

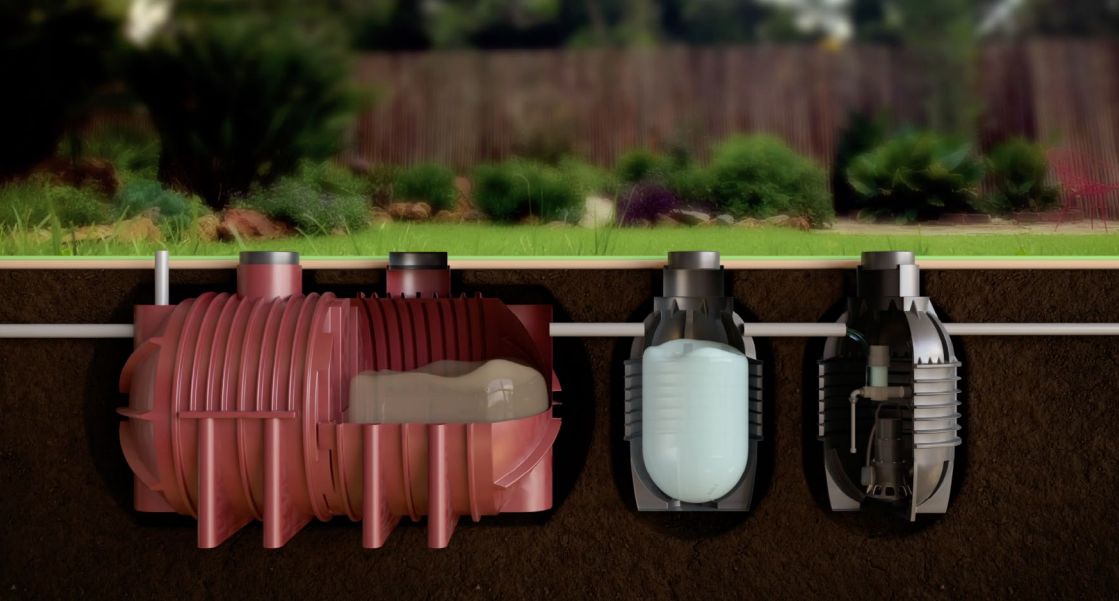


# Product Brochure

June 2023

FOR WATER FOR LIFE





## Product availability

Our product offering is divided into two core solution groups, and they are as follows:



Standard products

Products that are sold directly to end users and/or through specialist retailers and intermediaries such as plumbing/sanitation stores, selected building merchants and Co-ops. For a list of these retailers please contact us.



Value-added solutions

Solutions that are sold directly to owners, engineers, property developers and project managers. These solutions deal with specific on-site challenges and are normally sold together with compulsory supervision and commissioning components to ensure that they are installed as designed.

### Need help finding the right solution?

Get in touch and let one of our experts advise on a solution catered for your setup and application. Call us on 012 742 0900 or send an email to [sales@calcamite.co.za](mailto:sales@calcamite.co.za).

## Colour range

### Sanitation & wastewater range



Burnt Clay



Black

### Water storage & extended product range



Terracotta



JoJo Green



Wintergrass



Cloudy Grey



Khaki Brown



Stormy Sky



Bushveld



Royal Blue



White

### Note:

- Actual colours may vary.
- All products are manufactured in specific colours as part of our standard product offering, but can be made in any of these colours subject to practical terms and conditions.

## Who we are

We are an on-site sanitation solutions company. Our core business is the provision of solutions to treat domestic wastewater safely and effectively, for re-using purposes or to replenish aquifers. We have a proven track record and have been active in this space for more than 40 years.



Full turnkey solutions

## The solutions we offer

Our product range includes on-site sanitation solutions such as dry toilet systems and septic tanks, as well as a range of wastewater treatment solutions that can be customised for above and below-ground applications. In addition to our core product offering, we also manufacture specialist polymer products such as manholes, junction boxes and pumping chambers, we supply a range of accessories and add-ons to provide all-inclusive, ready-for-use solutions.

## Core solutions

1. Wastewater treatment plants
2. Septic and conservancy tanks
3. Underground modular tanks
4. Full turnkey solutions

- Brief from customer, design, manufacturing, transportation, installation and maintenance of wastewater treatment plants.
- Assistance with on-site challenges.
- Customised solutions for unique applications and projects.



## Product range

Through our product range, Calcamite provides solutions that protect a precious, life-giving resource and further advance water security in order to help safeguard the wellbeing of individuals, their communities and the environment.

## On-site wastewater management products



### Double Chamber SABS-certified septic tanks

Our distinctive, SABS-certified septic tanks incorporate the use of a double chamber to ensure better hydraulic efficiency, cleaner effluent discharge and an improved soakaway performance.

Size	Dimensions	Lid	Max people	Availability
1 500L	2020mm (h) x 1200mm (d)	460mm	up to 6	SP ●
*2 500L	1630mm (h) x 1340mm (w) x 2350mm (l)	460mm	up to 9	SP ●
3 000L	2026mm (h) x 1700mm (d)	460mm	up to 12	SP ●
*4 500L	2380mm (h) x 1700mm (d)	460mm	up to 15	SP ●
5 400L	2199mm (h) x 2400mm (d)	560mm	up to 25	SP ●

\*Note: SABS mark still to be finalised for the 2500L and 4500L double chamber septic tanks.

#### Did you know?



In order to acquire this certification, the following are examined:

- Material used
- Hydraulic efficiency
- Water tightness
- Structural integrity



5400L SABS septic tank



3000L Standard septic tank

### Standard septic tanks

Our septic tanks are supplied ready-for-use, making them quick to commission, easy to install and cost-effective.










- All septic tanks can be converted to conservancy tanks at no extra cost.
- The capacity of each tank has been calculated up to the tank outlet.

Size	Dimensions	Lid	Max people	Availability
1 000L	1294mm (h) x 1200mm (d)	460mm	up to 4	SP ●
1 500L	1640mm (h) x 1200mm (d)	460mm	up to 6	SP ●
2 500L	1250mm (h) x 1340mm (w) x 2350mm (l)	460mm	up to 9	SP ●
3 000L	1646mm (h) x 1700mm (d)	460mm	up to 12	SP ●
4 500L	2000mm (h) x 1700mm (d)	460mm	up to 15	SP ●
5 400L	1999mm (h) x 2400mm (d)	560mm	up to 25	SP ●





## Effluent disposal

Our range of infiltration chambers and aeration tiles provide more cost-effective and less invasive alternatives to standard soakaways or French drains.

Name	Dimensions	Application	Availability
Infiltration chamber	410mm (h) x 860mm (w) x 1370mm (l)	Promotes efficient effluent infiltration into the soil post septic tank treatment.	  
Infiltration chamber end cap	335mm (h) x 860mm (w) x 410mm (l)	Promotes efficient effluent infiltration into the soil post septic tank treatment.	  
Aeration tiles	140mm (h) x 280mm (w) x 1200mm (l)	Promotes efficient effluent infiltration into the soil post septic tank treatment.	  

## Interceptors

These watertight polyethylene chambers collect wastewater and then separate the solids, grease and fats before redirecting the water to a drainage system.

Size	Type	Dimensions	Max capacity	Availability
90L	Fat, oil and grease trap	640mm (h) x 570mm (w) x 630mm (l)	16L/min	 
500L	Sand, oil and grease trap	850mm (h) x 1000mm (w) x 1650mm (l)	153L/min	 
800L	Sand, oil and grease trap	1065mm (h) x 1000mm (w) x 1650mm (l)	252L/min	 
1000L	Sand, oil and grease trap	1250mm (h) x 1000mm (w) x 1650mm (l)	318L/min	 
3000L	Sand, oil and grease trap	1350mm (h) x 1000mm (w) x 4000mm (l)	740L/min	 
7500L	Sand, oil and grease trap	1590mm (h) x 1700mm (w) x 5100mm (l)	1380L/min	 



500L Interceptor



800L Interceptor







90L Interceptor

# On-site wastewater treatment plants



## Greywater systems

Allows you to manage and safely reuse your greywater for irrigation purposes. Supplied pre-assembled and ready-for-installation, they have been designed with ease of operation and maintenance in mind.

Name	Size	Dimensions	Lid	Electricity usage	Max people	Availability
Greywater mini	125L	832mm (h) x 500mm (w) x 500mm (l)	460mm	0.75kW	up to 6	 
Greywater basic	400L	1300mm (h) x 515mm (d) x 1045mm (l)	460mm	0.75kW	up to 10	 



Greywater mini



Greywater basic

### Includes:

- A tank, a submersible pump with a float switch and a calcium hypochlorite (plant-friendly chlorine derivative) disinfectant to remove potential disease-causing micro-organisms.
- The greywater basic includes an additional filter brush that removes hair, lint and other solid particles as the water enters into the tank.

### Additional requirements:











A standard 20mm hose for connection from the outlet to your irrigation system.

## Bio-mites

Our range of Bio-mites are wastewater treatment plants that process wastewater to a specified quality, typically to reuse for irrigation and other non-potable applications.

Bio-mites are available in the following configurations to allow for easy customisation as required:

- **Hybrid** – a combination of above and below-ground installation as per the space and setup requirements.
- **Below-ground** – all components are installed below-ground.
- **Above-ground** – all components are installed above-ground, with the exception of the pumping chamber/s.
- **Containerised** – all components are fitted into an above-ground container, with the exception of the pumping chamber/s.

Name	Capacity	Max people	Loading rate	Type	Availability
BM4	1KL	up to 4	0.24kg/day (B.O.D/day)	Above-ground Below-ground	 
BM10	2KL	up to 10	0.60kg/day (B.O.D/day)	Above-ground Below-ground	 
BM15	2.5KL	up to 15	0.9kg/day (B.O.D/day)	Below-ground	 
BM25	5KL	up to 25	1.50kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	 
BM35	6KL	up to 35	2.1kg/day (B.O.D/day)	Above-ground Below-ground	 

# On-site wastewater treatment plants



BM4

BM10

## Bio-mites (continued)

Name	Capacity	Max people	Loading rate	Type	Availability
BM50	10KL	up to 50	3.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM75	15KL	up to 75	4.50kg/day (B.O.D/day)	Above-ground Below-ground Hybrid	
BM100	20KL	up to 100	6.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM125	25KL	up to 125	7.50kg/day (B.O.D/day)	Above-ground Below-ground Hybrid	
BM150	30KL	up to 150	9.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM200	40KL	up to 200	12.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM250	50KL	up to 250	15.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM300	60KL	up to 300	18.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM350	70KL	up to 350	21.00kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM400	80KL	up to 400	24.0kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	
BM500	100KL	up to 500	30kg/day (B.O.D/day)	Above-ground Below-ground Hybrid Containerised	

**Note:** Our WWT plants as standard make use of chlorine as a disinfecting agent in the final contact tank. This process is implemented to kill the remaining biological contaminants in the treated wastewater. We find this method to be effective, affordable, robust and relatively simple to manage and control. Please note, there are alternative disinfection options and depending on your use of the treated water, disinfection may not be required. Please enquire for more details on **012 742 0900** or send an email to [sales@calcamite.co.za](mailto:sales@calcamite.co.za).

# On-site wastewater treatment plants

## Bio-reactors

Each of our wastewater treatment plants contain a Bio-reactor which allows bacteria to grow and break down the biodegradable waste, before final settlement and disinfection occurs. Bio-reactors are sold separately for applications where existing wastewater storage systems need to be converted into wastewater treatment plants.

### Bio-reactors are available in the following configurations:

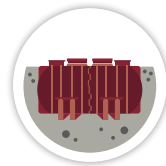
- **Below-ground** – normally gravity-fed.
- **Above-ground** – fed via submersible pump that is housed in a pumping chamber.

Name	Capacity	Type	Name	Capacity	Type
BR4	1KL	Above-ground Below-ground	BR150	30KL	Above-ground Below-ground
BR10	2KL	Above-ground Below-ground	BR200	40KL	Above-ground Below-ground
BR25	5KL	Above-ground Below-ground	BR250	50KL	Above-ground Below-ground
BR35	6KL	Above-ground Below-ground	BR300	60KL	Above-ground Below-ground
BR50	10KL	Above-ground Below-ground	BR350	70KL	Above-ground Below-ground
BR75	15KL	Above-ground Below-ground	BR400	80KL	Above-ground Below-ground
BR100	20KL	Above-ground Below-ground	BR500	100KL	Above-ground Below-ground
BR125	25KL	Above-ground Below-ground			

Availability



# Underground modular tanks



## Septic, conservancy and water storage

The unique apex rib design of our modular tanks not only ensures that they are the strongest in the market, but also makes them easy to customise, scale, commission and install.

Size	Dimensions	Lid	Application	Availability
5500L	2416mm (h) x 2265mm (w) x 2567mm (l)	1 x 560mm 1 x 460mm	Septic, conservancy or water tank	SP ●
9500L	2416mm (h) x 2265mm (w) x 4166mm (l)	2 x 560mm 1 x 460mm	Septic, conservancy or water tank	SP ●
15 500L	2200mm (h) x 2100mm (w) x 5800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
21 500L	2200mm (h) x 2100mm (w) x 7800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
27 500L	2200mm (h) x 2100mm (w) x 9800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
33 500L	2200mm (h) x 2100mm (w) x 11800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
39 500L	2200mm (h) x 2100mm (w) x 13800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
45 500L	2200mm (h) x 2100mm (w) x 15800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
51 500L	2200mm (h) x 2100mm (w) x 17800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
57 500L	2200mm (h) x 2100mm (w) x 19800mm (l)	560mm	Septic, conservancy or water tank	VAS ●
63 500L	2200mm (h) x 2100mm (w) x 21800mm (l)	560mm	Septic, conservancy or water tank	VAS ●

### Benefits:

- Rapid, cost-effective and scalable underground installations
- Easy to operate and maintain
- Unique inter-connecting system provides structural integrity
- Suited for water and wastewater storage, as well as wastewater treatment plants

### Application:

Note: it is important to specify what the tank will be used for when placing your order to ensure that the internal plumbing and connections are fitted as per the desired application.



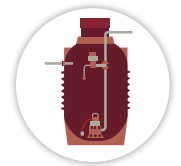
5500L Modular tank



9500L Modular tank



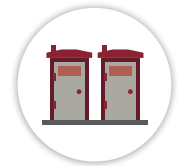
# Pumping chambers



Our watertight polyethylene pumping chambers are typically used as an underground collection and redistribution point for wastewater treatment plants.

Size	Dimensions	Lid	Availability
1000L	1326mm (h) x 1333mm (d)	560mm	SP ●
1500L	2050mm (h) x 1333mm (d)	560mm	SP ●

# On-site sanitation



## Dry sanitation

Our range of on-site sanitation solutions includes standard pit toilets, mobile toilets, and more sophisticated Eco-mite toilets that enable flushing without a sewer connection.

Name	Dimensions	Max people	Application	Availability
Pit toilet	670mm (h) x 1360mm (w) x 2130mm (l)	n/a	Areas where access to water and sewer connections are limited or not feasible	SP ●
Portable toilet	2280mm (h) x 1235mm (w) x 1300mm (l)	n/a	Construction sites or events where a temporary toilet solution is required	SP ●
Eco-mite mini	1600mm (h) x 1000mm (w) x 1600mm (l)	6 people	Areas where access to water and sewer connections are limited or not feasible	SP ●
Eco-mite maxi	1850mm (h) x 1200mm (w) x 2200mm (l)	6 to 20 people	Areas where access to water and sewer connections are limited or not feasible	SP ●
Eco-mite mega	2000mm (h) x 1100mm (w) x 2050mm (l)	20 to 40 people	Areas where access to water and sewer connections are limited or not feasible	SP ●



1000L Pumping chamber

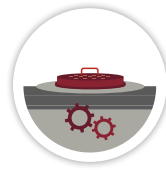


Eco-mite maxi



Pit toilet

# Infrastructure products



## Manholes and inspection chambers

Designed with ease-of-use and rapid installation in mind, our range of manholes and inspection chambers are lightweight, durable, abrasion-resistant and compatible with a wide variety of piping systems and unique on-site installation requirements.

Name	Size	Dimensions	Lid	Availability
Manhole	1000mm	1000mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Manhole	1250mm	1250mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Manhole	1500mm	1500mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Manhole	1750mm	1750mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Manhole	2000mm	2000mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Manhole	2250mm	2250mm (h) x 1101mm (d) x 1280mm(l)	560mm	<span>SP</span> ●
Inspection chamber	250mm	316mm (h) x 500mm (d) x 600mm (l)	460mm	<span>SP</span> ●●
Inspection chamber	500mm	624mm (h) x 500mm (d) x 600mm (l)	460mm	<span>SP</span> ●●
Inspection chamber	750mm	815mm (h) x 500mm (d) x 600mm (l)	460mm	<span>SP</span> ●●
Inspection chamber	1000mm	1107mm (h) x 500mm (d) x 600mm (l)	460mm	<span>SP</span> ●●

## Step irons

Made from durable copolymer polypropylene, our step irons encapsulate a 12mm high tensile reinforcement steel bar, can handle a mass of 500 grams per step and are ideal for all types of corrosive environments.

Name	Dimensions	Application	Availability
Step iron (long leg)	70mm (h) x 150mm (w) x 185mm (l)	Brickwork	<span>SP</span> ●●
Step iron (medium leg)	50mm (h) x 150mm (w) x 185mm (l)	Concrete	<span>SP</span> ●●

## Draw and junction boxes

Our range of polyethylene junction boxes are robust, non-conductive underground cable-joining chambers that are easy to install in a variety of configurations.



Name	Size	Dimensions	Lid	Availability
Draw box	850mm	850mm (h) x 1000mm (d)	560mm	<span>SP</span> ●●
Draw box	1050mm	1050mm (h) x 1000mm (d)	560mm	<span>SP</span> ●●
Draw box	1350mm	1350mm (h) x 1000mm (d)	560mm	<span>SP</span> ●●
Square junction box	500mm	510mm (h) x 500mm (w) x 500mm (l)	460mm	<span>SP</span> ●●

# Water storage tanks



## Vertical water tanks

All our water tanks are made with UV-stabilised polyethylene to withstand the harsh African climate, comply with the national tank standards for water tanks (SANS 1731:2017) and come with a 10-year warranty.

Size	Dimensions	Lid	Availability
1000L	1180mm (h) x 950mm (d)	335mm	<span>SP</span> ●●●●
2500L	2110mm (h) x 1300mm (d)	335mm	<span>SP</span> ●●●●
5000L	2529mm (h) x 1795mm (d)	335mm	<span>SP</span> ●●●●
7500L	1750mm (h) x 2300mm (d)	420mm	<span>SP</span> ●●●●
10000L	2690mm (h) x 2300mm (d)	335mm	<span>SP</span> ●●●●

## Stackable water tanks

The unique stackable design of these water storage tanks allows for more efficient transport, as well as rapid rollout of large-scale projects.

Size	Dimensions	Lid	Availability
2000L	1700mm (h) x 1538mm (d)	335mm	<span>SP</span> ●●●●
2500L	1916mm (h) x 1695mm (d)	335mm	<span>SP</span> ●●●●
5000L	1969mm (h) x 2174mm (d)	335mm	<span>SP</span> ●●●●

## Horizontal water tank

The distinctive design of our horizontal tank provides structural integrity to ensure a fit-for-purpose, tough tank. Although typically used for mobile water storage, it is also ideal for stationary installations with height restrictions.

Size	Dimensions	Lid	Availability
5000L	1550mm (h) x 2049mm (w) x 2700mm (l)	420mm	<span>SP</span> ●●●●



## Urban water tanks

Our urban range is ideal for installations where space is limited and aesthetics are a concern. Made in a variety of shapes and sizes, there is sure to be a fit for your unique application.

Size	Type	Dimensions	Lid	Availability
260L	Round tank	900mm (h) x 650mm (d)	400mm	SP ● ● ● ●
400L	Patio pot	1350mm (h) x 500mm (w) x 900mm (l)	400mm	SP ● ● ● ●
500L	Round tank	1000mm (h) x 650mm (d)	400mm	SP ● ● ● ●
650L	Slimline tank	2050mm (h) x 650mm (d)	400mm	SP ● ● ● ●
850L	Oval tank	1200mm (h) x 900mm (w) x 1100mm (l)	400mm	SP ● ● ● ●
950L	Slimline tank	1900mm (h) x 850 (d)	400mm	SP ● ● ● ●
1000L	Round tank	1200mm (h) x 1100 (d)	400mm	SP ● ● ● ●
1200L	Oval tank	1700mm (h) x 900mm (w) x 1100mm (l)	400mm	SP ● ● ● ●
1600L	Slimline tank	2670mm (h) x 900mm (d)	400mm	SP ● ● ● ●
2200L	Slimline tank	2150mm (h) x 800mm (w) x 1900mm (l)	400mm	SP ● ● ● ●
3000L	Slimline tank	2080mm (h) x 880mm (w) x 2505mm (l)	400mm	SP ● ● ● ●

## Pool backwash tank

Our pool backwash range consists of 260 and 500 litre tanks, each supplied with a unique combination of accessories and fittings that enable you to reclaim, store and reuse pool backwash water in order to reduce water use and limit wastage.

Size	Dimensions	Lid	Availability
260L	956mm (h) x 650mm (d)	410mm	SP ● ●
500L	1162mm (h) x 840mm (d)	410mm	SP ● ●



500L Pool backwash



400L Patio pot



1000L Round tank



2200L Slimline

## Lids, extensions & rubber seals



In addition to our core product offering we also manufacture and supply a range of accessories and add-ons to provide all-inclusive, ready-for-use solutions.

Name	Dimensions/Size	Application
Lid extension	460mm (d) x 100mm (h)	Suitable for use with our inspection chambers
Lid extension	460mm (d) x 200mm (h)	Suitable for use with our inspection chambers
Lid extension	460mm (d) x 300mm (h)	Suitable for use with our septic tanks up to 4500L, underground modular tanks, as well as the greywater basic and mini
Lid extension	560mm (d) x 150mm (h)	Suitable for use with our 5400L septic tanks and underground modular tanks
Lid extension	560mm (d) x 500mm (h)	Suitable for use with our manholes and inspection chambers
Rubber seal gasket	32mm	Used to ensure a watertight seal for connections
Rubber seal gasket	50mm	Used to ensure a watertight seal for connections
Rubber seal gasket	110mm	Used to ensure a watertight seal for connections
Rubber seal gasket	160mm	Used to ensure a watertight seal for connections
Lid	460mm	Supplied standard with our septic tanks up to 4500L, underground modular tanks, greywater tanks, inspection chambers and square junction box
Lid	560mm	Supplied standard with our 5400L septic tanks, underground modular tanks, manholes, pumping chambers and draw boxes





# Need help finding the right solution?

Get in touch and let one of our experts advise on a solution catered for your setup and application.

**Contacts us**

[www.calcamite.co.za](http://www.calcamite.co.za)

**Tel:** 012 742 0900

**Email:** [sales@calcamite.co.za](mailto:sales@calcamite.co.za)

**Fax:** 086 645 0542

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Klerksoord, Pretoria, 0200

**FOR WATER FOR LIFE**

