE PER L'UOMO

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The overall dimensions of the items have a tolerance of ± 1,5%, capacities have a tolerance of ± 4,6%.

Modular tanks and systems are produced under license - patent application number PI2005A00084

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PLUVIUM
RAINWATER RECOVERY

ECO® AQUARIUS
WASTEWATER AND STORMWATER TREATMENT

OIL-TANK
USED OIL CONTAINERS

Jolly
CHESTS AND CONSTRUCTION SITE

vasar
GARDEN POTS

TERRACOTTA GARDEN POTS

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OUTDOOR and INDOOR FURNITURE

MUSEUM
COLUMNS STATUES BAS-RELIEFS

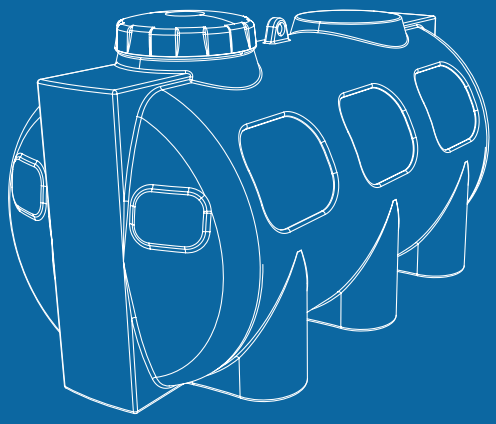
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INDICE

4000 - 9 / 2026

Edizione 2026



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