



WATER

Intelligent eco solutions

1

0

factories



Puconci | Slovenia



Jesenice | Slovenia



Roto Group Headquarters | Slovenia



Naivasha | Kenya e



Koper | Slovenia |



Ivanić Grad | Croatia



Vinica | Macedonia



Alibunar | Serbia



Pregrada | Croatia



Milano | Italy



The Roto Group is a leading international company specializing in the manufacture of high-quality polymer products. With a heritage dating back to 1949, this family-run enterprise has grown into a global player, employing over 600 people across ten production facilities in various European countries and Africa. In 2025, Roto generated over €100 million in revenue, delivering innovative solutions to over 72 countries worldwide.

As a leading rotomoulding specialist, Roto offers an extensive portfolio of more than 4,800 diverse products. Our commitment to excellence is driven by continuous investment in R&D, leveraging cutting-edge technologies and advanced materials developed in collaboration with leading scientific institutes, universities, and industry partners.

The Roto brand is strategically divided into four core segments: Agriculture, Garden, Sport & Nautica, Ecology & Environmental Solutions.



EY award for the most successful family business in the world in 2016

By utilizing advanced composites, biodegradable materials, and recycled polymers, we are capable of manufacturing the most complex and sustainable products on the market today.

Beyond our proprietary lines, Roto is a trusted supplier of high-precision components for various sectors, including the automotive, marine, construction, agricultural machinery, aquaculture, and logistics industries. We deliver significant added value through innovative design, the application of intelligent polymers, and a wide array of specialized accessories, ensuring our partners receive products tailored to their exact technical requirements.

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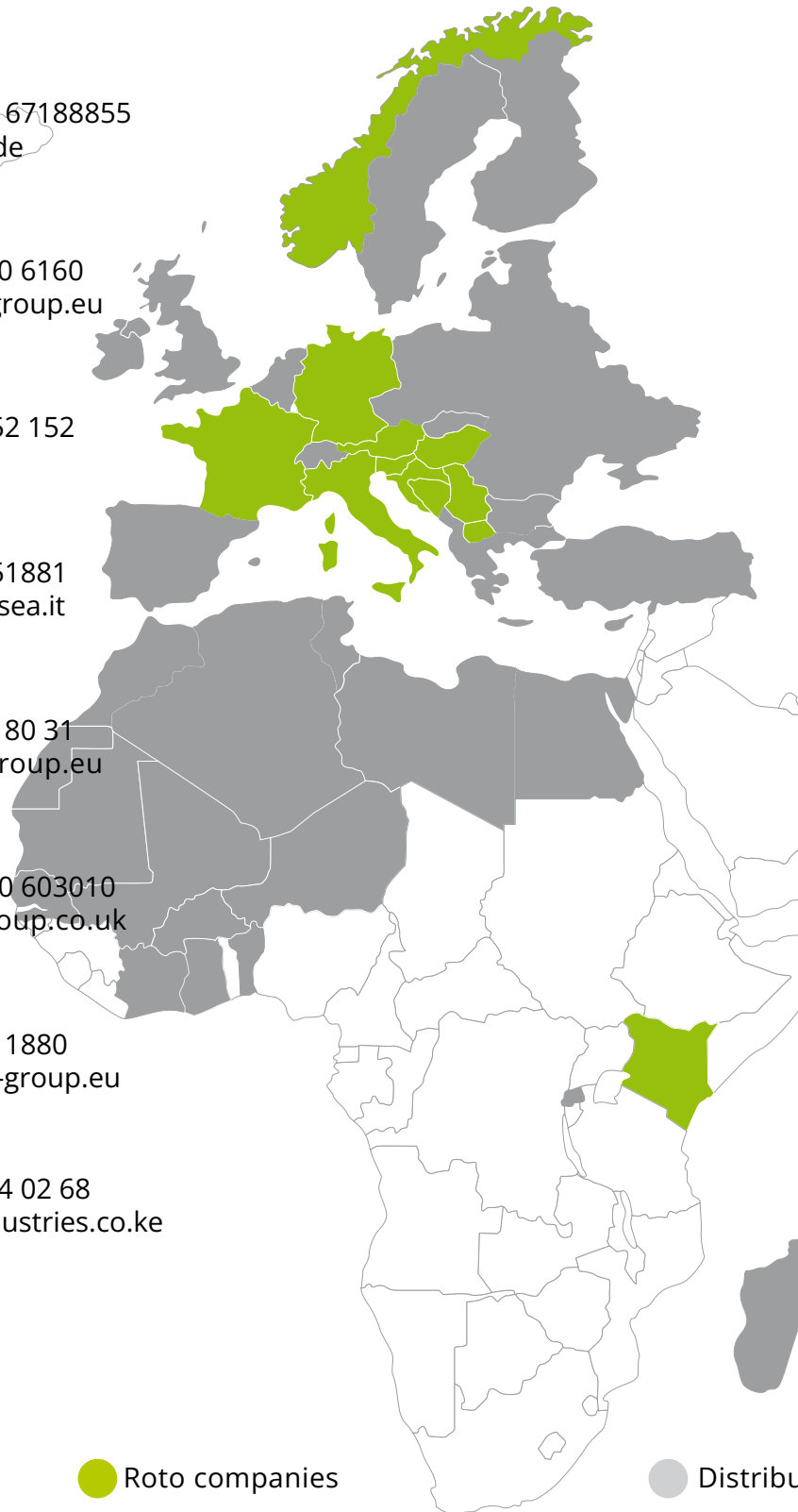
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 Roto companies

 Distributors

Over 4000 different products



WATER

water tanks, waste water treatment plants, oil separators, septic tanks, shafts



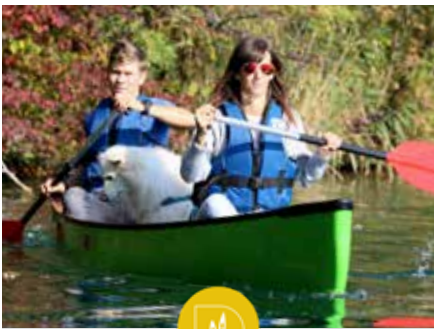
AGRI

winebarrels, barrels for brandy, vinegar, sauerkraut containers, silo, wheelbarrows



GARDEN

planters and flower pots, garden figures, garden furniture, ponds, composters



SPORT

kayaks, canoes, boats, karting barriers



LOGISTICS

containers, pallets, road barriers, karting equipment



INDUSTRY

agricultural machinery, caravanning, nautic, moto



RoTerra 44



RoCko 56



RoCube 62



RoQuadro 61



Water tanks

EcoBox 78



RoClean 69



RoOxy 80



EcoBlue 82



Waste water treatment plants

RoEco 64



EcoFloat 90



RoSeptic 96



RoSeptic 97



Septic tanks

RoGra 101



RoFett 102



RoGre 103



RoMast 104



Grease separators

RoSep 110



RoSep drive 114



RoPetrol 116



RoOil 117



Oil separators

Drainage shafts 124



Water calming shafts 130



Road gullies 131



Water meter 132



Shafts

RoPump 134



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Accessories 144



EkolingAir 147



Pumping stations

PROJECT DELIVERY PROCESS

The ROTO technical team offers comprehensive support throughout the entire project lifecycle, from initial planning to facility management. Our smart water management solutions encompass a full range of services, including project development, engineering, procurement of components, and ongoing technical maintenance. Additionally, we provide complete project documentation tailored to your needs.





from idea,
to installation



Products Selection

Contact a ROTO distributor for assistance with selection and sizing. Our friendly and knowledgeable experts are here to help. With product configurator you can easily select, design, configure, price and quote appropriate product or system solutions for your industrial, municipal or commercial project and applications thought ROTO ECO calculators. Drawings and technical description are available to designers and architects on professional software libraries like BIM.



Support for any situation

How do I contact ROTO customer service? As an installer, you have the choice of ordering ROTO customer service from your specialist wholesaler, Roto country distributor or contacting us directly. As a private customer, we ask that you refer to a specialist installation company in your area. Membership to the ROTO technical institute is free and offers access to webinars, technical data about the products and other training resources.



Spare parts shop

The ROTO online spare parts shop: 24-hour service for accessories and spare parts of our products. Get replacement ROTO parts with easy selection and fast delivery.

Special product for your project

The ROTO water products could be customised to your specifications and needs. They can be delivered, installed and supported by a ROTO technical team that knows the importance of being responsive. We can also help you to upgrade the existing products and solution or adapt it according your needs.

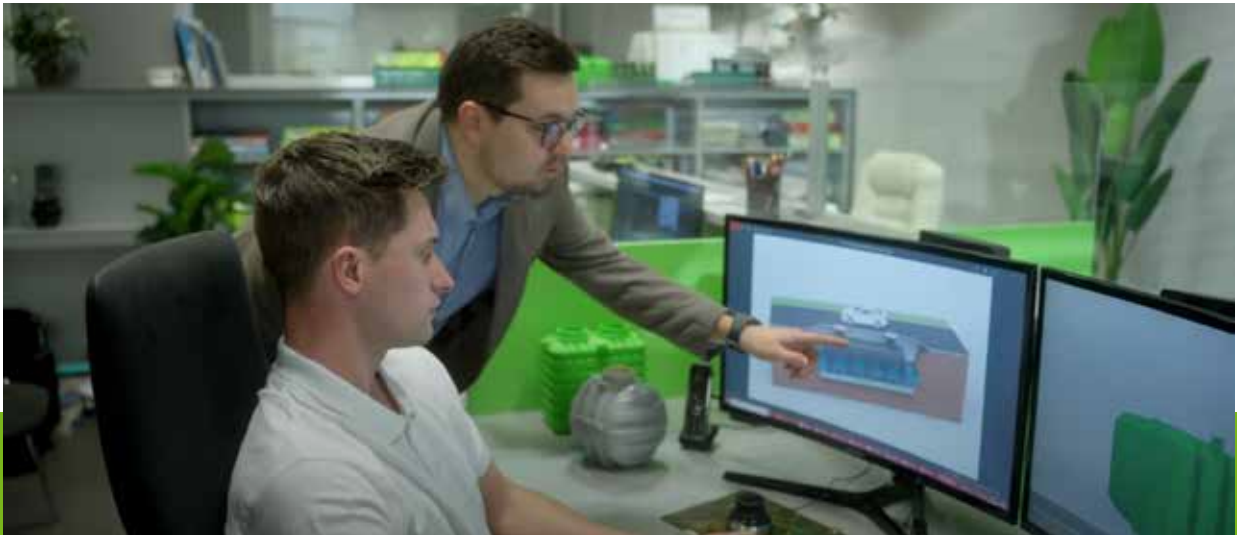
Install & Operate

Ensure that your system functions at its best from day one. Find how-to guides, videos, FAQs, user manuals, technical documentation and related services to help you with installation and operation of your ROTO products. Discover a range of online engineering, installation and operation tools and up-to-date product design information that can assist you in your work today, and help you work smarter over the long run.

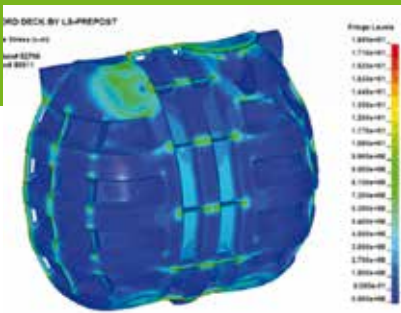
Repair & Maintain

Ensure that your system continues to function at its best. Find how-to guides, videos, FAQs and related services to help you with repair and maintenance of your ROTO products. Look for how to guides here to find quick and easy guidance and support for all phases of your project.

3 new products a week



Roto offers professional support to designers and architects. Our standard products are readily available in BIM libraries. While we offer a wide portfolio of serial products, our key success factor remains our flexibility. We take pride in developing bespoke solutions tailored to your specific wishes and requirements. This includes the adaptation of products either at the factory or directly on-site to meet specific project needs, alongside the professional preparation of all necessary technical documentation.



Computer simulations
and AI



The biggest 3D printer
on the world



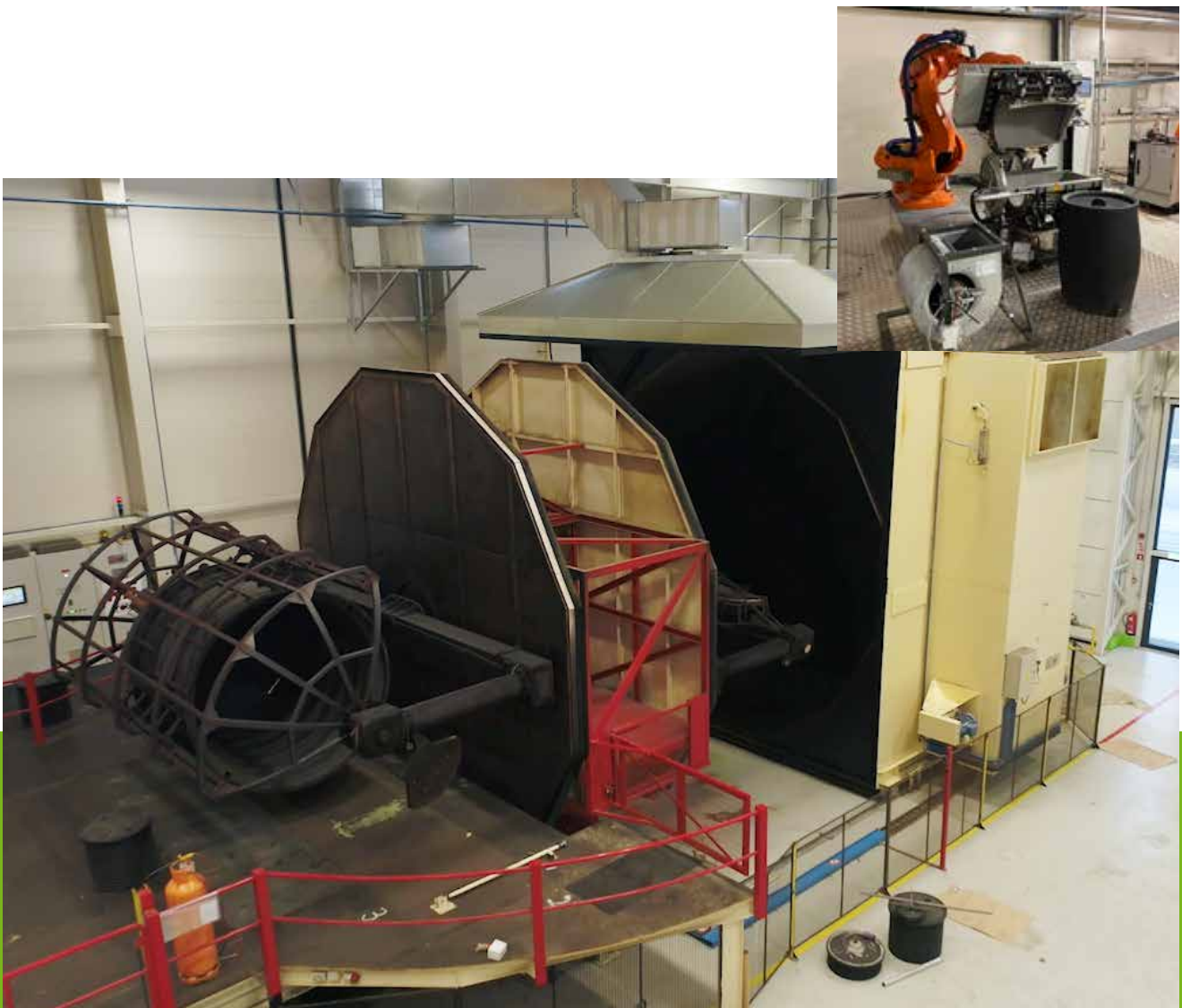
In-house mould
manufacturing

As an innovation-driven company, we are constantly exploring new technologies and ideas. Our R&D center, home to 40 technical experts, develops over 150 new products annually.

ROTO provides end-to-end solutions for our partners, spanning from 3D computer-aided design and simulation to 3D prototyping, tooling, and full-scale mass production.

factories 10

Large-scale production capacity



72 rotomoulding machines and robots designed to produce large monolithic tanks up to 35,000 L

Own laboratory



The ROTO laboratory analyses various waste water parameters such as COD, BOD₅, TOC, SS, etc. We also carry out in-house microscopic and microbiological analyses of waste water as well as the performance of oil traps.

Product Performance & Structural Integrity Testing

At our testing facility, ROTO conducts rigorous performance simulations to evaluate the impact of diverse environmental and operational factors.

Static Load Analysis: Verifying the structural stability and long-term deformation resistance of the tanks.

Dynamic Traffic Load Testing: Simulating high-pressure forces to ensure full structural integrity under heavy-duty vehicular traffic (up to 40 tonnes).

Groundwater Pressure Resistance: Testing the tanks' durability and buoyancy control against high external hydrostatic pressures.

Operational Efficiency: Measuring purification performance, watertightness, and the overall longevity of the advanced materials used in production.



Certification of ROTO products is carried out by institutes in different countries



Composite materials

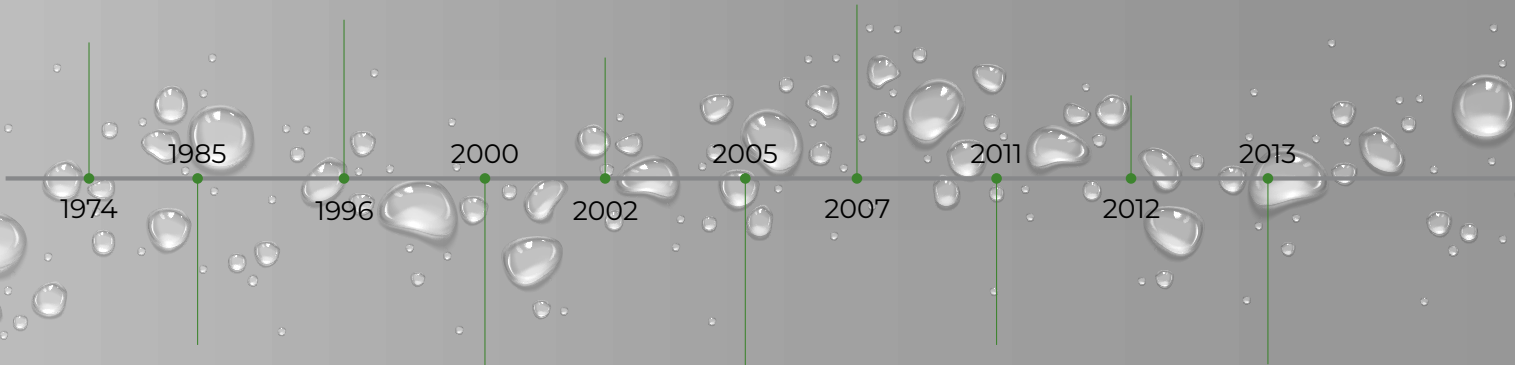
We manufacture pipelines and equipment for drinking water and waste water for water storage facilities, pumping stations, decanters for waste water treatment plants, and mixers for waste water treatment plants. We also carry out installation work on drinking water facilities.

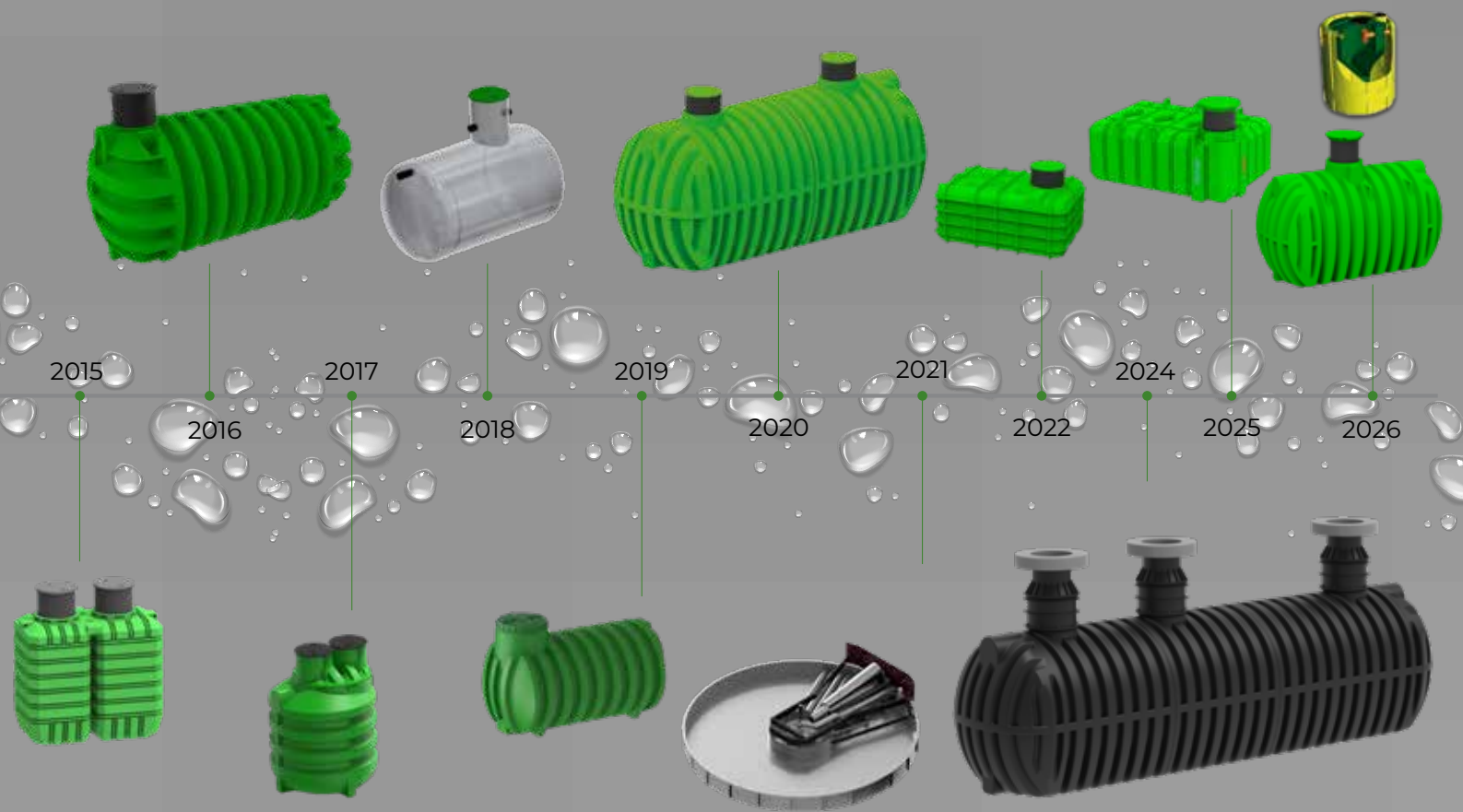


Underground GRP (Glass Reinforced Plastic) tanks provide a high-strength, durable solution for the containment of potable water, wastewater, and various chemicals. Engineered with a robust exterior for both subterranean and surface installations, these tanks feature specialized internal resins tailored to the specific chemical properties of the stored liquid. Additionally, our vertical polyester tanks, equipped with integrated stands, ensure the secure storage of chemicals and all water types.

50

years
tank
evolution





2015

2016

2017

2018

2019

2020

2021

2022

2024

2025

2026

APPLICATIONS

RoFire



fire
water tanks

RoDrive



drivable
water tanks

RoAqua



drinking water
tanks with dry
chamber

RoDrink



drinking
water tanks

RoCube



garden kit
rainwater
harvesting

RoTerra



house kit
rainwater
harvesting

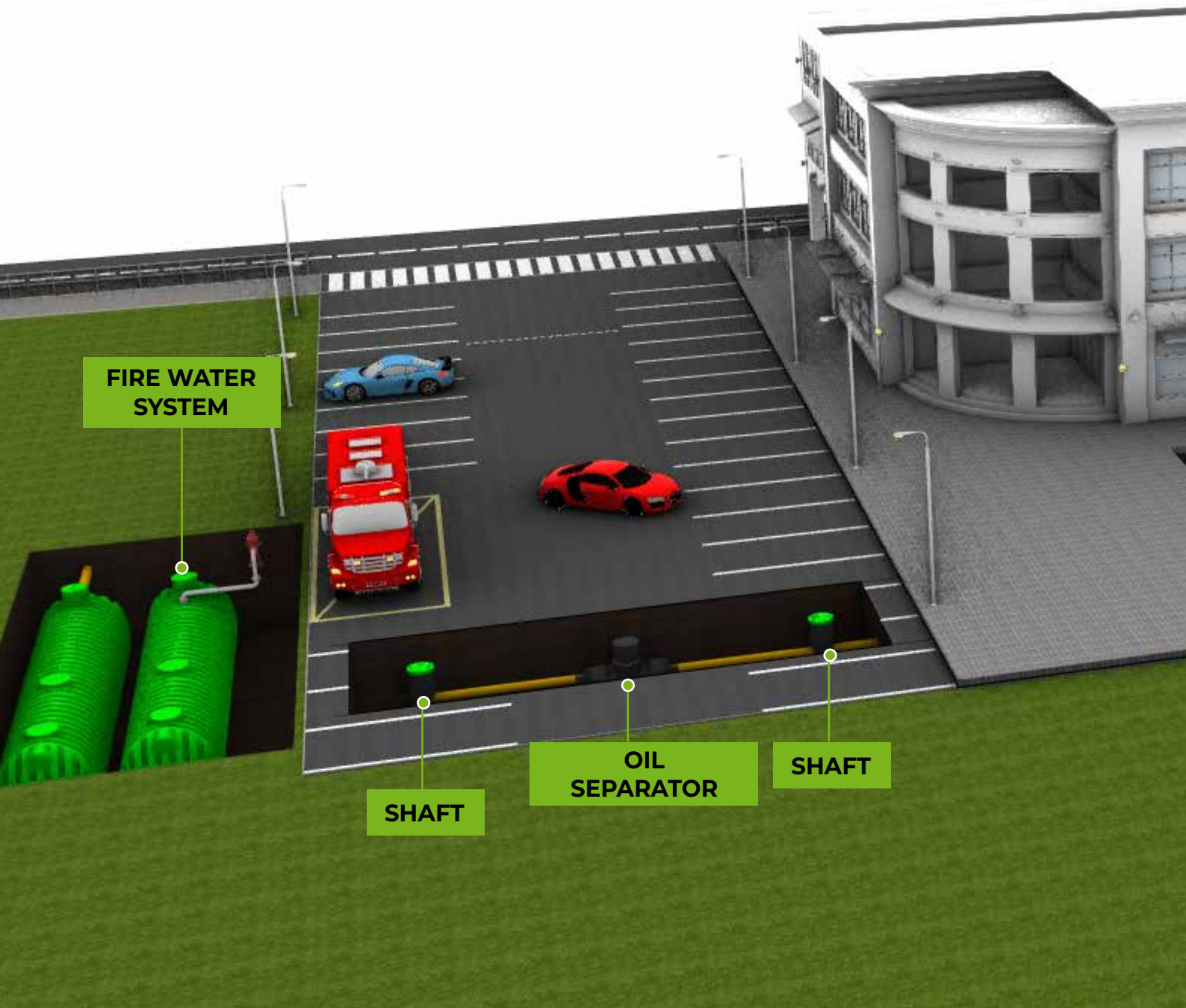
RoRetain



retention
system



Intelligent water solutions



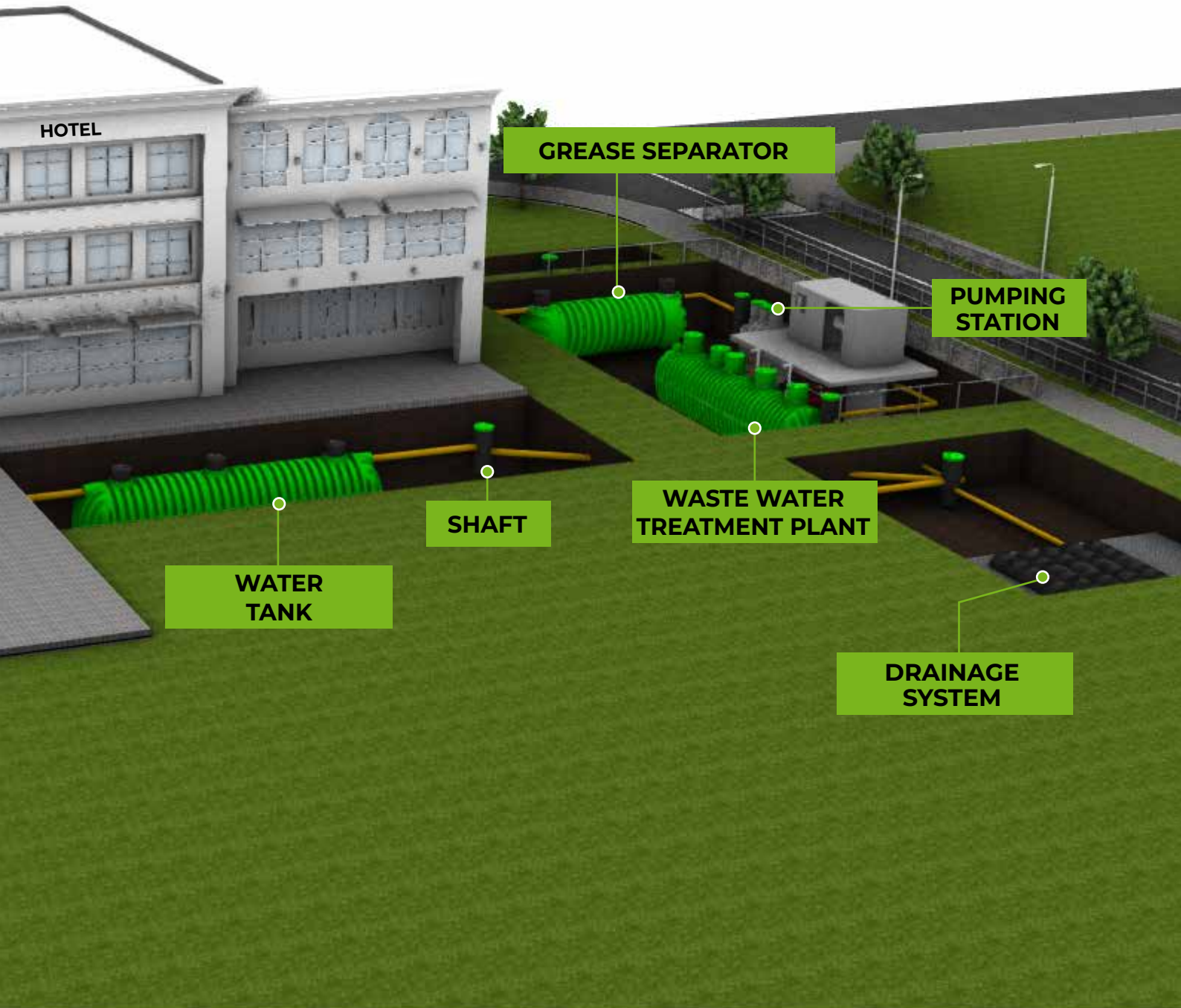
FIRE WATER SYSTEM

SHAFT

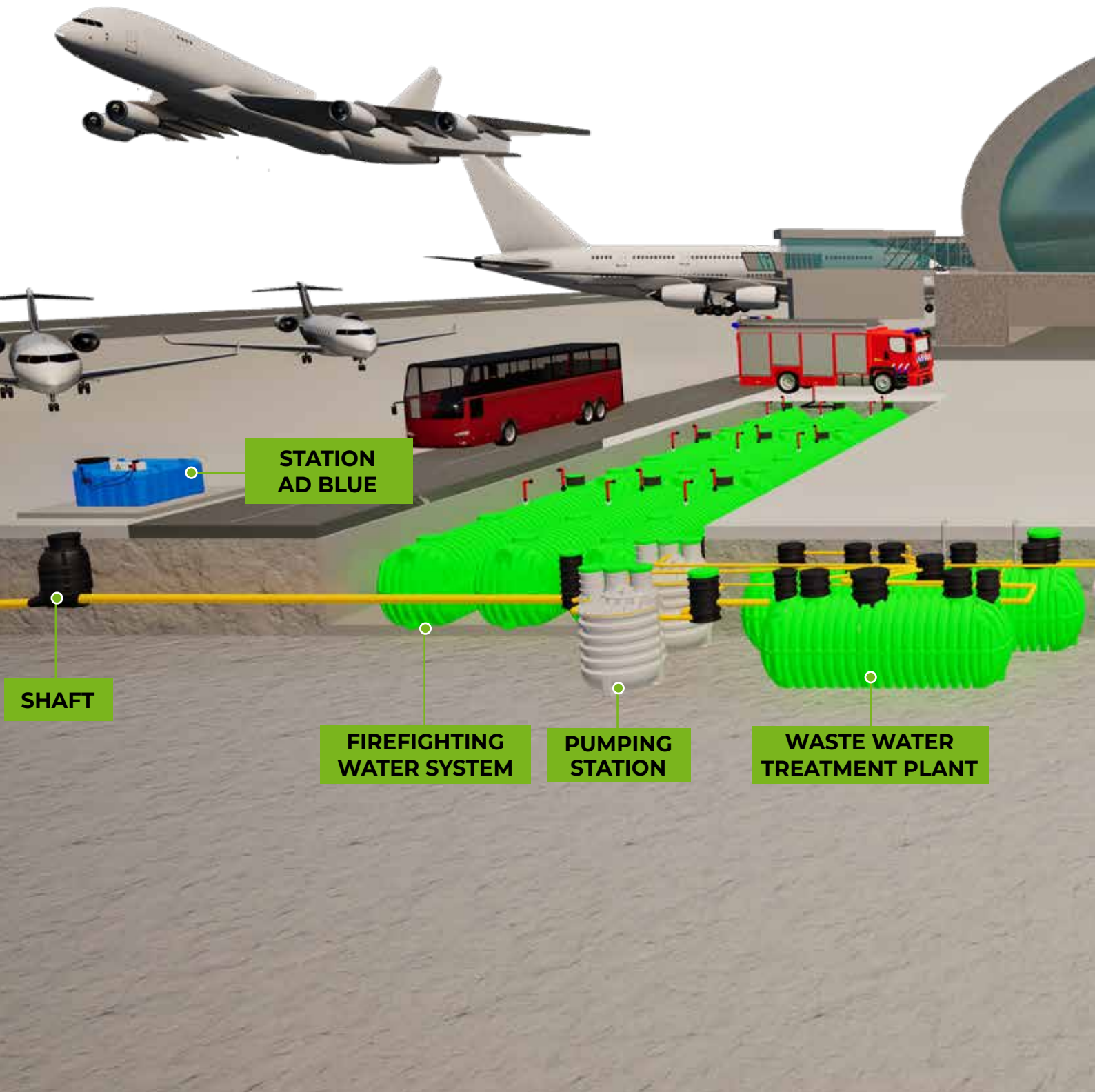
OIL SEPARATOR

SHAFT

hotels and turist resorts



Intelligent water solutions

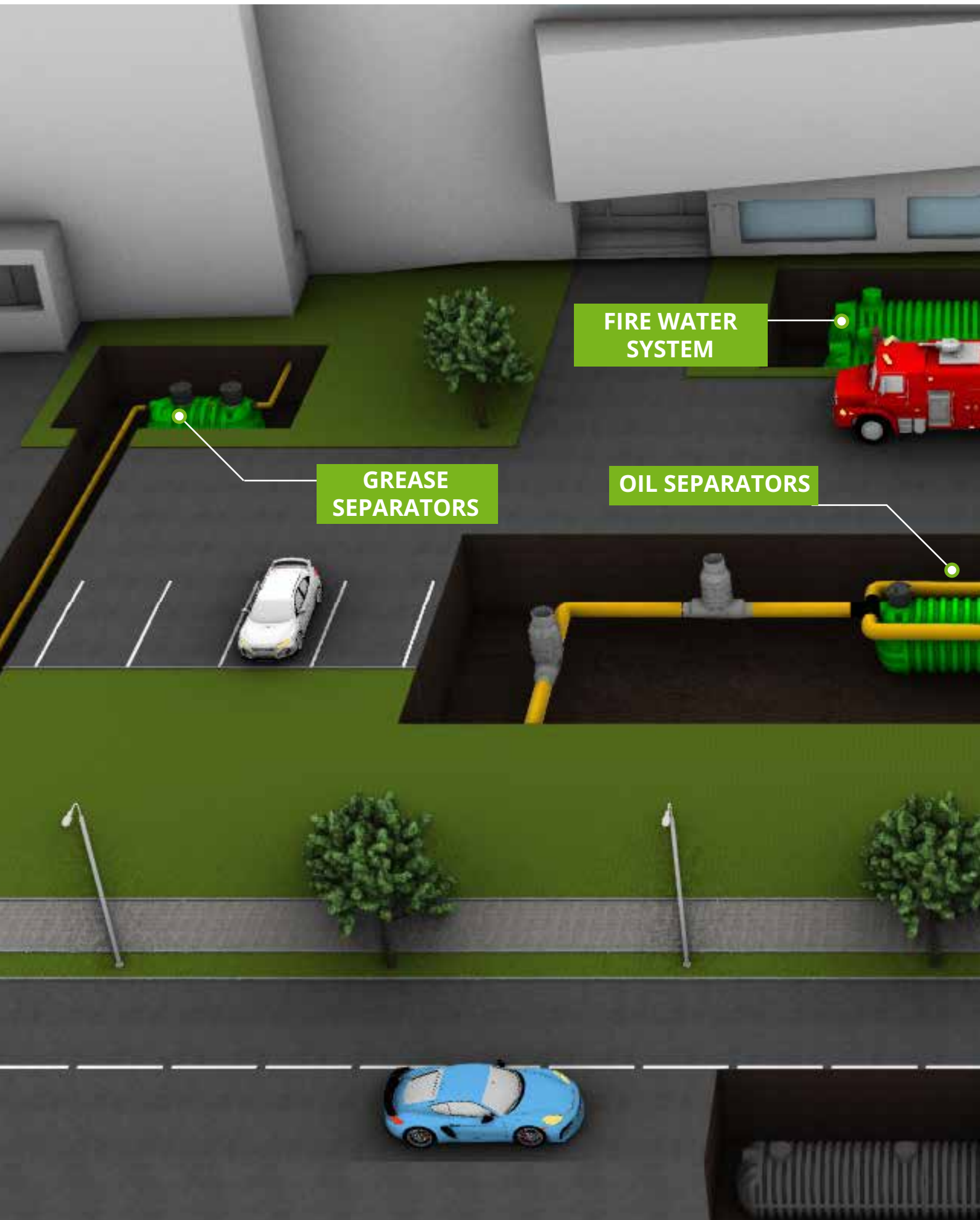




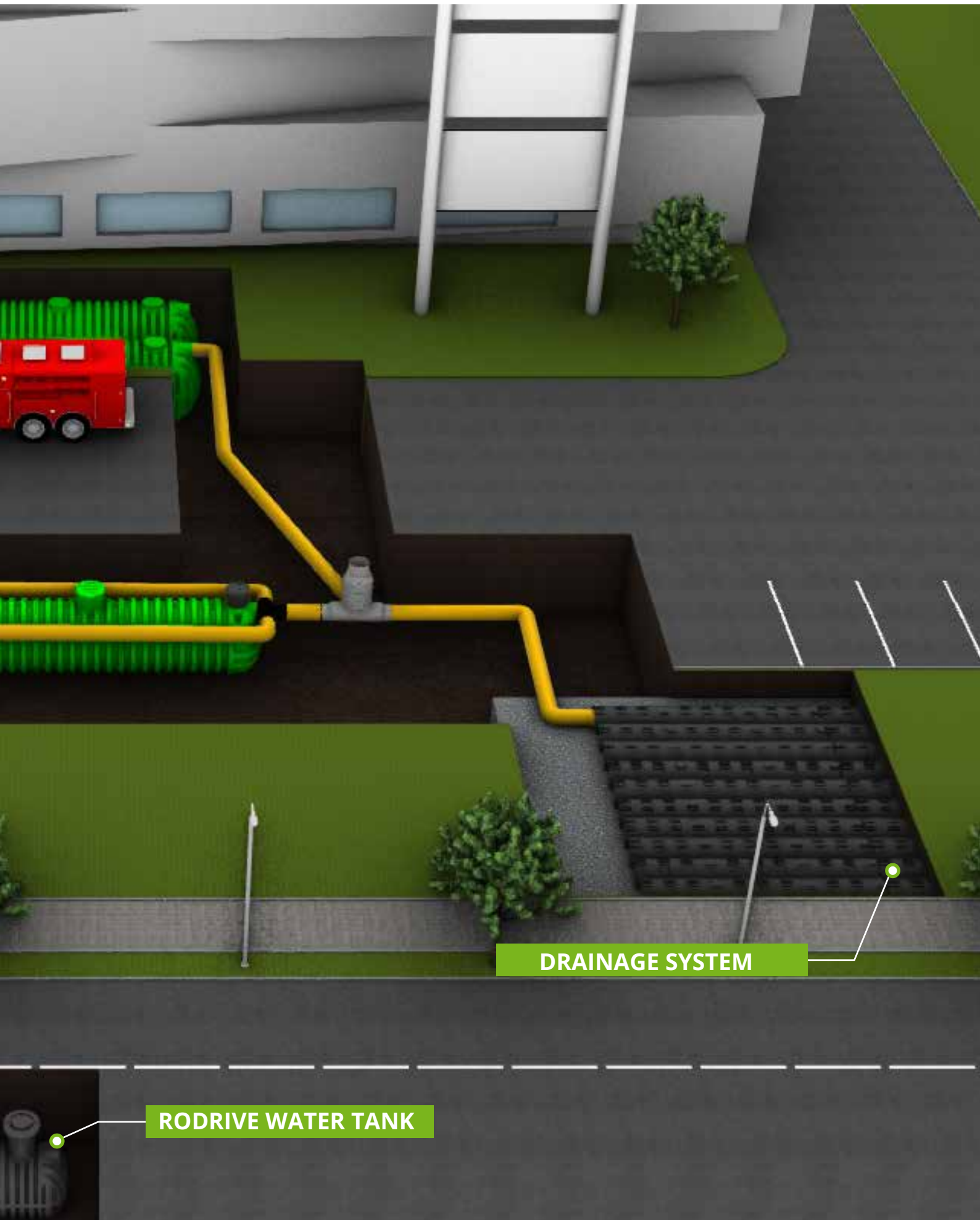
GREASE SEPARATOR

OIL SEPARATOR

Intelligent water solutions

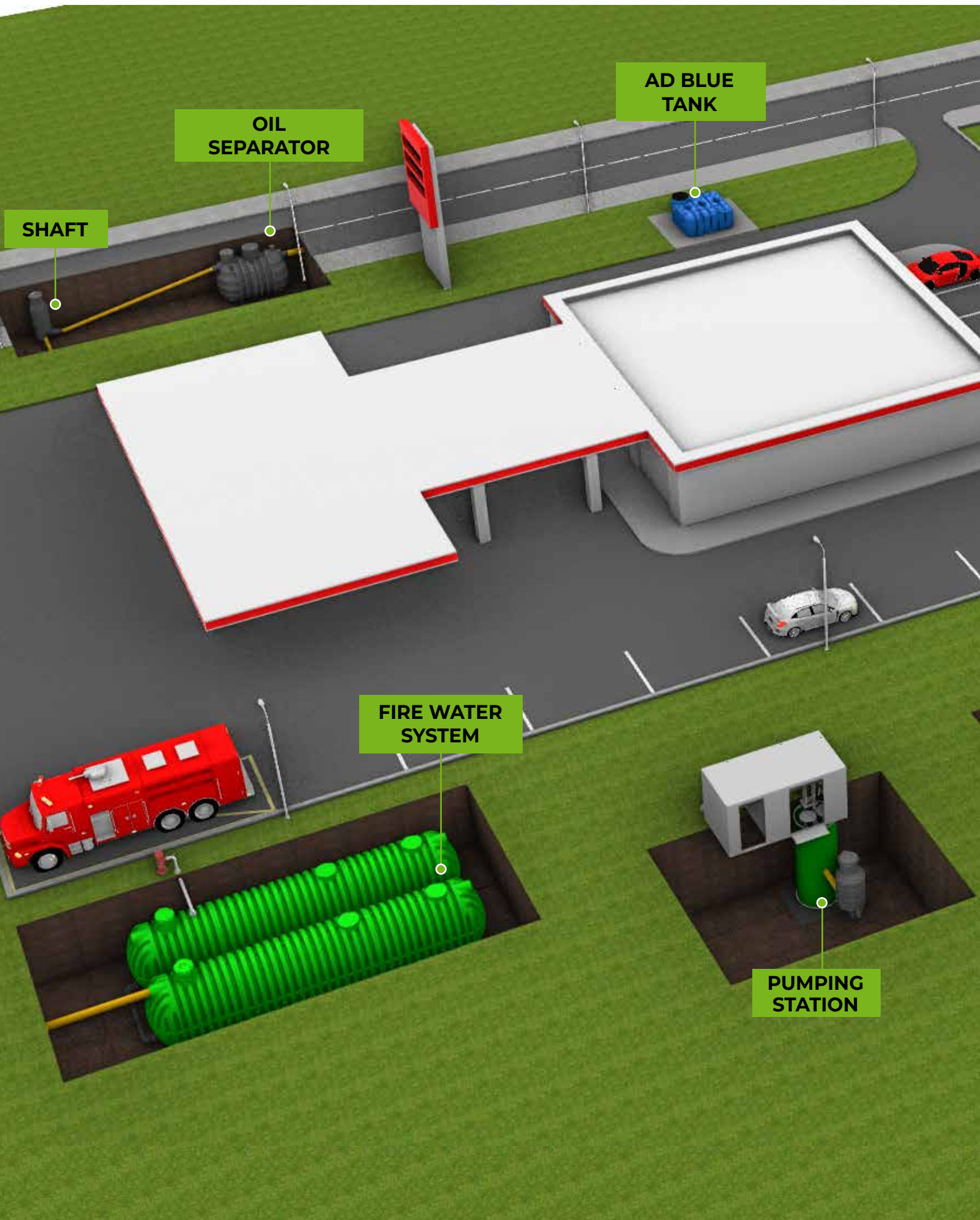
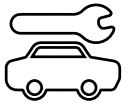


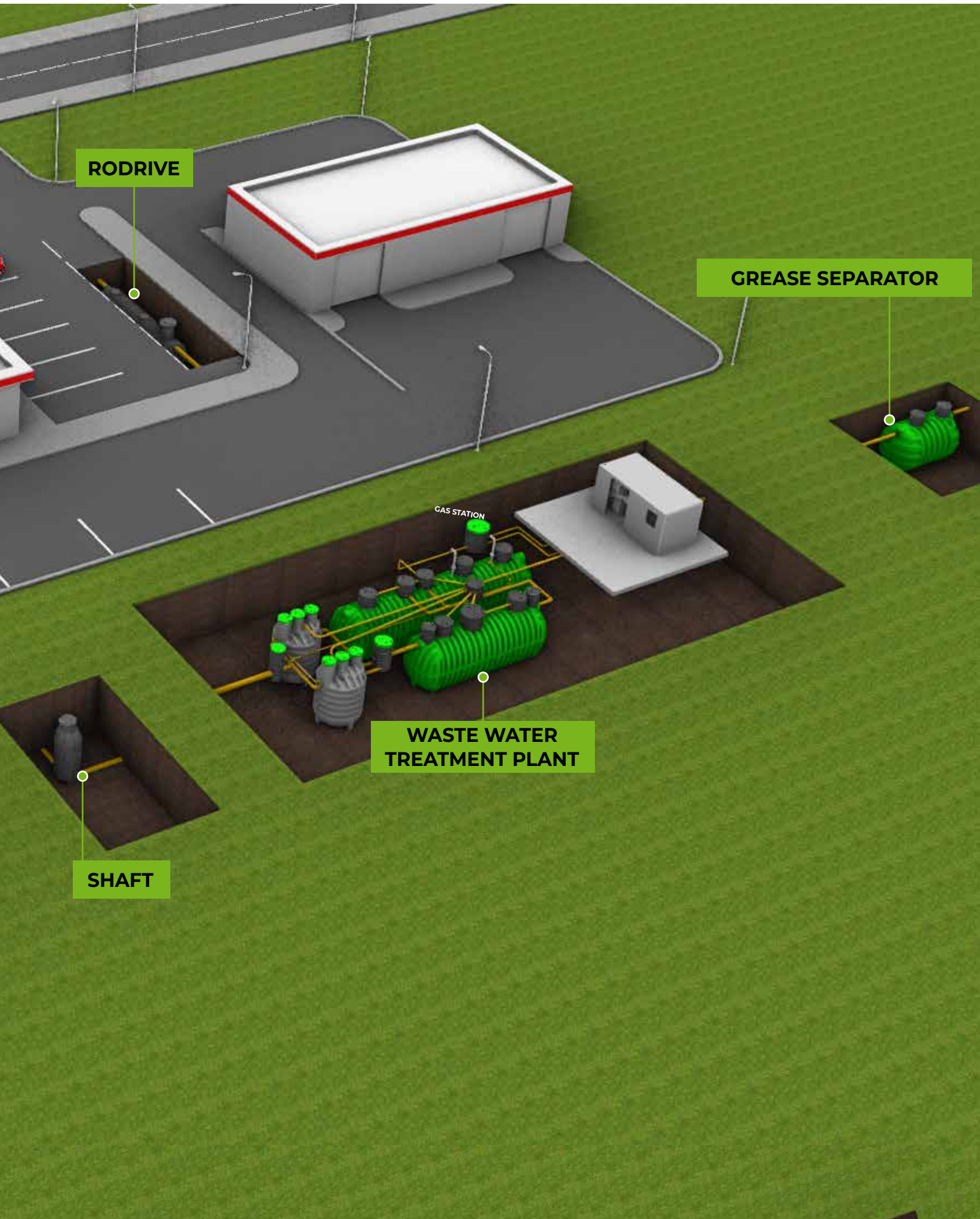
industrial and commercial buildings



DRAINAGE SYSTEM

RODRIVE WATER TANK





RODRIVE

GREASE SEPARATOR

**WASTE WATER
TREATMENT PLANT**

SHAFT

GAS STATION



Advanced Fire Protection Solutions

ROTO Roterra tanks are designed to meet the highest safety standards. These systems ensure a reliable and immediate water supply in areas where the public hydrant network is insufficient or unavailable.

Technical Specifications & Compliance

Standardization: Fully compliant with DIN 14230

Key Advantages & Engineering Features

Structural Integrity: The robust, ribbed design of the Roterra series provides superior resistance to soil pressure and static loads, making it ideal for deep-burial installations.

Corrosion & Chemical Resistance: Unlike concrete or steel alternatives, PE is naturally resistant to corrosion, aggressive soil conditions, and microbial growth, ensuring a service life of 50+ years.

Optimized Suction Performance: Equipped with professional-grade firefighting accessories

Modular Scalability: Tanks can be interconnected in parallel or series to create massive retention volumes, exceeding 1,000,000 liters while maintaining ease of transport and installation.

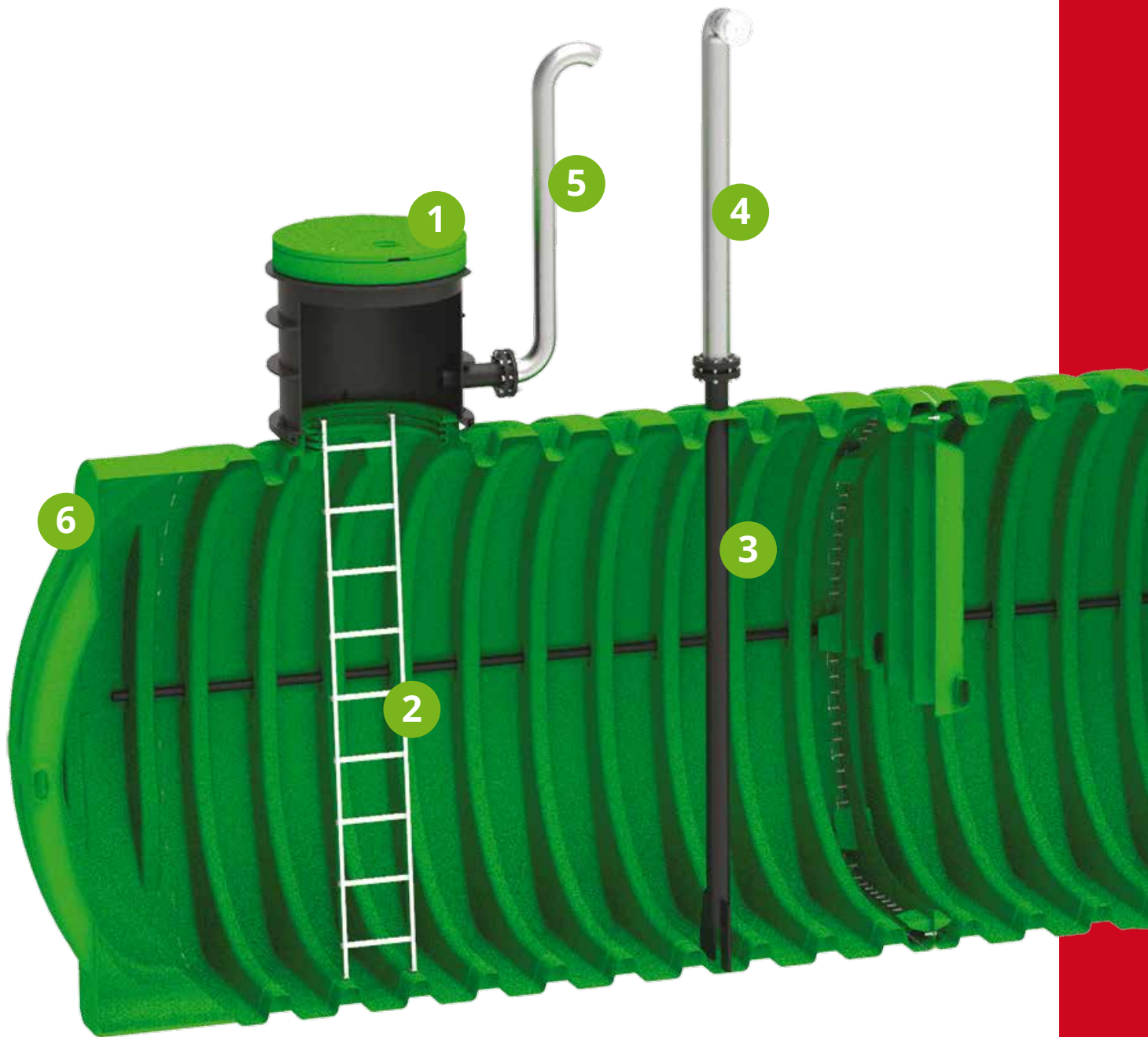
Standard & Custom Equipment Options

We provide a comprehensive range of technical components, including:

- Standardized suction points with frost-proof ventilation.
- Internal ladders and access shafts for safe maintenance.
- Inflow filtration and level monitoring systems.

Custom-engineered connections and fittings manufactured according to the specific technical blueprints of the project.





1. inspection opening DN 1000 or DN 800
2. stainless steel ladder
3. suction pipe DN 125 (including anti-vortex plate or basket with non return valve)
4. stainless steel connection for fire hose with coupling type A
5. ventilation pipe up to DN 100 (PE or stainless steel)
6. PE inlet / outlet connection



PROFESSIONAL TANKS FOR UNDERGROUND INSTALLATION UNDER THE TRAFFIC SURFACE

INDUSTRIAL AREAS

Industrial zones require solutions with high static load capacity due to regular heavy goods vehicle traffic. The RoDrive system is engineered for installation beneath traffic and maneuvering areas (load classes up to D 400). Locating the tanks under internal roads, parking lots, or logistics terminals creates the required volume for sanitary or process water storage. This strategy reduces operational expenditures and enables supply independence.

PARKING PLACES

Its robust static design permits direct installation without the requirement for external reinforced concrete (RC) shoring/slab. Through the modular connection of multiple RoDrive units, high collective retention or harvesting capacity can be achieved efficiently, transforming the parking area into a functional water reservoir that ensures the facility's water self-sufficiency.



RoDrive

drivable water tanks



Certificated by the Slovenian
National Building and Civil
Engineering Institute

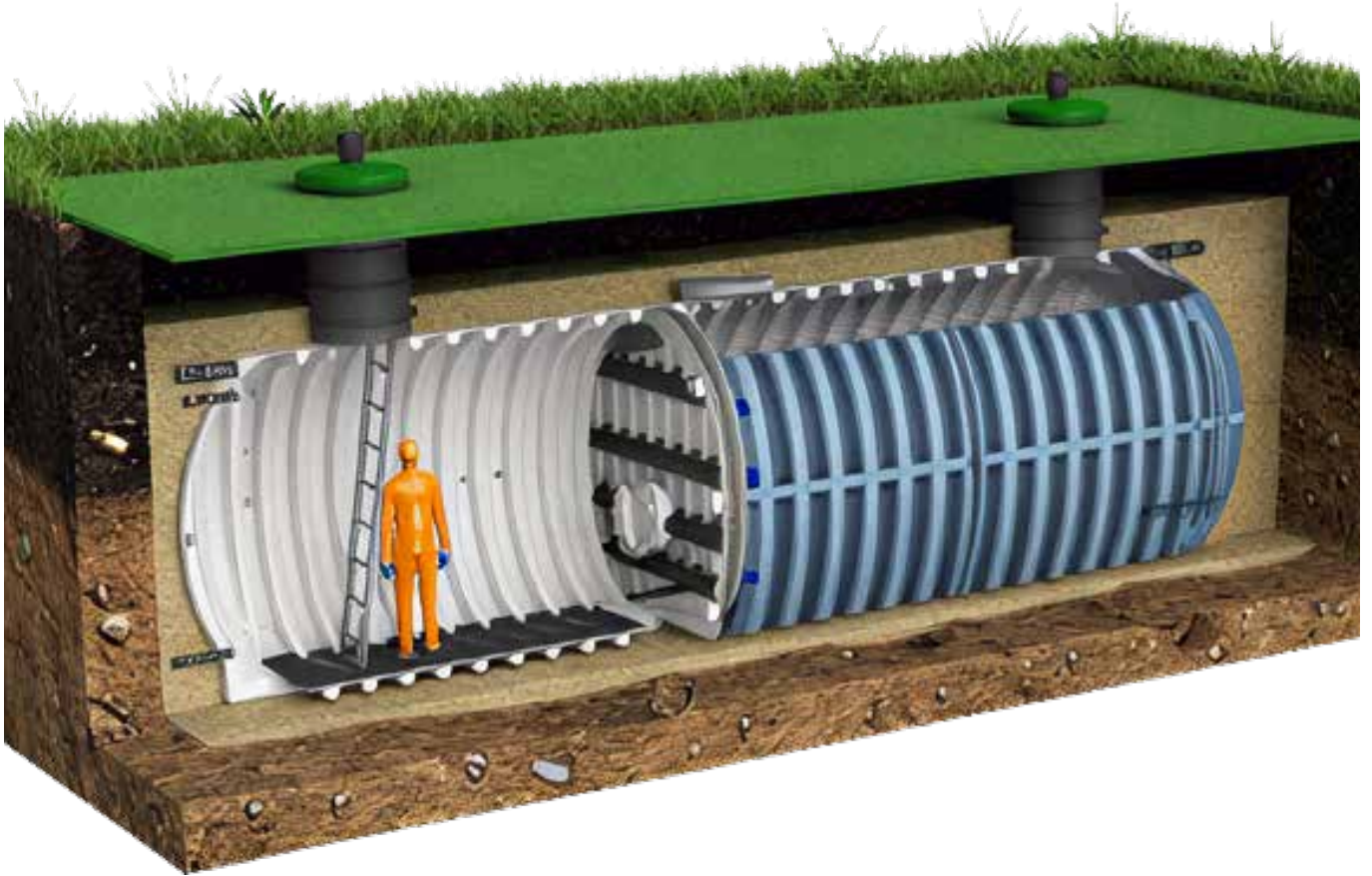
ZAG



RoTerra Drive tanks received
the SIGN OF QUALITY IN THE
CONSTRUCTION INDUSTRY, in 2023.
The recognition was awarded by
the ZRMK Institute of Construction

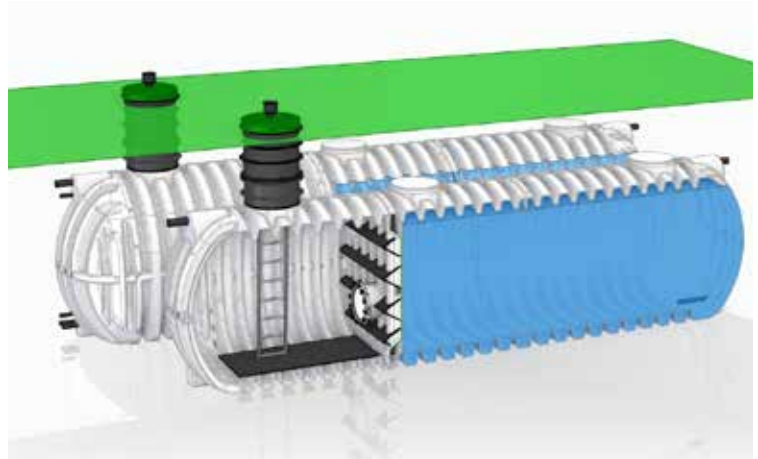


1. Cast iron cover **IC6**, 600 mm [code: 1280431]
2. Relieving reinforced concrete ring
3. Cylinder extension 800x1000 mm [code: 7600059030]



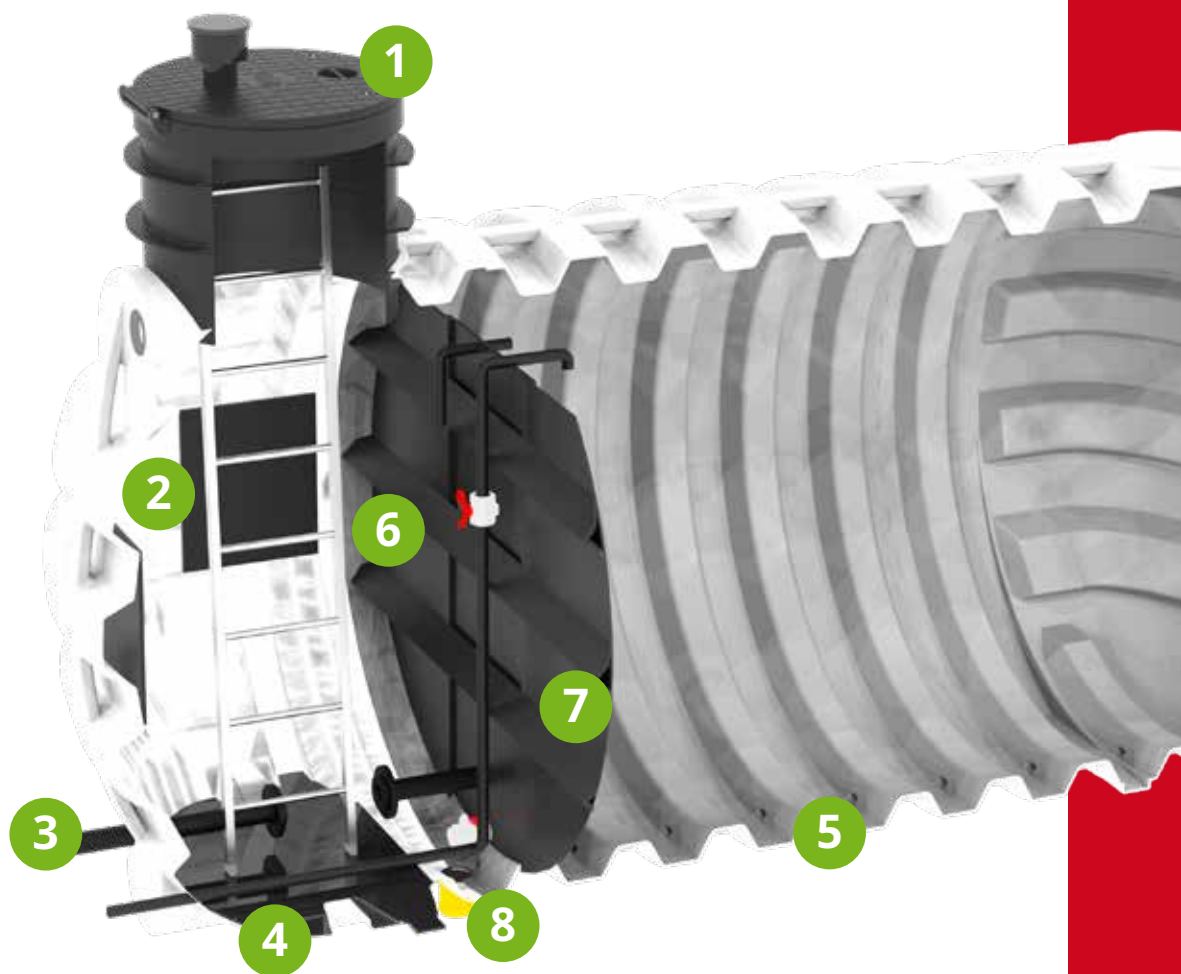
A water storage tank is used for the storage and distribution of drinking water. It is usually installed at higher elevations where water is collected from a water well or spring. From the RoAqua, drinking water is distributed via pipelines to houses and other buildings, either by gravity or by pumps.

The first chamber of the RoAqua is used as a water storage tank, while the second chamber is used for distribution control, chlorination, pumping and installation of other equipment. The second chamber can be easily and safely accessed by ladder through a large manhole.



RoAqua

drinking water tanks
with dry chamber



Rodrink tanks are certified
for drinking water:
REG2-0004-04-ZGPro1-2731

1. Cover includes a lockable lid with rubber seal and ventilation cap
2. Optional PE plate on the walls as further mounting possibility for electromagnetic valves, electronics, dosing system, water meter, etc.
3. Flanged connections up to DN200
4. PE Plate under the entry area of the tank simplifies access into the tank and allows maintenance and walking on the bottom of the tank
5. PE tank suitable for drinking water
6. Dry chamber as a technical room
7. Welded partition with drain valve separates the entrance from the wet chamber or storage area on the other side of the tank
8. Drain at the bottom of the dry chamber



Premium Polyethylene Potable Water Reservoirs

RoDrink reservoirs are high-quality, sustainable solutions specifically engineered for the safe storage of drinking water. Manufactured using advanced rotomolding technology, these tanks ensure the highest standards of hygiene and structural integrity for residential, agricultural, and industrial applications.

Key Features & Technical Advantages

Food-Grade Material: Made from 100% virgin, polyethylene that is certified for potable water contact. The material is UV-stabilized, preventing the growth of algae and ensuring water remains fresh and odorless.

Seamless Construction: The one-piece rotational molding process eliminates joints and seams, providing a 100% leak-proof structure with superior impact resistance.

Superior Hygiene: The ultra-smooth interior surfaces prevent the accumulation of biofilm and sediment, making

the tanks easy to clean and maintain according to strict sanitary regulations.

Exceptional Durability: Designed with a ribbed structure, RoDrink tanks offer high ring stiffness and stability for underground installation

Eco-Friendly: The polyethylene used is fully recyclable, contributing to a circular economy and sustainable water management.

Applications

Residential Use: Independent water supply for households and remote mountain huts.

Agriculture: Safe water storage for livestock and irrigation systems.

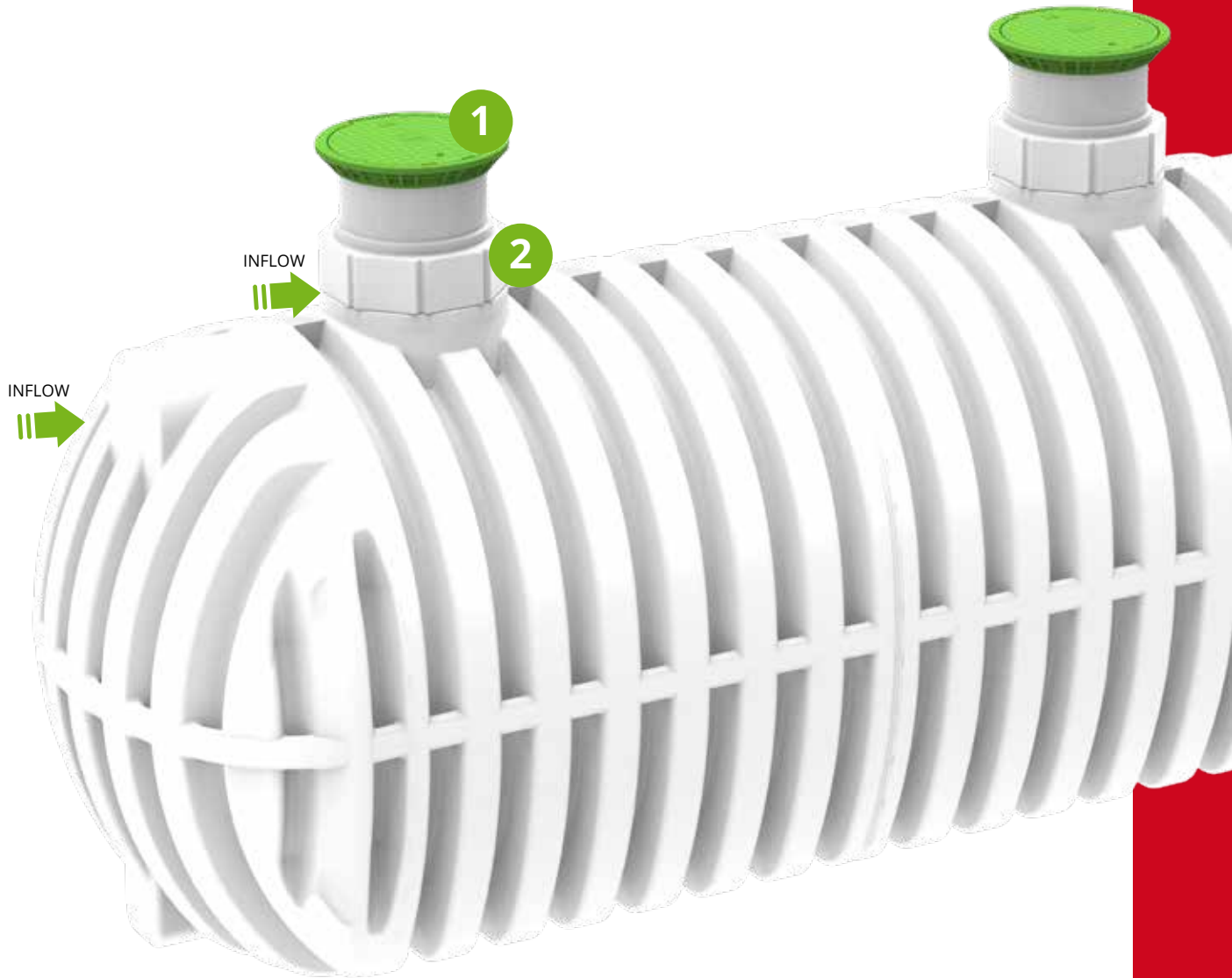
Public Infrastructure: Backup water reserves for schools, hospitals, and fire protection.

Industrial Systems: Integration into complex water treatment and distribution networks



Rodrink

drinking water tanks



1. Waterproof cover **HS6**, 600 mm, [code:7100520380]
2. Extension octabin **O6**, 600x700 mm, [code:7100520320]



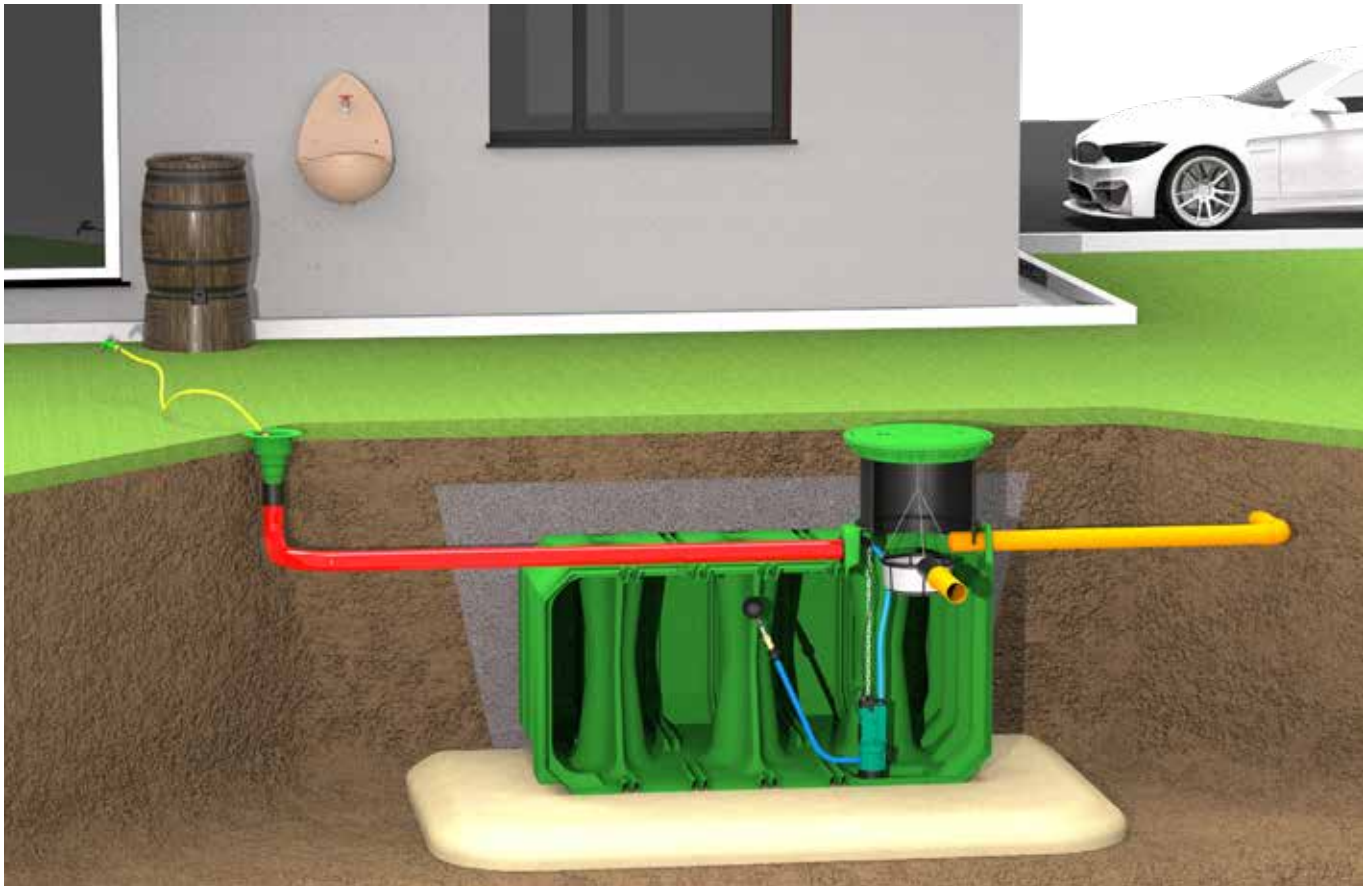
Rodrink tanks are certified
for drinking water:
REG2-0004-04-ZGPro1-2731



DRINKING WATER FILTER
[code: 7100092810]



WATER LEVEL GAUGE
BASIC [code: 7100065560]
PROFI [code: 8001230]



Complete Rainwater Harvesting Solution for Garden Irrigation

The **GARDEN KIT** is a comprehensive, all-in-one solution designed for efficient garden irrigation using harvested rainwater. This system allows you to maintain a lush green lawn while significantly reducing your environmental footprint and water costs.

Plug-and-Play Installation: To ensure maximum convenience and quality, the entire system can be pre-installed at our factory.

Versatile Tank Options: Depending on your site requirements and space availability, the kit is compatible with our high-quality RoTerra or RoCube tanks.

Customizable Components:

Filtration Systems: Various filter types to ensure the water is free of debris and safe for your irrigation equipment.

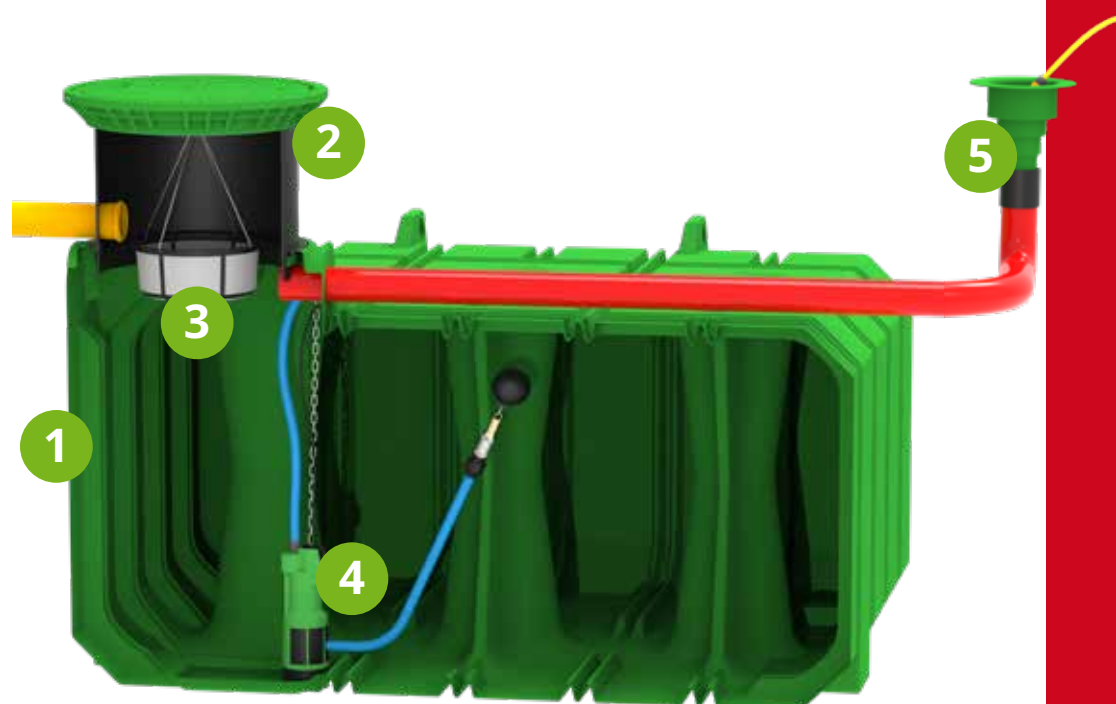
High-Efficiency Pumps: A selection of submersible or surface pumps with different pressure and flow rate specifications to suit your specific irrigation needs.

Additional Equipment: From automatic switchover units to level sensors and connection accessories.



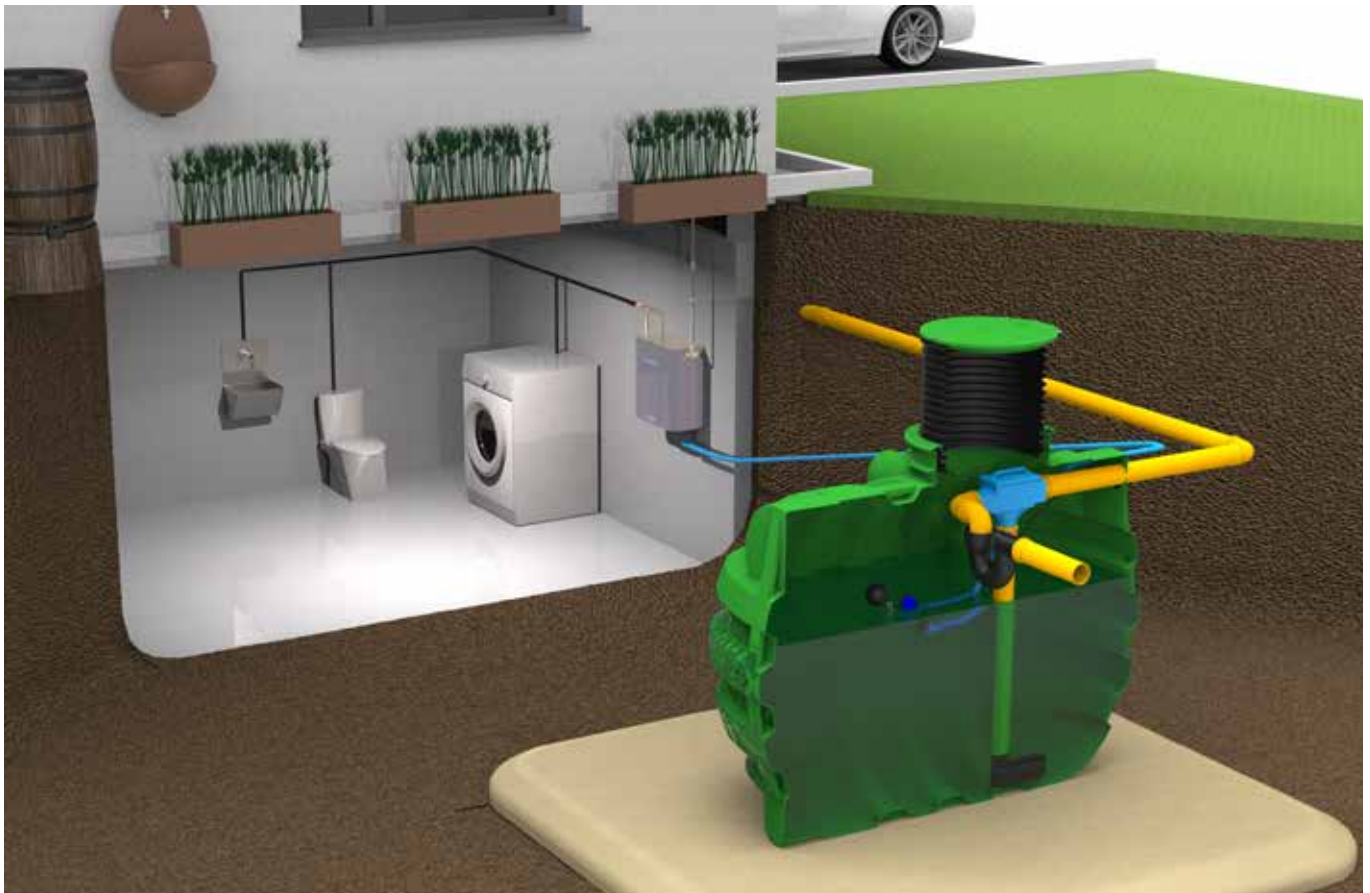
RoCube

garden kit



1. Water tank
2. Cylindric extension with cover
3. Suspension filter basket DN 400
For roof areas up to 200 m²
4. Submersible motor pump set with
MULTI-05-IS
3.6 bar / 95 l/min
5. Underground water connection point
(sub-surface box)





ROTO House Kit | Smart Rainwater Harvesting for Household Use

The ROTO House Kit is a high-performance, fully integrated solution designed for the collection and utilization of rainwater within residential and commercial buildings. By repurposing harvested rainwater for toilet flushing, laundry, and cleaning, the system can reduce household mains water consumption by up to 90%.

Key Advantages & Engineering Features

Hydraulic Efficiency: The system is engineered to maintain constant pressure across all connected sanitary points, providing the same user experience as a standard mains connection.

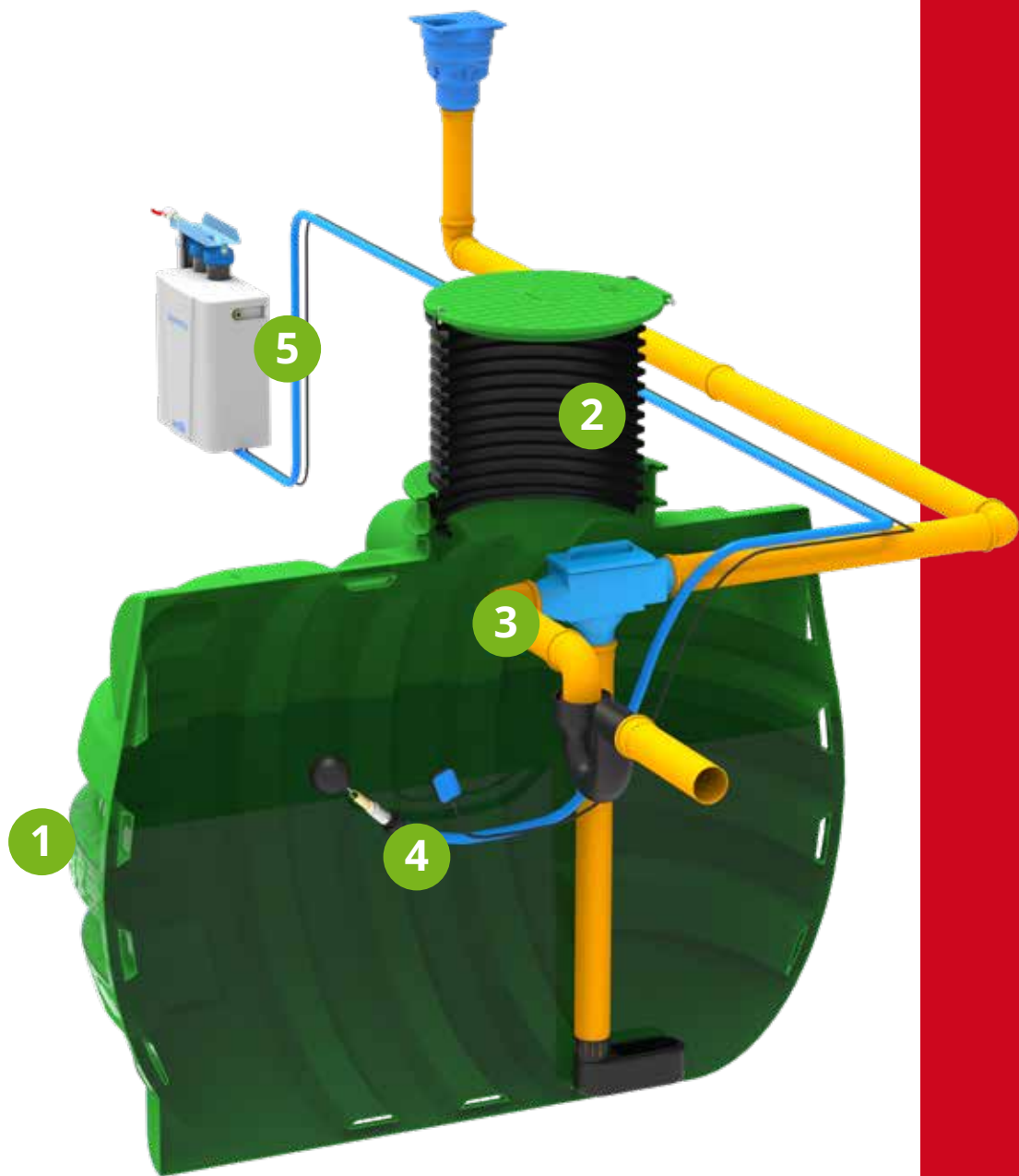
Acoustic Comfort: Our premium internal pump units are designed for silent operation, making them ideal for installation in utility rooms or basements.

Plug-and-Play Installation: The House Kit is delivered with pre-assembled internal fittings, significantly reducing on-site installation time and complexity.



Roterra

house kit



1. Water tank
2. Telescopic extension with cover
3. Integrated tank filter
For roof areas up to 200 m²
4. Overflow siphon
5. RAINMASTER Eco 10
For WC, washing machine, garden tap,
and small garden sprinkler
Sound pressure: 50 - 56 dBA, very quiet
Max. operating pressure: 5.0 bar, max.
flow rate: 90 l/min





ROTOeco provides advanced stormwater management solutions designed for high-capacity retention and controlled discharge. Engineered for durability and versatility, our retention tanks are the ideal choice for industrial, municipal, and private infrastructure projects.

Unmatched Monolithic Construction: We specialize in the manufacturing of large-scale monolithic tanks. Our production capabilities include single-piece 20,000 L monolithic units, ensuring 100% watertightness and structural integrity. For large-scale requirements, we offer the industry's largest transportable single-piece tank with a capacity of up to 65,000 L, specifically designed to fit standard truck dimensions for efficient logistics.

Scalable Modular Connectivity: For projects requiring extreme storage capacities, our systems are fully modular. Multiple tanks can be seamlessly interconnected in parallel

or series configurations to achieve any required total volume, providing unlimited flexibility for site-specific hydraulic requirements.

DRIVE Series – Heavy-Duty Performance: The DRIVE Roterra is engineered for heavy traffic loads up to 40 tonnes, making them suitable for installation under logistics centers, roadways, and parking lots.

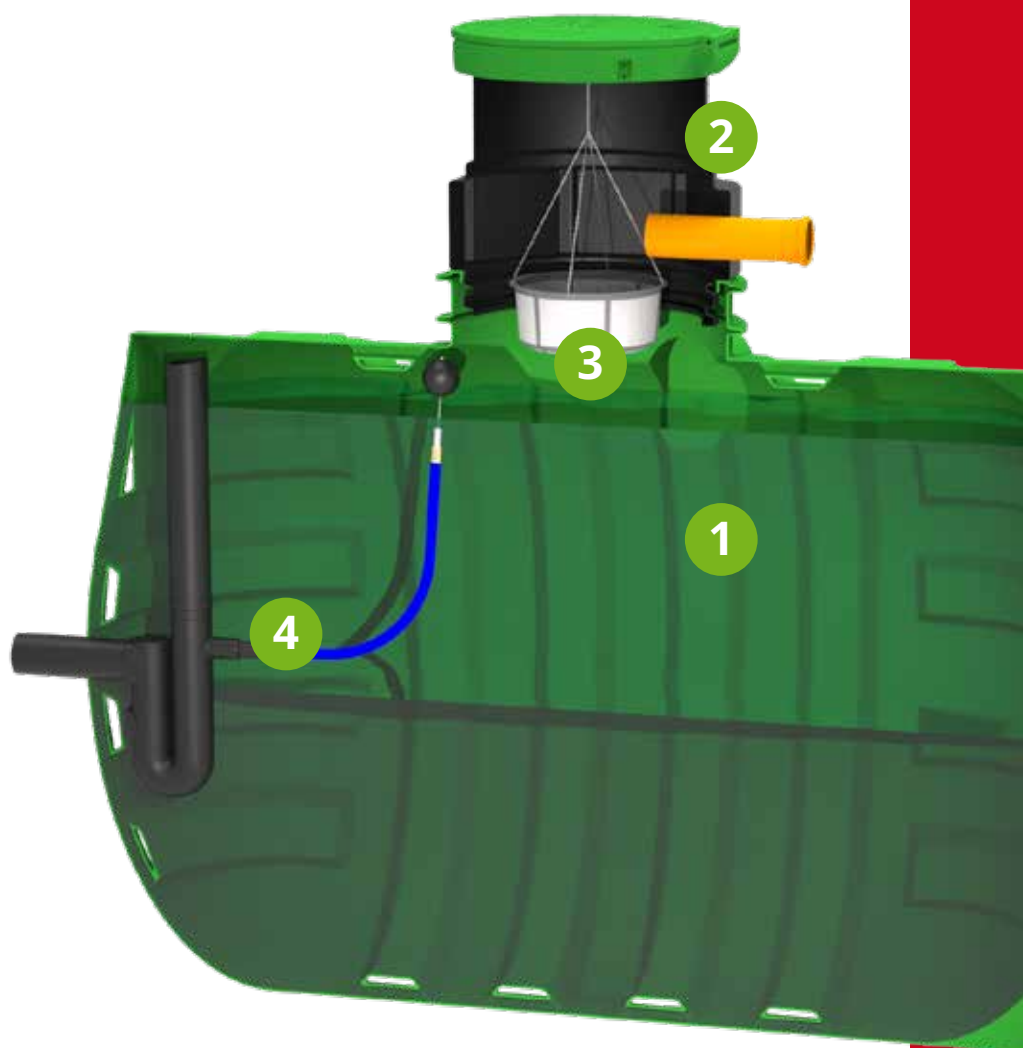
Groundwater Resistance: Due to their robust design and specialized rib structure, Roterra tanks are exceptionally resistant to high groundwater levels, preventing deformation or buoyancy issues in challenging geological conditions.

Sustainability and Longevity: Manufactured from high-quality, eco-friendly polyethylene, our tanks are corrosion-resistant, chemical-resistant, and have an estimated service life of over 50 years.



RoRetain

retention systems



1. Water tank
2. Octabin with hinged cover
3. Filter basket for roof areas up to 200 m²
4. Flow restrictor up to 3.84 l/s with siphon



2

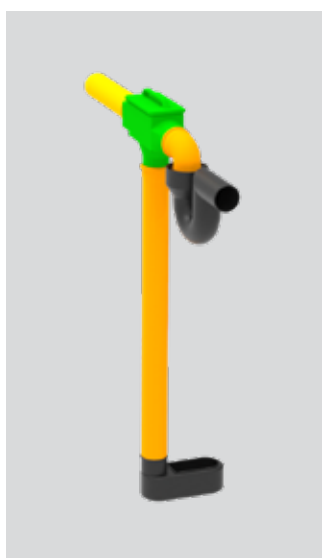


3



4

Filters and Accessories



BUILD-IN FILTER SET

[code: 7100062480]
300 x 150 x 150 mm



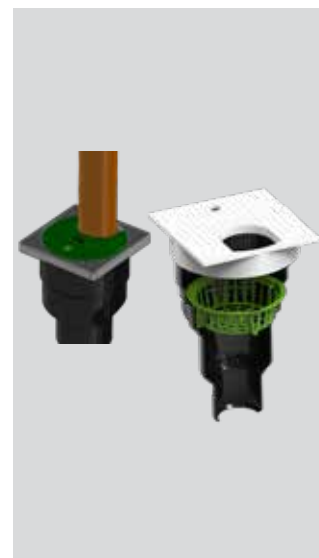
FILTER - SIEVE

[code: 7181530010]
Ø400 x 200 mm



**SANITARY WATER FILTER
ON THE DISTRIBUTION
NETWORK**

[code: 7100065490]



**GUTTER MANHOLE
(SEWER) I**

[code: 7100520080]
Ø250 x 420 mm



**PURARAIN FILTER 200
PURARAIN FILTER 300**

[code: 7111687]
[code: 7111688]



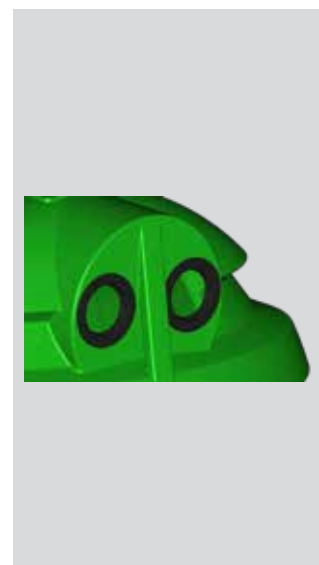
**FINE FILTER FOR UP TO
400 m² ROOF AREA**

[code: 7100092800]
Ø400 x 430 mm



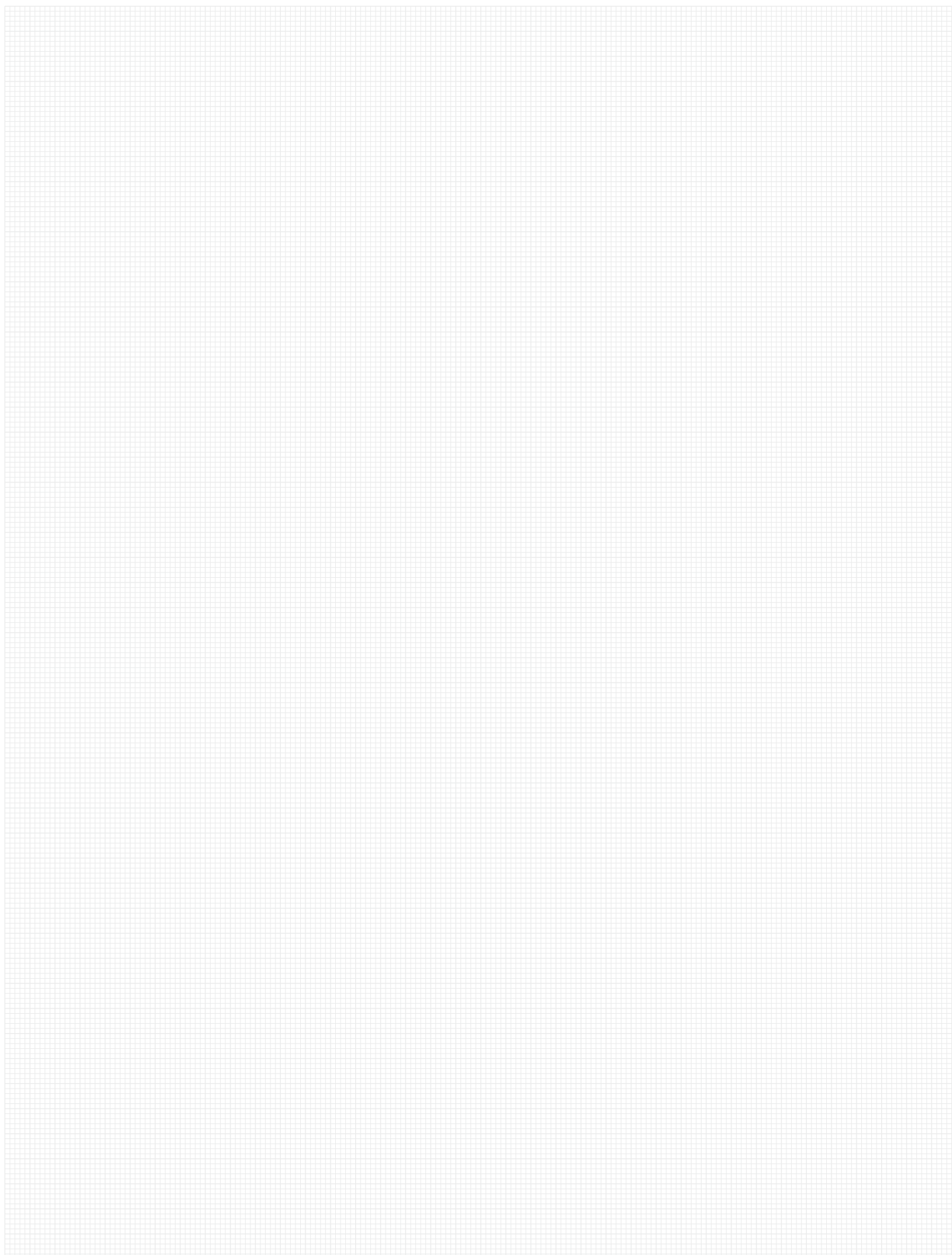
**EXTENSION FOR FINE
FILTER Ø400**

[code: 0009282]



RUBBER SEAL

[code: 7112803040]
Ø50 - Ø200 mm



WATER TANKS

Roterra 1400



2.200 - 3.300 L

The **Roterra 1400** is the compact solution for smaller rainwater systems

Roterra 1800



3.500 - 6.000 L

The **Roterra 1800** offers more storage capacity for households with higher water requirements

Roterra 2100



8.000 - 16.000 L

Oval-shaped tanks, available for pedestrian or trafficable areas, suitable for potable water or rainwater storage

Roterra 2300



8.000 - 16.000 L

With its increased volume, the **Roterra 2300** is suitable for larger buildings or commercial applications

Roterra 2450



20.000 - 65.000 L

Oval-shaped tanks, available for pedestrian or trafficable areas, suitable for potable water or rainwater storage

RoCube



5.000 - 15.000 L

The **RoCube** is a flat tank for underground rainwater storage with a particularly shallow installation depth

Robox



5.000 L

The **Robox** flat tank offers a sophisticated solution for the storage of rainwater or process water

RoQuadro



250 - 2.000 L

RoQuadro are easy to transport through normal front doors and they are also very suitable for the outdoor tanks

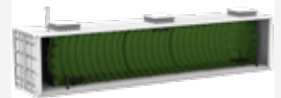
Rotrans



300 - 5.000 L

Rotrans water tanks are the ideal choice for aboveground storage and transport of liquids

Roterra 2300



22.000 - 50.000 L

Cylindrical tanks designed for containerized transport and mobile applications

Rocko Ø1300



900 - 3.000 L

Compact rainwater tank for small areas with flexible storage capacity

Rocko Ø1300



2.000 - 2.700 L

Above-ground or underground horizontal tanks

Rocko Ø1500



3.200 - 5.000 L

Above-ground or underground horizontal tanks

Rocko Ø1800



6.000 - 10.000 L

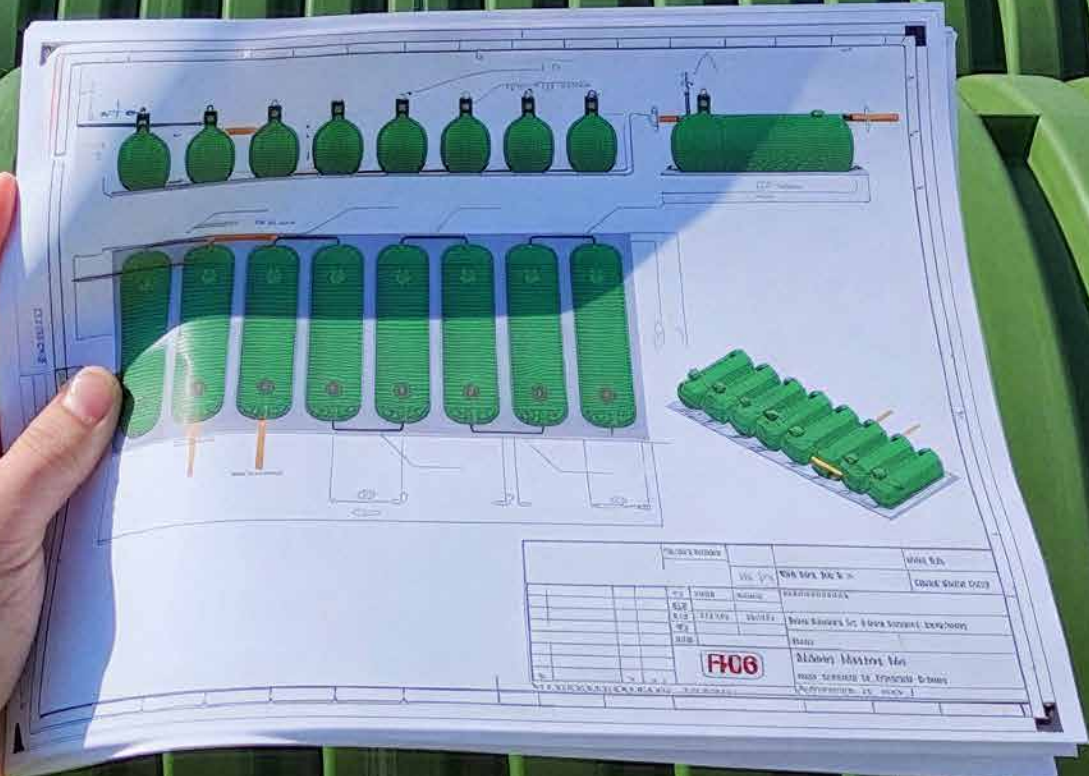
Above-ground or underground horizontal tanks

Rondo



325 - 15.000 L

The **Rondo** are the ideal choice for above-ground or basement installation



Roterra

horizontal water tanks

HINGED COVER

The Roterra tank cover with gasket ensures water tightness. The lid is hinged to the telescopic extension, making it easy to open.

TELESCOPIC EXTENSION

Telescopic extension installed on the Roterra tank is thread shaped and allows us fast and simple adjustment to the terrain. The dimensions of the extension are DN600x400 mm.

FLAT SURFACE FOR PIPE CONNECTIONS

INFLOW

OUTFLOW

POSSIBILITY OF CONNECTION

REINFORCEMENT RIBS

Reinforcing ribs on both sides ensure the stability of the tank and protection in case of high water level.

Roterra water tank features:



Tank for underground installation

8 - 14 mm  Wall thickness 8 - 14 mm



PE Material: polyethylene



Possibility to adjust the height of the extension to the requirements of the terrain



Made in one piece, 100% waterproof



The product can be 100% recycled after use



Excellent statics, resistance to earth pressures and external forces

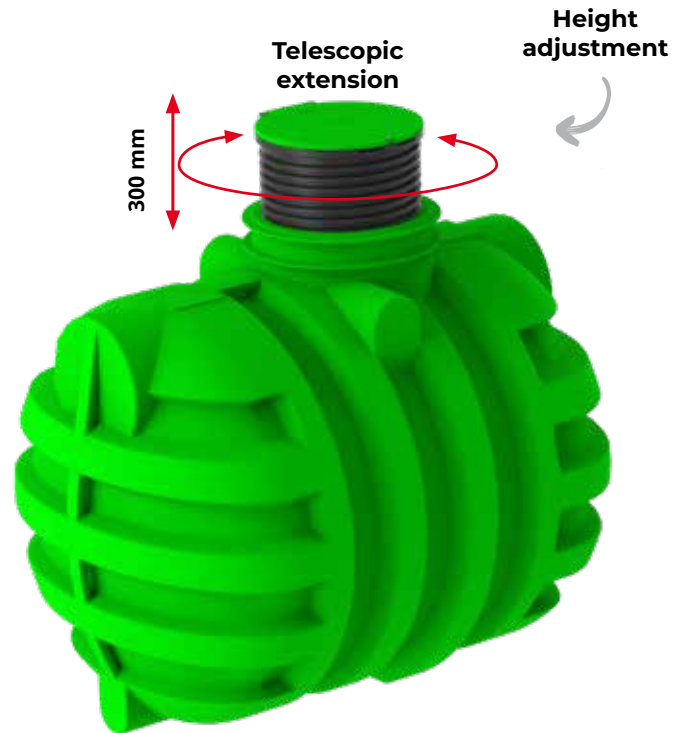
Roterra 1400

horizontal water tanks

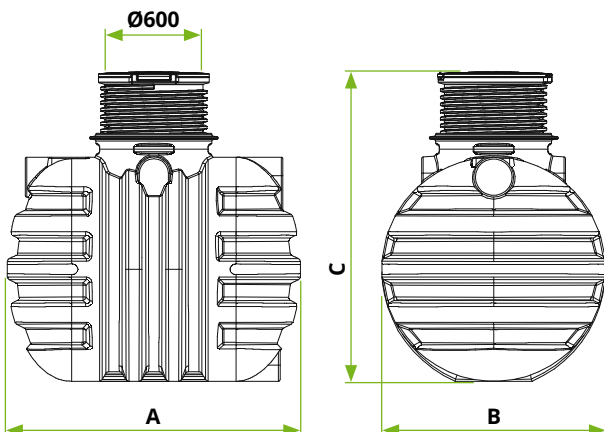
Design and excellent statics of Roterra tanks allows us fast and simple underground installation.

Polyethylene cover is installed on the telescopic extension which provides 100% watertightness. Its loading capacity is up to 0,2 kN/m² in standard PE option or up to 250 kN with solid lid covers and correct installation.

Inflow and outflow can be made on the flat surfaces, which can be prepared according to the customer requirements (for water distribution, PVC or PP pipes from DN50 to DN400).



Volume [L]	Code	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
2.200	7100067160	1840 x 1400 x 1600-1900	Ø600	100
2.600	7100067180	2150 x 1400 x 1600-1900	Ø600	115
3.000	7100067170	2400 x 1400 x 1600-1900	Ø600	130
3.300	7100069480	2650 x 1400 x 1600-1900	Ø600	145

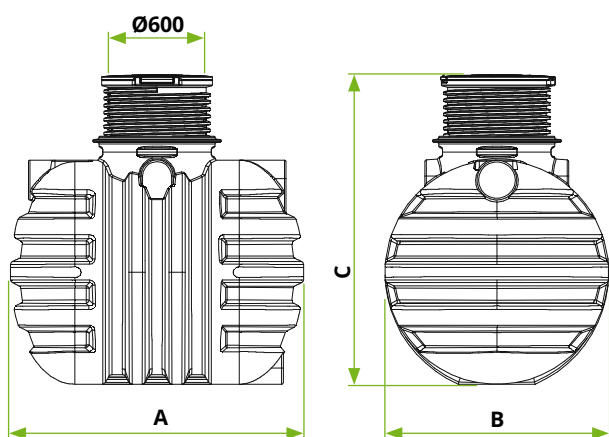
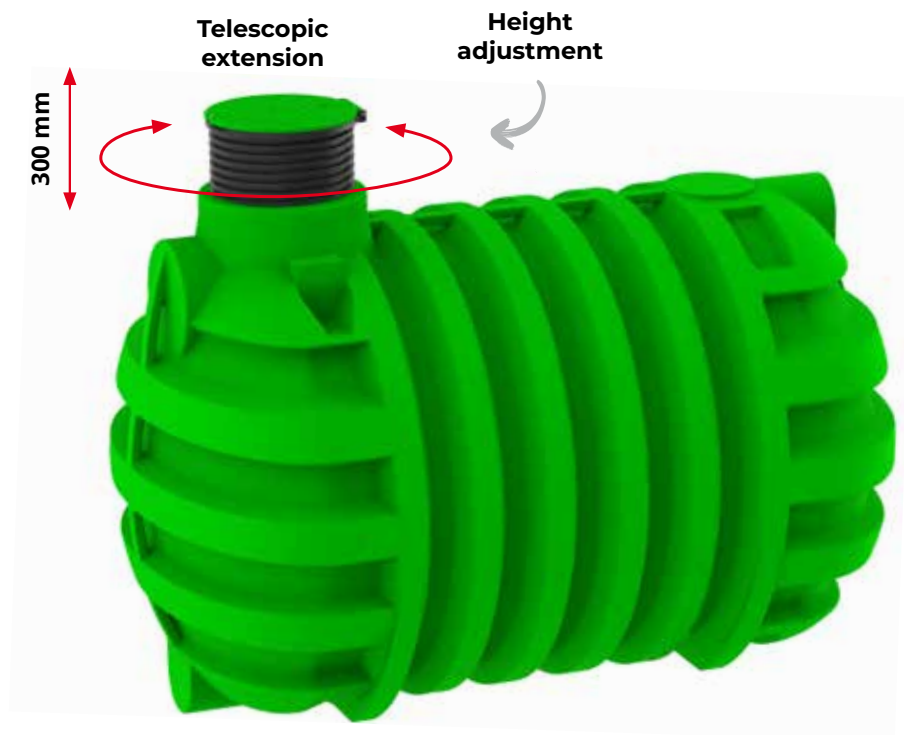


Roterra 1800

Volume [L]	Code	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
3.500	7100067120	2080 x 1800 x 2050-2350	Ø600	165
5.000	7100067130	2450 x 1800 x 2050-2350	Ø600	195
6.000	7100067140	2820 x 1800 x 2050-2350	Ø600	235

Roterra 2300

horizontal water tanks



Volume [L]	Code	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
8.000	7100062540	2680 x 2300 x 2550-2850	Ø600	275
10.000	7100069030	3040 x 2300 x 2550-2850	Ø600	315
12.000	7100062500	3760 x 2300 x 2550-2850	Ø600	365
16.000	7100065770	4840 x 2300 x 2550-2850	Ø600	465

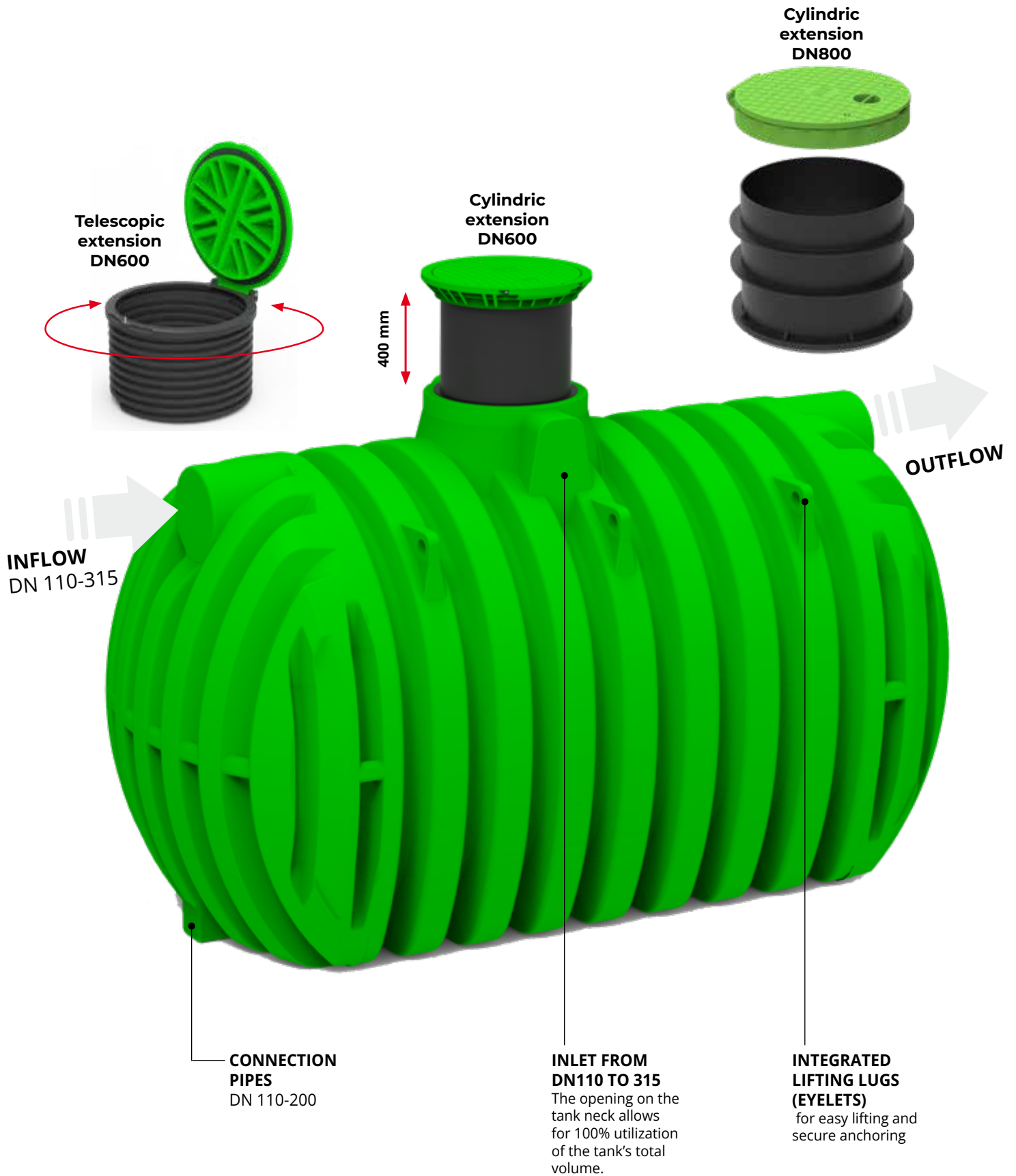
Roterra 2300

horizontal water tanks



Volume [L]	Code	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
22.000	7100062570	6280 × 2300 × 2350-2850	2x Ø600	820
25.000	7100862570	7370 × 2300 × 2350-2850	2x Ø600	1040
30.000	7100062350	8450 × 2300 × 2350-2850	2x Ø600	1080
35.000	7100862370	9890 × 2300 × 2350-2850	2x Ø600	1340
40.000	7100062370	10970 × 2300 × 2350-2850	2x Ø600	1380
45.000	7100862420	12410 × 2300 × 2350-2850	2x Ø600	1640
50.000	7100062420	13490 × 2300 × 2350-2850	2x Ø600	1680

Roterra



Cylindric extension
DN800

Telescopic extension
DN600

Cylindric extension
DN600

400 mm

OUTFLOW

INFLOW
DN 110-315

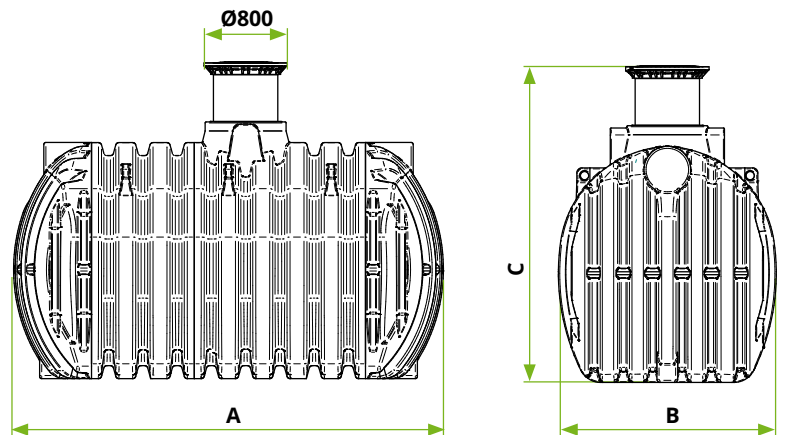
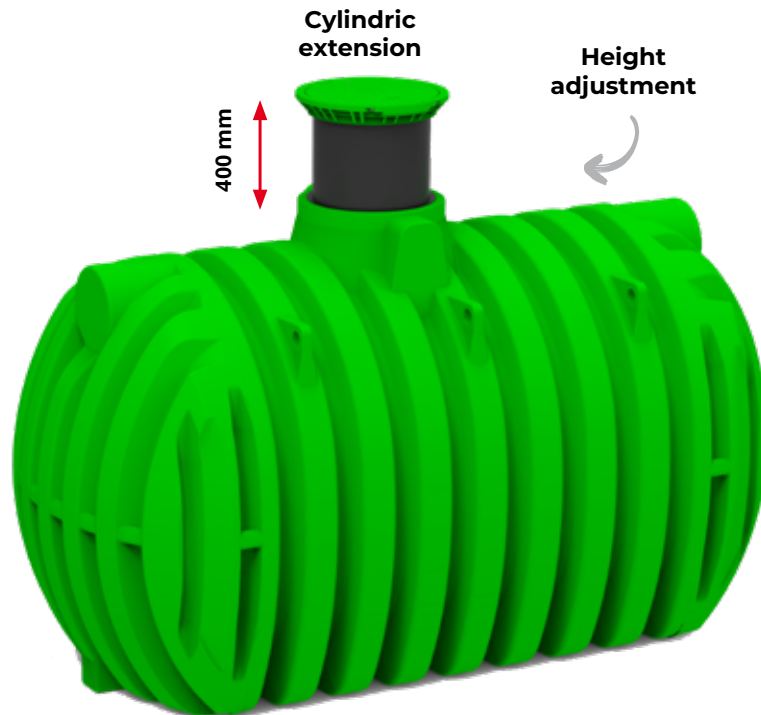
**CONNECTION
PIPES**
DN 110-200

**INLET FROM
DN110 TO 315**
The opening on the
tank neck allows
for 100% utilization
of the tank's total
volume.

**INTEGRATED
LIFTING LUGS
(EYELETS)**
for easy lifting and
secure anchoring

Roterra 2100 new

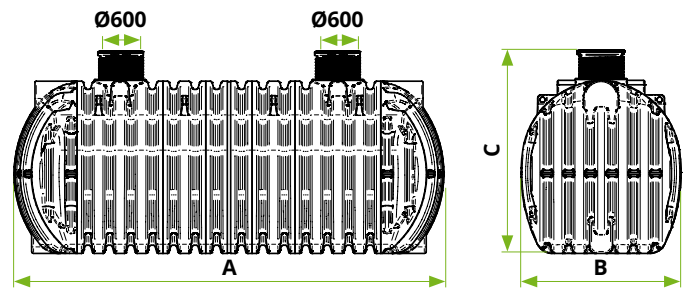
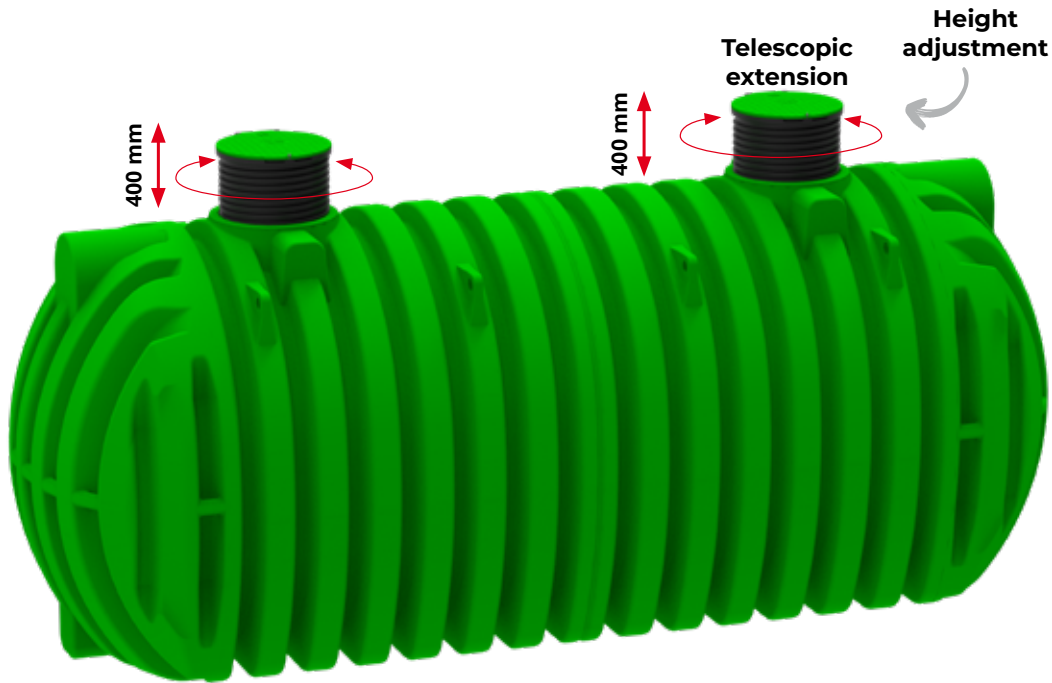
horizontal water tanks



Volume [L]	Code RoTerra	Code RoDrink	Code RoDrive	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
8.000	7110062540	7110062541	7110062542	2490 x 2100 x 2600-3000	Ø800	275
10.000	7110865770	7110865771	7110865772	3150 x 2100 x 2600-3000	Ø800	345
13.000	7100067860	7100067861	7100067862	4140 x 2100 x 2600-3000	Ø800	450
16.000	7110065770	7110065771	7110065772	4800 x 2100 x 2600-3000	Ø800	520

Roterra 2450

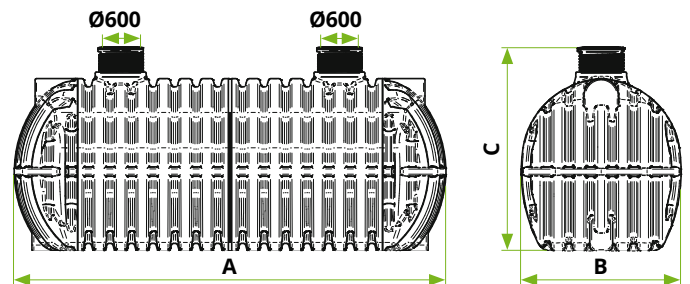
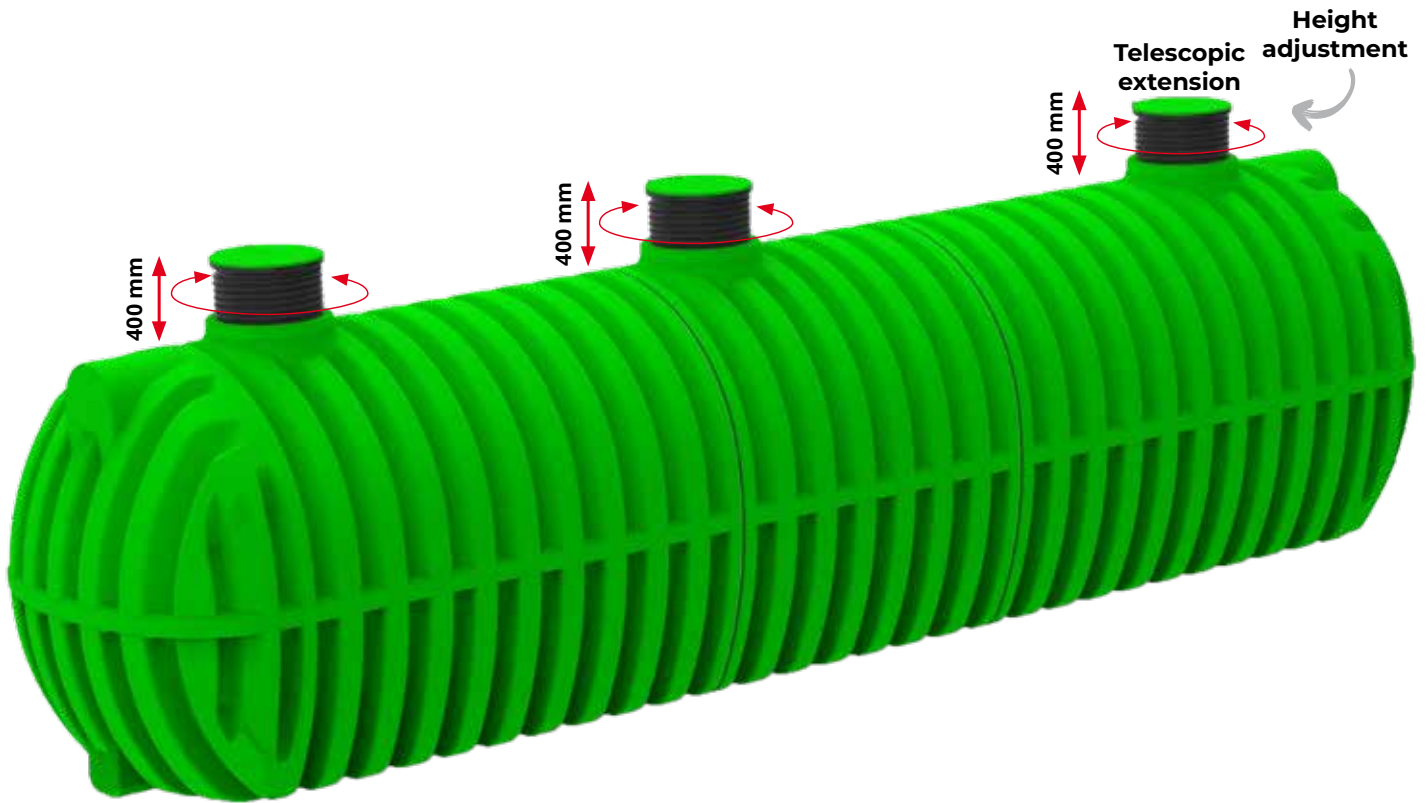
horizontal water tanks



Volume [L]	Code RoTerra	Code RoDrink	Code RoDrive	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
20.000	7100062670	7100062671	7100062672	4690 x 2450 x 2800 - 3100	1 x Ø600	650
25.000	7100062700	7100062701	7100062682	5720 x 2450 x 2700 - 3000	1 x Ø600	780
30.000	7110030000	7110030001	7110030002	6550 x 2450 x 2700 - 3000	2 x Ø600	990
35.000	7110035000	7110035001	7110035002	7530 x 2450 x 2700 - 3000	2 x Ø600	1140
40.000	7110040000	7110040001	7110040002	8510 x 2450 x 2700 - 3000	2 x Ø600	1290

Roterra 2450

horizontal water tanks



Volume [L]	Code RoTerra	Code RoDrink	Code RoDrive	Dimensions A x B x C [mm]	Cover [mm]	Weight [kg]
45.000	7110045000	7110045001	7110045002	9870 x 2450 x 2700 - 3000	3 x Ø600	1560
50.000	7110050000	7110050001	7110050002	10850 x 2450 x 2700 - 3000	3 x Ø600	1700
55.000	7110055000	7110055001	7110055002	11500 x 2450 x 2700 - 3000	3 x Ø600	1770
60.000	7110060000	7110060001	7110060002	12480 x 2450 x 2700 - 3000	3 x Ø600	1920
65.000	7110065000	7110065001	7110065002	13460 x 2450 x 2700 - 3000	3 x Ø600	2070



SPECIAL SHAPE – AIRCRAFT HULL

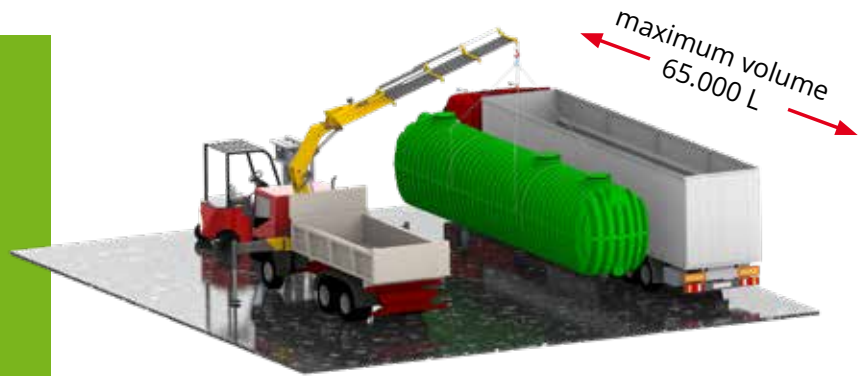
Leveraging over 50 years of experience, we have engineered the 20th generation of water storage tanks. The innovative geometric profile and advanced material composition provide clients with a durable, robust, and long-term solution, characterized by:

- Minimal ancillary materials required for site installation.
- Maximum internal volume/capacity for water storage.
- Optimal transport efficiency relative to the tank's nominal capacity.

In developing this solution, we drew inspiration from the aeronautical industry, resulting in a tank whose profile mimics that of an aircraft fuselage. This specific design geometry enables us to deliver tanks with greater volumetric capacity than competing models of equivalent length. Crucially, this inherent structural reinforcement allows the tanks to be installed beneath trafficable surfaces (or vehicular areas) without the requirement for supplementary reinforced concrete elements.



The biggest monolyth tank 20.000 L



Up to 65,000 L can be transported with one truck



Cheaper and faster installation comparing with concrete tanks - load capacity up to 40 t without an AB relief plate



Water tank has excellent statics characteristics and is resistant to the soil and underground water pressure.



Light weight for super fast installation



Variety of jointing systems to meet specific project requirements



100% watertightness



Different number, size and position of revision openings DN600, DN800



Resistant on earthquake



Possibility of integrated division walls



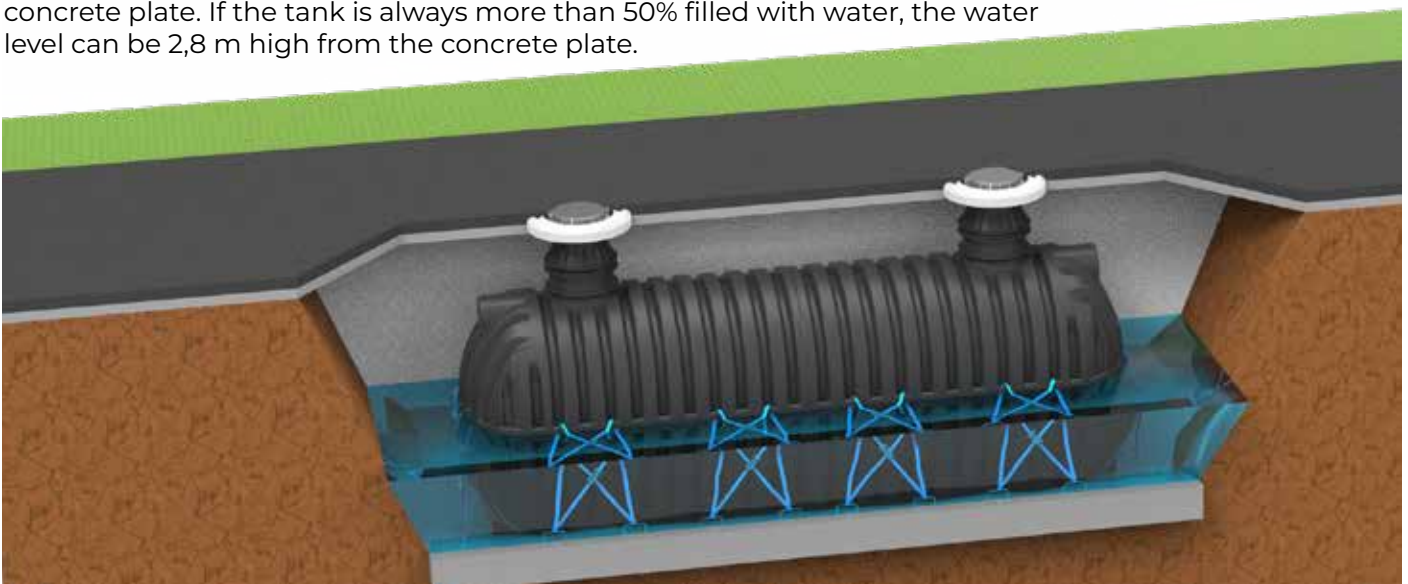
Water tank is made from polyethylene, which has service life 100 years+.



Cheaper transport costs and short delivery time

HIGH UNDERGROUND WATER

RoTerra Drive tank is designed to install also in area with high groundwater levels. If the tank is empty, the groundwater level can be until 1,3 m from the concrete plate. If the tank is always more than 50% filled with water, the water level can be 2,8 m high from the concrete plate.



Rodrive

drivable water tanks

Rodrink tanks are certified for driveability up to 40 t:
593/20-630-5




ZAG

RoTerra Drive tanks have passed the drivability tests of an authorized institute. Certified by the Slovenian National Building and Civil Engineering Institute. Static and dynamic load test performed (PIT test).

MULTIPLE APPLICATIONS



-  Buffer tank
-  Retention tank
-  Drinking water
-  Oil separator
-  Waste water treatment plant
-  Fire water
-  Rain water harvesting
-  Septic tank



Rodrink tanks are certified
for drinking water:
REG2-0004-04-ZGPro1-2731



Food-Grade Material: Made from 100% virgin, polyethylene that is certified for potable water contact. The material is UV-stabilized, preventing the growth of algae and ensuring water remains fresh and odorless.

INDUSTRIAL AREAS

Industrial areas are specific. The traffic is usually heavy, all areas are optimized with production facilities and there is not much room for water tanks.

RoTerra Drive is strong enough for such unfriendly surroundings. Placing it under driving surfaces, parking places or next to production facilities will create enough water supply for production processes or sanitary water. Cut your expenses and become independent.



Rocko

vertical water tanks

PE COVER WITH ADAPTER

The cover with gasket and hinged opening ensures effective watertightness. The load capacity of the PE DN 600 cover is up to 200 kg.

PE RING

It allows easy installation of an additional tank extension and thus easy adjustment to the terrain.

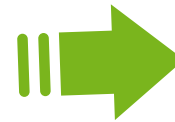
INTEGRATED EXTENSION

The extension of the ROTO Rocko tanks can be cut off so that the height can be adjusted to the terrain.

INFLOW



OUTFLOW



POSSIBILITY OF CONNECTION

HOLES FOR ANCHORING

They make it easier to attach tank to a concrete slab in case of anchoring due to high groundwater.

REINFORCING RIBS

Reinforcing ribs on both sides ensure the stability of the tank and protection in case of high water tables.



Rocko tanks can be used as an **UNDERGROUND** or **OVERGROUND** water tank.

Rocko water tank features:



Underground OR aboveground water tank

8 - 14 mm Wall thickness 8 - 14 mm

PE Material: polyethylene



Possibility to adjust the height of the extension to the requirements of the terrain



Made in one piece, 100% waterproof



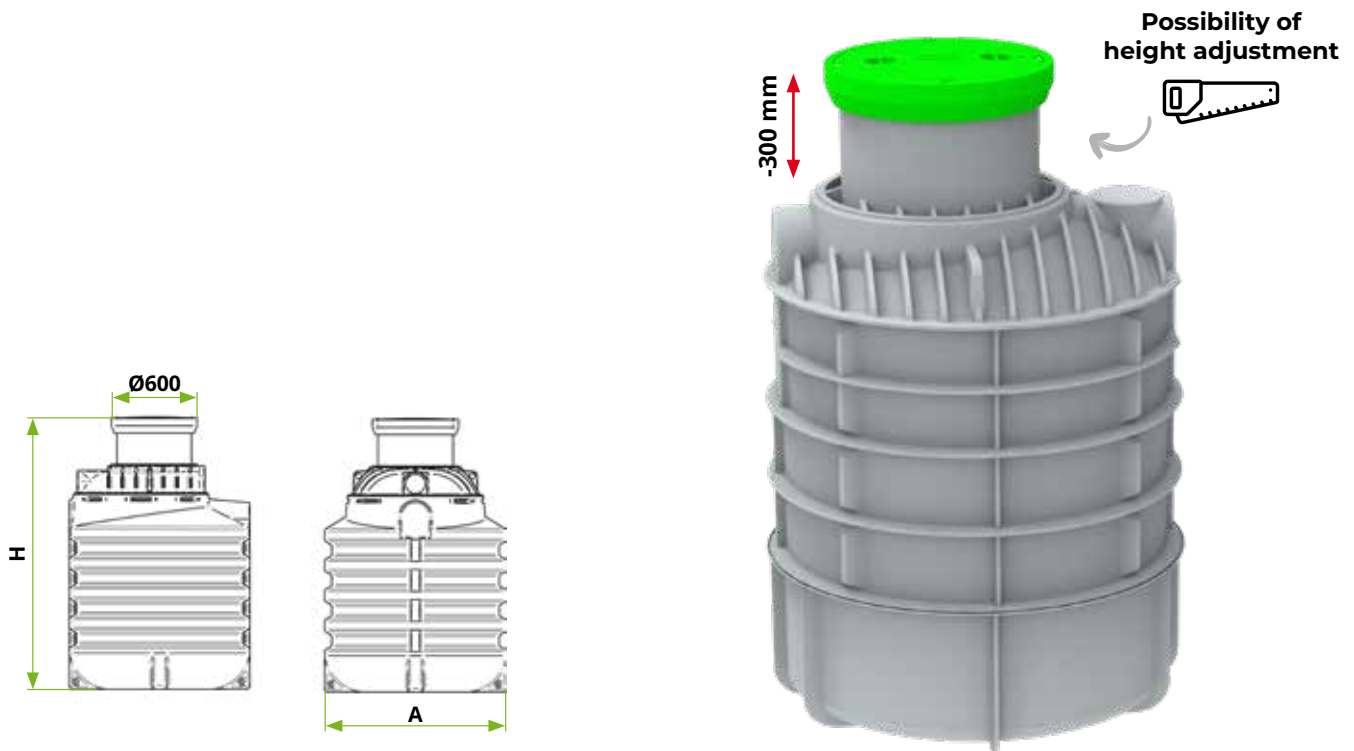
The product can be 100% recycled after use



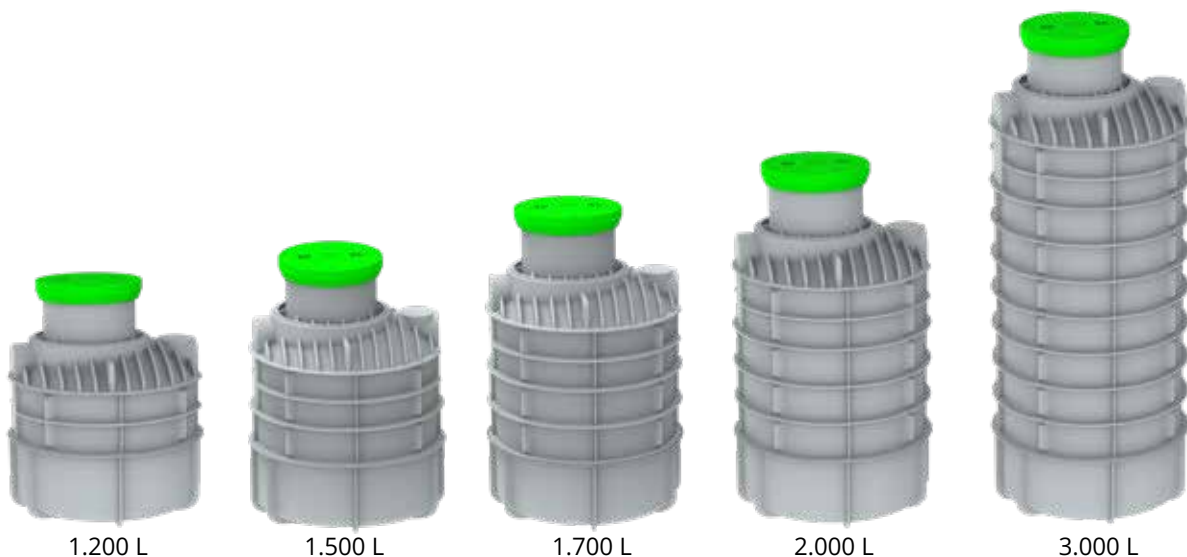
Excellent statics, resistance to earth pressures and external forces

Rocko Ø1300

vertical water tanks



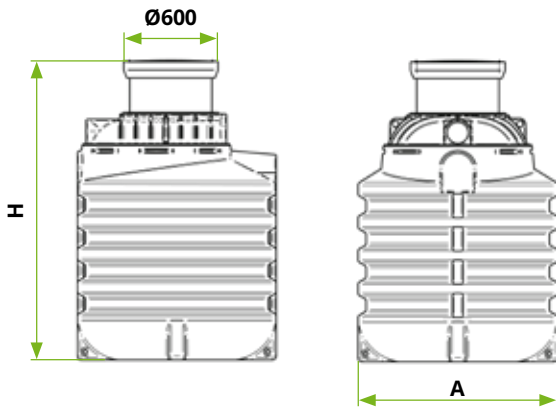
Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
1.200	7100057620	Ø1300 x 1550	Ø600/800	50
1.500	7100057630	Ø1300 x 1800	Ø600/800	65
1.700	7100057810	Ø1300 x 2050	Ø600/800	80
2.000	7100057640	Ø1300 x 2300	Ø600/800	95
2.300	7100057650	Ø1300 x 2550	Ø600/800	115
2.500	7100057840	Ø1300 x 2800	Ø600/800	130
2.800	7100057660	Ø1300 x 3050	Ø600/800	145
3.000	7100057860	Ø1300 x 3300	Ø600/800	160



Rocko Ø1500

vertical water tanks

Possibility of height adjustment



Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
2.000	7100067450	Ø1500 x 2000	Ø600	79
2.350	7100067460	Ø1500 x 2250	Ø600	90
2.700	7100067470	Ø1500 x 2500	Ø600	101



2.000 L



2.350 L



2.700 L

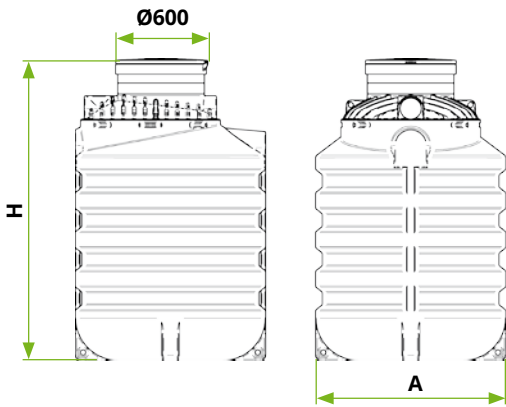
Rocko Ø1800

vertical water tanks

Possibility of height adjustment



-300 mm



Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
3.200	7100067260	Ø1800 x 2350	Ø800	136
4.000	7100067270	Ø1800 x 2700	Ø800	155
5.000	7100067280	Ø1800 x 3100	Ø800	182



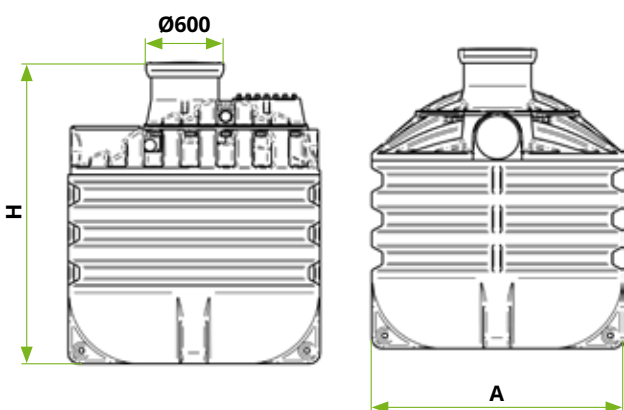
3.200 L

4.000 L

5.000 L

Rocko Ø2300

vertical water tanks



Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
6.000	7100067340	$\text{Ø}2300 \times 2400$	1 x $\text{Ø}800$	221
7.500	7100067350	$\text{Ø}2300 \times 2750$	1 x $\text{Ø}800$	252
8.700	7100067360	$\text{Ø}2300 \times 3100$	1 x $\text{Ø}800$	283
10.000	7100067370	$\text{Ø}2300 \times 3500$	1 x $\text{Ø}800$	315



6.000 L

7.500 L

8.700 L

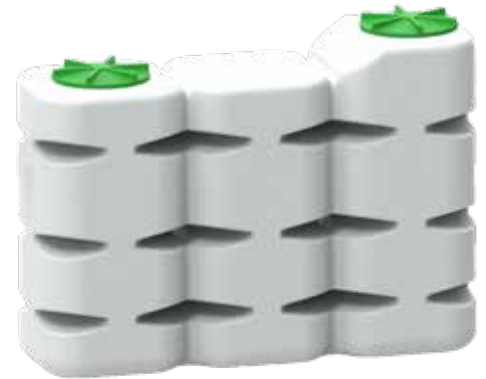
10.000 L

above ground water tanks

RoQuadro

Roquadro are the ideal choice for above-ground or basement. Their dimensions make them **easy to transport through normal front doors** and they are also very suitable as an **outdoor rainwater collecting tank**.

Volume [L]	Code	Dimensions A x B x C [mm]	Inspection opening [mm]	Weight [kg]
250	7104103260	600 x 600 x 928	Ø300	12
500	7104104060	760 x 760 x 1100	Ø300	23
750	7104106060	760 x 760 x 1600	Ø300	30
1.000	7104107660	760 x 1520 x 1100	Ø300	45
2.000	7104109460	760 x 2250 x 1600	Ø300	80



Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
325	7100527300	Ø620 x 1300	Ø200	12
500	7100527310	Ø740 x 1350	Ø300	26
800	7100527320	Ø840 x 1600	Ø500	30
1.000	7100527330	Ø950 x 1650	Ø300	34
1.500	7100527340	Ø1100 x 1850	Ø300	40
2.000	7100527350	Ø1200 x 1950	Ø380	60
3.000	7100527400	Ø1860 x 1430	Ø435	65
4.000	7100527410	Ø1860 x 1920	Ø435	75
5.000	7100077620	Ø1585 x 2825	Ø370	160
6.000	7100527420	Ø1860 x 2590	Ø435	125
8.000	7100527430	Ø2460 x 2020	Ø635	140
10.000	7100527440	Ø2460 x 2470	Ø635	220
15.000	7100527450	Ø2460 x 3620	Ø635	430

Rondo



Rotrans

Volume [L]	Code	Dimensions A x B x C [mm]	Inspection opening [mm]	Weight [kg]
300	7100527200	1220 x 590 x 660	Ø435	13
500	7100527210	1440 x 680 x 820	Ø435	17
1.000	7100527220	1730 x 870 x 1010	Ø435	28
1.500	7100527230	1610 x 1180 x 1310	Ø435	35
2.000	7100527240	1720 x 1250 x 1400	Ø435	47
3.000	7100527250	2030 x 1430 x 1600	Ø435	67
5.000	7100527260	2150 x 1840 x 1960	Ø435	130



RoCube

horizontal water tanks

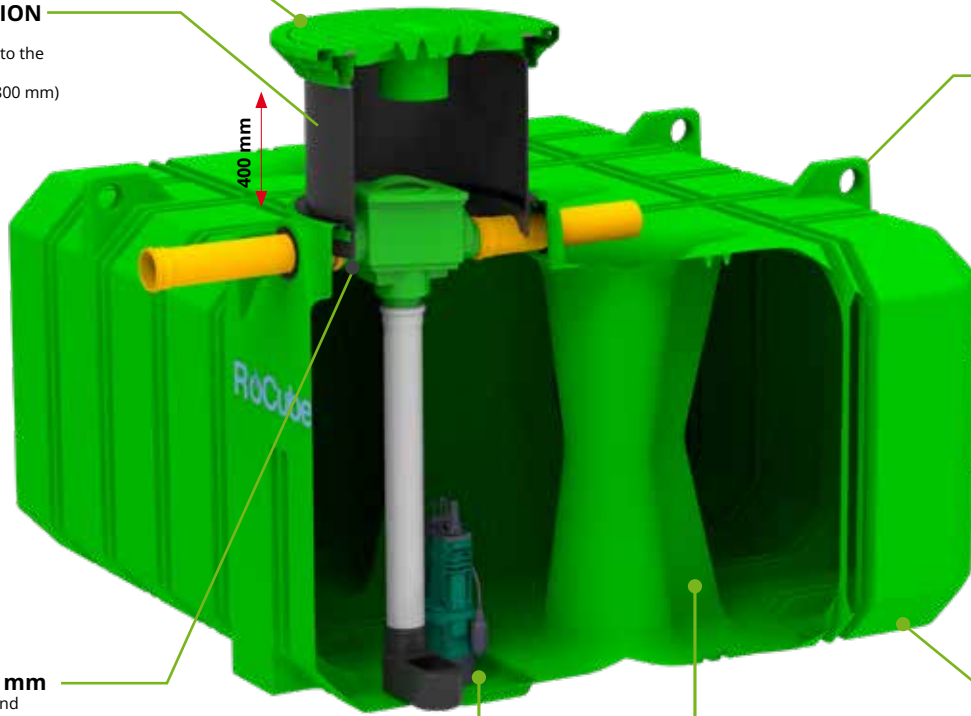
HINGED COVER

CYLINDRICAL EXTENSION

- with gasket, 100% watertight
- height and slope adjustment to the construction pit,
- two versions (h=500 mm, h=800 mm)

LIFT POINTS

for lifting the tank



FINE FILTER DN100 mm

removes leaves, branches and other debris from the rainwater, it is installed above the tank and therefore allows 100% utilisation of the tank volume and the installation of inlet pipes on all sides

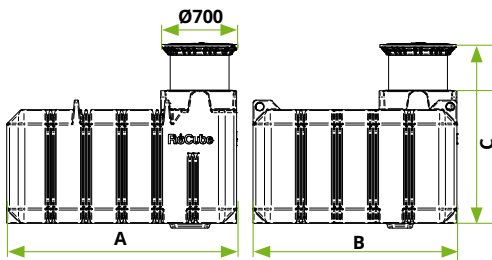
PUMP SUBMERSION AND PUMP

allows the tank to be completely emptied

REINFORCING TUNNELS

SQUARE SHAPE

The shallow and narrow construction pit makes installation quick, easy and cheaper

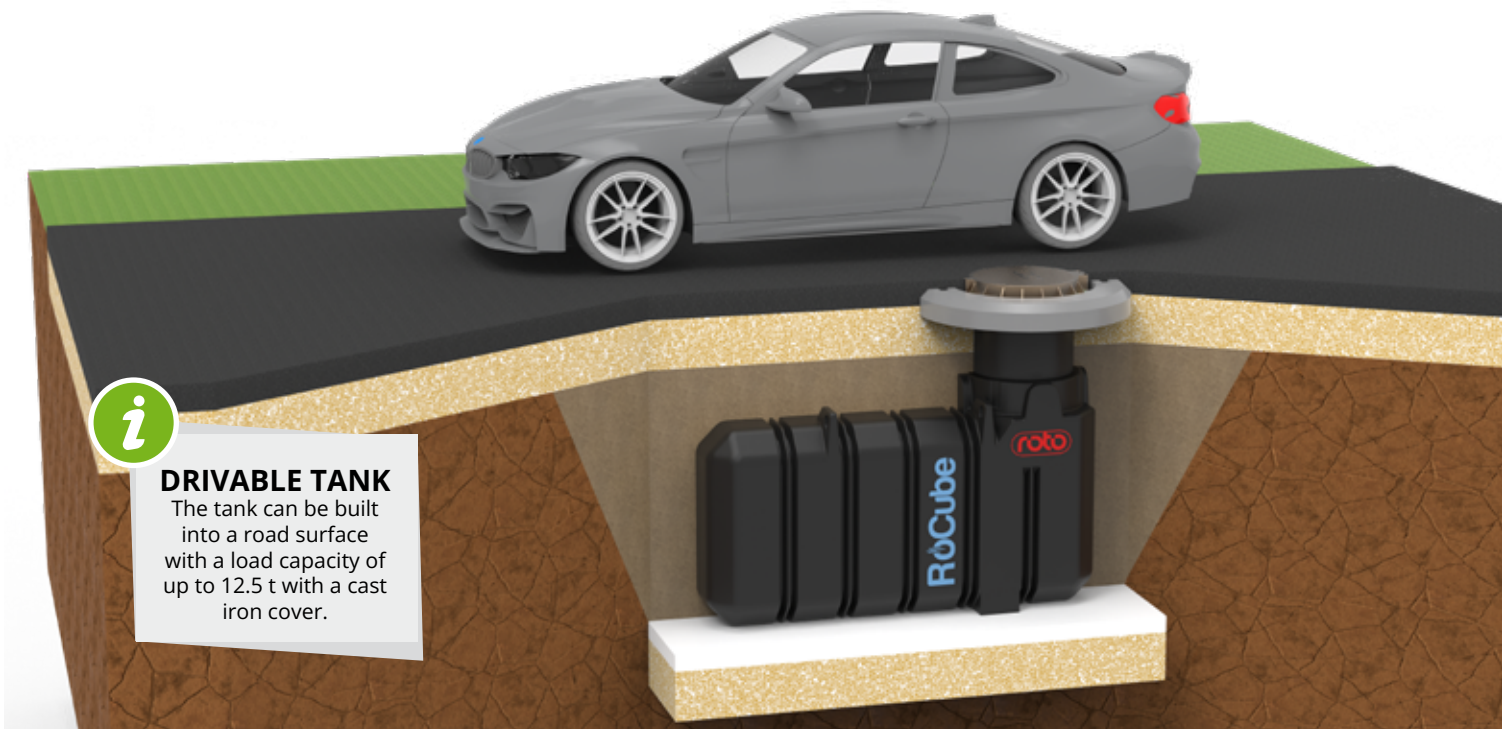


Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
5.000	7100069440	2425 x 2150 x 1450 - 1850	Ø600	250
7.500	7100069450	3225 x 2150 x 1450 - 1940	2x Ø600	450
10.000	7100069460	4725 x 2150 x 1450 - 1940	2x Ø600	500
15.000	7100069430	6625 x 2150 x 1450 - 1940	2x Ø600	755



RoCube drink

Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
5.000 L RoCube drink	7100069441	2425 x 2150 x 1450-1850	Ø600	250
7.500 L RoCube drink	7100069451	3225 x 2150 x 1450-1940	2x Ø600	450
10.000 L RoCube drink	7100069461	4725 x 2150 x 1450-1940	2x Ø600	500
15.000 L RoCube drink	7100069431	6625 x 2150 x 1450-1940	2x Ø600	755



DRIVABLE TANK

The tank can be built into a road surface with a load capacity of up to 12.5 t with a cast iron cover.

RoCube drive

Volume [L]	Code	Dimensions A x H [mm]	Inspection opening [mm]	Weight [kg]
5.000 L RoCube drive	7100069442	2425 x 2150 x 1450-1850	Ø600	320
7.500 L RoCube drive	7100069452	3225 x 2150 x 1450-1940	2x Ø600	430
10.000 L RoCube drive	7100069462	4725 x 2150 x 1450-1940	2x Ø600	700
15.000 L RoCube drive	7100069432	6625 x 2150 x 1450-1940	2x Ø600	850

Robox

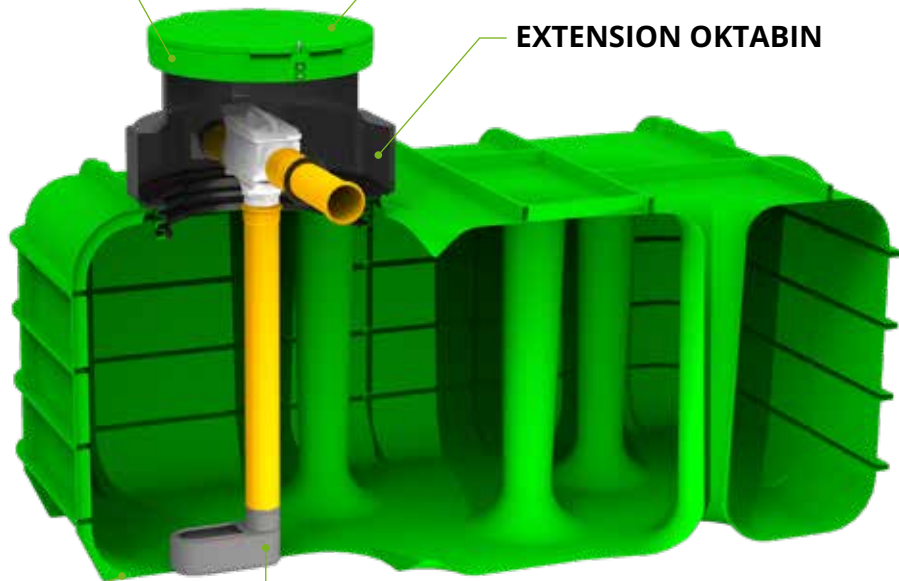
flat water tanks

HINGED COVER

The Roterra tank lid with gasket ensures water tightness. The lid is hinged to the telescopic extension, making it easy to open.

COVER

EXTENSION OKTABIN



EXTENSION OKTABIN

For quick and easy installation of a fine filter and soothing siphon. At the same time we achieve a slight increase in the volume of the tank. Available as additional equipment.

INSTALLATION

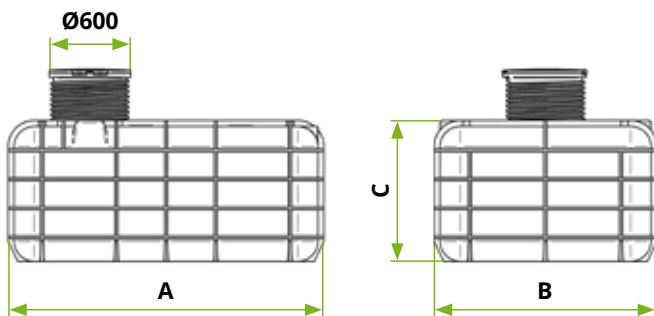
The flat bottom allows for quick and easy installation.

FILTER SET

Omni-directional inlet/flow due to the smooth surface



Up to 14 tanks can be transported with a semi-trailer.



Volume [L]	Code	Dimensions A x B x C [mm]	Inspection opening [mm]	Weight [kg]
5.000	7100072290	2690 x 1890 x 1200	Ø600	200

references



WASTE WATER TREATMENT PLANTS

Roclean



4 - 50 PE

SBR system for residential and commercial buildings

Roclean



75 - 300 PE

SBR system for residential and commercial buildings

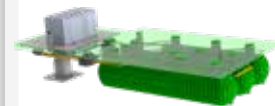
Roclean PRO



350 - 1000 PE

SBR system for residential and commercial buildings

Rogreen PRO



600 - 3000 PE

SBR/MBBR system for residential, hospitality, and commercial applications

EcoBox



4 - 8 PE

SBR system for residential buildings, an space-saving solution designed for installation under trafficable surfaces

RoOxy



4 - 8 PE

Fully aerated system for residential buildings, an space-saving solution designed for installation under trafficable surfaces

EcoBlue



4 - 8 PE

MBBRsystem for hospitality buildings, an space-saving solution designed for installation under trafficable surfaces

Romem



4 - 6 PE

MBRsystem, an space-saving solution designed for installation under trafficable surfaces

RoEco



3 - 8 PE

Fully aerated system for residential buildings

RoKit - SBR



4 - 50 PE

Professional SBR technology components for installation in various tank types

RoKit - MBBR



4 - 20 PE

Professional MBBR technology components for installation in various tank types

RoKit - OXY



4 PE - 3K

Professional fully aerated technology components for installation in various tank types



Advantages of ROTO waste water treatment plants

97%

HIGH CLEANING EFFICIENCY

ROTO treatment plants purify water up to 97.2%. They operate safely and reliably, are virtually silent and odourless, and are insensitive to fluctuations in the ambient temperature. Urban waste water from toilets, bathrooms, kitchens and similar sources of pollution in houses is treated to the point where it can be safely discharged into surface water or a seepage pond.



LOW OPERATING COSTS

Water purification is Easy, because all the components of the waste water treatment plant work on air-lift pump principle. The air compressor is located in the separate cabinet where it is protected from the environment, which reduces the potential for failures and makes the wastewater treatment plant extremely efficient, with yearly running costs under 6 €/year/person.



RELIABILITY AND TRUST

ROTO is a pioneer in the production of waste water treatment plants in Slovenia, Europe and around the world. Several thousand ROTO waste water treatment plants ranging from 3 to 2500 units, septic tanks, oil and grease separators and water tanks have been installed. The award from the ZRMK Institute of Civil Engineering confirms the excellence of the product as judged by the building profession.



LONG LIFETIME

The waste water treatment plant tank is made of polyethylene, which has a service life of 50 years. It is made in one piece, so it is 100% waterproof. The waste water treatment plant tank has excellent statics and walls which are 8-14 mm thick, making it resistant to soil pressures and external influences.



EASY SAMPLING

All ROTO waste water treatment stations have a built-in sampling container from which we can check the purifying efficiency of the plant.



24H SERVICE

We guarantee fast delivery, maintenance, commissioning and servicing by ROTO's expert staff. Servicing by ROTO includes checking the condition and operation of the waste water treatment plant components, the cleaning efficiency, and checking the operational status as well as testing all plant functions. We instruct the user on the maintenance and correct use of the waste water treatment plant, and can also organise or supervise the installation and burial.



PROFESSIONAL CONTROL UNIT

The cleaning device works fully automatically as it is controlled by a computer built into the cabinet. This robust and stylish cabinet is made of polyethylene. The cabinet design ensures easy access for maintenance, protects the control unit, compressor and valves from external influences and thus prolongs their service life. The cabinets are available in different sizes, designs (free-standing or wall-mounted) and materials (polyethylene and concrete). Control units can be upgraded with remote monitoring – telemetry.



EASY INSTALLATION

Installation of the waste water treatments plants is fast and simple. Dig a construction pit, install a treatment plant, fill it with water and connect it with the inflow of wastewater from the house. The tank of the treatment plant has a telescopic extension, so the height of the tank can be adjusted to the requirements of the terrain.



UNDERGROUND INSTALLATION

The waste water treatment plants are intended for underground installation, so when installed the treatment plant won't in any way affect your landscape or take up any additional space.



100% RECYCLING

The waste water treatment plant can be dismantled after use and the polymer components can be fully recycled.



QUICK DELIVERY

Roto is Slovenian manufacturer. Delivery can be made in few days after the order

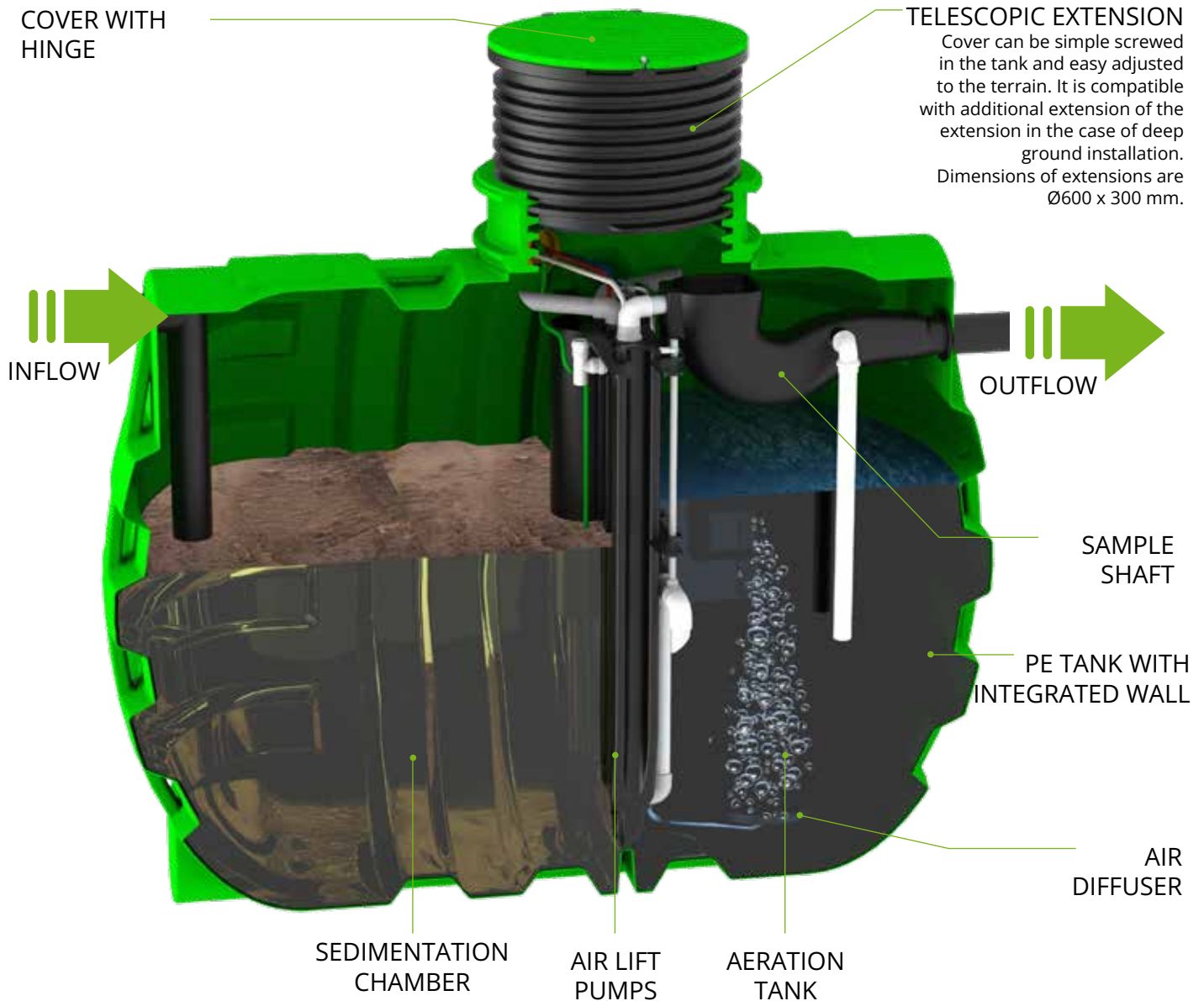


EU PRODUCT

ROTO WWTP's are 100% Slovenian product. Our factory has its own development, production and assembly line in Puconci near Murska Sobota (Slovenia). Roto waste water treatment plants are made according to the EU standards EN 12566-3 and reach purification stage BPK₅ < 30mg/l, KPK < 150 mg/l

Roclean

SBR waste water treatment plant



RoClean

advantages

EASY AND SAFE ACCESS

RoClean has an inspection opening DN 600 or DN 800, which allows easy access and maintenance and servicing of the waste water treatment plant.

SAMPLE SHAFT

In the case of smaller RoClean units, the sample shaft is integrated and self-cleaning and easily accessible through the inspection opening. For larger waste water treatment plants, it is installed in a DN600 shaft.

TELESCOPIC EXTENSION

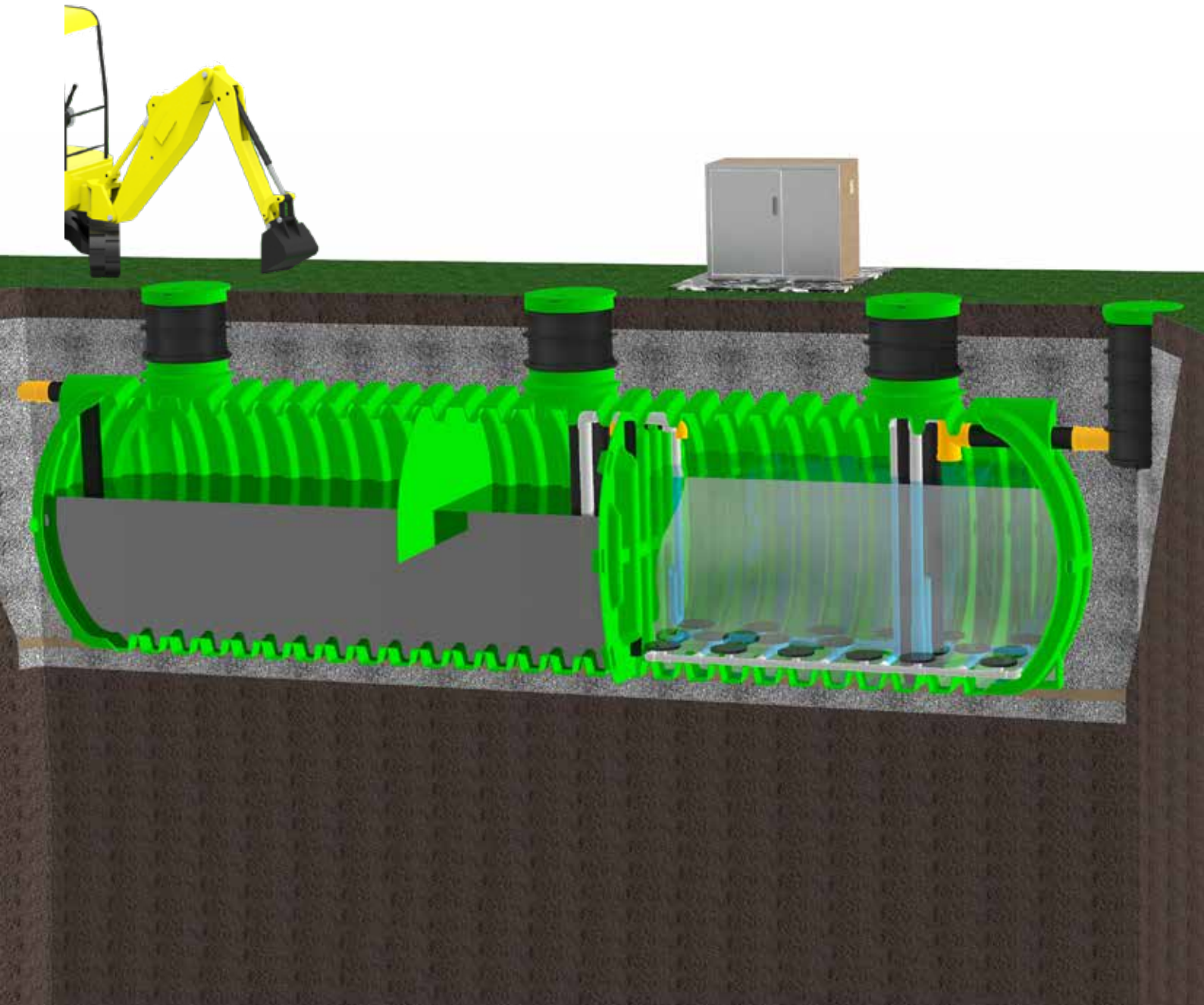
The telescopic extension allows quick and easy height adjustment upon installation.

CONTROL CABINET

Waste water treatment plants up to 75 PE have a polyethylene control unit locker, while those above 100 PE have a concrete control locker. A 3 x 2.5 mm² power lead must be connected to the control box to supply the control unit.

TANK

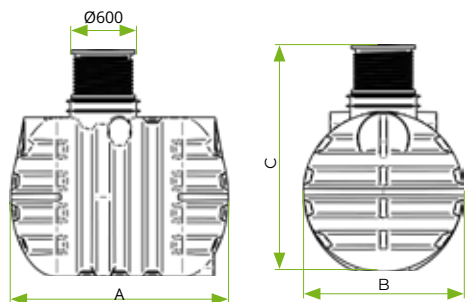
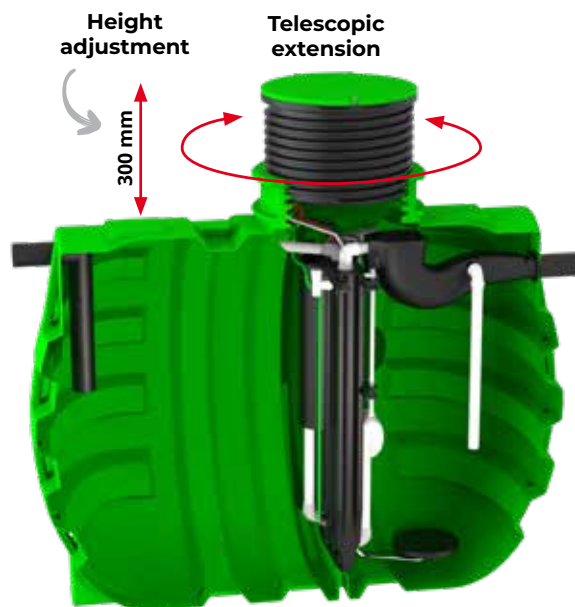
is made from a single piece of polyethylene using a rotational moulding process. Durability and longevity are ensured by walls with a thickness of 8 mm to 14 mm. Reinforcing ribs improve the tank's strength and resistance to soil pressures.



SBR waste water treatment plant

RoClean is the ideal waste water treatment plant for small accommodations, hotels, housing estates, apartment buildings, schools, factories and office buildings, campsites, etc., which are not connected to the public sewage network.

The waste water in RoClean water does not flow freely through the system, but its feedes with specific volumes from the storage tank into the SBR reactor, where it is processed through several treatment cycles. This results in different water levels in different tanks.



PU	4	6	8	12	16	20	30	40	50
Code	7200079840	7200079850	7200079860	7200063770	7200063780	7200063790	7200063760	7200063820	7200063830
Max. day inflow [l/dan]	600	900	1200	1800	2400	3000	5000	6000	8000
Volume [L]	3.500	5.000	6.000	8.000	10.000	12.000	16.000	16.000	20.000
Dimension A x B x C [mm]	2080 x 1800 x 2050 - 2350	2450 x 1800 x 2050 - 2350	2820 x 1800 x 2050 - 2350	2680 x 2300 x 2550 - 2850	3050 x 2300 x 2550 - 2850	3760 x 2300 x 2550 - 2850	4840 x 2300 x 2550 - 2850	4840 x 2300 x 2550 - 2850	6280 x 2300 x 2550 - 2850
Diameter of inspeciton opening	DN600	DN600	DN600	2 x DN600	2 x DN600	2 x DN600	3 x DN600	3 x DN600	3 x DN800
Diamater of inflow/outflow pipe	DN 110	DN 110	DN 110	DN 110	DN 110	DN 125	DN 125	DN 125	DN 125
Airflow volume (compressor) [l/min]	80	80	120	150	200	250	300	300	425
Power consupcion (compressor) [W]	58	58	122	130	186	202	298	298	400
Sound level [dB]	36	36	46	48	48	55	56	56	51
Control system cabinet	P6	P6	P6	P6	P6	P5	P5	P5	P5
Control unit	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM	RC/RW/RGSM
Sample shaft	5 L	5 L	5 L	5 L	5 L	5 L	5 L	5 L	5 L

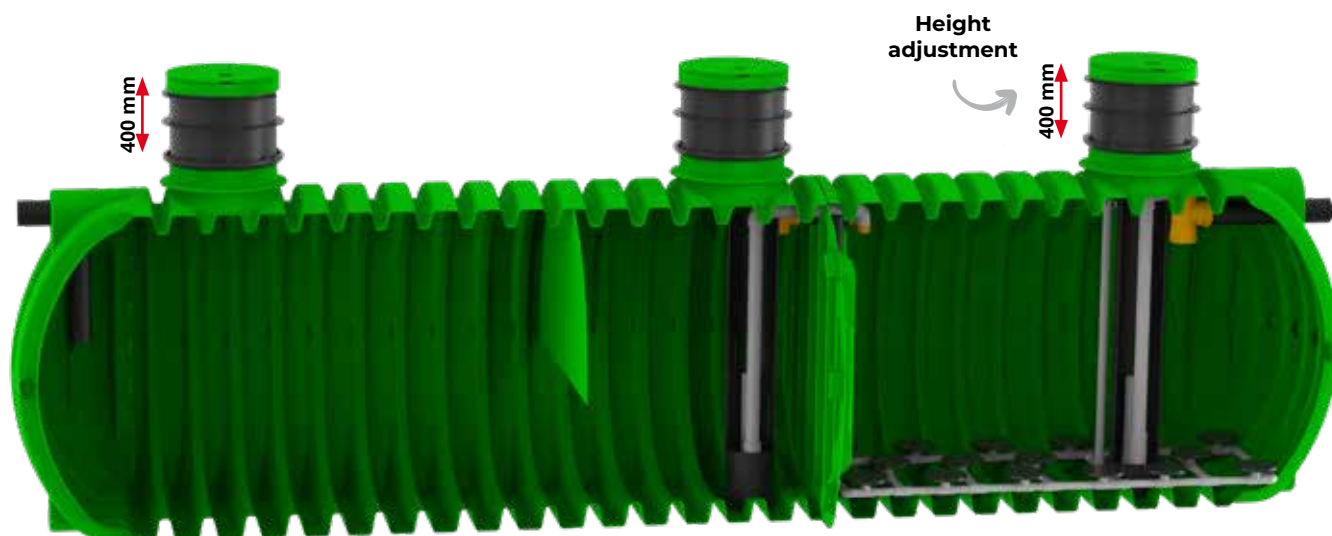
SBR waste water treatment plant

The RoClean waste water treatment plant is installed in a single tank, which consists of two compartments: the sludge storage tank and the SBR reactor.

It works on the airlift pump. It is suitable for the treatment of municipal waste water from settlements, catering and commercial buildings with a constant influx of large volumes of waste water.

RoClean is sized according to SIST EN 12255-1, -4, -6, -10, -11, -12, where a daily flow of 150 L/day/person is foreseen. Treated water may be discharged into watercourses of another category.

The control unit is mounted in a polyethylene or concrete cabinet, which is specified by our professionals according to the type of plant and the number of accessories.

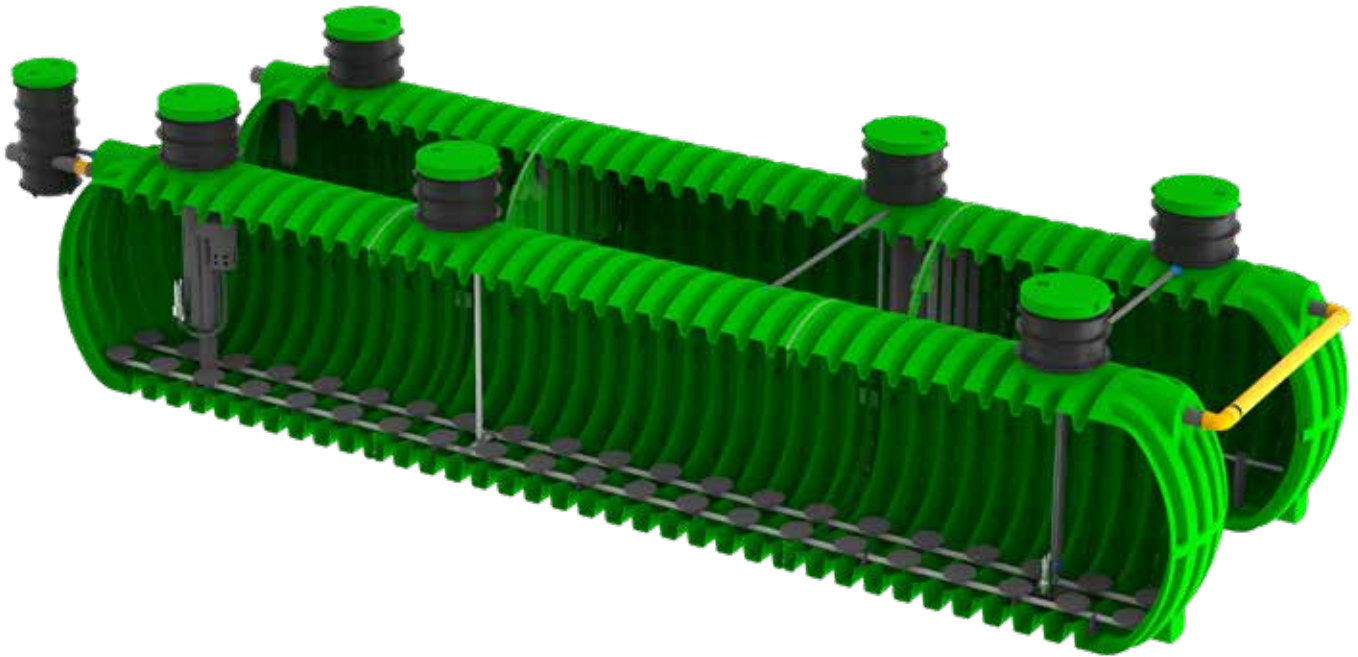


PU	75	100	150	200	300
Code	7200063850	7200063840	7200063860	7200063870	7200063880
Max. day inflow [l/dan]	120000	150000	230000	300000	450000
Volume [L]	25.000	30.000	40.000	50.000	65.000
Dimension A x B x C [mm]	5720 x 2420 x 2700-3000	6620 x 2450 x 2700-3000	8600 x 2450 x 2700-3000	10960 x 2450 x 2700-3000	13600 x 2450 x 2700-3000
Diameter of inspection opening	3 x DN800	2 x DN800	2 x DN800	3 x DN800	3 x DN800
Diameter of inflow/outflow pipe	DN200	DN200	DN200	DN200	DN200
Airflow volume (compressor) [l/min]	35	35	95	95	165
Power consumption (compressor) [W]	700	700	1600	1600	3000
Sound level [dB]	55	55	66	66	72
Control system cabinet	B8	B8	B8	B13	B13
Control unit	RC/RW	RC/RW	RC/RW	RC/RW	RC/RW
Sample shaft	56 L	56 L	56 L	56 L	56 L

SBR waste water treatment plant

Fully automated processes and additional sensors allow the waste water treatment plant to automatically adapt its operation to the specifics of the facility. The data collected from the sensors is used by the smart control to modify and optimise the operating regime in order to clean as efficiently as possible and minimise operating costs. A phone app allows you to remotely monitor and control the waste water treatment plant.

RoGreen's smart municipal waste water treatment plant responds automatically to changing influent conditions, which competitors' waste water treatment plants do not provide. This results in higher waste water treatment efficiency, lower electricity consumption and lower maintenance costs as the operator does not have to adjust the operating settings to the changing inflow.

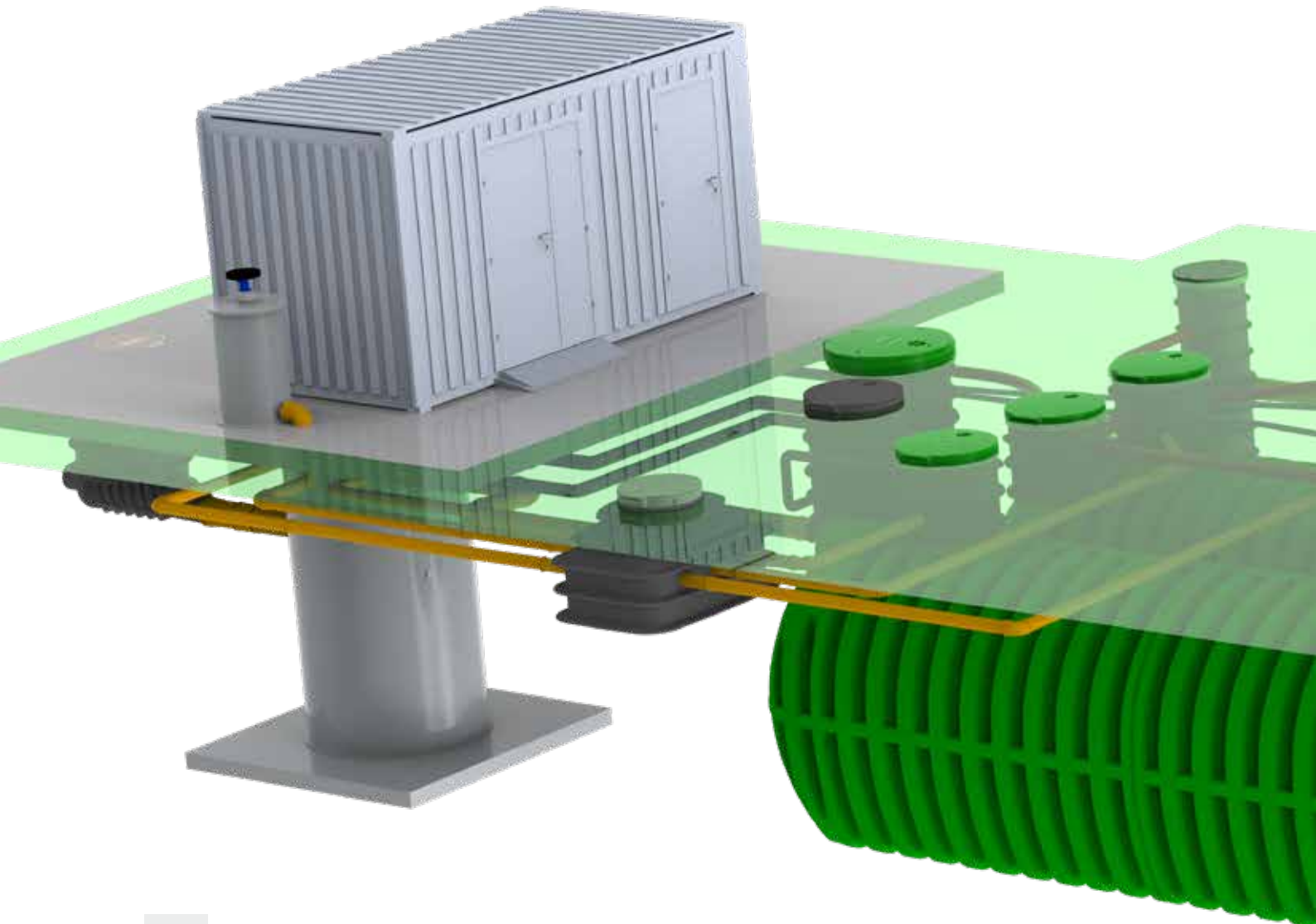


PU	100	150	200	300	400	500
Code	7200063841	7200063861	7200063871	7200063881	7200063891	7200063901
Max. day inflow [l/dan]	15000	22500	30000	45000	60000	75000
Volume [L]	30.000	40.000	50.000	65.000	1x 40.000 1x 45.000	2x 50.000
Dimension A x B x C [mm]	6550 x 2450 x 2700-3000	8510 x 2450 x 2700-3000	10850 x 2450 x 2700-3000	13460 x 2450 x 2700-3000	1x (8510 x 2450 x 2700-3000) 1x (9870 x 2450 x 2700-3000)	2x (10850 x 2450 x 2700-3000)
Diameter of inspection opening	2 x DN600	2 x DN600	3 x DN600	3 x DN600	5 x DN600	6 x DN600
Diameter of inflow/outflow pipe	DN200	DN200	DN200	DN200	DN200	DN200
Airflow volume (compressor) [l/min]	35	95	95	165	265	265
Power consumption (compressor) [W]	700	1600	1600	3000	4000	4000
Sound level [dB]	55	66	66	72	73	73
Control system cabinet	B8	B8	B8	B8	B13	B13
Control unit	Green PRO	Green PRO	Green PRO	Green PRO	Green PRO	Green PRO
Sample shaft	56 L	56 L	56 L	56 L	56 L	56 L

RoGreen PRO

SBR waste water treatment plant

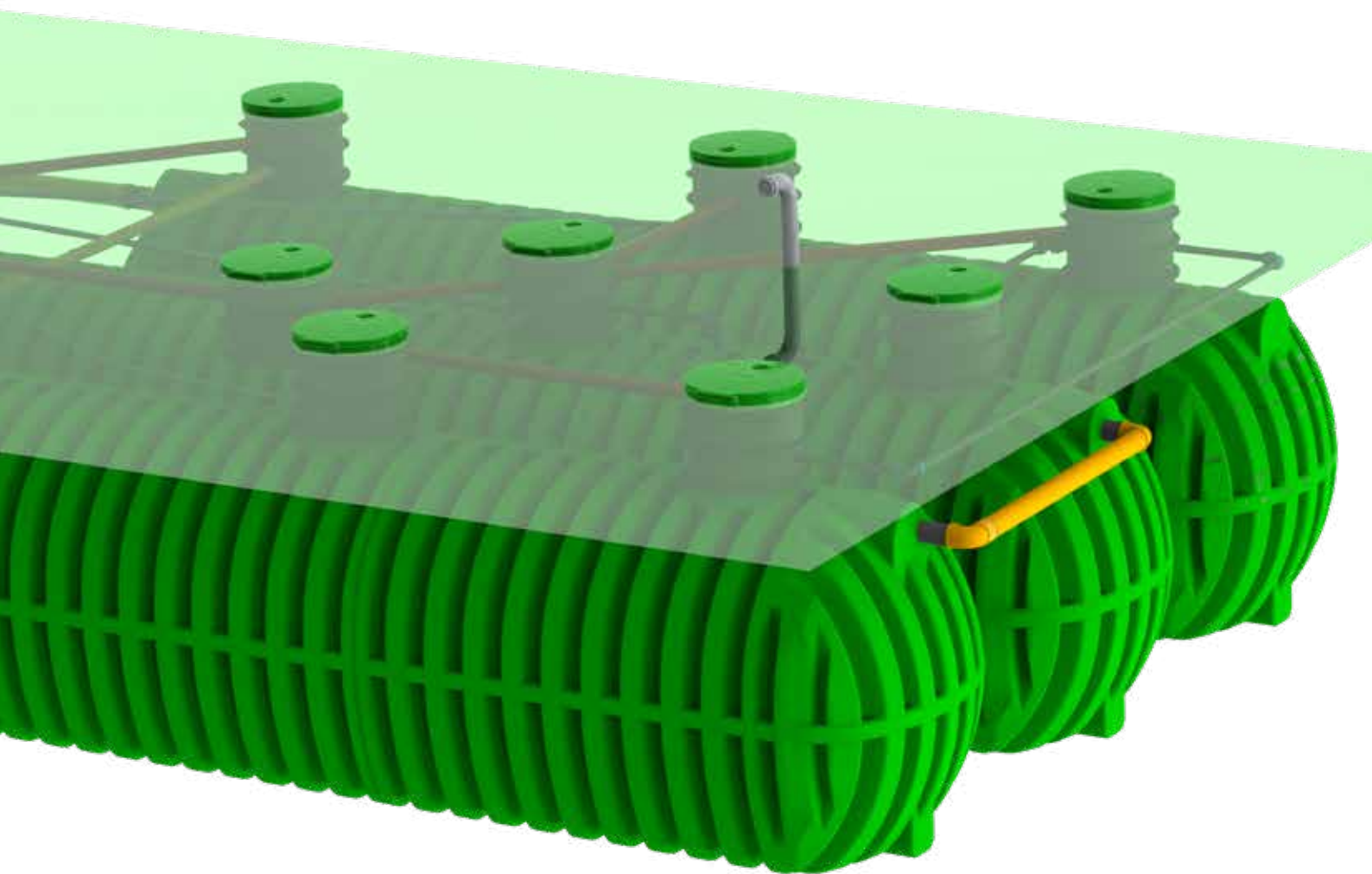
500-2000 PU



-  Campings
-  Hotels
-  Village

RoGreen PRO 650+ are professional WWTPs for residential or tourist facilities and factories. The waste water treatment plants are built into RoTerra tanks. A computer controls a system of pumps in the waste water treatment plant, which pump water between the chambers and to the outlet, via a PLC. Float switches control the operation of the pumps. We design a professional control system for each project. The RoGreen PRO is easy to maintain as it is designed so that all hardware can be pulled out through the

inspection openings for servicing. The basic version can be upgraded with various accessories. Sensors adjust the processes in the waste water treatment plant to the volume of waste water flow, increasing the efficiency of treatment. Capacity can be increased modularly. The additional SCADA control system allows us to easily remotely control and monitor the waste water treatment plant.



PU	Volume [L]	Dimensions A x B x C [mm]
500	2 x 50.000	2x (10850 x 2425 x 2700-3000)
1000	4 x 50.000	4x (10850 x 2425 x 2700-3000)
1500	6 x 50.000	6x (10850 x 2425 x 2700-3000)
2000	8 x 50.000	8x (10850 x 2425 x 2700-3000)

Rogreen PRO

additional equipment

100-2500 PU

Because we recognise the importance of protecting the environment, we closely monitor and control the performance of major waste water treatment plants. With the latest hardware, electrical equipment and information technology, all processes in ROTO waste water treatment plants can be controlled remotely.



PLC

solenoid valve

blower

flocculant dosator

fine screen bar

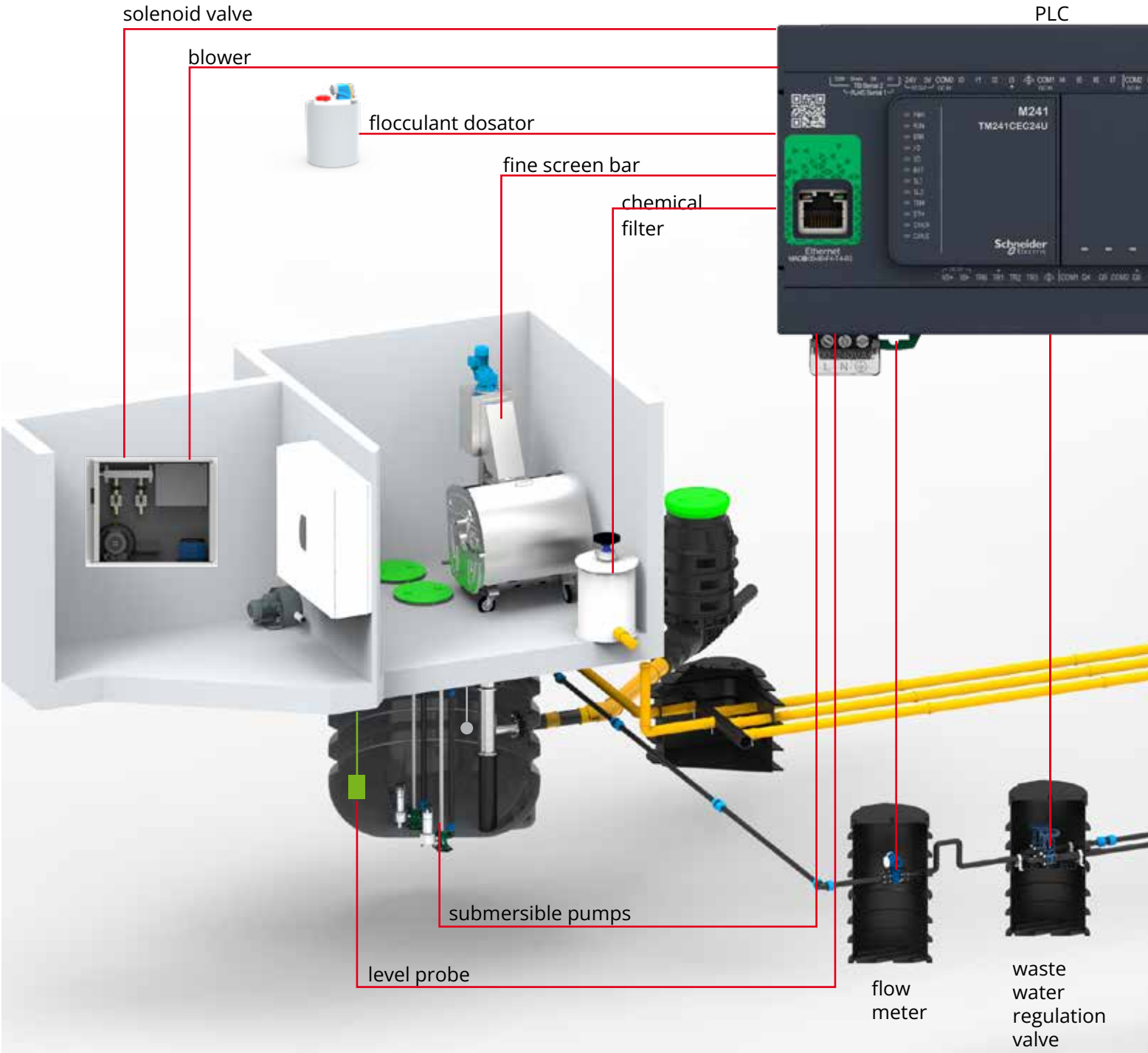
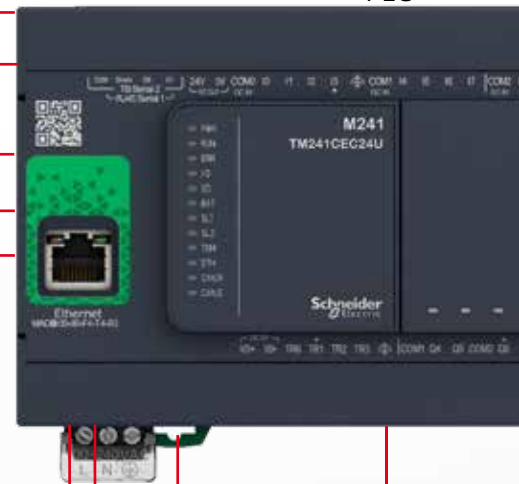
chemical filter

submersible pumps

level probe

flow meter

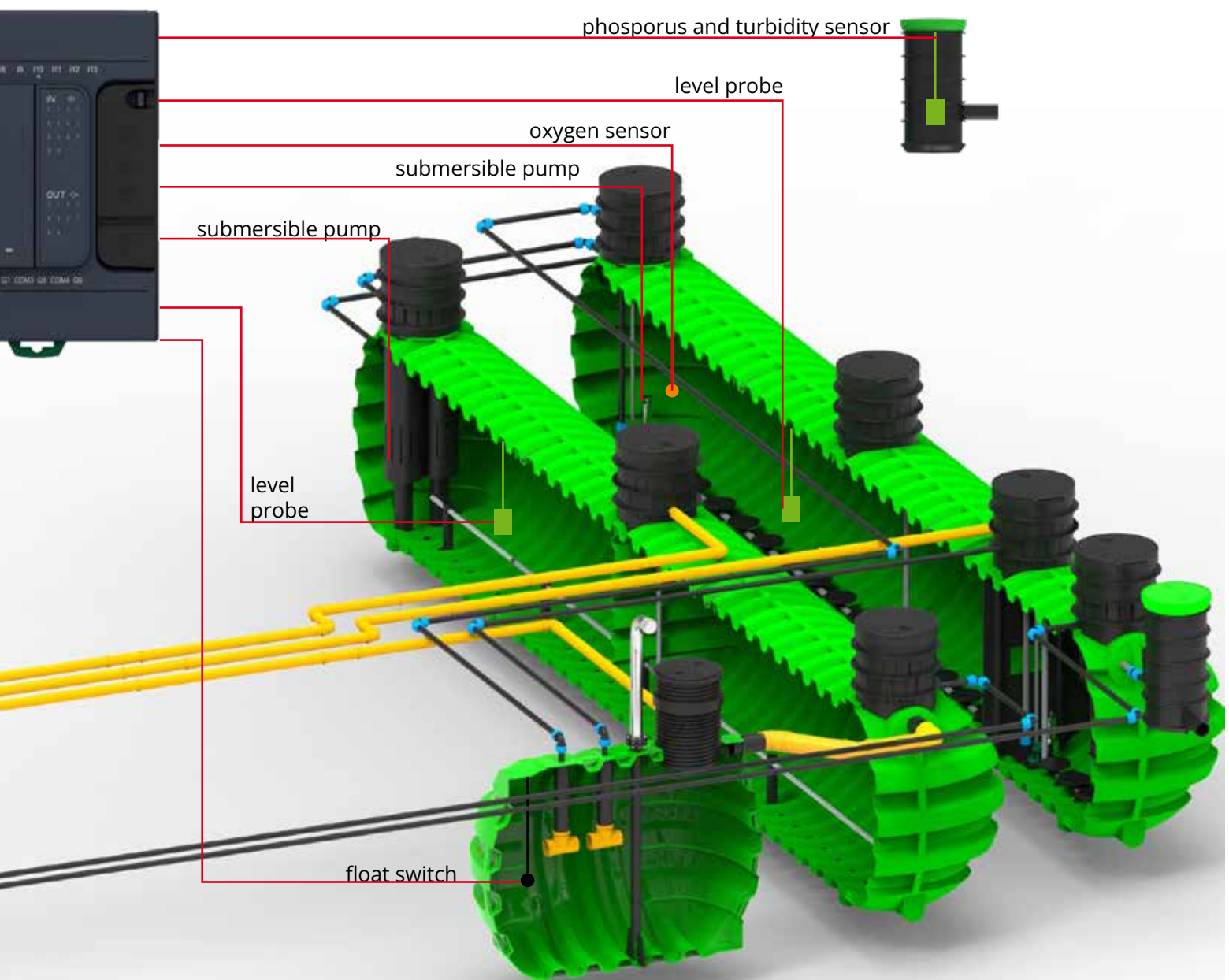
waste water regulation valve





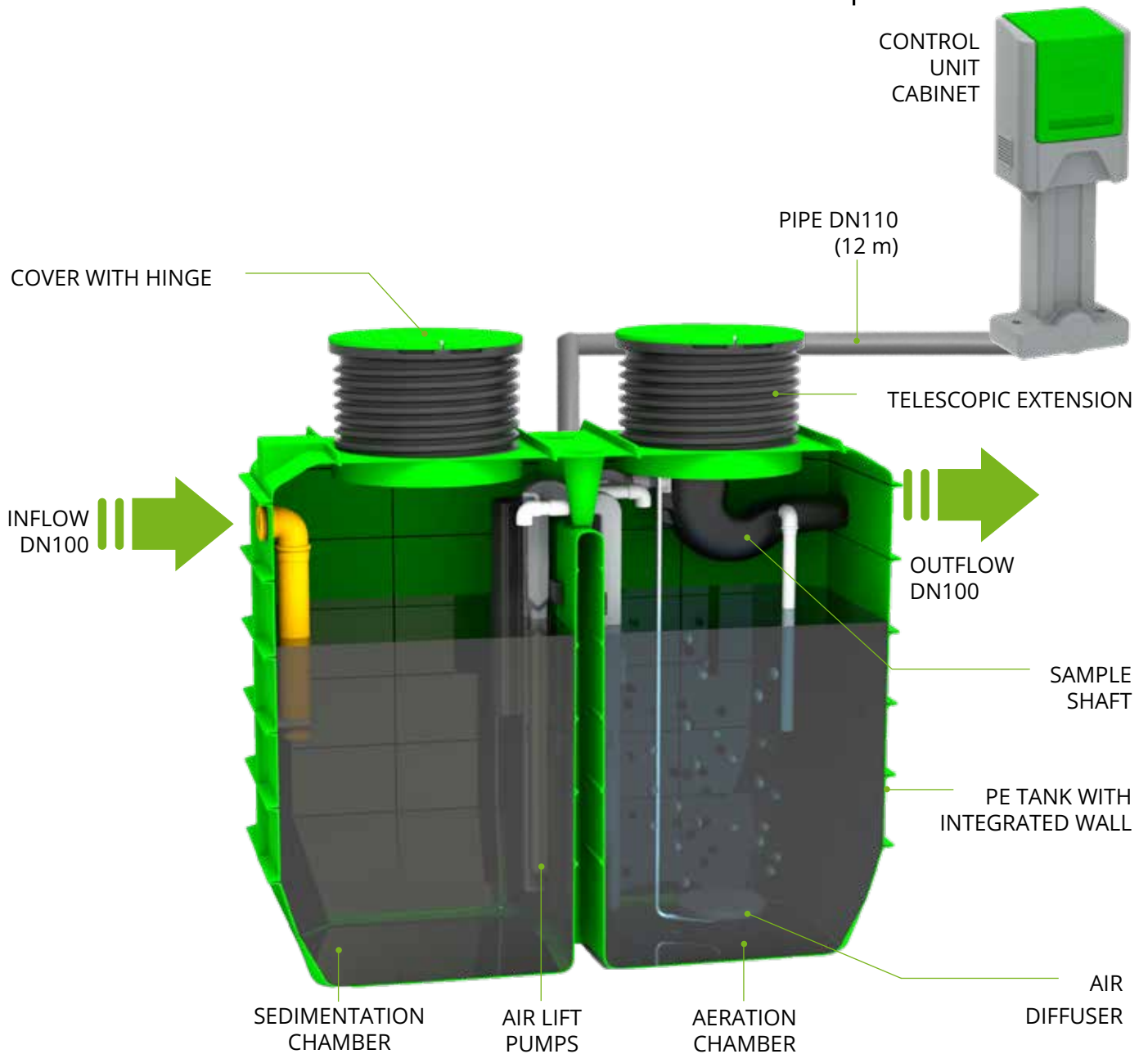
The SCADA control system is a quick and transparent way for the user to manage the entire treatment process, while allowing us to adjust the operation according to the influent and effluent parameters.

Data is transmitted from the sensors to the controller and stored in a central control centre. You can remotely control individual components of the waste water treatment plant and monitor the system's performance anytime, anywhere via smart devices.



EcoBox

SBR waste water treatment plants



roWEB
Web application for remote control and operating mode

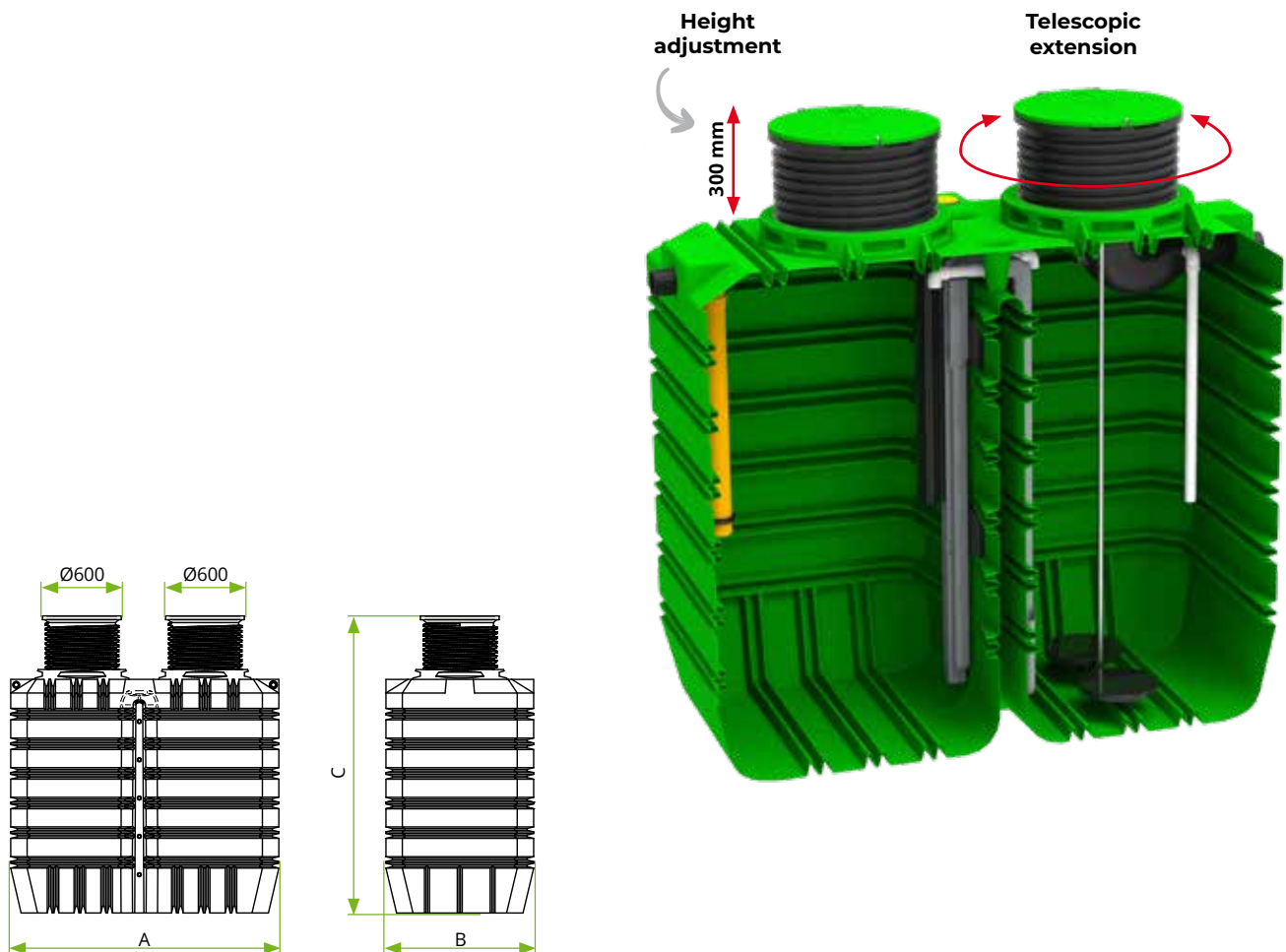


SBR TECHNOLOGY:

Process is managed by computer which is installed into the special box. Software is steering 4 magnetic valves. Each valve has specific function:

1. Pumping water from mud collector to the aerator.
2. Aeration in aeration chamber.
3. Pumping of purified water from aeration chamber to the outflow.
4. Pumping sediment mud from aerator chamber back to the mud collector

SBR waste water treatment plant

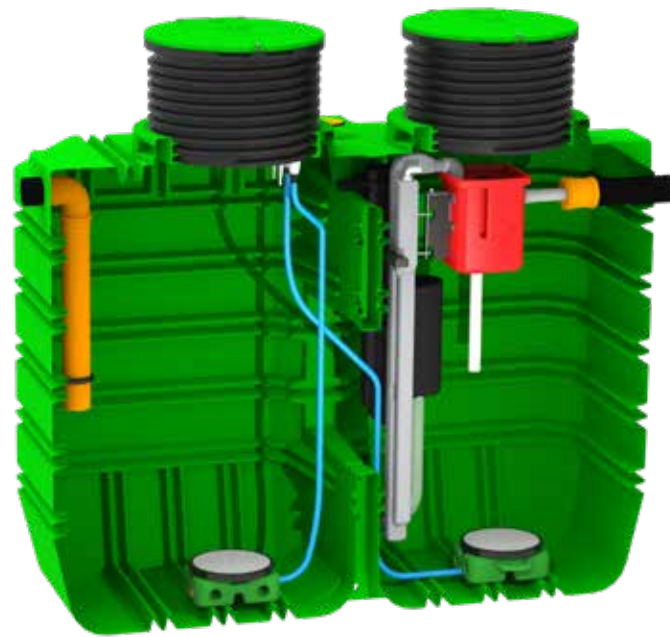


PU	4		6	8
Code	7200079958		7200079948	7200076738
Max. day inflow [l/dan]	750		900	1350
Volume [L]	4000 L	4500 L	5200 L	6000 L
Dimension A x B x C [mm]	2330x1175x2240-2440	2450x1350x2080-1780	2450 x 1350 x 1750-2050	2450 x 1350 x 2520-2720
Diameter inspection opening	2 x DN600		2 x DN600	2 x DN600
Height of inflow/outflow [mm]	1610/1530	1420/1340	1690/1610	1960/1880
Diameter of inflow/outflow pipe	DN 110		DN 110	DN 110
Airflow volume (compressor) [l/min]	80		100	100
Power consumption (compressor) [W]	50		75	75
Sound level [dB]	38 dB		42 dB	42 dB
Control system cabinet	P4.5		P4.5	P4.5
Control unit	RC		RC	RC
Sample shaft	5 L		5 L	5 L

RoOxy

Fully aerated technology waste water treatment plant

Our RoOxy complete systems are available as: Single-tank, two-chamber system with 4-8 inhabitants delivered. Thanks to the integrated, rotated partition the container has excellent properties static properties. Through the narrow Rectangular shape is also easy to install possible in cramped installation conditions. The two telescopic cathedral shafts DN 600 ensure optimal accessibility Maintenance and service work. We can handle larger systems Multi-container version individually up to one Realize a connection size of 50 PU.



RoOxy 6 PU

RoOxy complete systems and their advantages

- ✔ Wastewater-resistant system made of PE
- ✔ Pre-assembled ready to plug in
- ✔ External column as standard: ready to plug in with control, Air distributors and compressors
- ✔ No putrefactive processes and therefore fewer odors
- ✔ No electrically operated or rotating ones Components in wastewater
- ✔ Drainage class C as standard
- ✔ Drainage class D possible

The tanks of the RoBox series are for the RoOxy small waste water treatment plants

- ✔ Certified for stability and waterproofness
- ✔ Installation possible in drive-over areas
- ✔ Installation possible when groundwater levels are high Can be expanded as required by connecting
- ✔ Tank
- ✔ Telescopic dome

Code	Type	Volume	Lenght	Width	Height	Weight
		[L]	[mm]	[mm]	[mm]	[kg]
7200070500	RoOxy 4 PU	4000	2450	1350	1750-2050	300
7200070510	RoOxy 6 PU	5200	2450	1350	2000-2300	330
7200070520	RoOxy 8 PU	6000	2450	1350	2520-2720	365

Delivery

- ✔ EcoBox tank with 2 telescopic dome shafts DN 600 (accessible)
- ✔ Pre-assembled SBR technology RoOxy
- ✔ PE outdoor column, ready to plug in, with control, air distributor with solenoid valve for the Sludge return and compressor

Important:

The air supply lines are not included in the scope of delivery. 4 DN 13 hoses are required.

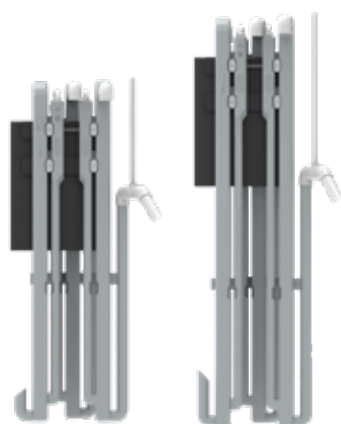
RoKit

SBR, MBBR, fully aerated



**External cabinet P5
made of PE**

Preassembled with
Control, compressor and
Solenoid valves



Pre-installed technology set

Code: Type 1: 7200110000
Code: Type 2: 7200110010
rotated lifters
Integrated holder



Difuzor



Sampling shaft

Code: 7200130000
Analog DWA-A 221
Integrated holder



Air supply lines

Code: 1210204
20 m, DN 16, 4 colors



Compressor

EcoBlue

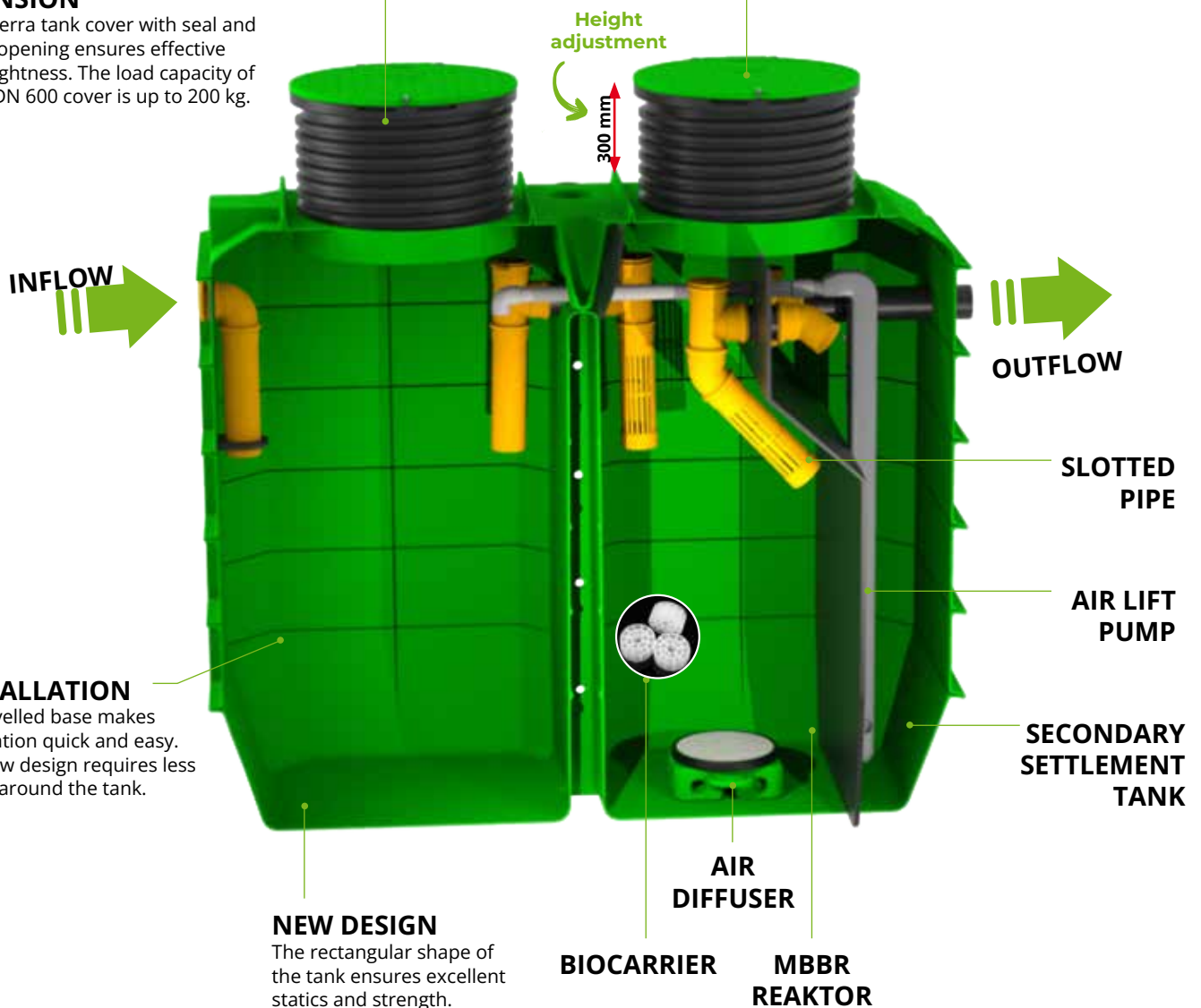
MBBR waste water treatment plant

COVER DN 600 WITH TELESCOPIC EXTENSION

The Roterra tank cover with seal and hinged opening ensures effective water tightness. The load capacity of the PE DN 600 cover is up to 200 kg.

DN 600 HINGED COVER

The height of the extension can be adjusted to the terrain.



INSTALLATION

The levelled base makes installation quick and easy. The new design requires less gravel around the tank.

NEW DESIGN

The rectangular shape of the tank ensures excellent statics and strength.

Product	Volume [L]	Max day inflow	Code	Dimensions A x B x C [mm]	Cover [mm]
4 PU EcoBlue	4.000 L	0,9 m ³	7200079810	2330 x 1175 x 1950-2280	Ø600
8 PU EcoBlue	6.000 L	1,5 m ³	7200079770	2450 x 1350 x 2520-2720	2x Ø600

MBBR TECHNOLOGY

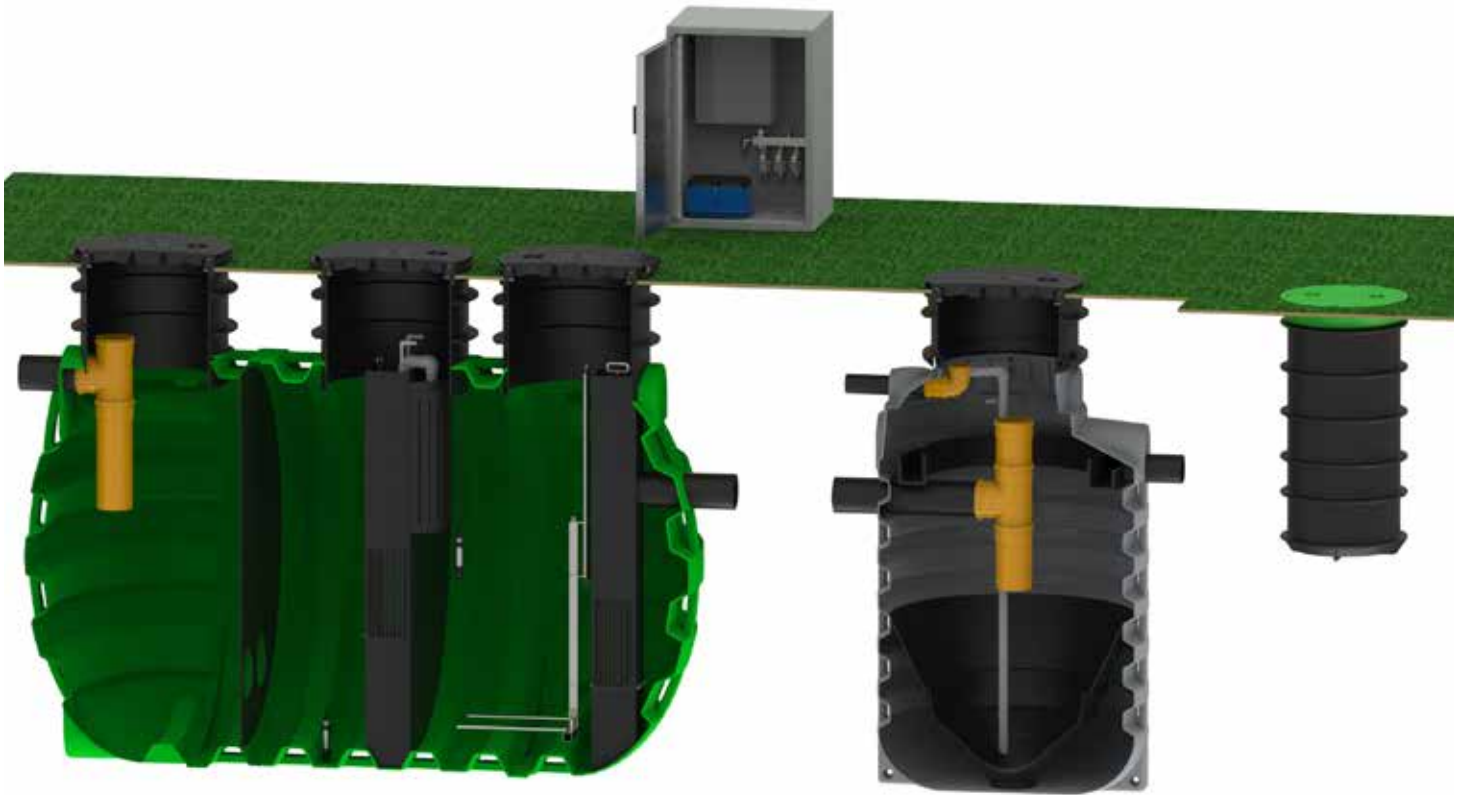
Black and grey water (waste water) is collected in sedimentation chamber, where it settles. Volume of this chamber is bigger than in conventional SBR systems. After certain time in sedimentation chamber, waste water flows in to aeration chamber with biofilm carriers.

In second chamber two diffusers are installed for aeration. They are connected with compressor and steering unit, which regulates air supply in intervals. Pressure gauge detects defects in system (clogging). Biofilm carriers offers habitat for bacteria to live and reproduce, which results in better efficiency of cleaning and longer live span of bacteria.

Subsequent sedimentation is more efficient due to conical sedimentation tank in third chamber. Clean water flows out at top of third chamber through outlet pipe and sediment is returned to first chamber (pre-cleaning) by steering unit and compressor.

MBBR waste water treatment plant

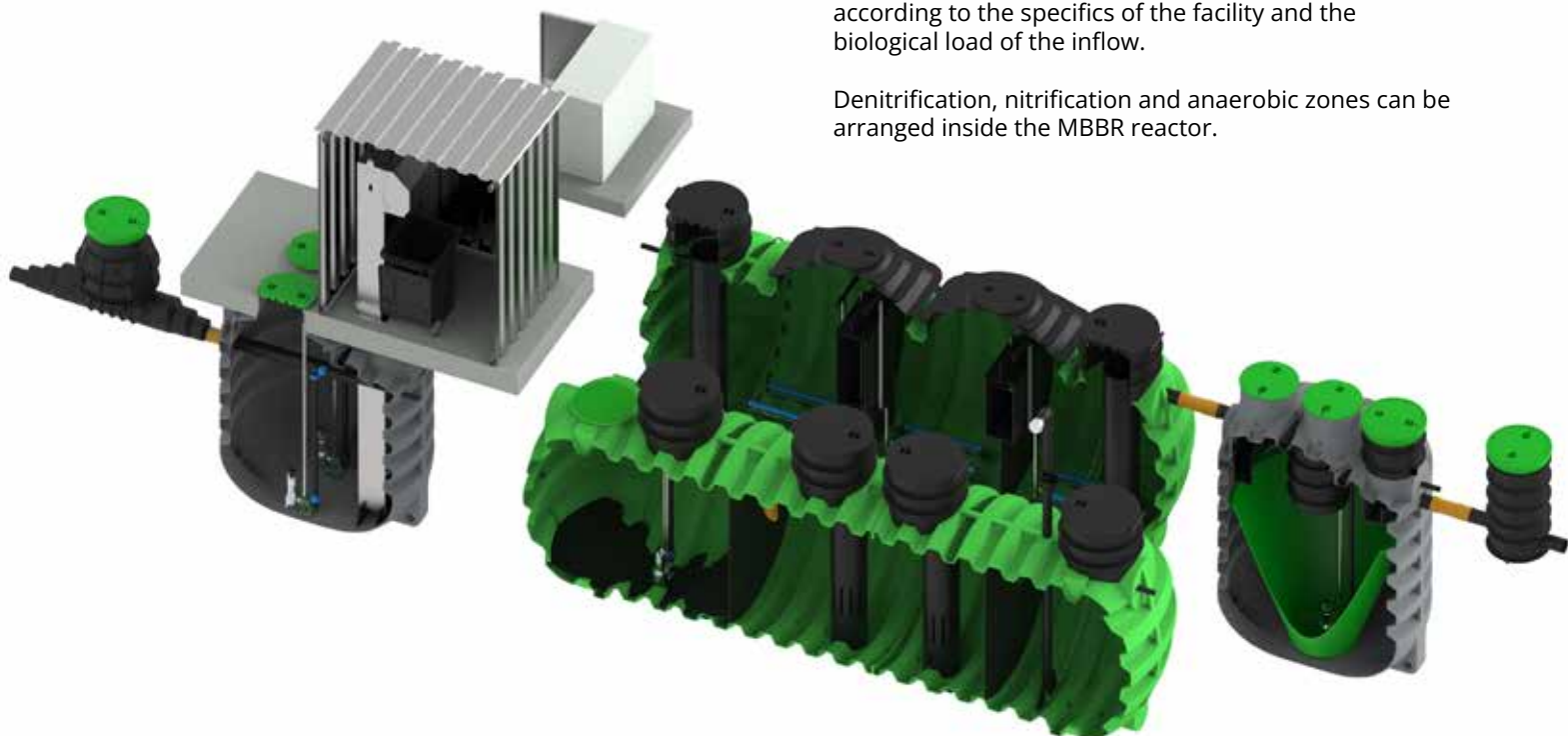
15 - 400 PE



We produce treatment plants with MBBR technology for larger facilities up to a capacity of 2000 PE.

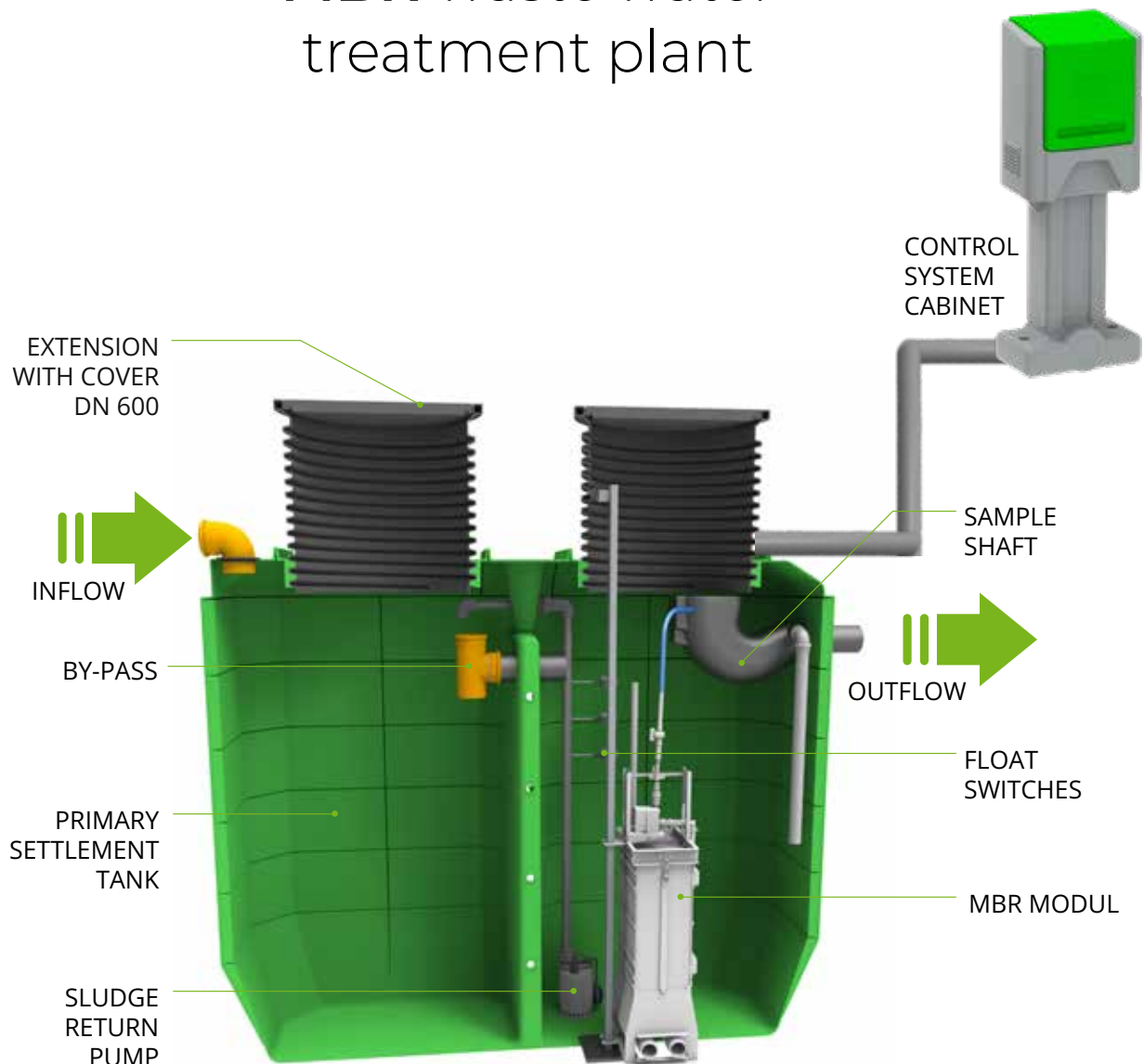
Operation and technological design are adjusted according to the specifics of the facility and the biological load of the inflow.

Denitrification, nitrification and anaerobic zones can be arranged inside the MBBR reactor.



RoMem

MBR waste water treatment plant



MBR TECHNOLOGY:

A membrane bioreactor (MBR) is a waste water treatment process that combines membrane filtration and biological treatment. This innovative technology offers a number of advantages over the conventional sludge activation process, such as higher biomass concentration and elimination of the need for additional treatment.

RoMem purifies waste water into clean, high-quality water that can be discharged into nature, or used for irrigation and some sanitation purposes.

The MBR module consists of polypropylene panels with a polymer membrane on each side and a frame. The membranes are installed in a RoBox polyethylene tank. In addition to filtration, aeration takes place in the tank. The membranes are cleaned once or twice a year.

The elevated biomass concentration in the MBR process allows for very efficient removal of both soluble and insoluble particles of biodegradable materials at high loading rates. Extended retention times ensure that the waste water is fully nitrified even in very cold weather.

MBR waste water treatment plant

In wastewater treatment with MBR technology, the biological treatment process is combined with a filtration unit (membrane filter). The membrane filter consists of a large number of membranes through which water is separated from biomass.

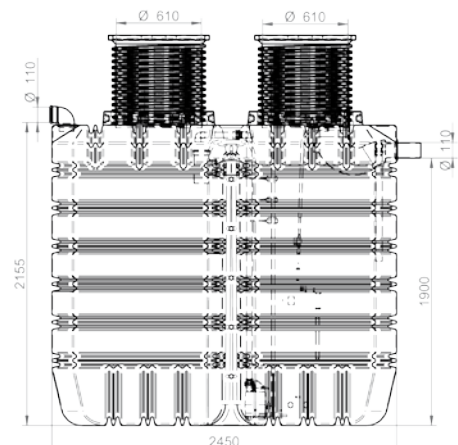
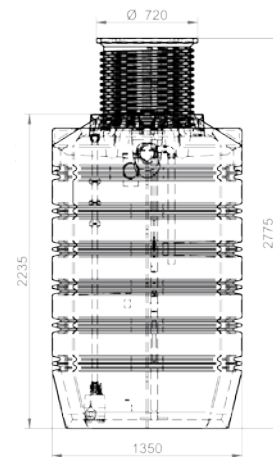
With MBR technology we achieve better quality of purified water at the outlet.

ADVANTAGES

- higher degree of purification
- possibility to reuse purified water (for watering, rinsing, etc....)
- possibility of industrial water treatment
- minimized unpleasant odor
- it also works reliably in intermittent inflows



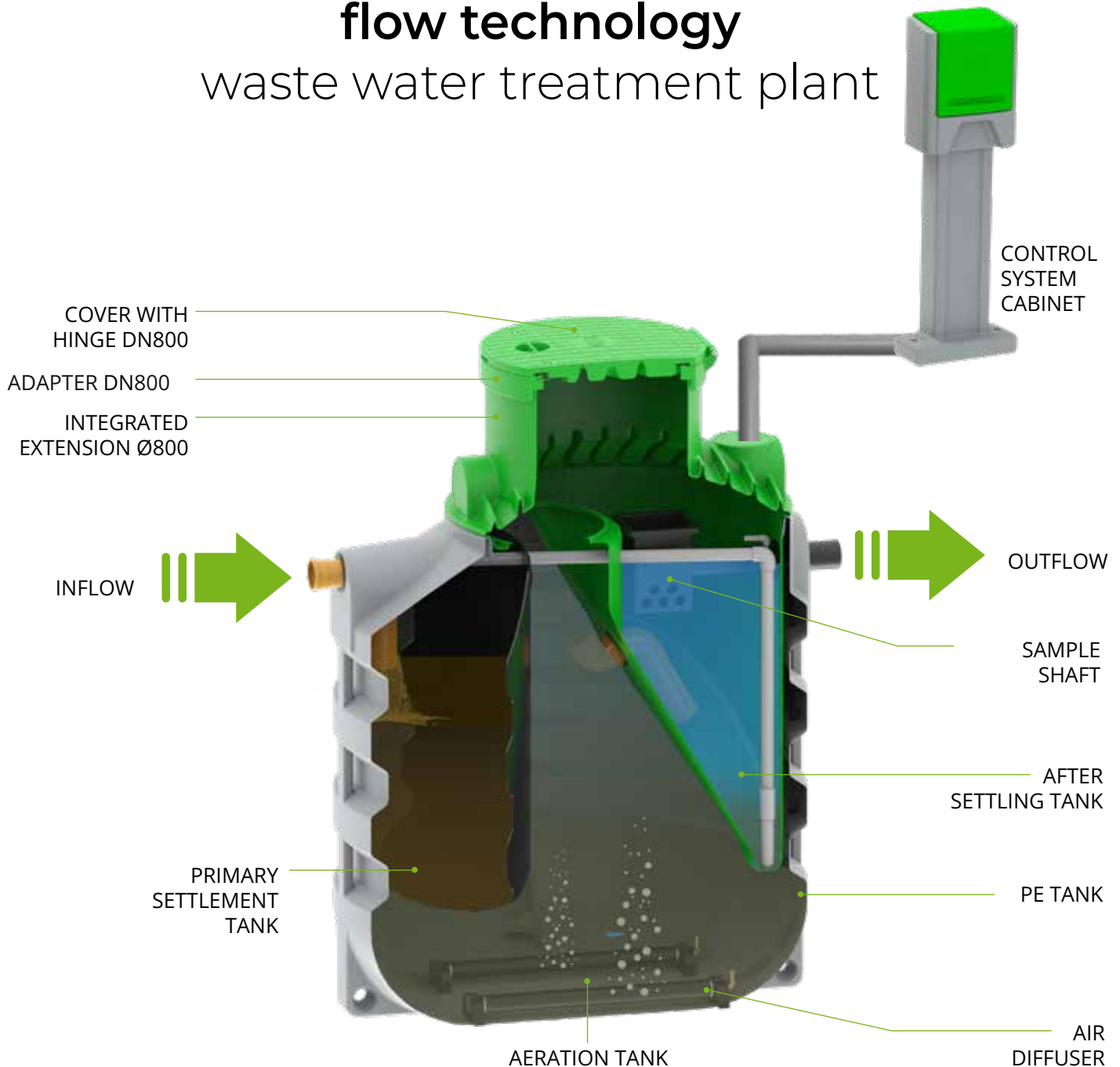
PU	4	6
Code	7200088800	7200088810
Max. day inflow [l/dan]	600	900
Volume [L]	4000	6000
Dimension A x B [mm]	2330 x 1175 x 2440	2450 x 1350 x 2775
Diameter of inspection opening	DN600	DN600
Diameter of inflow/outflow pipe	DN110	DN110
Airflow volume (compressor) [l/min]	120	120
Power consumption (compressor) [W]	130	130
Sound level [dB]	48	48
Control system cabinet	P5	P5
Control unit	MS	MS
Sample shaft	5 L	5 L



RoEco

flow technology

waste water treatment plant



FLOW TECHNOLOGY

The RoEco biological treatment plant purifies water in 3 steps:

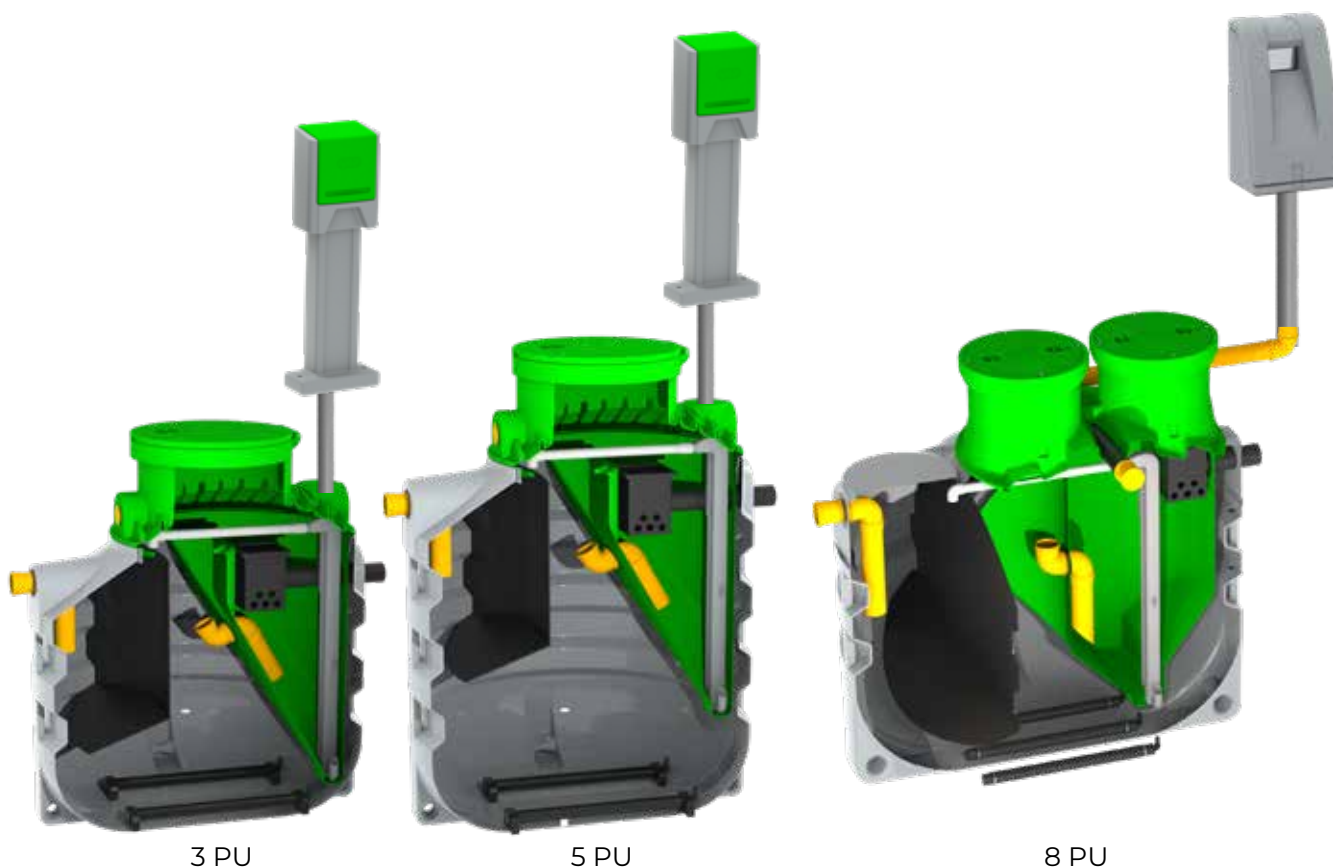
1 PRIMARY settler - water from the household flows into the primary settler in which floating non-degradable particles are retained

2 AERATION - water flows into the aeration chamber through an opening in the bottom of the primary settler. At the bottom of the treatment plant, pipe diffusers are installed through which we supply air, which enables the biological cleaning process.

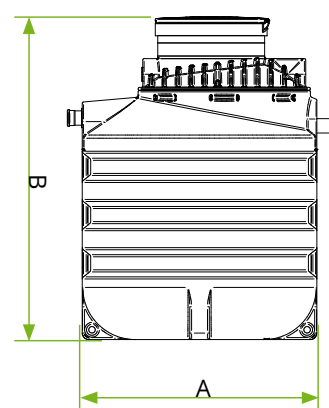
3 CLEANER - over the overflow elbow, water flows from the aerator to the clarifier, where sedimentation follows. With the help of an air pump, the sediments are pumped back into the primary settler.

Using flow technology, wastewater is treated in accordance with legal limit values. All components of the treatment plant are made in Slovenia from high quality materials.

waste water treatment plant



PU	3	5	8
Code	7200668100	7200663800	7200663810
Max. day inflow [l/dan]	450	700	1200
Volume [L]	3200	4000	6000
Dimension A x B [mm]	Ø1800 x 2000	Ø1800 x 2350	Ø2300 x 2300
Diameter of inspection opening	1x DN800	1x DN800	2x DN600
Diameter of inflow/outflow pipe	DN 110	DN 110	DN 125
Airflow volume (compressor) [l/min]	80	80	150
Power consumption (compressor) [W]	58	58	170
Sound level [dB]	36	36	46
Control system cabinet	P4	P4	P6 upper part
Control unit	RoControl RE	RoControl RE	RoControl RE
Sample shaft	20 L	20 L	20 L



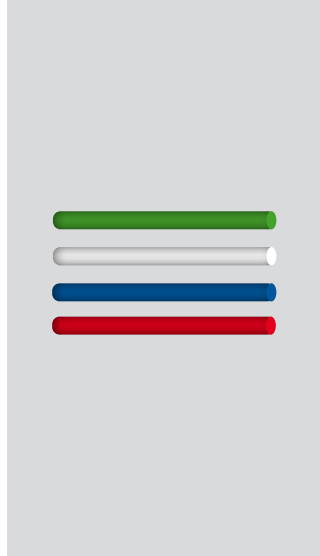
spare parts

We provide the user and the maintenance service with a fast delivery of all spare parts and technical assistance in maintenance. Spare parts and maintenance equipment can be ordered through the roto online store www.shop-roto.si



AIR BLOWERS

AL 80 [code: 7111056]
 AL 120 [code: 7111049]
 AL 150 [code: 7111030]
 AL 250 [code: 7111036]
 AL 300 [code: 7111032]



AIR PIPES

pipe DN13x20
 [code: 1210204]
 ...
 Recommended for:
RoClean

pipe DN19x26 [code:
 1210330]
 ...
 Recommended for:
Roeco



DIFUZOR

Plate difuzor
 [code: 1210297]
 1x pipe difuzor with weight
 [code: 7200140000]
 2x pipe difuzor with weight
 [code: 7200140010]
 4x pipe difuzor with weight
 [code: 7200140020]
 ...
 Recommended for:
RoClean
EcoBox



SAMPLE SHAFT 16 L

[code: 7200088140]
 280 x 280 x 380 mm



SAMPLE SHAFT 5 L

[code: 7200088160]
 1000 x 225 x 350 mm



SAMPLE SHAFT 56 L

[code: 7600066350]
 400 x 1500 mm



LADLE FOR SAMPLE

[code: 7200888140]



MEASURECYLINDER

[code: 7208001206]

cabinets for control system unit



P4

[code: 7200088310]
455 x 235 x 1350 mm

...
Recommended for
Roeco 3-5PE



P4.5

[code: 7200088890]
402 x 300 x 1280 mm

...
Recommended for
RoClean 4-8PE
EcoBox 4 - 6PE



P5

[code: 7200088670]
350 x 450 x 1350 mm

...
Recommended for
EcoBox 2 - 9PE
EcoBox WEB 2 - 9PE
RoMem 4-6PE
RoClean 20-40PE
RoClean WEB 4-40PE
RoOxy



P6

Upper part:
[code: 7200088020]
[code: 7200088040]
450 x 355 x 800 mm

Lower part:
[code: 7200088030]
470 x 420 x 830 (1630) mm

...
Recommended for
RoEco 8PE
RoClean 4-16PE



B8

[code: 7102150940]
1380 x 640 x 835 mm

...
Recommended for
RoClean 50-300 PE
RoClean WEB 50-300 PE
RoGreen 100-300 PE

B13

[code: 7102150950]
1380 x 640 x 1140 mm

...
Recommended for:
RoGreen 400-500 PE

EkoFloat

Industrial water treatment systems

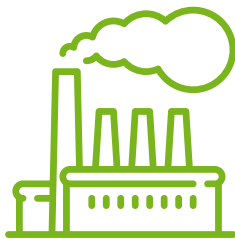
EkoFloat industrial water systems operate on the principle of dissolved air flotation system (DAF), which is designed to remove common suspended solids, fats, oils and greases.



Advantages

- the possibility of renting a pilot device
- own development center
- technologically advanced design
- package solutions
- many years of experience in the field of sewage treatment plants

Fields of application



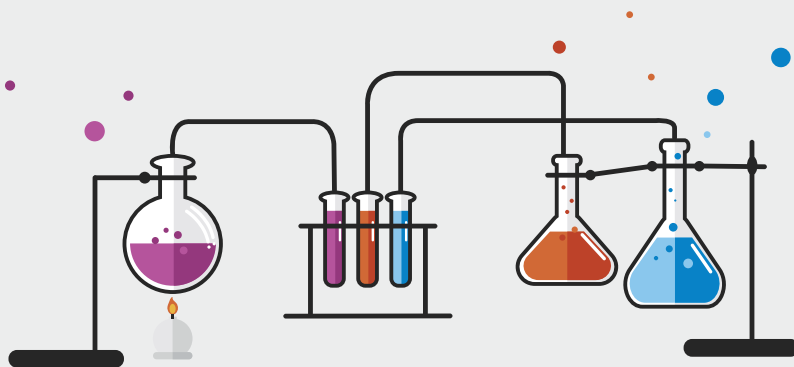
Industry

- Slaughterhouses
- Dairies
- Breweries
- Distilleries
- Fish processing
- Bakeries
- Food processing
- Refineries
- Industrial chemical cleaning
- Textile industry
- Paper industry
- Plastics industry



Communal waters

- Primary treatment before biological
- Sludge cleaning
- Thickening of sludge
- Tertiary treatment
- Surface water treatment
- Gray water treatment (hotels)
- Drinking water



PILOT INSTALLATIONS

We also offer the possibility to rent pilot systems for industrial water. You can pre-test the pilot plants and check the performance of the systems for your business.



INDUSTRIAL TREATMENT PLANTS



EkoFloat-R

industrial water systems

Optimized DAF Clarifier

The EkoFloat-R advanced flotation clarifier is a cost effective, continuously operating clarifier for liquids solids separation. The Unit is prefabricated into transportable sections and minimizes installation and maintenance costs. All wetted parts are in stainless steel or chemical resistant materials.

EkoFloat-R is available in 19 sizes from 16 to 2700 m³/h. The open tank has an approximate depth of around 400mm. Water is processed from inlet to outlet in two minutes.



Type	Max. flow (m ³ /h)*	Tank ø (mm)	Tank H (mm)	Weight full of water (tons)
R 18.5	16	1850	755	2,2
R 25	34	2500	850	4,4
R 32	61	3200	850	6,9
R 39	92	3900	900	9,9
R 45	123	4500	950	12,7
R 55	185	5500	950	19,1
R 61	228	6100	950	23,3
R 67	275	6700	950	27,7
R 72	319	7200	950	33
R 81	405	8100	950	40,9
R 90	513	9000	950	49,1
R 100	632	10000	950	63
R 110	765	11000	950	75,4
R 122	942	12200	950	91,2
R 134	1135	13400	950	109
R 148	1387	14800	950	135
R 167	1785	16700	1050	185
R 189	2160	18900	1050	245
R 213	2700	21300	1050	300

*The maximal flow includes recycle flow and is dependent on suspended solids loading and application.



EkoFloat-H

industrial water systems

Optimized Horizontal DAF Clarifier

The EkoFloat-H is a re-designed state of the art high rate dissolved air flotation (DAF) clarifier which, in a break from traditional clarifier, use "U-Shaped-Separators" and provide maximum flowrate per surface area of footprint. The Unit is prefabricated into transportable sections and minimizes installation and maintenance costs. All wetted parts are in stainless steel or chemical resistant materials.



Type	Max. flow (m ³ /h)*	A (mm)	B (mm)	C (mm)	Weight full of water (tons)
H 25	25	2000	2800	1500	2,5
H 50	50	2800	2800	1500	4,5
H 75	75	2900	2800	2000	8
H 100	100	3000	2800	2500	11
H 150	150	3600	2800	2500	14
H 200	200	4600	2800	2500	18
H 250	250	5200	3000	2500	22
H 312	312	6600	3000	2500	28
H 375	375	7600	3000	2500	35
H 500	500	9600	3000	2500	44
H 625	625	9800	3000	2500	52
H 625 - 2	625	9300	3300	4600	55
H 750	750	10400	3400	3300	66
H 750 - 2	750	9100	3300	4600	67
H 1000 - 2	1000	11100	3800	4600	116
H 1250 - 2	1250	12700	3800	5000	165

*The maximal flow includes recycle flow and is dependent on suspended solids loading and application.



references



references



Roseptic

septic tank



• Inlet pipe size DN110 till DN160

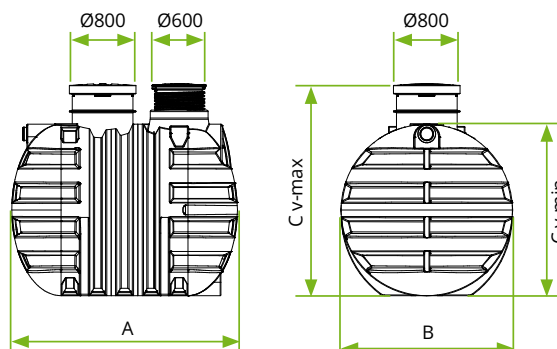
Types:

- two-chamber
- three-chamber

Septic tanks are built as an impermeable collector for municipal wastewater, from which municipal wastewater is taken for treatment or treatment at a municipal wastewater treatment plant. Exceptionally, municipal wastewater may be collected in a non-flowing septic tank only in areas where the treatment of municipal wastewater in the WWTP is not technically feasible due to special circumstances such as special geographical conditions or sparsely populated buildings.



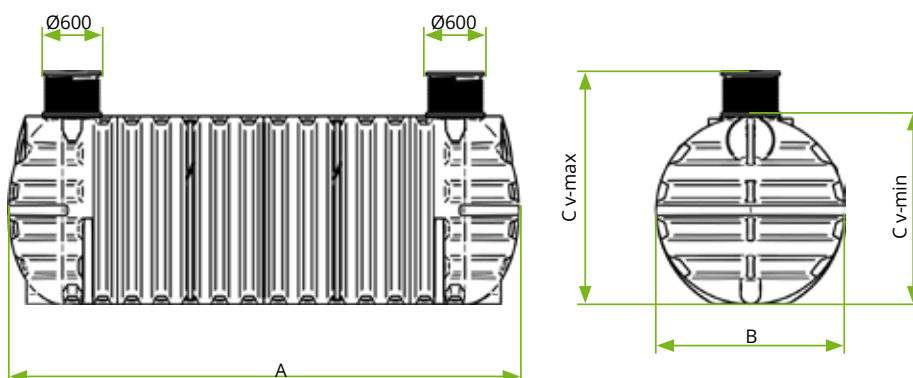
Volume [L]	2-chamber (code)	3-chamber (code)	A [mm]	B [mm]	C (v-min) [mm]	C (v-max) [mm]	D (H inflow) [mm]	DN (inflow/inflow pipe) [mm]
1.000	7500063610	-	1580	1060	1000	1380	850	110
2.200	7500067610	-	1840	1400	1600	2100	1250	110
2.600	7500067380	-	2150	1400	1600	2100	1250	110
3.000	7500063600	-	2400	1400	1600	2100	1250	110
3.500	7500063300	-	2080	1800	2050	2550	1600	110
5.000	7500062390	7500063620	2450	1800	2050	2550	1600	110
6.000	7500063280	7500063290	2820	1800	2050	2550	1600	110
8.000	7500062550	7500062560	2680	2300	2350	2850	2100	160
10.000	7500069031	7500069032	3040	2300	2350	2850	2100	160
12.000	7500062510	7500062530	3760	2300	2350	2850	2100	160
16.000	7500066190	7500066200	4840	2300	2350	2850	2100	160



Roseptic septic tank



Volume [L]	2-chamber (code)	3-chamber (code)	A [mm]	B [mm]	C (v-min) [mm]	C (v-max) [mm]	D (H inflow) [mm]	DN (inflow/inflow pipe) [mm]
20.000	7500062590	7500062690	4540	2300	2350	2850	2050	160
25.000	7500067620	7500067640	5720	2300	2350	2850	2050	160
30.000	7500065000	7500065001	6550	2425	2700	3000	2400	160
35.000	7500065010	7500065011	7530	2425	2700	3000	2400	160
40.000	7500065020	7500065021	8510	2425	2700	3000	2400	160
45.000	7500065030	7500065031	9870	2425	2700	3000	2400	160
50.000	7500065040	7500065041	10850	2425	2700	3000	2400	160
55.000	7500065050	7500065051	11500	2425	2700	3000	2400	160
60.000	7500065060	7500065061	12480	2425	2700	3000	2400	160
65.000	7500065070	7500065071	13460	2425	2700	3000	2400	160



GREASE SEPARATORS, TRAPS

RoFett



NG 1 - NG 25

Underground, horizontal
grease separator

RoGra



NG 1 - NG 4

Underground, vertical
grease trap

RoGre



NG 2 - NG 20

RoGre grease separators
are vertical in shape
and are therefore
suitable for installation
under road surfaces

RoMast



NG 0,25

Compact under-sink
grease trap designed
for kitchen installation

RoMast



NG 0,25 - NG 4

RoMast are free-
standing grease traps
that can be installed
in an existing building
(basement, pantry)

EcoFamily



4 - 8 PU

Above or underground
ground grease
interceptor

SelfClean



NG 1 - NG 25

Automatic grease
interceptor

RoFett grease separators are
certified for cleaning efficiency:
P 2700-24/111149-24



Grease separators

In businesses which produce wastewater containing fat or grease, grease separators must be installed in accordance with EN 1825 and DIN 4040-100 in order to prevent damage to sewer pipes and wastewater treatment facilities. They reduce incidents of blocked drains from kitchen, improve the performance of septic tanks, prevent contamination of small sewage treatment plants.

Installation

The grease separator should be installed close to the source of contamination, inside or outside the building.

Underground grease separator should be located close to the building in areas where release of strong and aggressive odors will not pose a problem and where is possible to access the separator with the disposal hose of the disposal truck.

The inlet level must be located below the frost level. The grease separator has to be opened for emptying and cleaning.

Material

ROTO grease separators are made from environmentally friendly material (PE). They are very durable, lightweight and resistant against various chemical substances used in kitchen.

Advantages

- produced in EU
- in accordance with standard BS EN 1825-1
- made from durable, hard polyethylene (LLDPE)
- has a long lifetime
- 100% recyclable after use
- waterproof
- quick and easy installation (light weight, no need for a crane)
- easy maintenance
- low operating costs



Determine **the size**

$$NG = Q_s * f_d * f_t * f_r * f_m$$

Q_s - the amount of waste water in l/s

f_d - density of grease (if it is greater or lesser than 0.94 g/cm³)

f_t - temperature factor (if higher than 50 °C, is increased)

f_r - detergents factor

f_m - increased grease factor

COVER

WITH HINGE

The cover with gasket and hinged opening ensures effective water tightness.

INFLOW

TELESCOPIC EXTENSION

The telescopic extension is shaped like a screw. This mode allows quick and easy adjustment of the height when digging. The dimensions of the extension are Ø600 x 400 mm.

OUTFLOW

MUD

COLLECTOR

In a sludge settling tank, the flow of the wastewater is moderated, so the heavier particles settle to the bottom.

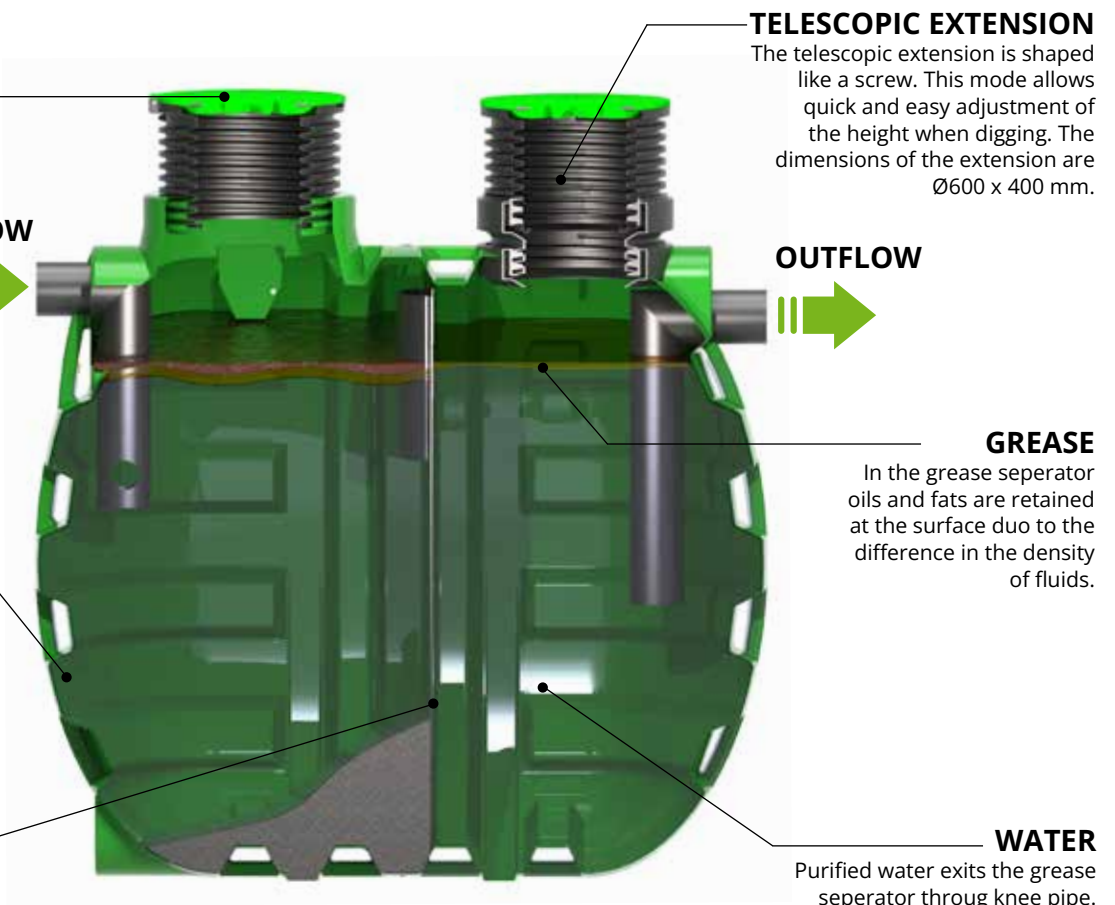
GREASE

In the grease separator oils and fats are retained at the surface due to the difference in the density of fluids.

DIVIDING WALL

WATER

Purified water exits the grease separator through knee pipe.



Rogra

grease separators

VERTICAL SHAPE

Vertical shape of the grease separator Rogre allows easy handling of the tank on site and easy installation.

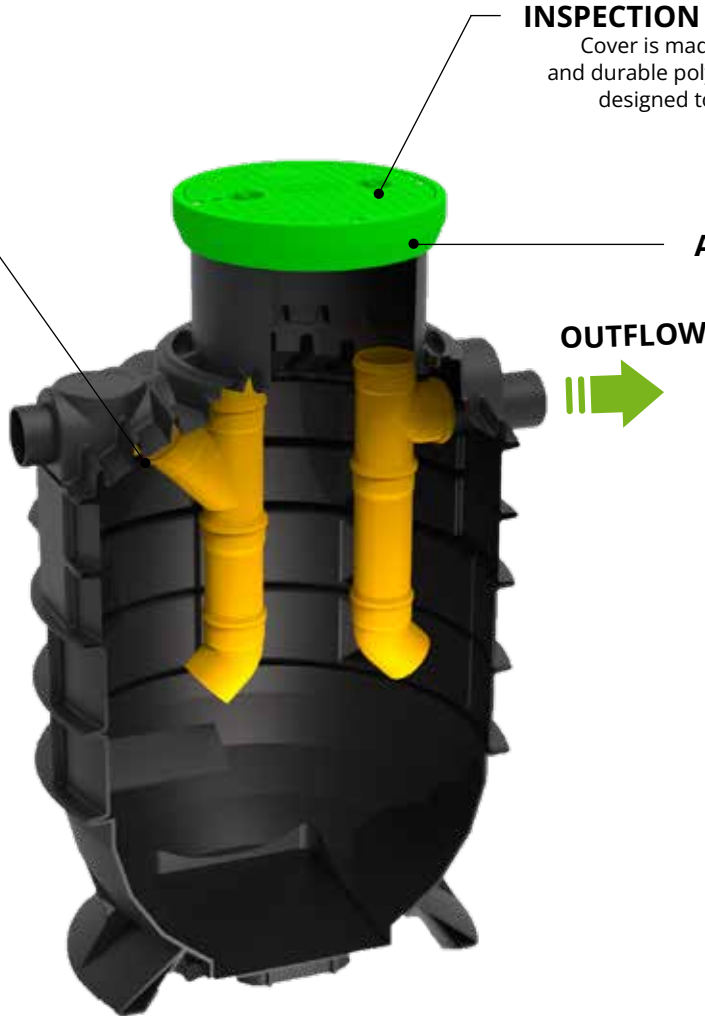
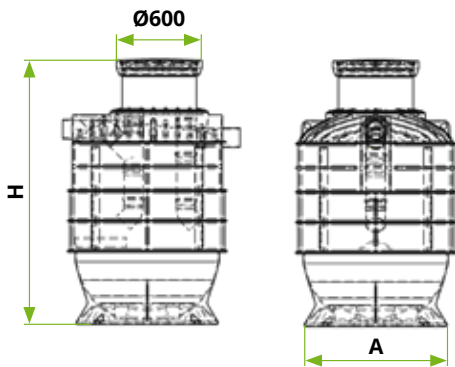
INSPECTION OPENING

Cover is made from strong and durable polyethylene and designed to be a tight fit.

ADAPTER

INFLOW

OUTFLOW



Volume [L]	NG [L/s]	Code	Dimensions A x B x C [mm]	Pipe DN [mm]	Inspection opening [mm]
800	1	7400075400	Ø1000 x 1650	110	Ø620
1.000	2	7400075410	Ø1000 x 1900	110	Ø620
1.600	4	7400075420	Ø1200 x 2200	125 / 160	Ø620

COVER WITH HINGE

Covers for grease separators come with hinged covers, that have seals installed, which make them easy to open and ensure air tight seal.

TELESCOPIC EXTENSION

Telescopic extension for RoFett in shaped as a screw. this shapes makes it possible to adjust the height of the tank easily on the site of installation. Dimensions of the extension are $\text{Ø}600 \times 400 \text{ mm}$.

INFLOW

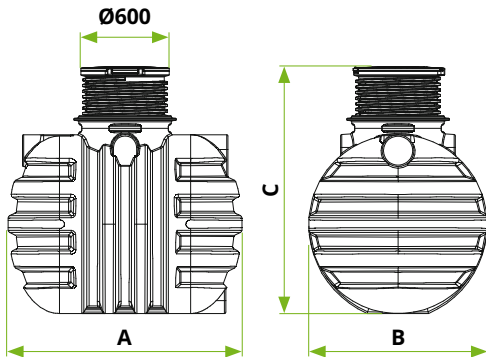


OUTFLOW

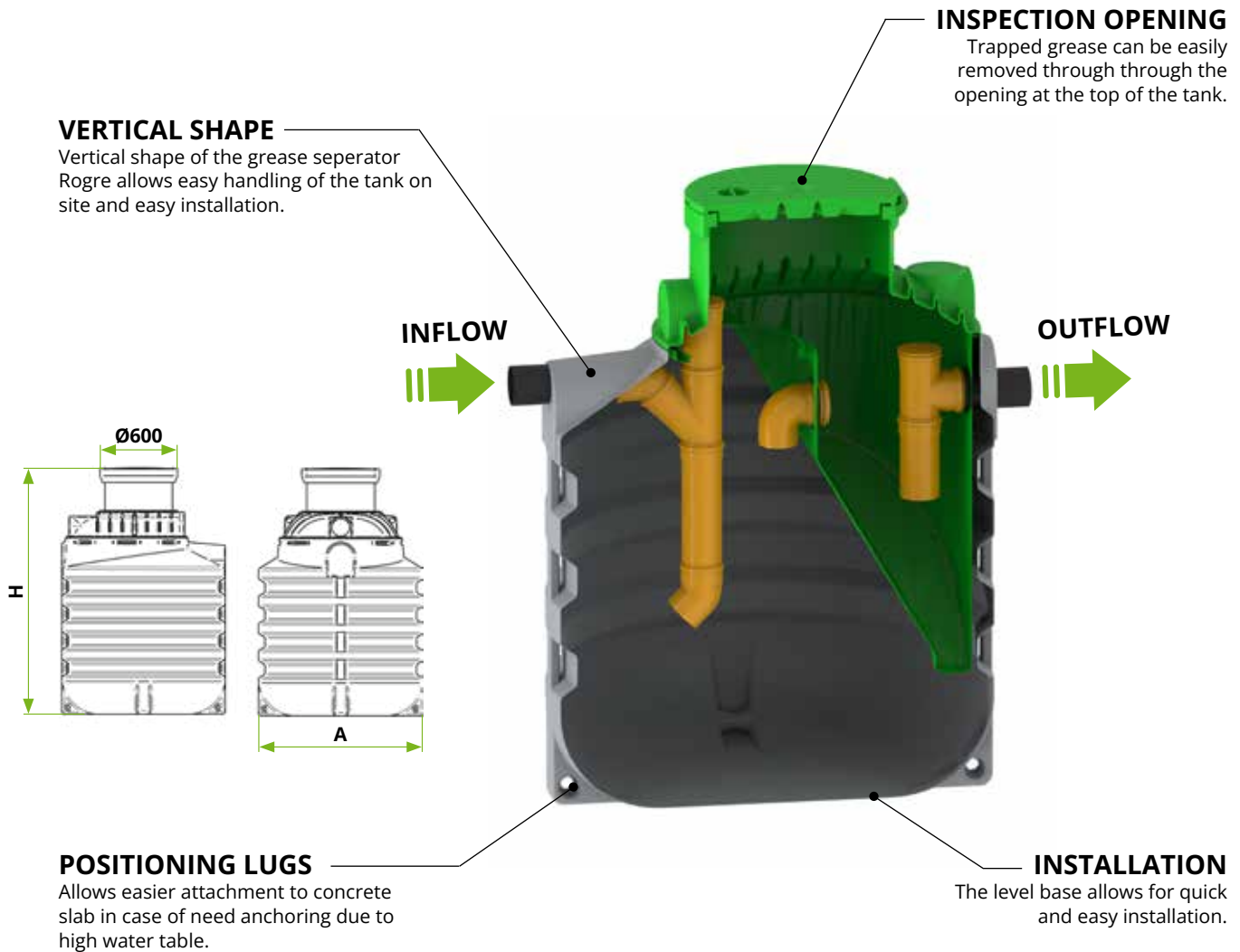


REINFORCING RIBS

Reinforcing ribs on both sides provide stability of the tank and protection in the event of high water table.



Volume [L]	NG [L/s]	Code	Dimensions A x B x C [mm]	Pipe DN [mm]	Inspection opening [mm]
500	1	7400075310	1120 x 860 x 1230	110	Ø390
1.000	2	7400075370	1580 x 1060 x 1370	110	Ø390
2.000	4	7400075320	1840 x 1400 x 1930	110	Ø600
3.500	7	7400075330	2080 x 1800 x 2380	160	Ø600
5.000	10	7400075360	2450 x 1800 x 2380	160	Ø600
6.000	15	7400075340	2820 x 1800 x 2390	200	Ø600
8.000	20	7400075390	2680 x 2320 x 2870	200	Ø600
12.000	25	7400777970	3760 x 2320 x 2850	200	Ø600



Volume [L]	NG [L/s]	Code	Dimensions A x B x C [mm]	Pipe DN [mm]	Inspection opening [mm]
1.000	2	7400775310	Ø1300 x 1850	110	Ø800
2.000	4	7400775320	Ø1500 x 2000	110	Ø600
3.200	7	7400775330	Ø1800 x 2100	160	Ø800
4.000	10	7400775340	Ø1800 x 2450	160	Ø800
6.000	15	7400777960	Ø2300 x 2350	200	2x Ø600
7.500	20	7400775360	Ø2300 x 2700	200	2x Ø600

INSPECTION OPENING

Captured fat can be easily removed through the opening at the top of the tank.

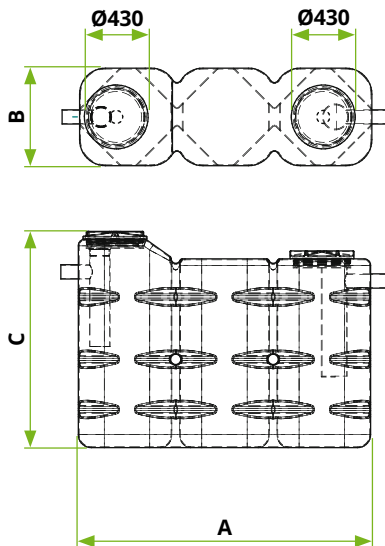
DIMENSIONS

Due to the smaller dimensions and rectangular shape, Romast grease separators can be easily installed in existing buildings.

INFLOW

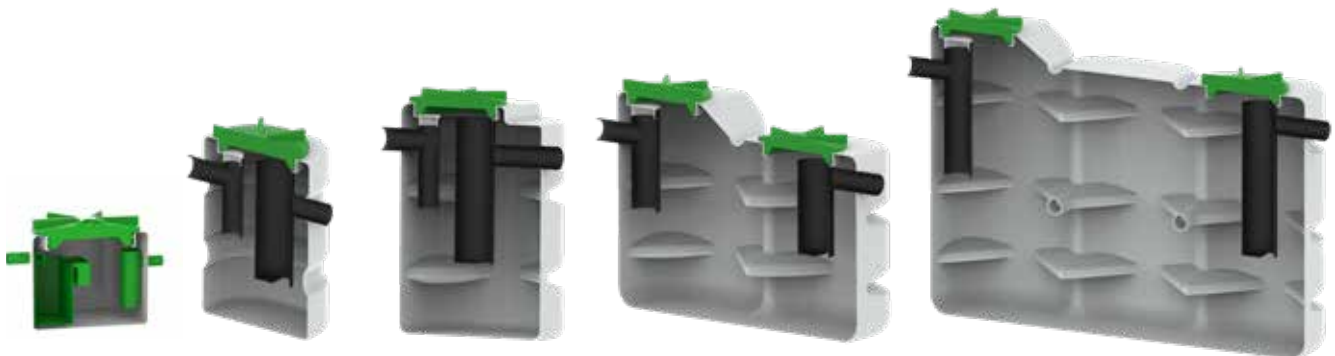


OUTFLOW



INSTALLATION

The level base allows for fast and easy installation.



Volume [L]	NG [L/s]	Code	Dimensions A x B x C [mm]	Pipe DN [mm]	Inspection opening [mm]
100	0,25	7400778100	530 x 530 x 481	50	Ø430
250	0,5	7400777880	600 x 600 x 951	110	Ø430
500	1	7400777940	760 x 760 x 1161	110	Ø430
1.000	2	7400778580	1520 x 760 x 1161	110	2x Ø430
2.000	4	7400075290	2250 x 750 x 1161	110	2x Ø430

SelfClean

full automatic grease separator

1. Automatic filling inlet
2. Discharge
3. Fluximeter
4. 3-way valve
5. Shredder pump
6. Suction
7. Inject block
8. Grease level sensor
9. Sprinkler
10. Automatic filling valve
11. Inspection
12. Sprinkler valve



Components Options

- Tank PE black color
- Clean water filling valve
- Water filling hose with space
- Control panel with BMS output
- Three-way valve
- Washing sprinkler
- Shredder and feeding pump
- Management software



Material: HDPE with uPVC, HDPE or PP inlet & outlet pipe section

Size: 2-15 L/sec.

Capacity: 1,500 - 10,000 L

Compliance with standard: CE - UNI EN 1825

One-piece polyethylene Automatic Grease Interceptor, with screw-on cover both for central inspection and removing grease and floating material, and for removing sand and inert matter.

Cleaning frequency: 4 weeks.

Featuring PVC, PE or PP inlet pipe section; PVC, PE or PP treated water outlet pipe section with external neoprene seal, outlet tee fitting and inspection cap.

Fully automated odor-free disposal, cleaning and refilling. For application on kitchen and canteen drain lines.

Item	Code	Size [l/sec]	Capacity [l]	Weight [kg]	D [cm]	H [cm]	H ₁ [cm]	H ₀ [cm]	Ø1 e Ø0 [mm]
SELF CLEAN 1.500	NS	2	1.500	110	120	140	115	108	110
SELF CLEAN 2.000	NS	3	2.000	130	120	195	173	166	125
SELF CLEAN 3.000	NS	5	3.000	150	147	200	15	158	125
SELF CLEAN 4.000	NS	7	4.000	180	147	245	182	210	160
SELF CLEAN 6.000	NS	10	6.000	210	210	220	182	165	160
SELF CLEAN 10.000	NS	15	10.000	300	215	310	250	243	200

OIL SEPARATORS

RoSep



I class

A built-in coalescent filter attached to the chamber wall. The wall separates the sludge chamber and the mineral oil trap

RoSep



Bypass

At maximum rainfall, 10% of the flow is purified in the oil trap and 90% goes through bypass

RoSepdrive



I class

Oil separator designed for installation under trafficable surfaces

RoSepdrive



Bypass

Oil separator with bypass designed for installation under trafficable surfaces

RoSep petrol



Professionally and high-quality oil and light liquid separators, adapted for facilities such as petrol stations and fuel depots

RoOil Basic



I class

Vertical oil separator with a large maintenance access opening

RoOil Basic



Bypass

Vertical oil separator with an internal by-pass and a large maintenance access opening

RoOil



I class

Oil separator with large access chambers for sampling and cleaning oil and sludge

RoOil



Bypass

Vertical oil separator with an internal by-pass, coalescent filter, automatic closure



Garage oil separator

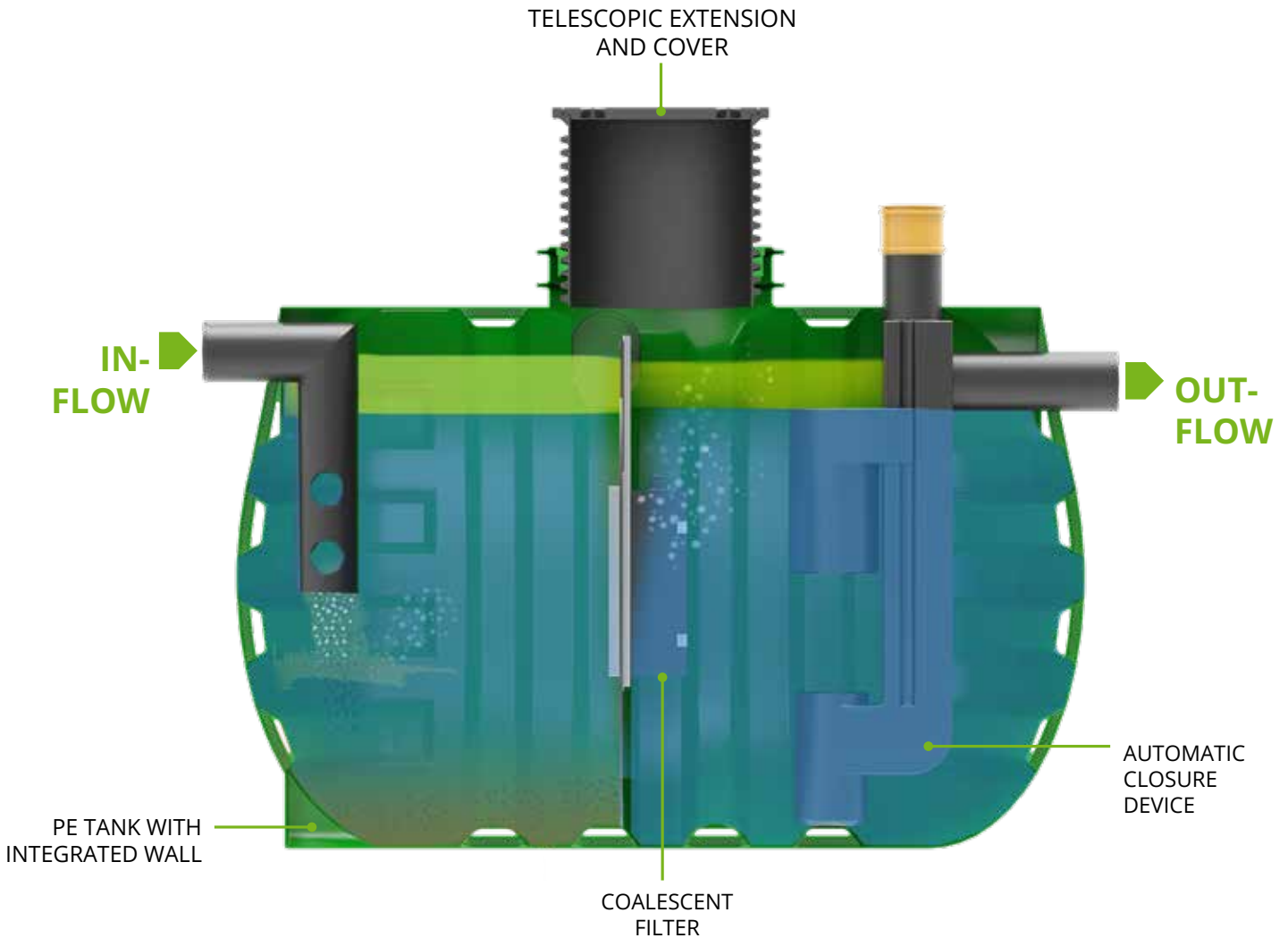
Underground, vertical grease trap

RoSep oil separators are certified for cleaning efficiency:
113-10/4433-10



Rosep

oil separators



Light liquid separators are designed according to EN 858 and DIN 1999-10.

Application

Oil and coalescence separators are required where light liquids occur. This is usually at

- Petrol / Gas stations,
- Car washes,
- Vehicle workshops
- Car-parks



Determinate **the size**

$$N_s = (Q_r + f_x * Q_s) * f_d$$

N_s - nominal volume in l/s

Q_r - max. flow of rainwater in l/s

Q_s - max. flow of wastewater in l/s

f_x - retention factor, depending on the nature of release (Table I)

f_d - density factor for the suitable light fluid (Table I)



Separator classes

class I

Designed to achieve a concentration of less than 5mg/l of oil under standard test conditions and should be used when the separator is required to remove very small oil droplets. A coalescence filter insert is installed before the drain to improve the separating effect in the separator. When the water flows through, tiny oil drops combine to form large drops which then leave the coalescence material. With oil separators a special inlet system has a plug-flow effect in the separator. This slows the flow down and distributes it in a hydraulically effective way over the separator space. The heavy materials sink to the bottom and are separated out, the light materials rise to the top and are separated off there.

class II

Designed to achieve a concentration of less than 100mg/l oil under standard test conditions and are suitable for dealing with discharges where a lower quality requirement applies.

Bypass

Bypass separators fully treat all flows generated by rainfall rates of up to 6.5mm/hr. (99% of all rainfall events). These separators are used on parking area when it is considered an acceptable risk not to provide full treatment for high flows, for example where the risk of a large spillage and heavy rainfall occurring at the same time is small.

The following cleaning steps are performed in the mud separator:

- 1) Water contaminated with oil and mud flows to the tank.
- 2) The mud is deposited at the bottom of the tank. When the water reaches the second part of the tank, the mud has already been removed.
- 3) Oil separates from water in the second part of the tank. Larger oil drops then come to the water surface because of the low density. Smaller drops combine and increase in the filter and then come to the surface.

Rosep

oil separators

class I

Oil separators with installed coalescent filter are classified to the Class I, and do not exceed the hydrocarbon concentration of 5 mg/l.

At repair garages, gasoline stations, car-washing facilities, where oily and flammable liquid wastes are produced, separators shall be installed into which all oil-bearing, shall be discharged before emptying in the building drainage system or other point of disposal.

ROTO oil separator is equipped with coalescent filter, automatic closure devices and/or electronic warning system.

Coalescent filters are connected on the integrated wall and can be easily cleaned and replaced.



Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]
2.200 L	3	120 m ²	7300075950	1840 x 1400 x 1600-1900	Ø600
3.000 L	6	240 m ²	7300075970	2400 x 1400 x 1600-1900	Ø600
3.500 L	10	400 m ²	7300072750	2080 x 1800 x 2050-2350	Ø600
5.000 L	15	600 m ²	7300075990	2450 x 1800 x 2050-2350	Ø600
6.000 L	20	800 m ²	7300075880	2820 x 1800 x 2050-2350	Ø600
8.000 L	30	1.200 m ²	7300072730	2680 x 2300 x 2500-2880	1xØ600, 1xØ800
10.000 L	40	1.600 m ²	7300072780	3040 x 2300 x 2500-2880	1xØ600, 1xØ800
12.000 L	50	2.000 m ²	7300072760	3760 x 2300 x 2500-2880	1xØ600, 1xØ800
16.000 L	65	2.600 m ²	7300072000	4840 x 2300 x 2500-2880	1xØ600, 1xØ800
20.000 L	80	3.200 m ²	7300072890	4540 x 2450 x 2800-3100	1xØ600, 1xØ800
25.000 L	100	4.000 m ²	7300074210	5720 x 2450 x 2700-3000	2xØ600, 1xØ1000
30.000 L	125	5.080 m ²	7300072010	6550 x 2450 x 2700-3000	2xØ800, 1xØ1000
35.000 L	150	6.100 m ²	7300075920	7530 x 2450 x 2700-3000	2xØ800, 1xØ1000
40.000 L	200	8.100 m ²	7300075980	8510 x 2450 x 2700-3000	2xØ800, 1xØ1000
45.000 L	250	10.100 m ²	7300076000	9870 x 2450 x 2700-3000	2xØ800, 1xØ1000
50.000 L	300	12.100 m ²	7300072020	10850 x 2450 x 2700-3000	2xØ800, 1xØ1000

class II

RoSep class II are gravitation separators.

Are designed to achieve a concentration of less than 100mg/l oil under standard test conditions and are suitable for dealing with discharges where a lower quality requirement applies (for example where the effluent passes to the waste water treatment for municipality).

All materials used are highly durable and non-corrosive and all equipment used in the system is produced according to the highest quality standards.



Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]
2.200 L	3	120 m ²	7300075900	1840 x 1400 x 1600-1900	Ø600
3.000 L	6	240 m ²	7300075910	2400 x 1400 x 1600-1900	Ø600
3.500 L	10	400 m ²	7300072880	2080 x 1800 x 2050-2350	Ø600
5.000 L	15	600 m ²	7300075930	2450 x 1800 x 2050-2350	Ø600
6.000 L	20	800 m ²	7300072710	2820 x 1800 x 2050-2350	Ø600
8.000 L	30	1.200 m ²	7300072720	2680 x 2300 x 2500-2880	1xØ600, 1xØ400
10.000 L	40	1.600 m ²	7300072740	3040 x 2300 x 2500-2880	1xØ600, 1xØ400
12.000 L	50	2.000 m ²	7300072770	3760 x 2300 x 2500-2880	1xØ600, 1xØ400
16.000 L	65	2.600 m ²	7300072050	4840 x 2300 x 2500-2880	1xØ600, 1xØ400
20.000 L	80	3.200 m ²	7300072940	4540 x 2450 x 2800-3100	2xØ600
25.000 L	100	4.000 m ²	7300074220	5720 x 2450 x 2700-3000	2xØ600

Rosep

oil separators

By-pass 10%

Bypass separators fully treat all flows generated by rainfall rates of up to 6.5mm/hr. (99% of all rainfall events).

These separators are used on parking area when it is considered an acceptable risk not to provide full treatment for high flows, for example where the risk of a large spillage and heavy rainfall occurring at the same time is small.



Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]	Pipes DN [mm]
2.200 L	30/3	1.200 m ²	7300068900	1840 x 1400 x 1600-1900	Ø600	200
2.600 L	50/5	2.400 m ²	7300068910	2150 x 1400 x 1600-1900	Ø600	250
3.000 L	80/8	3.200 m ²	7300068980	2400 x 1400 x 1600-1900	Ø600	250
3.500 L	100/10	4.000 m ²	7300068920	2080 x 1800 x 2050-2350	Ø600	315
5.000 L	150/15	6.100 m ²	7300068930	2450 x 1800 x 2050-2350	Ø600	400
6.000 L	200/20	8.100 m ²	7300068940	2820 x 1800 x 2050-2350	Ø600	400
8.000 L	250/25	10.100 m ²	7300068610	2680 x 2300 x 2500-2880	Ø600, Ø800	400
10.000 L	300/30	12.100 m ²	7300068950	3040 x 2300 x 2500-2880	Ø600, Ø800	500
12.000 L	400/40	16.200 m ²	7300068960	3760 x 2300 x 2500-2880	Ø600, Ø800	500
16.000 L	500/50	20.300 m ²	7300068970	4840 x 2300 x 2500-2880	Ø600, Ø800, Ø250	600 z.
20.000 L	650/65	25.400 m ²	7300068560	4540 x 2450 x 2800-3100	2xØ800, Ø250	600 z.
25.000 L	800/80	28.500 m ²	7300068570	5720 x 2450 x 2700-3000	2xØ600, Ø1000	600 z.
30.000 L	1000/100	40.600 m ²	7300068580	6550 x 2450 x 2700-3000	Ø800, Ø1000, Ø250	800 z.
35.000 L	1250/125	50.800 m ²	7300068590	7530 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
40.000 L	1500/150	61.000 m ²	7300068600	8510 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	1000 z.
45.000 L	2000/200	81.300 m ²	7300068620	9870 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	1000 z.
50.000 L	2500/250	101.600 m ²	7300068630	10850 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.
65.000 L	3000/300	121.600 m ²		13460 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1200 z.

By-pass 20%

Bypass separators fully treat all flows generated by rainfall rates of up to 6.5mm/hr. (99% of all rainfall events).

These separators are used on parking area when it is considered an acceptable risk not to provide full treatment for high flows, for example where the risk of a large spillage and heavy rainfall occurring at the same time is small.



Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]	Pipes DN [mm]
2.200 L	15/3	600 m ²	7300068800	1840 x 1400 x 1600-1900	Ø600	200
3.000 L	30/6	1.200 m ²	7300068810	2400 x 1400 x 1600-1900	Ø600	200
3.500 L	50/10	2.000 m ²	7300068500	2080 x 1800 x 2050-2350	Ø600	250
5.000 L	80/16	3.000 m ²	7300068820	2450 x 1800 x 2050-2350	Ø600	315
6.000 L	100/20	4.000 m ²	7300068840	2820 x 1800 x 2050-2350	Ø600	315
8.000 L	150/30	6.100 m ²	7300068850	2680 x 2300 x 2500-2880	Ø600	400
10.000 L	200/40	8.100 m ²	7300068860	3040 x 2300 x 2500-2880	Ø600, Ø800	400
12.000 L	250/50	10.100 m ²	7300068870	3760 x 2300 x 2500-2880	Ø600, Ø800, Ø250	400
16.000 L	325/65	13.200 m ²	7300068830	4840 x 2300 x 2500-2880	Ø600, Ø800, Ø250	400
20.000 L	400/80	16.200 m ²	7300068880	4540 x 2450 x 2800-3100	2xØ800, Ø250	500
25.000 L	500/100	20.300 m ²	7300068890	5720 x 2450 x 2700-3000	2xØ600, Ø1000	600 z.
30.000 L	625/125	25.400 m ²	7300068510	6550 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	600 z.
35.000 L	700/150	28.500 m ²	7300068520	7530 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	600 z.
40.000 L	1000/200	40.600 m ²	7300068530	8510 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
45.000 L	1250/250	50.800 m ²	7300068540	9870 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
50.000 L	1500/300	61.000 m ²	7300068550	10850 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.
65.000 L	2000/400	81.300 m ²		13460 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.

RoSepdrive

oil separators

classe I

RoSep Drive – High-performance and resistant hydrocarbon separator

The RoSep Drive is a Class 1 hydrocarbon separator, designed to ensure optimal filtration while complying with the strictest environmental standards.

Equipped with an advanced coalescence system, it guarantees a separation efficiency of less than 5 mg/L, ensuring impeccable discharge.

New feature: exceptional resistance to heavy traffic

The RoSep Drive is traffic-resistant (drivable) up to 40 tons for models starting at 20,000 L offering robustness and durability even under the most demanding conditions.

Safety, reliability, and performance for all your industrial and commercial projects.



Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]
20.000 L	80	3.200 m ²	7300072890	4690 x 2450 x 2800-3100	1xØ600, 1xØ800
25.000 L	100	4.000 m ²	7300074210	5720 x 2450 x 2700-3000	2xØ600, 1xØ1000
30.000 L	125	5.080 m ²	7300072010	6550 x 2450 x 2700-3000	2xØ800, 1xØ1000
35.000 L	150	6.100 m ²	7300075920	7530 x 2450 x 2700-3000	2xØ800, 1xØ1000
40.000 L	200	8.100 m ²	7300075980	8510 x 2450 x 2700-3000	2xØ800, 1xØ1000
45.000 L	250	10.100 m ²	7300076000	9870 x 2450 x 2700-3000	2xØ800, 1xØ1000
50.000 L	300	12.100 m ²	7300072020	10850 x 2450 x 2700-3000	2xØ800, 1xØ1000
55.000 L	350	14.100 m ²	7300072030	11500 x 2450 x 2700-3000	2xØ800, 1xØ1000
60.000 L	400	16.100 m ²	7300068999	12480 x 2450 x 2700-3000	2xØ800, 1xØ1000
65.000 L	450	18.100 m ²	7300069000	13460 x 2450 x 2700-3000	2xØ800, 1xØ1000





By-pass 10%

Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]	Pipes DN [mm]
20.000 L	650/65	25.400 m ²	7300068560	4690 x 2450 x 2800-3100	2xØ800, Ø250	600 z.
25.000 L	800/80	28.500 m ²	7300068570	5720 x 2450 x 2700-3000	2xØ600, Ø1000	600 z.
30.000 L	1000/100	40.600 m ²	7300068580	6550 x 2450 x 2700-3000	Ø800, Ø1000, Ø250	800 z.
35.000 L	1250/125	50.800 m ²	7300068590	7530 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
40.000 L	1500/150	61.000 m ²	7300068600	8510 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	1000 z.
45.000 L	2000/200	81.300 m ²	7300068620	9870 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	1000 z.
50.000 L	2500/250	101.600 m ²	7300068630	10850 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.
65.000 L	3000/1500	121.600 m ²		13460 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1200 z.

By-pass 20%

Volume [L]	NS [L/s]	Surface	Code	Dimensions A x B x C [mm]	Cover [mm]	Pipes DN [mm]
20.000 L	400/80	16.200 m ²	7300068880	4690 x 2450 x 2800-3100	2xØ800, Ø250	500
25.000 L	500/100	20.300 m ²	7300068890	5720 x 2450 x 2700-3000	2xØ600, Ø1000	600 z.
30.000 L	625/125	25.400 m ²	7300068510	6550 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	600 z.
35.000 L	700/150	28.500 m ²	7300068520	7530 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	600 z.
40.000 L	1000/200	40.600 m ²	7300068530	8510 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
45.000 L	1250/250	50.800 m ²	7300068540	9870 x 2450 x 2700-3000	2xØ800, Ø1000, Ø250	800 z.
50.000 L	1500/300	61.000 m ²	7300068550	10850 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.
65.000 L	2000/400	81.300 m ²		13460 x 2450 x 2700-3000	2xØ800, 2xØ1000, Ø250	1000 z.

Ropetrol

oil separators

Class I coalescing separators do not exceed the hydrocarbon concentration of 5 mg/l.

ROTO oil separator is equipped with coalescent filter, automatic closure devices (on the inflow) and/or electronic warning system.

Coalescent filters are connected on the wall and can be easily cleaned and replaced.

The tank is made from special conductive polyethylene.

Oil separator RoPetrol can be installed inside ex zones.



Volume [L]	NS	Tip - classic	Code	Dimensions (mm)
5.000	10	A	7330001011	2450 x 1800 x 2050-2350
5.000	15	A	7330001511	2450 x 1800 x 2050-2350
6.000	20	A	7330002011	2820 x 1800 x 2050-2350
8.000	30	A	7330003011	2680 x 2300 x 2500-2880
10.000	40	A	7330004011	3040 x 2300 x 2500-2880

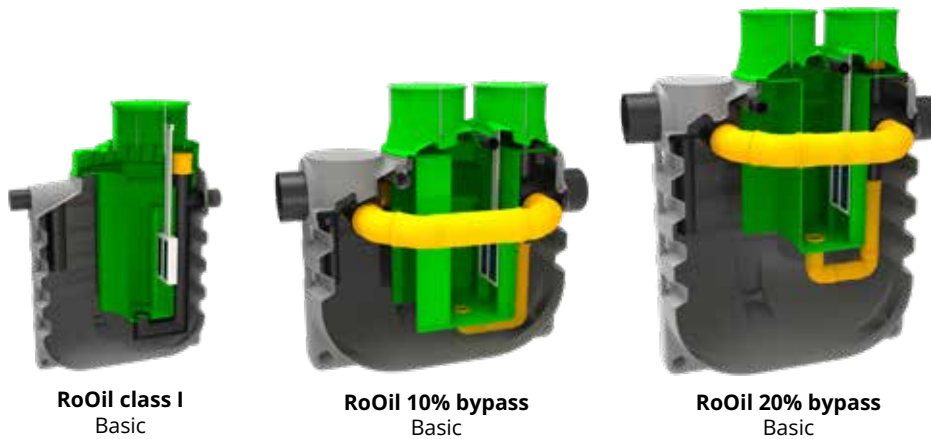
Volume [L]	NS	Tip - classic	Code	Dimensions (mm)
5.000	10	B	7330001021	2450 x 1800 x 2050-2350
6.000	15	B	7330001521	2820 x 1800 x 2050-2350
8.000	20	B	7330002021	2680 x 2300 x 2500-2880
12.000	30	B	7330003021	3760 x 2300 x 2500-2880
16.000	40	B	7330004021	4840 x 2300 x 2500-2880

Volume [L]	NS	Tip - conductive	Code	Dimensions (mm)
5.000	10	A	7330001011	2450 x 1800 x 2050-2350
5.000	15	A	7330001511	2450 x 1800 x 2050-2350
6.000	20	A	7330002011	2820 x 1800 x 2050-2350
8.000	30	A	7330003011	2680 x 2300 x 2500-2880
10.000	40	A	7330004011	3040 x 2300 x 2500-2880

Volume [L]	NS	Tip - conductive	Code	Dimensions (mm)
5.000	10	B	7330001021	2450 x 1800 x 2050-2350
6.000	15	B	7330001521	2820 x 1800 x 2050-2350
8.000	20	B	7330002021	2680 x 2300 x 2500-2880
12.000	30	B	7330003021	3760 x 2300 x 2500-2880
16.000	40	B	7330004021	4840 x 2300 x 2500-2880

RoOil Basic

fuel/oil separators



Product	Volume	Surface	Code	Dimensions (mm)	Cover (recommend equipment)
NS 1,5 RoOil Basic	1.200 L	60 m ²	7301775949	Ø1300 x 1500	H6
NS 3 RoOil Basic	1.500 L	120 m ²	7301775959	Ø1300 x 1750	H6
NS 6 RoOil Basic	1.700 L	240 m ²	7301775979	Ø1300 x 2000	H6
NS 10 RoOil Basic	2.350 L	400 m ²	7301772759	Ø1500 x 2150	H6
NS 15 RoOil Basic	2.700 L	600 m ²	7301775999	Ø1500 x 2400	H6
NS 20 RoOil Basic	4.000 L	800 m ²	7301775889	Ø1800 x 2350	2 x H6
NS 30 RoOil Basic	6.000 L	1.200 m ²	7301772739	Ø2300 x 2350	2 x H6
NS 40 RoOil Basic	7.500 L	1.600 m ²	7301772789	Ø2300 x 2700	2 x H6
NS 50 RoOil Basic	10.000 L	2.000 m ²	7301772769	Ø2300 x 3400	2 x H6

Product	Volume	Surface	Code	Dimensions (mm)	Cover (recommend equipment)
NS 15/1,5RoOil Basic	1.500 L	600 m ²	7301768829	Ø1300x1750	H6
NS 30/3 RoOil Basic	1.700 L	1.200 m ²	7301768909	Ø1300x2000	H6
NS 50/5 RoOil Basic	2.700 L	2.000 m ²	7301768979	Ø1500x2400	H6
NS 80/8 RoOil Basic	3.200 L	3.200 m ²	7301768989	Ø1800x2000	H6
NS 100/10 RoOil Basic	4.000 L	4.000 m ²	7301768929	Ø1800x2350	2 x H6
NS 150/15 RoOil Basic	6.000 L	6.100 m ²	7301768939	Ø2300x2350	2 x H6
NS 200/20 RoOil Basic	7.500 L	8.100 m ²	7301768949	Ø2300x2700	2 x H6

Product	Volume	Surface	Code	Dimensions (mm)	Cover (recommend equipment)
NS 15/3 RoOil Basic	1.500 L	600 m ²	7301768809	Ø1300x1750	H6
NS 30/6 RoOil Basic	1.700 L	1.200 m ²	7301768819	Ø1300x2000	H6
NS 40/8 RoOil Basic	2.350 L	1.600 m ²	7301768969	Ø1500x2150	H6
NS 50/10 RoOil Basic	2.700 L	2.000 m ²	7301768509	Ø1500x2400	H6
NS 75/15 RoOil Basic	4.000 L	3.000 m ²	7301768889	Ø1800x2350	2 x H6
NS 100/20 RoOil Basic	6.000 L	4.000 m ²	7301768849	Ø2300x2350	2 x H6
NS 150/30 RoOil Basic	7.500 L	6.100 m ²	7301768529	Ø2300x2700	2 x H6
NS 200/40 RoOil Basic	8.700 L	8.100 m ²	7301768539	Ø2300x3000	2 x H6

Separator equipment: tank, inflow pipe, mud and oil separator, coalescent filter

RoOil

fuel/oil separator



RoOil class I



RoOil 10% bypass



RoOil 20% bypass

Volume [L]	NS [L/s]	Code	Dimensions A x B [mm]	Pipes DN [mm]
1.200	1,5	7300775940	Ø1300 x 1500	110
1.500	3	7300775950	Ø1300 x 1750	110
1.700	6	7300775970	Ø1300 x 2000	125
2.350	10	7300772750	Ø1500 x 2150	160
2.700	15	7300775990	Ø1500 x 2400	200
4.000	20	7300775880	Ø1800 x 2350	200
6.000	30	7300772730	Ø2300 x 2350	250
7.500	40	7300772780	Ø2300 x 2700	315
10.000	50	7300772760	Ø2300 x 3400	315

Volume [L]	NS [L/s]	Code	Dimensions A x B [mm]	Pipes DN [mm]
1.500	15/1,5	7300768820	Ø1300 x 1750	200
1.700	30/3	7300768900	Ø1300 x 2000	200
2.700	50/5	7300768970	Ø1500 x 2400	250
3.200	80/8	7300768980	Ø1800 x 2000	315
4.000	100/10	7300768920	Ø1800 x 2350	315
6.000	150/15	7300768930	Ø2300 x 2350	400
7.500	200/20	7300768940	Ø2300 x 2700	400

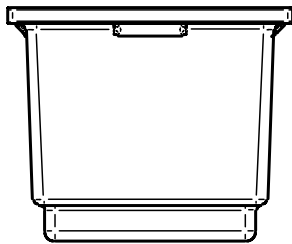
Volume [L]	NS [L/s]	Code	Dimensions A x B [mm]	Pipes DN [mm]
1.500	15/3	7300768800	Ø1300 x 1750	200
1.700	30/6	7300768810	Ø1300 x 2000	200
2.350	40/8	7300768960	Ø1500 x 2150	250
2.700	50/10	7300768500	Ø1500 x 2400	250
4.000	75/15	7300768880	Ø1800 x 2350	315
6.000	100/20	7300768840	Ø2300 x 2350	315
7.500	150/30	7300768520	Ø2300 x 2700	400
8.700	200/40	7300768530	Ø2300 x 3000	400

garage oil separators

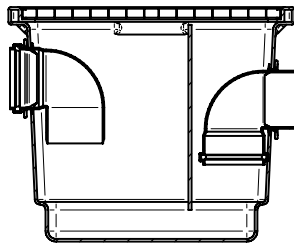


Simple construction for installation in garages or mechanic workshops. Intended for collecting oil and water that drains from vehicles in the garage. Easy to clean, install, and maintain. Made of polyethylene with a metal grid. Possibility of connecting the outlet pipe to a drainage pipe.

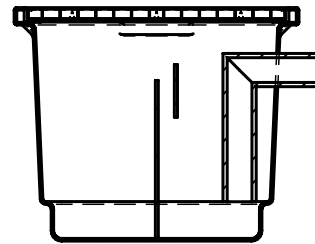
Type	Code	Dimensions A x B x C [mm]
Separator with grid, Type B	7300075010	540 x 380 x 440
Flow-through Separator, Type F	7300075480	540 x 380 x 440
Drainage Separator, Type G	7300076040	540 x 380 x 440



Type B



Type F



Type G

Rosep

oil and grease separators equipment



AUTOMATIC CLOSURE DEVICE

ACD until inflow pipes DN160
ACD over inflow pipes DN200



SAMPLING SHAFT

[code: 7600066370]

Sampling Shaft makes it possible
to monitor the quality of the
water on outflow.



MANUAL LEVEL METER

Manual level meter integrated on automatic closing device



OIL DETECTION PASTE

Oil detection paste, detect the present and amount of the oil inside the oil separators



MANUAL MEASURING KIT

Manual measuring kit for oil and sludge (until 6,5 m) kit contains: sampling stick, measuring tape, carrying bag and cleaning towel



ALARM FOR OIL SLUDGE AND HIGH LEVEL

[code: 7312900250]

Oil alarm operates when the oil level reaches 90% of the oil storage volume and indicates that the separator needs immediate emptying for it to continue to work effectively.



ALARM DEVICE FOR GREASE DETECTION

[code: 7300088520]

Alarm device that monitors grese layer in the separator



ALARM DEVICE FOR GREASE DETECTION AND HIGH FLUID LEVEL DETECTION

[code: 7300088241]

Alarm device that monitors grese layer and high levels of fluid in the separator

SHAFTS

RoShaft



Manhole

RoShaft



**Shaft with two
layer base**

RoShaft



**Water calming
shafts**

RoShaft



Road gullies

RoShaft



Water meter shafts

RoShaft



Cable shafts



manhole / shafts

Purpose of use

Manhole shafts are intended for underground installation on sewer lines as a junction, dividing and revision openings during the maintenance of the sewer manhole.

ROTO shafts are suitable for installation on walking and driving surfaces such as yards, sidewalks, parking lots and roads. The method of installation and construction of the shaft allows access to the shaft to be easy and safe.

Construction and technology

Sewer shafts are made of polyethylene [PE] with the technology of rotomoulding and are available in three different diameters DN 600, DN 800 and DN 1000 of different heights up to 5 m. They are distinguished by a long life service, watertightness and resistant to various negative influences. Due to the light weight shafts are easy to transport and for the manipulation at the construction site.

Various shaft bases allows the use of different connections with the pipes of all types and manufacturers.

Shafts are made in accordance with the standard SIST EN 13598-2:2009, which determines the appropriate resistance, water tightness and load-bearing capacity.

Advantages

Installation of the ROTO manhole shafts is simple and fast, due to the technologically advanced and high developed shaft shapes.

Shafts can be made according to the requirements of the project and the buyer.

Certificates and quality reports

ROTO shafts have obtained the following certificates and report:

- Anti-buoyancy certificate (EBS d.o.o.)
- Circumferential stiffness (ZAG Ljubljana; Slovenia)
- Conical upper body resistance (ZAG Ljubljana; Slovenia)
- Slovenian technical consensus – STS (ZAG Ljubljana; Slovenia)



Different diameters of shafts



DN 600



DN 800



DN 1000

manhole / shafts

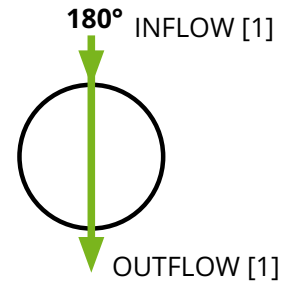
Manhole shafts are intended for underground installation on sewer lines as a junction, dividing and revision openings during the maintenance of the sewer manhole.

ROTO shafts are suitable for installation on walking and driving surfaces such as yards, sidewalks, parking lots and roads. The method of installation and construction of the shaft allows access to the shaft to be easy and safe.



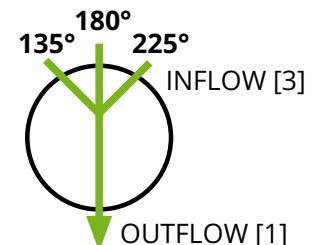
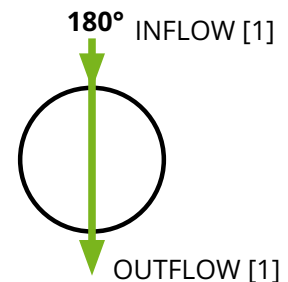
DN400 1/1

Height [H]	Connection pipe	Code
1000 mm	Ø110/125/160	7600059100
1500 mm	Ø110/125/160	7600059110



DN600 1/1, 3/1

Height [H]	Connection pipe	Code 1/1	Code 3/1
1000 mm	Ø160/200	7600070010	7600069680
1250 mm	Ø160/200	7600070020	7600069650
1500 mm	Ø160/200	7600070030	7600069660
1750 mm	Ø160/200	7600070040	7600069670
2000 mm	Ø160/200	7600070050	7600069810
2250 mm	Ø160/200	7600070060	7600069820
2500 mm	Ø160/200	7600070070	7600069830
2750 mm	Ø160/200	7600070080	7600069840
3000 mm	Ø160/200	7600070090	7600069850



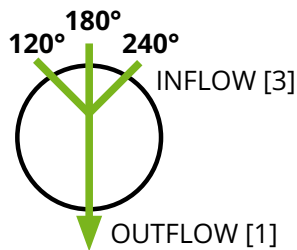
DN600 3/1



Height [H]	Connection pipe	Code	Connection pipe	Code
1000 mm	Ø160/200/250	7600057000	Ø160/200/250/315	7600805010
1250 mm	Ø160/200/250	7600057030	Ø160/200/250/315	7600805020
1500 mm	Ø160/200/250	7600057010	Ø160/200/250/315	7600805030
1750 mm	Ø160/200/250	7600057020	Ø160/200/250/315	7600805040
2000 mm	Ø160/200/250	7600059220	Ø160/200/250/315	7600805050
2250 mm	Ø160/200/250	7600059230	Ø160/200/250/315	7600805060
2500 mm	Ø160/200/250	7600059240	Ø160/200/250/315	7600805070
2750 mm	Ø160/200/250	7600059250	Ø160/200/250/315	7600805080
3000 mm	Ø160/200/250	7600059260	Ø160/200/250/315	7600805090

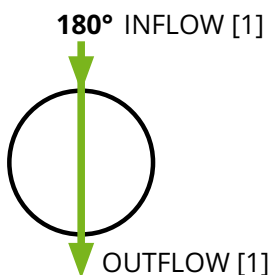
manhole / shafts

DN800 3/1



Height [H]	Connection pipe	Code
1000 mm	Ø200/250/315	760006951
1250 mm	Ø200/250/315	760006952
1500 mm	Ø200/250/315	760006953
1750 mm	Ø200/250/315	760006954
2000 mm	Ø200/250/315	760006955
2250 mm	Ø200/250/315	760006956
2500 mm	Ø200/250/315	760006957
2750 mm	Ø200/250/315	760006969
3000 mm	Ø200/250/315	760006970
3250 mm	Ø200/250/315	760006986
3500 mm	Ø200/250/315	760006971
3750 mm	Ø200/250/315	7600069870
4000 mm	Ø200/250/315	7600069720
4250 mm	Ø200/250/315	7600069880
4500 mm	Ø200/250/315	7600069890
4750 mm	Ø200/250/315	7600069900
5000 mm	Ø200/250/315	7600069910
5250 mm	Ø200/250/315	7600069930
5500 mm	Ø200/250/315	7600069940
5750 mm	Ø200/250/315	7600069950
6000 mm	Ø200/250/315	7600069960

DN800 1/1

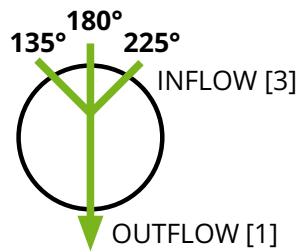
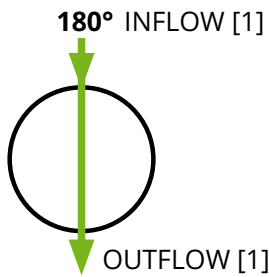


Height [H]	Connection pipe	Code
1250 mm	Ø500/630	7600057040
1500 mm	Ø500/630	7600057050
1750 mm	Ø500/630	7600057060
2000 mm	Ø500/630	7600057070
2250 mm	Ø500/630	7600057080
2500 mm	Ø500/630	7600057090
2750 mm	Ø500/630	7600057100
3000 mm	Ø500/630	7600057110
3250 mm	Ø500/630	7600057120
3500 mm	Ø500/630	7600057130
3750 mm	Ø500/630	7600057140
4000 mm	Ø500/630	7600057150
4250 mm	Ø500/630	7600057160
4500 mm	Ø500/630	7600057170
4750 mm	Ø500/630	7600057180
5000 mm	Ø500/630	7600057190
5250 mm	Ø500/630	7600057200
5500 mm	Ø500/630	7600057210
5750 mm	Ø500/630	7600057220
6000 mm	Ø500/630	7600057230

DN1000 1/1, 3/1



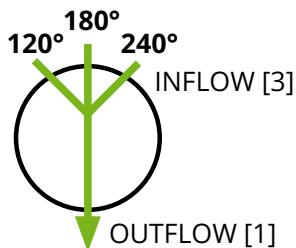
Height [H]	Connection pipe	Code
1250 mm	Ø160/200	7093
1500 mm	Ø160/200	7094
1750 mm	Ø160/200	7097
2000 mm	Ø160/200	7098
2250 mm	Ø160/200	50870
2500 mm	Ø160/200	50871
2750 mm	Ø160/200	50872
3000 mm	Ø160/200	50873



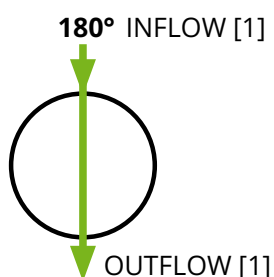
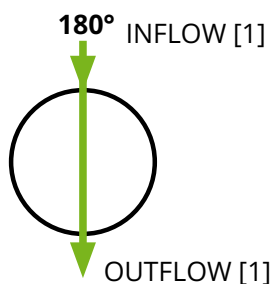
DN1000 3/1



Height [H]	Connection pipe	Code
1250 mm	Ø250/315/400	760002100
1500 mm	Ø250/315/400	760002101
1750 mm	Ø250/315/400	760002102
2000 mm	Ø250/315/400	760002103
2250 mm	Ø250/315/400	760002104
2500 mm	Ø250/315/400	760002105
2750 mm	Ø250/315/400	760002106
3000 mm	Ø250/315/400	760002107
3250 mm	Ø250/315/400	760002108
3500 mm	Ø250/315/400	760002109
3750 mm	Ø250/315/400	7600021100
4000 mm	Ø250/315/400	7600021110
4250 mm	Ø250/315/400	7600021120
4500 mm	Ø250/315/400	7600021130
4750 mm	Ø250/315/400	7600021140
5000 mm	Ø250/315/400	7600021150
5250 mm	Ø250/315/400	7600021160
5500 mm	Ø250/315/400	7600021170
5750 mm	Ø250/315/400	7600021180
6000 mm	Ø250/315/400	7600021190



manhole / shafts



DN1000 1/1

Height [H]	Connection pipe	Code
1250 mm	Ø500/600	7600058410
1500 mm	Ø500/600	7600058230
1750 mm	Ø500/600	7600058240
2000 mm	Ø500/600	7600058250
2250 mm	Ø500/600	7600058260
2500 mm	Ø500/600	7600058270
2750 mm	Ø500/600	7600058280
3000 mm	Ø500/600	7600058290
3250 mm	Ø500/600	7600058300
3500 mm	Ø500/600	7600058310
3750 mm	Ø500/600	7600058320
4000 mm	Ø500/600	7600058330
4250 mm	Ø500/600	7600058340
4500 mm	Ø500/600	7600058350
4750 mm	Ø500/600	7600058360
5000 mm	Ø500/600	7600058370
5250 mm	Ø500/600	7600058420
5500 mm	Ø500/600	7600058430
5750 mm	Ø500/600	7600058440
6000 mm	Ø500/600	7600058450

DN1000 1/1

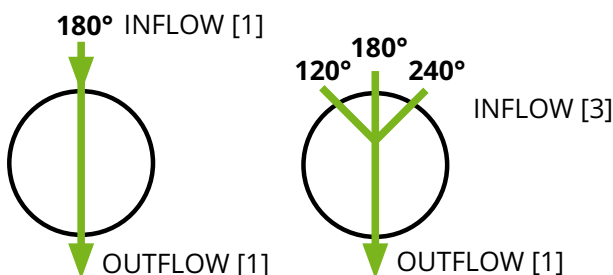
Height [H]	Connection pipe	Code
2000 mm	Ø800/1000	7600058120
2250 mm	Ø800/1000	7600058130
2500 mm	Ø800/1000	7600058140
2750 mm	Ø800/1000	7600058090
3000 mm	Ø800/1000	7600058160
3250 mm	Ø800/1000	7600058170
3500 mm	Ø800/1000	7600058180
3750 mm	Ø800/1000	7600058190
4000 mm	Ø800/1000	7600058100
4250 mm	Ø800/1000	7600056000
4500 mm	Ø800/1000	7600056010
4750 mm	Ø800/1000	7600056020
5000 mm	Ø800/1000	7600056030
5250 mm	Ø800/1000	7600056040
5500 mm	Ø800/1000	7600056050
5750 mm	Ø800/1000	7600056060
6000 mm	Ø800/1000	7600056070

shaft with two layer base



DN800 3/1

Shaft height [H]	Connection pipe	Code
1000 mm	Ø200/250/315/400	5737
1250 mm	Ø200/250/315/400	5738
1500 mm	Ø200/250/315/400	5181
1750 mm	Ø200/250/315/400	5182
2000 mm	Ø200/250/315/400	5183
2250 mm	Ø200/250/315/400	5184
2500 mm	Ø200/250/315/400	5185
2750 mm	Ø200/250/315/400	5186
3000 mm	Ø200/250/315/400	5187
3250 mm	Ø200/250/315/400	5188
3500 mm	Ø200/250/315/400	5189
3750 mm	Ø200/250/315/400	5190
4000 mm	Ø200/250/315/400	5191
4250 mm	Ø200/250/315/400	5192
4500 mm	Ø200/250/315/400	5193
4750 mm	Ø200/250/315/400	5194
5000 mm	Ø200/250/315/400	5195
5250 mm	Ø200/250/315/400	5196
5500 mm	Ø200/250/315/400	5197
5750 mm	Ø200/250/315/400	5198
6000 mm	Ø200/250/315/400	5199



DN1000 1/1, 3/1

Shaft height [H]	Connection pipe	Code 1/1	Code 3/1
1000 mm	Ø200/250/315/400	7600051000	7600057390
1250 mm	Ø200/250/315/400	7600051010	7600057240
1500 mm	Ø200/250/315/400	7600051020	7600057250
1750 mm	Ø200/250/315/400	7600051030	7600057260
2000 mm	Ø200/250/315/400	7600051040	7600057270
2250 mm	Ø200/250/315/400	7600051050	7600057280
2500 mm	Ø200/250/315/400	7600051060	7600057290
2750 mm	Ø200/250/315/400	7600051070	7600057300
3000 mm	Ø200/250/315/400	7600051080	7600057310
3250 mm	Ø200/250/315/400	7600051090	7600057320
3500 mm	Ø200/250/315/400	7600051100	7600057330
3750 mm	Ø200/250/315/400	7600051110	7600057340
4000 mm	Ø200/250/315/400	7600051120	7600057350
4250 mm	Ø200/250/315/400	7600051130	7600057360
4500 mm	Ø200/250/315/400	7600051140	7600057400
4750 mm	Ø200/250/315/400	7600051150	7600057410
5000 mm	Ø200/250/315/400	7600051160	7600057420
5250 mm	Ø200/250/315/400	7600051170	7600057430
5500 mm	Ø200/250/315/400	7600051180	7600057440
5750 mm	Ø200/250/315/400	7600051190	7600057450
6000 mm	Ø200/250/315/400	7600051200	7600057460

Shaft body option:



rotomoulded PE body



corrugated pipe body

water calming shafts

Round bottomed shafts are used for the purpose of calming meteor and waste water on steep terrains. They are designed and constructed in such a way that water tangential flows into the body of the shaft and rounds along the round bottom of the shaft all the way to the outflow pipe located at the bottom. Shafts are available in two different diameters DN800 and DN1000 and in different heights up to 5 m. With the appropriate installation and solid lid covers shaft can be installed under the traffic load.

DN800

Shaft height [H]	Code
850 mm	7600058500
1100 mm	7600058060
1350 mm	7600058070
1600 mm	7600058510
1850 mm	7600058520
2100 mm	7600058530
2350 mm	7600058050
2600 mm	7600058020

DN1000

Shaft height [H]	Code
900 mm	7600059130
1250 mm	7600059140
1500 mm	7600059150
1750 mm	7600059160
2000 mm	7600059170
2250 mm	7600059180
2500 mm	7600059190
2750 mm	7600059200
3000 mm	7600059210

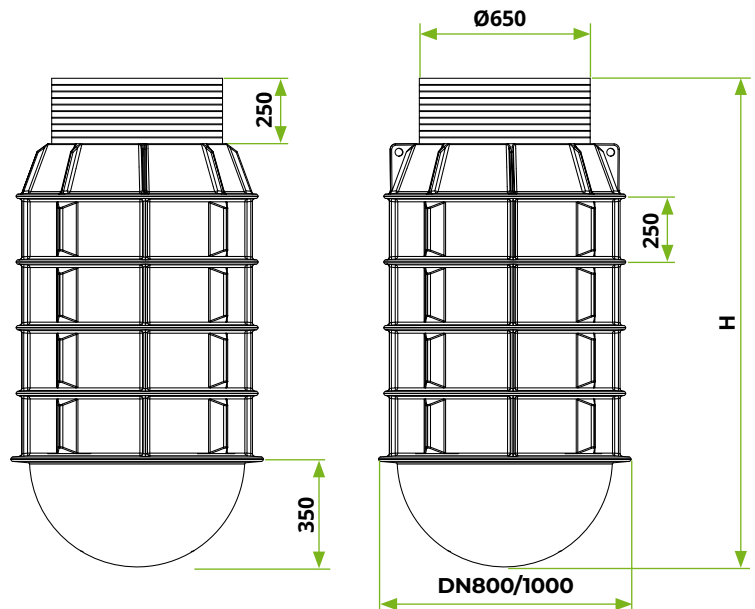


Connection options:



PE connector and PVC pipe connector

corrugated pipe connection



DN400

Height [H]	Code
800 mm	7600076480
1000 mm	7600066370
1300 mm	7600076490
1500 mm	7600066350



DN800

Height [H]	Code
1000 mm	7600059030
1250 mm	7600059040
1500 mm	7600059050
1750 mm	7600059060
2000 mm	7600059070
2250 mm	7600059080
2500 mm	7600059090



DN500

Height [H]	Code
500 mm	7600059510
1000 mm	7600059520
1250 mm	7600059530
1500 mm	7600059540
1750 mm	7600059550
2000 mm	7600059560



DN1000

Height [H]	Code
1000 mm	7600059270
1250 mm	7600059280
1500 mm	7600059290
1750 mm	7600059760
2000 mm	7600059770
2250 mm	7600059300
2500 mm	7600059310
2750 mm	7600059320
3000 mm	7600059330



DN600

Height [H]	Code
1000 mm	7600074430
1250 mm	7600059120
1500 mm	7600074420
1750 mm	7600074410
2000 mm	7600074400



PE cover options:



DN400
PE cover

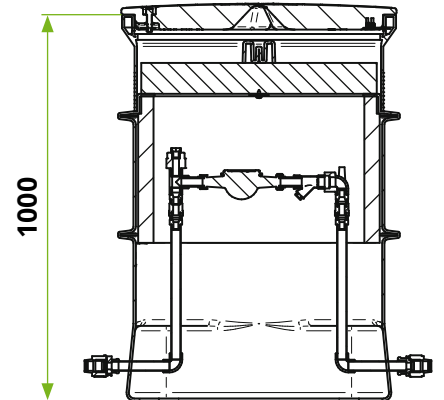
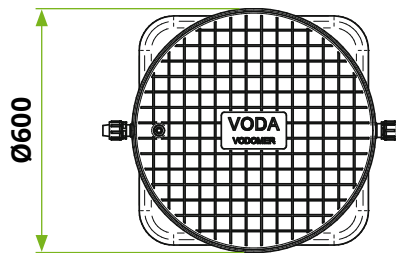


DN600
adapter with cover

water meter shaft

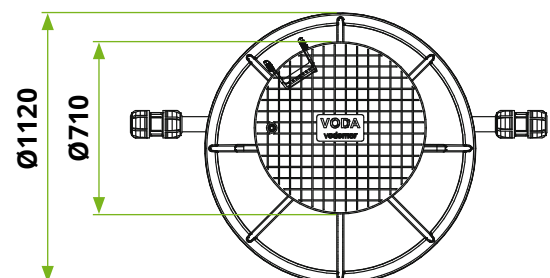
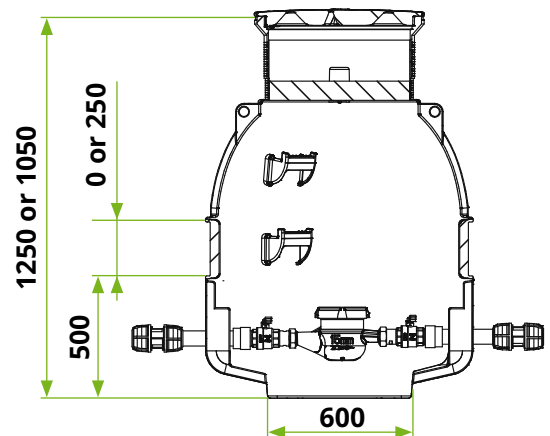
TERMO DN600

Water meter shaft of diameter DN600 is an ideal choice for individual houses or smaller water consumers. Shafts are available as equipped with necessary components or empty. As standard, the shafts contain a thermal insulation jacket around the inner perimeter and a thermal insulated cover.



TERMO DN1000

The water meter thermal shaft DN1000 is suitable for the installation of a larger number of water meters – with the possibility up to 4 water meters. It is available as equipped or empty.

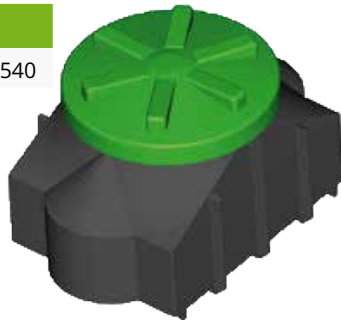


cable shafts

Shafts are made of environmentally friendly polyethylene, which is suitable for fecal and clean water. Polyethylene cable shaft is used for the construction of a cable system. Its advantages include high tensile hardness. Due to their light weight, the shafts are easy to transport and install. It is simple to drill a hole in the plastic wall and install rubber seals and pipes Φ 50, Φ 100, Φ 125.

SM1 with cover

Code	Dim. (mm)
7600074330	1020 x 640 x 540



PKJ DN800

Code	Dim. (mm)
7600073260	Φ 920 x 950



SM2

Code	Dim. (mm)
7600074340	1070 x 700



PKJ DN1000

Code	Dim. (mm)
7600075300	Φ 1110 x 920



PKJ DN600

Code	Dim. (mm)
7600074830	Φ 730 x 830



MPKJ

Code	Dim. (mm)
7600073280	550 x 420 x 310

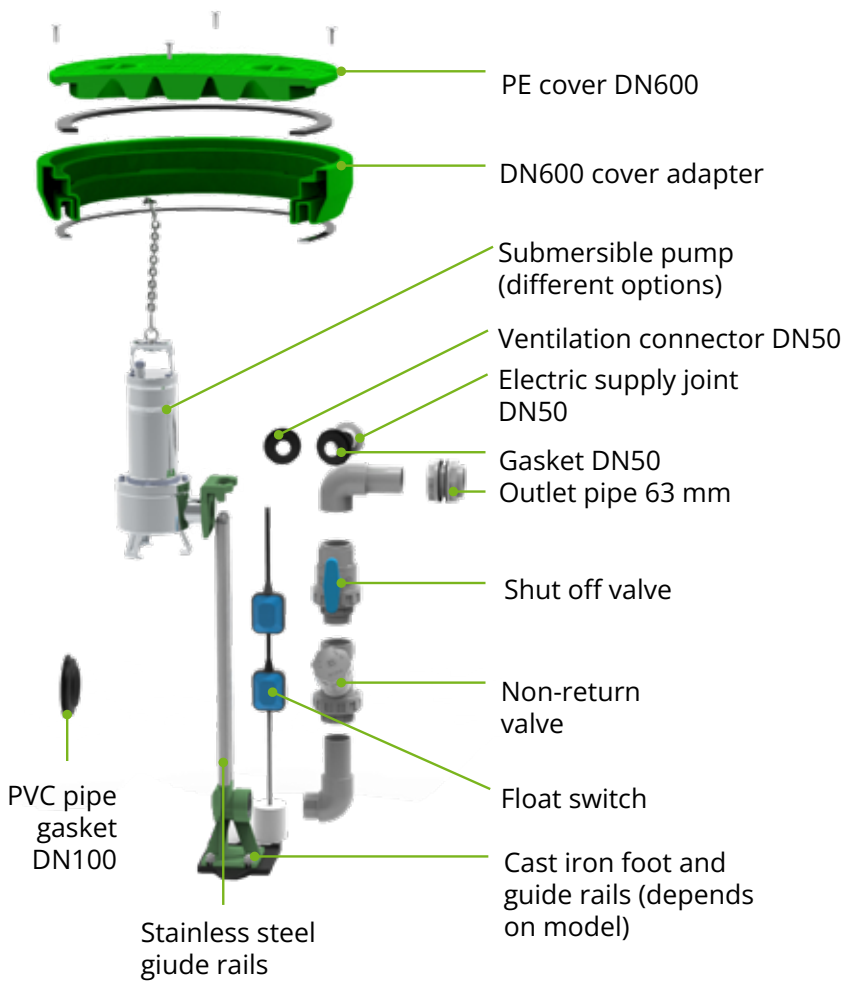


RoPump

pumping stations



cabinet for control panel





RoPump

additional equipment

High level alarm

[Code: 7200088850]

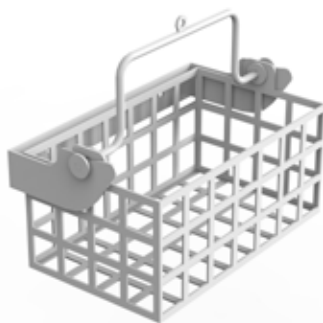


Basket

D600 [Code: R000285]
D800 [Code: R000278]
D1200 [Code: R000417]

Fixing of the basket

D600 [Code: R000294]
D800 [Code: R000401]
D1200 [Code: R000401]



Cabinet for control panel

[Code: 7200088310]



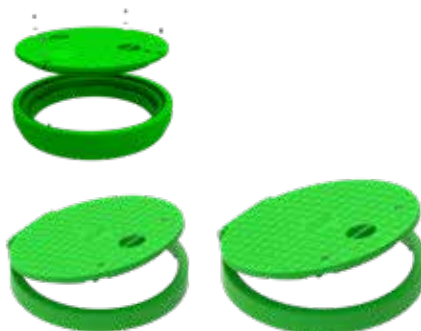
Additional extension

D600 x 500 [Code: 7700000020]
D800 x 750 [Code: 0080305]



Cover + extension

DN600 [Code: 7700000020]
DN800 [Code: 7100520620]
DN1000 [Code: 7100520970]



Basket rail

D600, H725 [Code: R000386]
D600, H1025 [Code: R000387]
D800, H725 [Code: R000388]
D800, H1025 [Code: R000389]
D1200, H1077 [Code: R000416]



- SMART EVO 1 (230V)** [Code: 1290014]
- SMART EVO 1 (GSM)** [Code: 1290087]
- SMART EVO 2 (230V)** [Code: 1290015]
- SMART EVO 2 (GSM)** [Code: 1290088]
- SMART EVO 2 (3F, 7,5kW)** [Code: 1290089]
- Express D2-MONO** [Code: 1290090]

Control unit

SMART EVO combines several functions in a single product; panels for clean water (emptying, filling, pressurisation, etc) and sewage pump panels (emptying and sewage water). SMART EVO offers even more function, safety and control, raising the standard without extra cost!

The SMART EVO control panels are made in an original Elentek thermoplastic ABS design box – they are watertight and self-extinguishing. Each panel has LED lights signaling voltage presence, thermal protection and motor running, and a main switch interlocking door, push buttons for manual or automatic operation, and level relay for probes volt free alarm contacts.

The users and external controls such as float switches and pressure switches are to be connected on the terminals of the main electronic board.

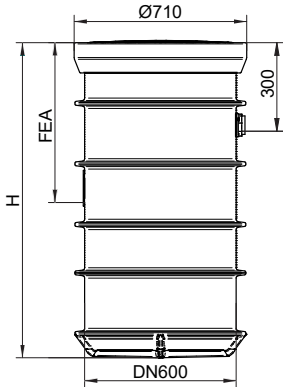
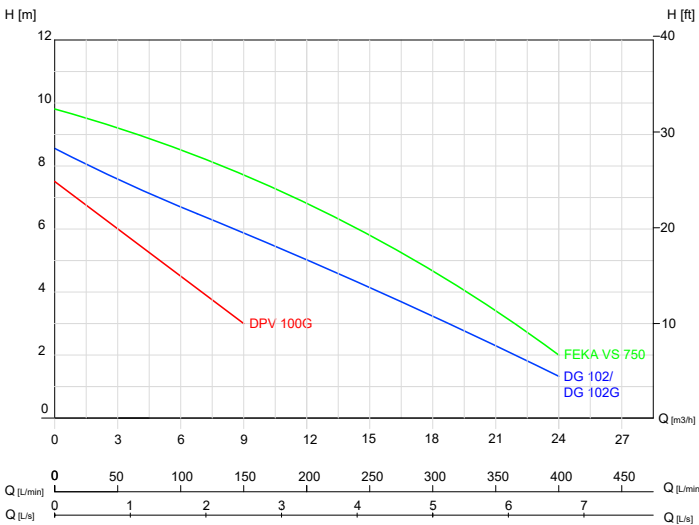
individual use DN600 with one pump

Advantages of ROTO pumping stations

- + Reinforced PE shaft, resistant to deformations and negative impacts
- + Adjustable cover for fast and simple adjustment to the terrain
- + Pre-factory assembled pumping stations
- + Large selection of different submersible pumps
- + Up to 50 mm diameter of solid passage in pump
- + Optional stainless steel catching basket
- + Different options of submersible pumps



EN 12050- 2



PE SHAFT DN 600 with mounted cast iron foot and stainless steel guide rails for pump (option)



Pump **DG102/ DG102G**



Pump **FEKA VS 750**



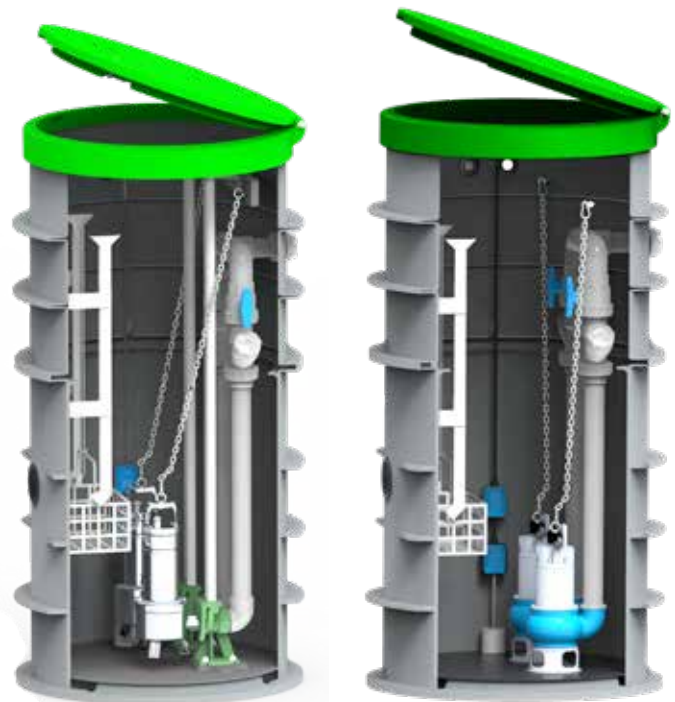
Pump **DPV 100G**

Dimensions	Code	FEA [mm]	Pump selection	Required voltage	Pump power	Free passage [mm]	Output pipe diameter [mm]
D600 × H1000 mm	7700001041	400	Pentax DG102G	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001031		Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001051		DAB FEKA VS 750 with rails	220 - 240V	0,75 kW / 1 HP	50	63
D600 × H1200 mm	7700001070	600	Pentax DG102G	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001071		Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001052		DAB FEKA VS 750 with rails	220 - 240V	0,75 kW / 1 HP	50	63
D600 × H1500 mm	7700001010	900	Pentax DG102G	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001011		Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001053		DAB FEKA VS 750 with rails	220 - 240V	0,75 kW / 1 HP	50	63
	7700001021		Pentax DPV 100G	220 - 240V	0,75 kW / 1 HP	15	32
D600 × H1800 mm	7700001080	1200	Pentax DG102G	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001081		Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700001054		DAB FEKA VS 750 with rails	220 - 240V	0,75 kW / 1 HP	50	63
	7700001022		Pentax DPV 100G	220 - 240V	0,75 kW / 1 HP	15	32

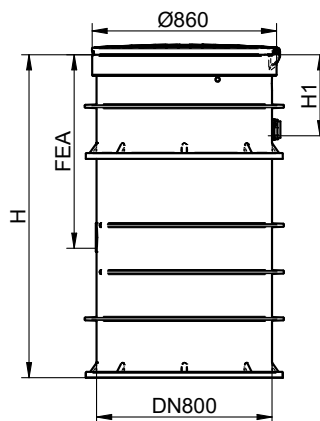
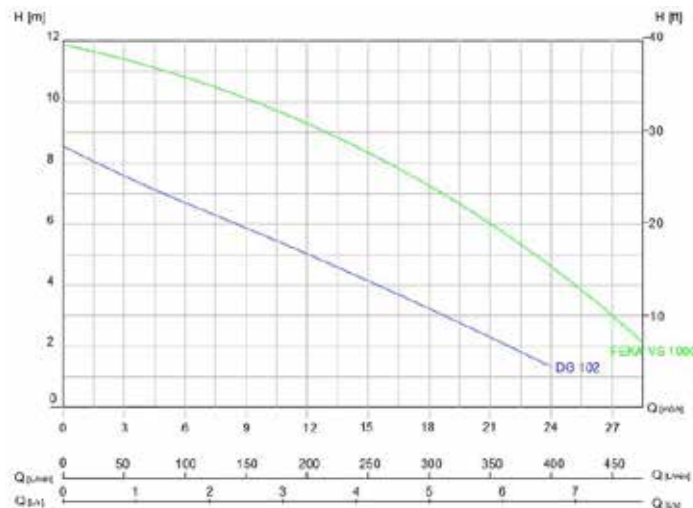
individual use DN800 with two pumps

Advantages of ROTO pumping stations

- + Reinforced PE shaft, resistant to deformations and negative impacts
- + Adjustable cover for fast and simple adjustment to the terrain
- + Easy access for maintenance and work inside the shaft
- + Pre-factory assembled pumping stations
- + Large selection of different submersible pumps
- + up to 50 mm diameter of solid passage in pump
- + Optional stainless steel catching basket
- + Different options of submersible pumps



EN 12050-2



i PE SHAFT DN 800 with mounted cast iron foot and stainless steel guide rails for pump (option)



Pump **DG102/**
DG102G



Pump **FEKA**
VS 1000

Dimensions	Code	FEA [mm]	Pump selection	Required voltage	Pump power	Free passage [mm]	Output pipe diameter [mm]
D800 × H1000 mm	7700002011	400	Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700002051		DAB FEKA VS 1000 with rails	220 - 240V	1 kW / 1,34 HP	50	63
D800 × H1200 mm	7700002055	600	Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700002052		DAB FEKA VS 1000 with rails	220 - 240V	1 kW / 1,34 HP	50	63
D800 × H1500 mm	7700002033	900	Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700002053		DAB FEKA VS 1000 with rails	220 - 240V	1 kW / 1,34 HP	50	63
D800 × H1800 mm	7700002066	1200	Pentax DG102	220 - 240V	1,2 kW / 1,61 HP	50	63
	7700002054		DAB FEKA VS 1000 with rails	220 - 240V	1 kW / 1,34 HP	50	63

RoPump

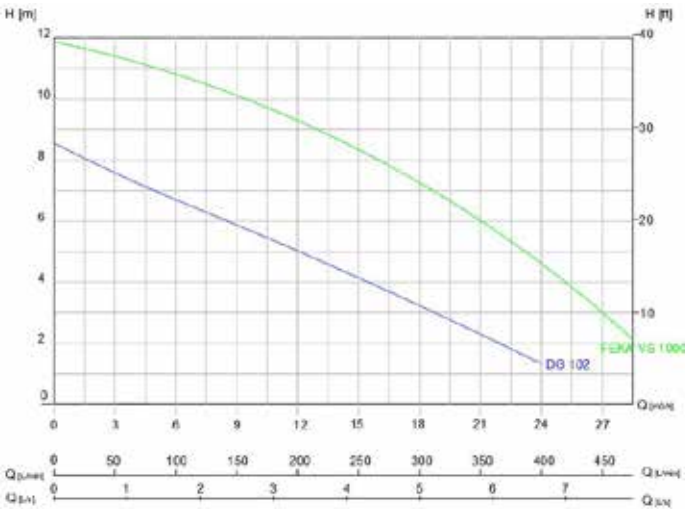
pumping station

individual use DN1000 with two pumps

Advantages of ROTO pumping stations

- + Reinforced PE shaft, resistant to deformations and negative impacts
- + Adjustable cover for fast and simple adjustment to the terrain
- + Pre-factory assembled pumping stations
- + Large selection of different submersible pumps
- + Up to 50 mm diameter of solid passage in pump
- + Optional stainless steel catching basket
- + Different options of submersible pumps

EN 12050-2



Pump **DG102/**
DG102G



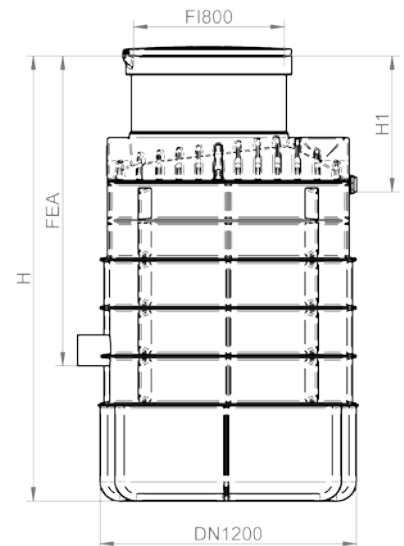
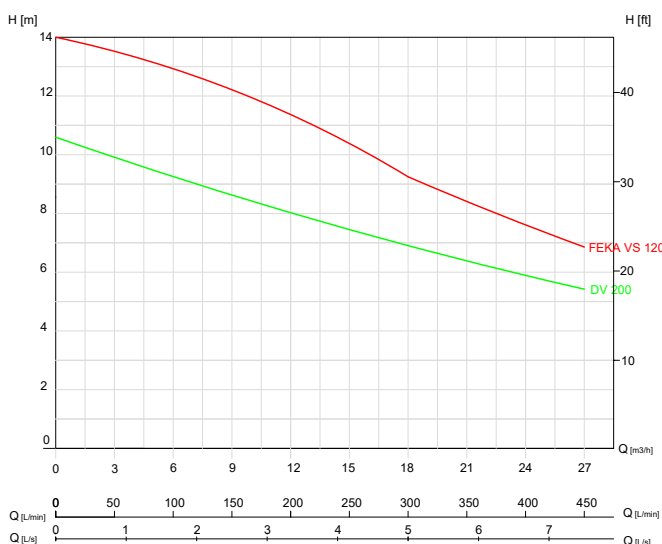
Pump **FEKA**
VS 1000

Dimensions	Code	FEA [mm]	Pump selection	Required voltage	Pump power	Free passage [mm]	Output pipe diameter [mm]
D1000 × H2300 mm	7700003031	1200	DAB FEKA VS 1000 with rails	220 - 240V	1 kW / 1,34 HP	50	63

DN1200 for waste and rain water

- The upper part of the tank can have one large or two separate openings with covers DN600, depends on how many pump you would like to install.
- The bottom of the tank has places for anchoring in case of ground water.
- Simple installation thanks to the low weight of the tank/shaft components and easy connection technique.
- Long-term reliability thanks to the absolutely water-tight chamber system which is resistant to sedimentary deposits and aggressive media as well as root infiltration.
- Simple pump servicing through openings.

EN 12050- 2



Dimensions	Code	FEA [mm]	Pump selection	Required voltage	Pump power	Free passage [mm]	Output pipe diameter [mm]
D1200 × H2300 mm	7700005044	1200	Pentax DV 200	220 - 240V	1,5 kW – 2 HP	50	75
	7700002031		DAB FEKA VS 1200 with rails	220 - 240V	1,2 kW / 1,61 HP	50	63

pumping station

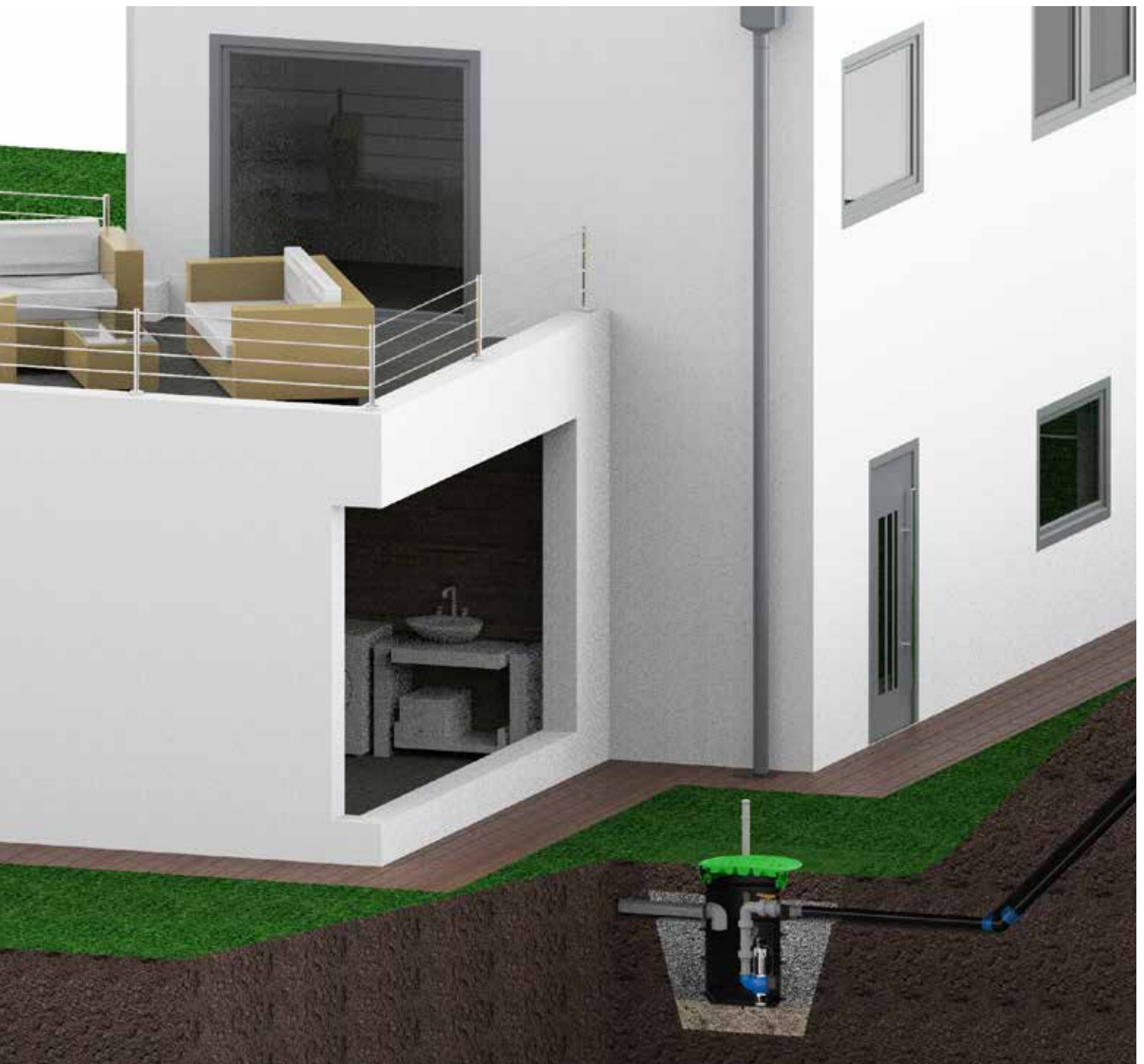
Wastewater usually drains into the sewer network by gravity. From lower-lying houses or basements, they must be pumped to the level of the sewerage network, to a treatment plant or septic tank with the help of the RoPump house pumping station.

House pumping stations are suitable for residential and holiday houses, business facilities, farms. The maximum flow and pumping height depends on the type of pump installed in the shaft.

The pumping shaft is made in one piece without welds, from linear high density polyethylene (LLDPE).

ADVANTAGES

- Reinforced and nature-friendly shaft, resistant to deformation and negative impacts
- Quick and easy installation, without the need for construction machinery
- Factory assembled and tested pumping stations
- Possibility of pumping faecal or clean water with solid particles up to 50 mm



Tank connection

Roterra water tanks can be connected in series or in parallel to increase the volume capacity of the whole system. Such systems are particularly useful for storing fire water near buildings, as water storage for irrigation systems or as water storage for settlements. Joints can be made in two ways, either by flange joints or by electrofusion welding.



Connect parallel





Flange joint

The pipes between tanks can be joined using flanged joints. The company prepares the joining elements (flanges, end caps, seals) on the tanks. The joint is then bolted on site and can be done by the user.



Electrofusion welding

The tanks can also be connected to each other using polyethylene pipes (PE 100), which are joined together using an electrofusion welding process. Depending on how the tank is arranged (parallel or in series), different electrofusion elements are used in electrofusion welding, such as EF couplings and EF elbows. The electrofusion welding itself is carried out on site and requires welding equipment.



Roterra	Connector mounting location	Inlet rubber gasket	Welded pipe for connection
from 2.200 up to 3.300 L	upper	up to DN 110	up to DN 200
	lower	/	up to DN 150
from 3.500 up to 6.000 L	upper	up to DN 150	up to DN 300
	lower	/	up to DN 150
from 8.000 up to 30.000 L	upper	up to DN 200	up to DN 300
	lower		up to DN 300
from 30.000 up to 65.000 L	upper	up to DN 300	up to DN 500
	lower	/	up to DN 300

Connect sequential



Covers and extensions



TELESCOPIC EXTENSION AND COVER
WITH HINGED OPENING **TS6x4**

[code: 7600088710]

Ø600 x 400 mm

...
Recommended for:
Roterra
Roterra 2450
RoBox 5000

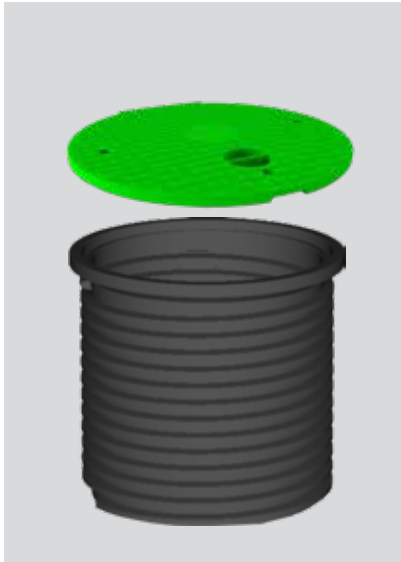


EXTENSION OF EXTENSION **TS6x6**

[code:7113110700]

Ø600 x 600 mm

...
Recommended for:
Roterra



COVER S6

[code: 7200520190]

TELESCOPIC EXTENSION TS6x5

[code: 7113110690]
Ø600 x 500 mm

...
Recommended for:
Roterra



COVER HS6

[code: 7100520380]

CYLINDRICAL EXTENSION CS6x5

[code: 7100000011]
Ø600 x 500 mm

...
Recommended for:
Roterra
Rocube



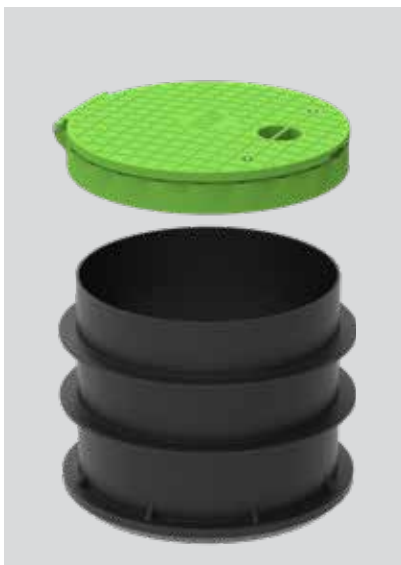
COVER H6

[code: 7100520370]

OKTABIN O6

[code: 7100520320]
Ø600 x 700 mm

...
Recommended for:
RoBox 5000
Rodrink



COVER H8

[code: 7100520620]

CYLINDRIC EXTENSION C8

[code: 7106548710]
Ø800 x 750 mm

...
Recommended for:
Roterra
Rocko



CAST IRON COVER IC6

[code: 1280431]

EXTENSION CK8

[code: 7600059030]
Ø800 x 1000 mm

...
Recommended for:
Rodrive



COVER H10

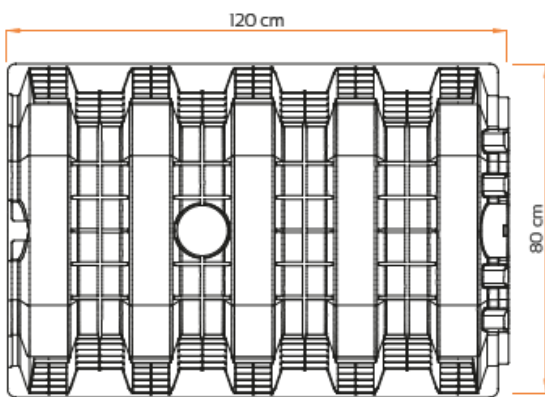
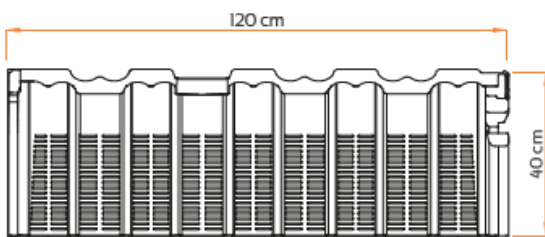
[code: 7100520970]

EXTENSION CK10

[code: 7600059770]
Ø1000 x 2000 mm

...
Recommended for:
Rodrive

drainage system



- Drening is made of HDPE (high density regenerated polyethylene)
- Drening is a modular element.
- It is designed for the creation of underground retention ponds used for "in-situ" rainwater management.

Product	Volume [L]	Code	Dimension [mm]
Infiltration tunnel	310	8826	1200 x 800 x 400
Cap	-	8838	700 x 400



USE: Chemical filters are used primarily for the cleaning of waste air from waste water pumping stations, waste water treatment plants, septic pits, and composting plants but they can also be used for the cleaning of waste air on other industrial plants where waste air occurs as a by-product of industrial processes.

Chemical filters are very efficient and, because they have small dimensions compared to other types of filters, they require less space and are cost-efficient. The only by-products of waste air cleaning are spent filter filler (which is classified as non-toxic waste) and anorganic salts. The efficiency of waste air cleaning is up to 98%.



INSTALLATION: Chemical filters are designed as free-standing. They have to be mounted on surfaces which have sufficient load capacity, on sites which are easily accessible to maintenance personnel and where there are no obstacles for the changing of filter media. Installation should be done by qualified personnel.



Dimensions of chemical air filters type EKOLINGAIR with fan

Product	Maximum flow [m ³ /h]	Diameter D [mm]	Filter height H [mm]	Filtering media quantity [kg]
EkolingAir 20	20	250	800	10
EkolingAir 50	50	400	850	25
EkolingAir 100	100	600	800	50
EkolingAir 200	200	600	1050	100
EkolingAir 400	400	800	1300	200
EkolingAir 800	800	1200	1640	400
EkolingAir 1000	1000	1400	1500	580

Dimensions of draw-through chemical air filters (NV) type EKOLING AIR

Product	Maximum flow [m ³ /h]	Premer D [mm]	Filter height H [mm]	Filtering media quantity [kg]
EkolingAir 10 NV	10	250	520	6
EkolingAir 20 NV	20	250	800	11
EkolingAir 30 NV	30	250	900	15
EkolingAir 40 NV	40	400	700	20
EkolingAir 50 NV	50	400	800	25
EkolingAir 60 NV	60	400	900	30

Installation instructions for **Roto water tanks**

When digging the tank in, the instructions must be followed. In cases where simple self-installation is not possible, please consult the manufacturer or relevant experts. Avalanches, floods and other difficult terrain require the advice of an experienced professional. We also offer advice and a presence at the time of installation to ensure correct and quality installation.



1. TRANSPORT OF THE TANK

The tank must be on a level surface during transport. Care must be taken to avoid any sharp edges that could damage the tank. The tank should be secured to the means of transport with polyester or similar straps. Care must be taken to ensure that the belts are not too tight.



2. HANDLING THE TANK ON SITE

The tank is lifted and carried using lifting straps. Attach the lifting straps to the tank clamps or to the marked positions. The tank should be moved using suitable construction equipment, taking care to avoid damage to the tank. The tank must not be rolled or dragged.



3. TEMPORARY STORAGE

The tank must be stored on a suitable, level and smooth surface. You should be aware of any sharp objects on the ground that could cause damage to the tank. If the tank is damaged before installation, this must be reported immediately to the manufacturer. Repairs should be carried out in accordance with the manufacturer's written instructions.



4. BEFORE INSTALLATION or BUILDING IN

Before installing the tank, the composition and properties of the soil must be carefully checked. The floor of the construction pit must be hardened and stable. In case of poor bearing capacity of the ground, a cushion with gravel material 40 cm thick or concrete must be constructed. The cushion must be consolidated to a minimum compaction of 60 MPa. Excavated material must be removed from the excavation pit so that it does not mix with the backfill material.



5. EXCAVATION DIMENSIONS

The floor area of the construction pit should be 60–100 cm larger than the floor area of the tank. The tank must be a minimum of 150 cm from the building and a minimum of 200 cm from the carriageway. If the type of terrain permits, dig a construction pit with walls as vertical as possible (the embankment angle of the soil and safe working measures must be taken into account). All applicable safety and building regulations must be observed during installation. The depth of the excavation must be coordinated with the design and dimensions of the tank.



6. BACKFILL MATERIAL

The material used to fill the tank must be of the correct granulation. The material must be washed free of ice or snow, clay, particles of coarse granulation and other organic particles. Suitable material is sandy gravel or crushed stone with a granular size of 4–16 mm.

Backfilling and compaction of the backfill material should be carried out in phases or in 300 mm thick layers. The tank must be filled with water at the same time, so that the level of backfill material and water in the tank is the same at all times. This gives the same lateral pressure on the tank wall. Each layer must be well consolidated with lightweight compaction machines. When backfilling, the elevation and cover must be placed on the tank.



7. ANCHORING THE TANK

Anchor lugs (20 mm diameter stainless steel rod) must be installed in the base plate. A rope or cable made of stainless steel and resistant material should be attached to the anchor lugs using wire clips. The rope or wire rope is tensioned using a tension nut. All fixing materials should be made of stainless steel. To prevent direct pressure of the rope on the container, place a geotextile (approx. 100 mm wide) between the surface of the tank and the rope. On the tank on which the clamps are installed, the anchoring should be executed at the clamp lugs. Polyester straps can also be used instead of stainless steel ropes.



8. AB BASE PLATE

The reinforced concrete base slab should be placed on a hardened base. The minimum thickness of the AB foundation slab is 200 mm (sizing to be carried out by a structural engineer). It should be reinforced with two reinforcing nets. The base plate should be 600 mm wider than the floor dimensions of the tank.



9. TRAFFIC LOAD

The traffic load must not be transferred directly to the tank. Therefore, an AB relief slab must be constructed above the tank. The AB slab is dimensioned by a structural engineer according to the load and the AB slab must be properly supported. In case of traffic loads, an iron cast cover must be installed on the tank.



10. PHOTODOCUMENTATION OF INSTALLATION

In order to claim the warranty in case of damage to the tank, the entire installation must be photodocumented. The manufacturer shall not be held liable for any damage to the tank caused during the digging process in case of incorrect installation of the tank.

Easy installation – WALKING AREA



1. PHASE - Pit preparation

The floor area of the construction pit must be 60–100 cm larger than the floor area of the tank. If the type of terrain permits, dig a construction pit with walls as vertical as possible (the embankment angle of the soil and safe working measures must be taken into account).

The planum of the construction pit must be level and consolidated. If the soil is less load-bearing, a rehabilitation cushion with gravel material 40 cm thick or lean concrete is required. The rehabilitation cushion must be consolidated to a minimum compaction of 60 MPa

A sand bed at least 15 cm thick shall be laid on the prepared sub-base. Sand with a granulation of 0–4 mm is placed in the



2. PHASE – installation in the pit

Carefully place the tank on a level sand bed (lifted by a suitable mobile lifting or working machine) and level it using a water balance.

Adjust the tank extensions (inspection openings) to the final ground level.

The telescopic extension adjusts to the final terrain by tightening and loosening. The integrated extension is adjusted by removing the adapter with the cover and cutting the neck to the appropriate final ground level.

It is important that the extension and the cover are placed on the tank when backfilling.



3. PHASE – backfill

Backfill the tank up to 30 cm measured from the bottom of the tank with 4–16 mm fraction and simultaneously fill it with water up to 30 cm measured from the bottom of the tank (fill all compartments).

Care must be taken to ensure that the fraction is well fed under the rounded parts of the tank. The filling of the tank with water and backfilling with fraction is repeated in 30 cm increments until the tank is backfilled to the first connection.

When backfilling the tank, we need to pay attention to the level of the connections (inlet, outlet, etc.) to ensure that they are made in time.



4. PHASE – Final embankment

Once the connections have been properly connected and are watertight, the pit is backfilled with fraction up to the last 25 cm.

Place geotextile over the backfill with 4–16 mm fraction – over the entire tank area.

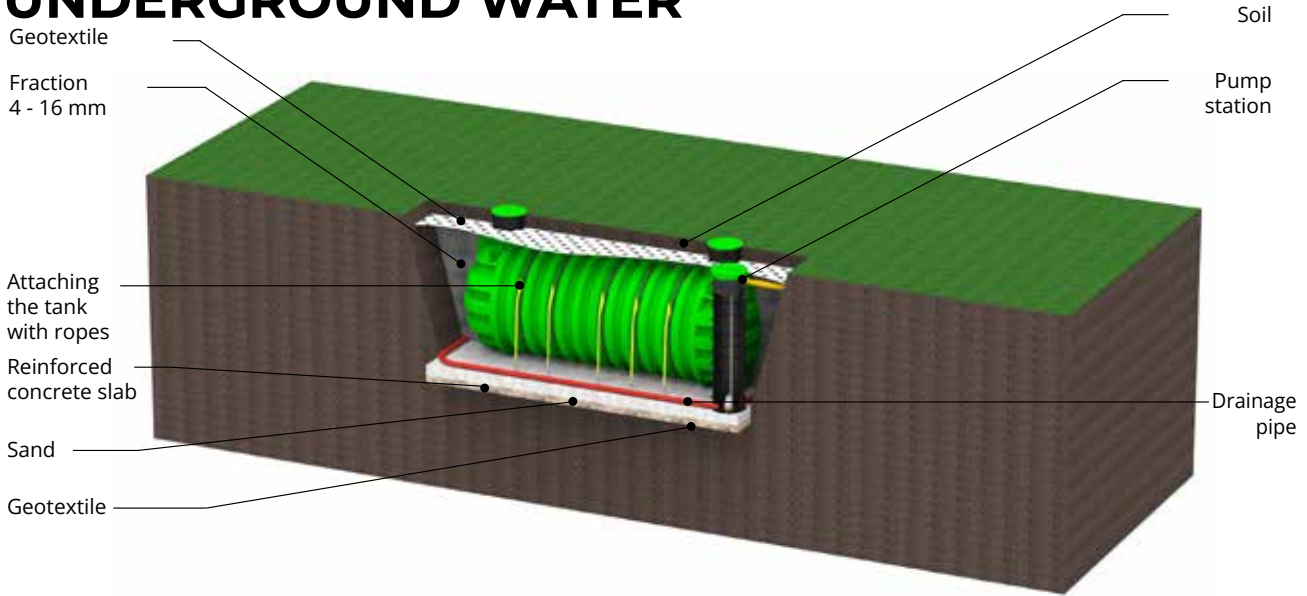
The last 25 cm of backfill is made with the soil excavated when digging the construction pit. Care must be taken not to fill the tank lid.

The maximum height of the embankment above the top of the tank is 80 cm.

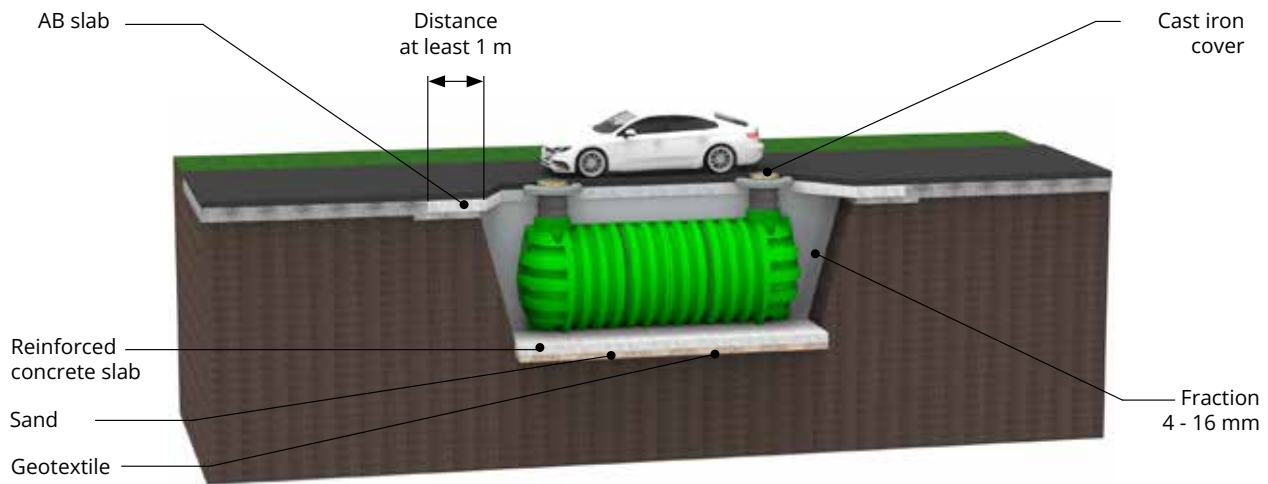
In case of impermeable terrain, drainage around the tank is mandatory.

special installations

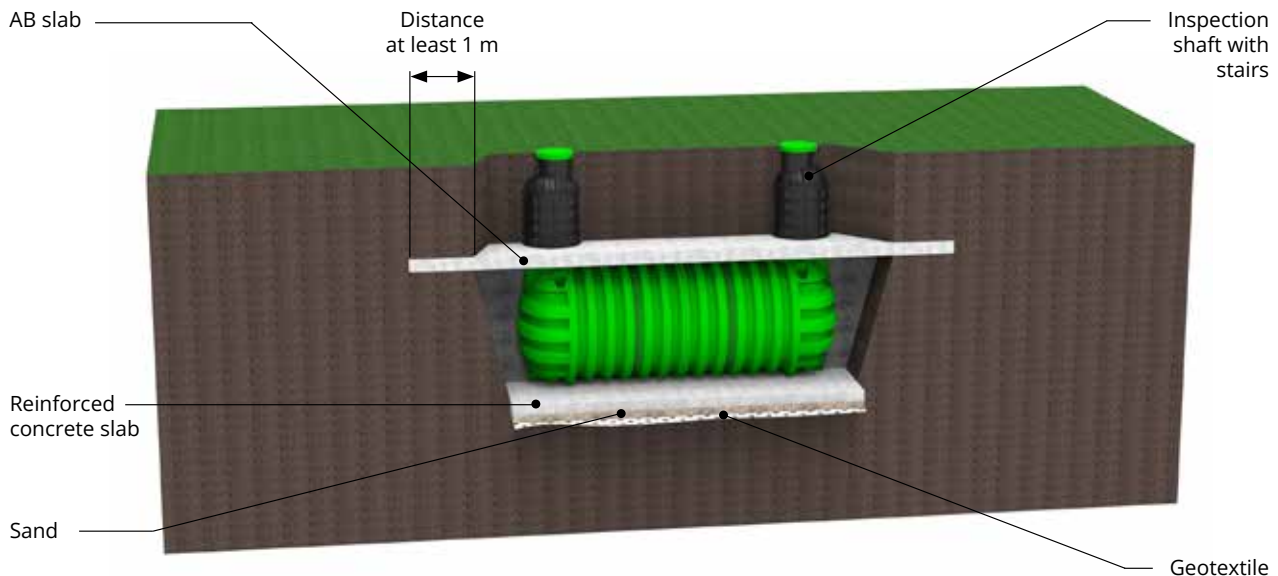
UNDERGROUND WATER



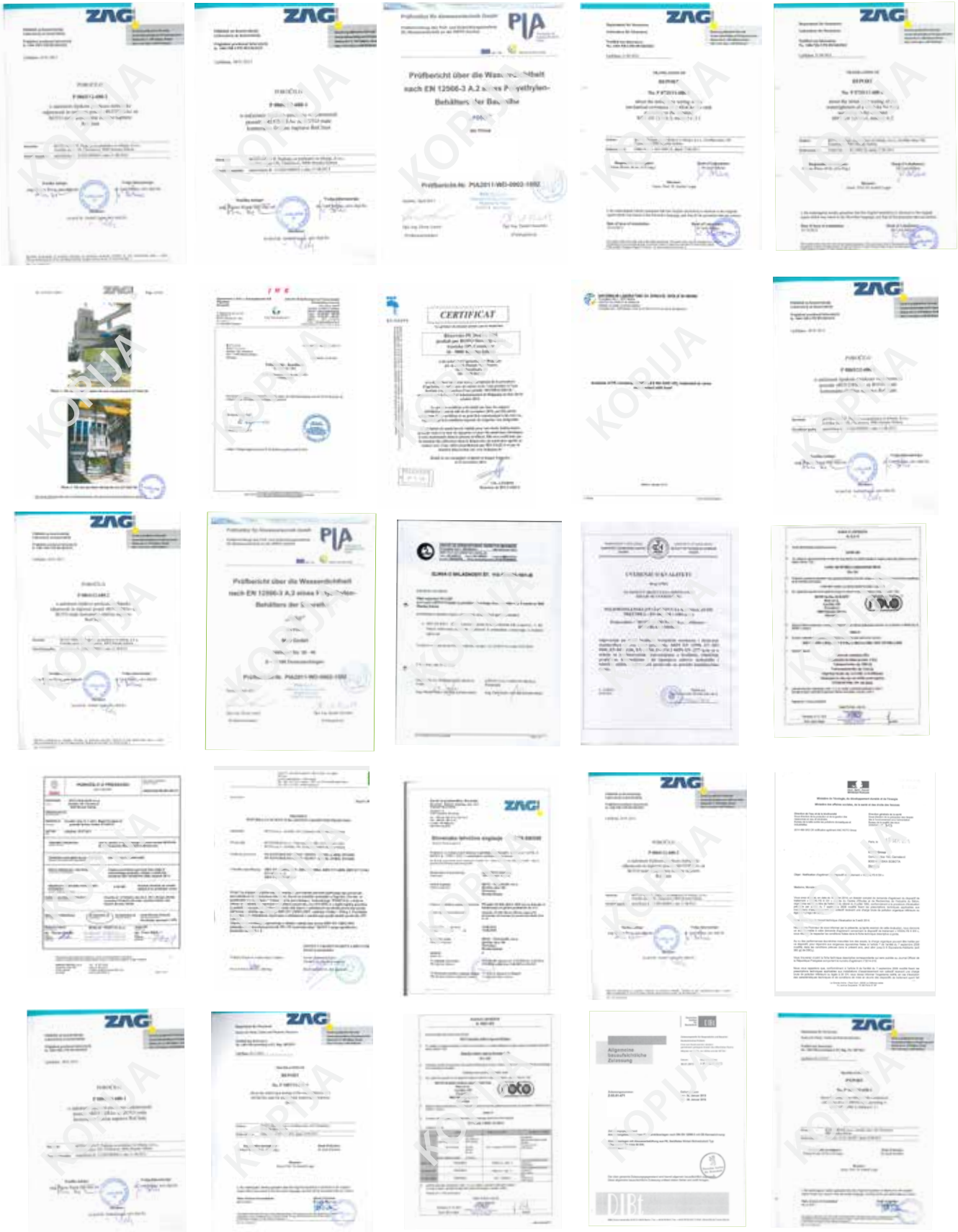
ROAD SURFACES



DEEP INSTALLATION



certificates





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04/26