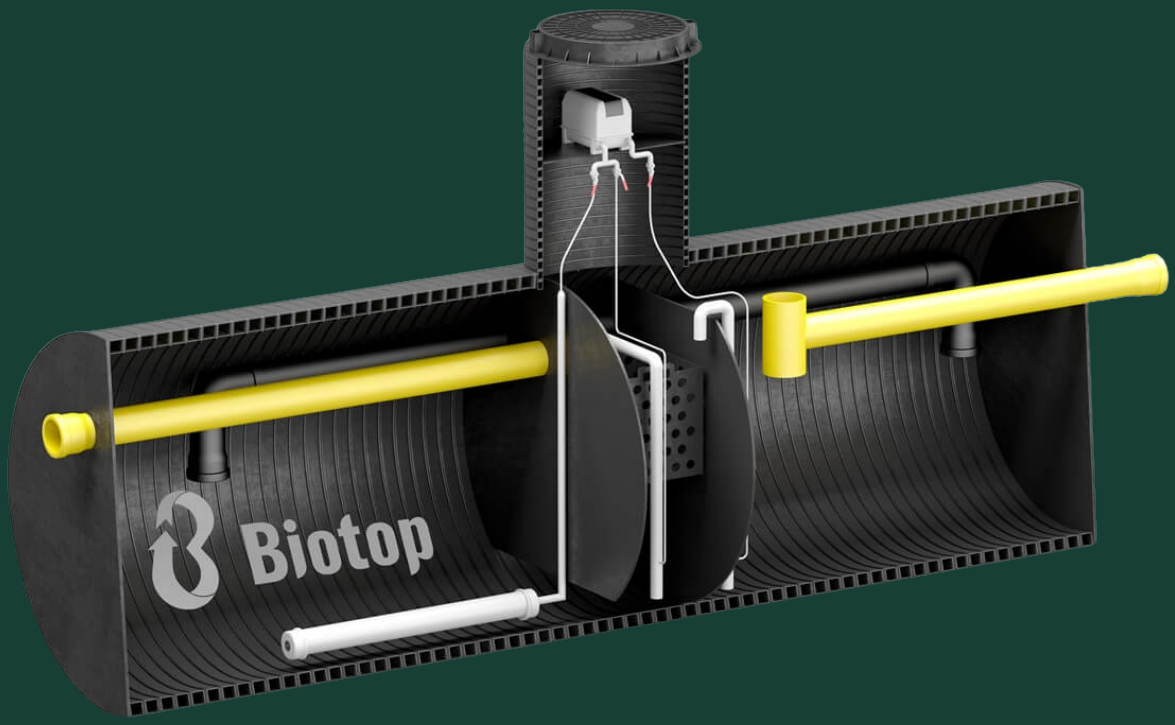
HORIZONTAL SERIES

BioTop Home

Product Passport and Owner's Guide



For the full BioTop Home range

BIOTOP HOME

Meet your BioTop Home system

For domestic wastewater from a private home without a central sewer connection.

Housing: airtight, high-quality polyethylene.

Operation: continuous biological treatment.

Equipment: two compressors - one for aeration and one for airlifts; aerators, airlifts and piping.

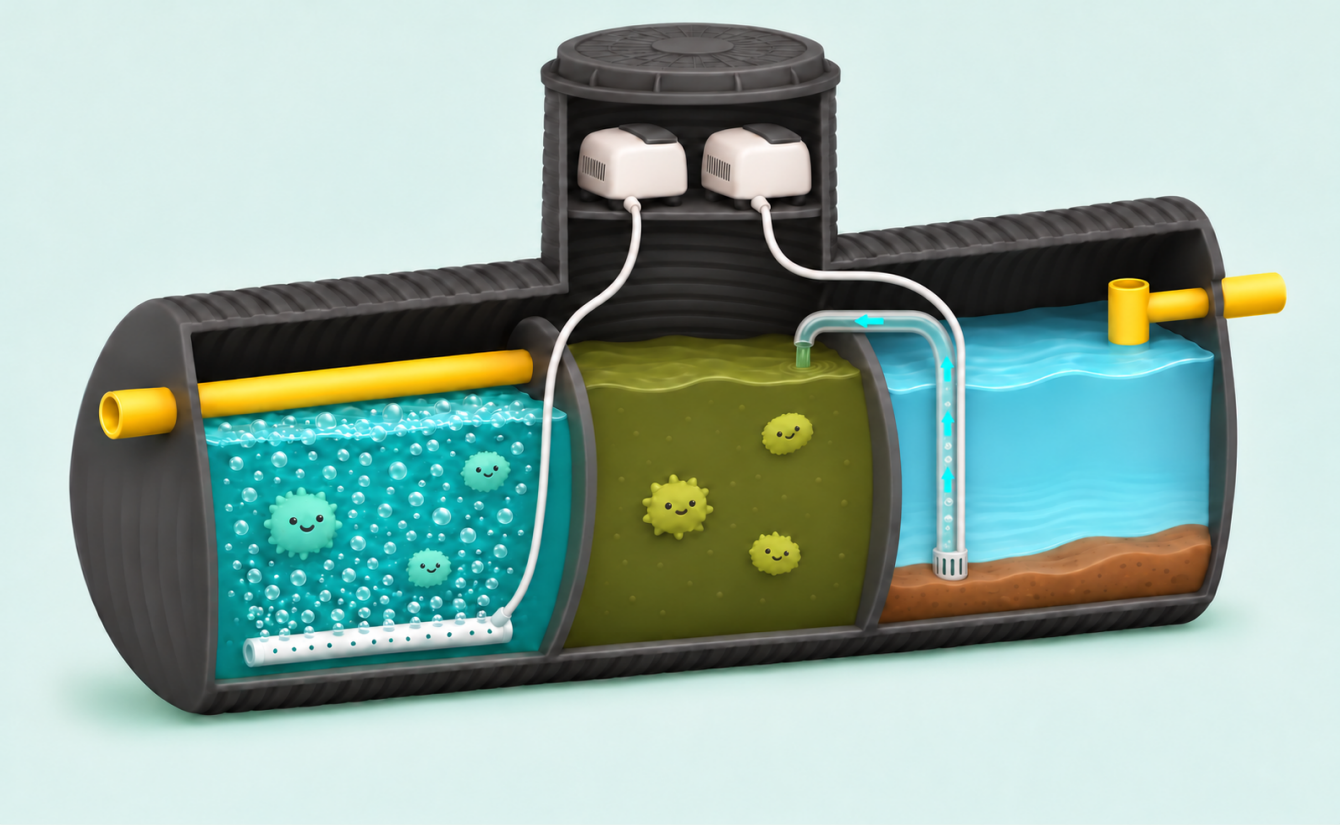


Model	Residents	m³/day	m³/h, max.	Length, mm	Diameter, mm	Neck height, mm (standard)	Compressors, qty.	Rated power, W
BioTop Home 4	2-4	0.80	0.56	2000	1000	500	2	2 × 55 = 110
BioTop Home 6	4-6	1.20	0.68	2500	1000	500	2	2 × 65 = 130
BioTop Home 8	6-8	1.60	0.78	3000	1000	500	2	2 × 65 = 130
BioTop Home 10	8-10	2.00	0.86	3500	1000	500	2	2 × 65 = 130
BioTop Home 12	10-12	2.50	0.94	4000	1000	500	2	2 × 65 = 130
BioTop Home 15	12-15	3.00	1.00	4500	1000	500	2	2 × 65 = 130

UP TO
98%
WATER TREATMENT

BioTop Home treatment technology

Pre-denitrification → aeration and nitrification → secondary settling.



Schematic process illustration showing the equipment and treatment zones.

Aeration compressor

Supplies air to the left chamber for aerobic microorganisms.

Airlift compressor

Moves the sludge mixture and provides internal recirculation.

LEFT CHAMBER

Aeration

Activated sludge oxidizes organic pollutants. Ammonium nitrogen becomes nitrates.

MIDDLE CHAMBER

Denitrification

Microorganisms use nitrates in the oxygen-free (anoxic) zone to remove nitrogen.

RIGHT CHAMBER

Secondary clarifier

Sludge settles out. Clarified water flows to the outlet.

How the airlift works. Air enters the lower part of the pipe and lifts the sludge mixture. The airlift returns part of the settled activated sludge from the secondary clarifier to the middle anoxic chamber. This recirculation retains biomass in the system and supports nitrogen removal.

Installation and initial start-up

Before excavation, agree on soil and groundwater conditions, inlet and outlet elevations, discharge method and service access. The housing is not designed for vehicle traffic.



1

Foundation and anti-flotation protection

Install the housing level. Where groundwater is high, use an engineered foundation and secure the housing to the slab.

2

Backfill with sand while adding water

Place clean sand in layers, free of large inclusions, while evenly filling the chambers with water. Do not backfill an empty housing.

3

Pipes, air and power

Provide the design gradients, watertight joints and power supply. Sewer risers must extend above the building roof to ventilate the entire sewer system.

4

Check before commissioning

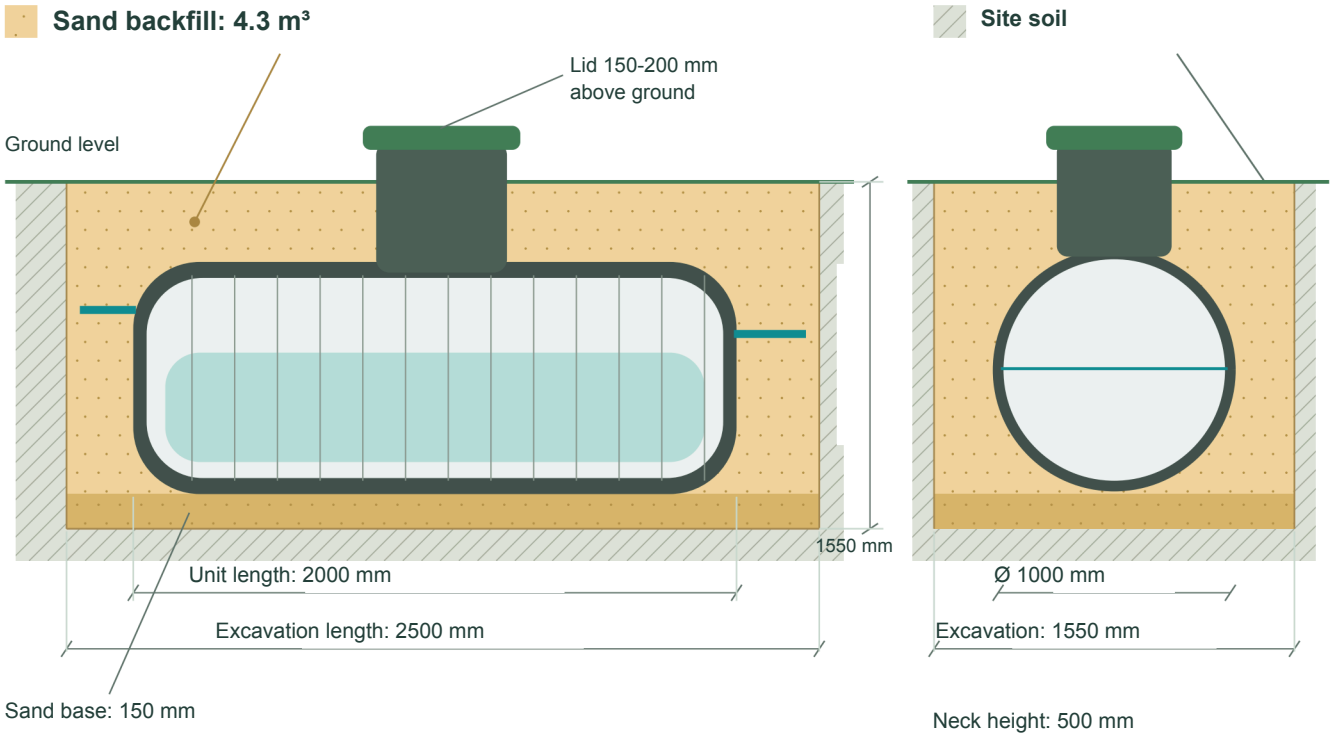
Check water levels, aeration, both airlifts and unobstructed discharge. If fitted, check the pump float and the complete start/stop cycle.

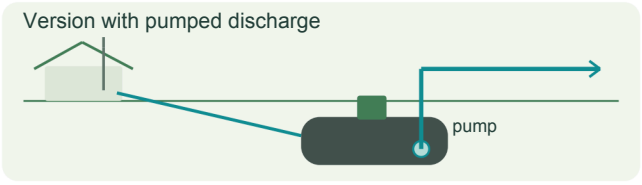
1-2 WEEKS AFTER START-UP

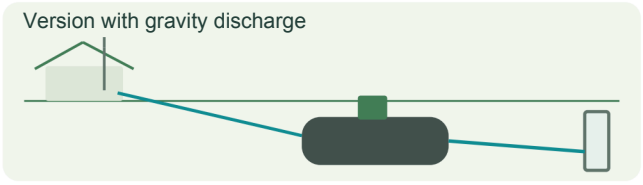
Ask the service team to check stable aeration and airlift flows. The biological process reaches stable operation gradually.

Installing your BioTop Home unit

* BioTop Home 4 is shown as an example. For other models, ask your company representative for the mounting drawing with the dimensions, sand quantity and filling-water volume for your unit.







Backfill with sand in layers while filling the chambers with water.

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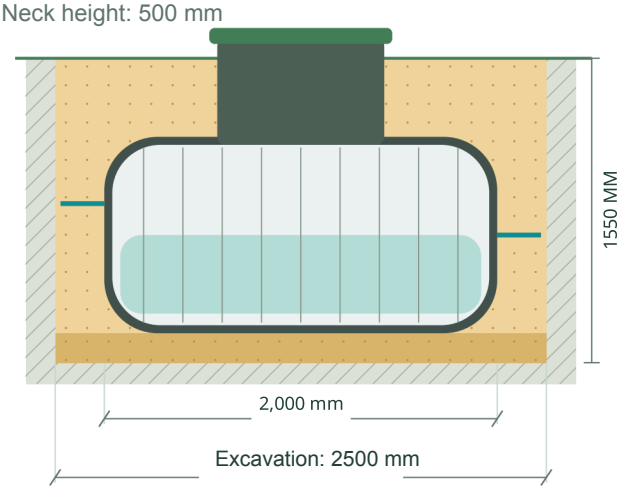
Parameter	BioTop Home 4	Parameter	BioTop Home 4
Excavation, m	2.5 × 1.55 × 1.55	Backfill sand	4.3 m³
Filling water	1.3 m³	Earthwork	6.0 m³
Sand base	150 mm	Neck above ground	150-200 mm
Unit weight	130 kg	Anti-flotation protection	To suit site conditions

BioTop Home unit dimensions

BioTop Home 4

Housing: 2000 × Ø 1000 mm

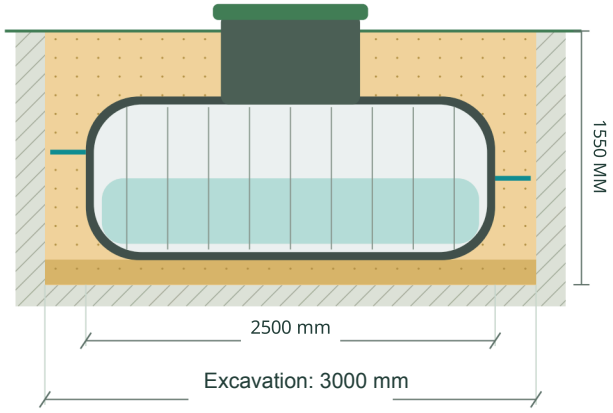
Neck height: 500 mm



BioTop Home 6

Housing: 2500 × Ø 1000 mm

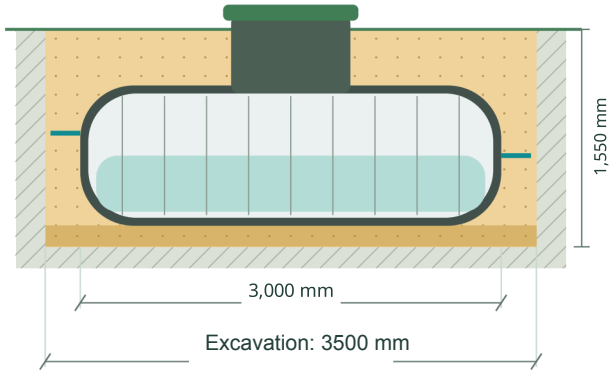
Neck height: 500 mm



BioTop Home 8

Housing: 3000 × Ø 1000 mm

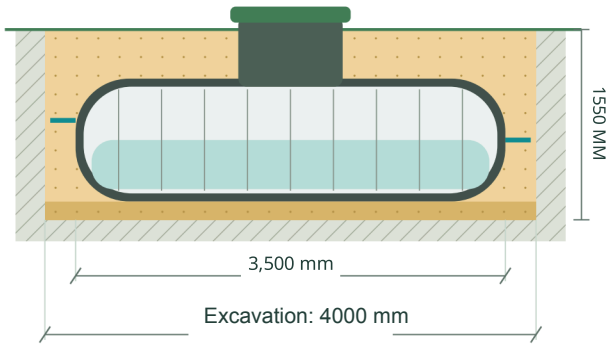
Neck height: 500 mm



BioTop Home 10

Housing: 3500 × Ø 1000 mm

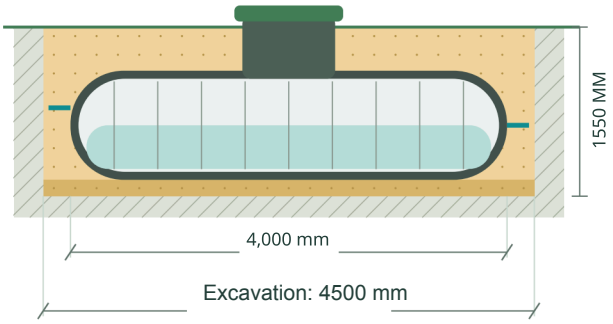
Neck height: 500 mm



BioTop Home 12

Housing: 4000 × Ø 1000 mm

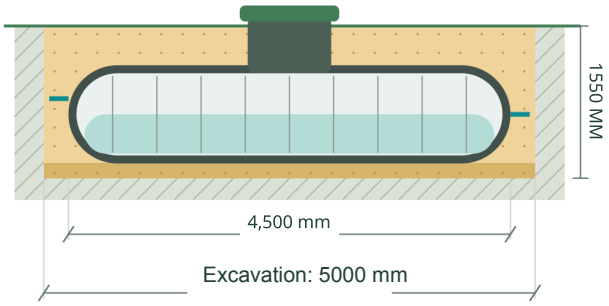
Neck height: 500 mm



BioTop Home 15

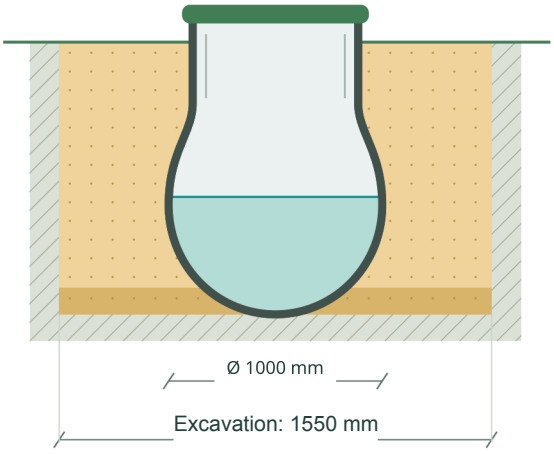
Housing: 4500 × Ø 1000 mm

Neck height: 500 mm



Cross-section

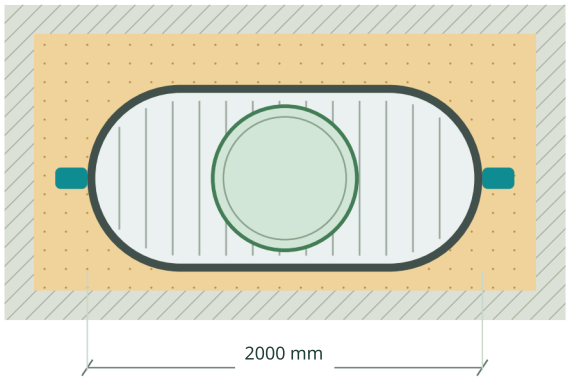
Standard BioTop Home version



Top view

Standard BioTop Home version

BioTop Home 4: 2000 × 1000 mm



Sand backfill

Daily operation



Domestic wastewater

Toilets, showers, sinks, washing machines and dishwashers - within the unit’s design capacity.

Operating mode

Compressors run continuously. Spread large discharges over time: an even inflow supports stable treatment.

Allowed

Ordinary toilet paper and household detergents at the recommended dosage, without concentrated chemical discharges.

Not allowed

Wipes, hygiene products, cat litter, clumps of fur or hair, construction debris, oils, paints, solvents and fuel. Stormwater, drainage water, pool water and backwash from water-treatment filters.

Safety

Keep the lid closed and prevent children from accessing the unit. Do not enter the tank, smoke near an open hatch or block ventilation.

Power outage

Reduce water use: pumped discharge may stop. If the level rises, stop discharging wastewater. After power is restored, check aeration and discharge.

Maintaining your BioTop Home unit

Disconnect power before work. Remove sludge in a controlled manner, considering groundwater levels and housing strength. Do not discharge sludge onto the property.



Frequency	Inspection and maintenance
Every month	Check both compressors, fine-bubble aeration, airlift flows and the secondary clarifier.
Every 6 months	Check sludge accumulation and remove excess sludge as necessary.
At least every two years	Completely pump out excess sludge and other accumulated matter from the unit.
Per equipment manual	Service compressor filters and diaphragms; if fitted, service the pump, float and alarms.

After removing sludge: refill the chambers evenly with clean water in small portions, alternating between chambers. Add no more than 20% of a chamber's volume in one cycle. Restore operating levels, switch on the equipment, then check air supply and discharge.

Going away for a while?



SHORT ABSENCE

Keep the unit operating

1 Leave water in the unit

Maintain normal operating levels in all chambers.

2 Maintain aeration

Keep both compressors on and ensure continuous power.

3 Check the discharge

The treated-water outlet must remain unobstructed.

4 Protect against freezing

In winter, keep the access neck and pipes protected from freezing.

MORE THAN TWO MONTHS

Prepare for conservation

1 Stop wastewater inflow

Prevent use of the sewer system during conservation.

2 Service the unit

Remove excess sludge if necessary. Restore operating water levels; do not leave the housing empty.

3 Protect the equipment

Disconnect power. Remove both compressors, label hoses and store in a dry room. Prepare the pump and pressure line according to the site drawing.

4 Close and insulate

Secure the lid, retain ventilation and check insulation of the access neck and pipes.

HELP AND CONTACTS

Something went wrong?

Start with a safe external check. A single symptom is not enough to establish the cause; ask the service team.

What you notice	What the owner should do
No aeration	Check the external power supply. If power is present but there is no air, call for service.
High level / overflow	Stop wastewater discharge. Check power and alarms; call for service.
Persistent odor	Report recent discharges and power outages. Ventilation, air supply and sludge need checking.
Cloudy water / sludge carryover	Reduce large discharges; request a check of load, recirculation and sludge.
Noise, overheating, burning smell	Switch off power using a safe external switch and contact a specialist.



Still have questions? Contact our service team.

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Visit our website

Product information

Complete at shipment and commissioning. Keep the passport, sales documents and installation report.

Model / version	**Shipment date / document**
Compressors: models / power	**Pump / additional options**
Installation address	**Installation contractor / phone**
Commissioning date / specialist	**Owner briefing / signature**

Warranty terms

Unit component	Warranty period
Housing	5 years
Structural components	1 year
Electrical equipment and compressor	1 year

The warranty starts on the date of shipment to the customer.
The installation contractor determines the installation warranty.

* Warranty terms apply upon presentation of the original product passport.

