

# Euro:Septic / Septic tanks

## Economical storage and disposal of domestic wastewater

### Overview

The Euro:Septic offers significant technical improvements and cost-savings over current market options.

The range, available in capacities from 2800-4500 litres, is CE marked to comply with Construction Product Regulations and complements the company's existing range of horizontal septic tanks.

The Euro:Septic is tested and certified to EN12566-1 Annex B and benefits from an outstanding hydraulic efficiency of 99.63%. Horizontal septic tanks are also tested and certified to EN12566-1.

Marsh standard horizontal septic tanks are available in capacities from 2800-20,000+ litres, and are tested for material impact integrity and the impingement of flame.

### Operating principle

Normally the simplest and most economical means of treating wastewater from small developments, a septic tank holds sewage and allows solids to settle into sludge at the bottom of the tank. Here it is naturally broken down by a process known as anaerobic digestion, which provides settlement and some biological treatment. The effluent is not fully treated and must receive additional treatment before discharge to the water environment – the most common method being to spread the effluent to land via an underground drainage field (Designed in accordance with BS6297).

### Key

- 1 Inlet
- 2 Settlement chamber
- 3 Polylok filter (Euro:Septic units only)
- 4 Outlet
- 5 Access cover

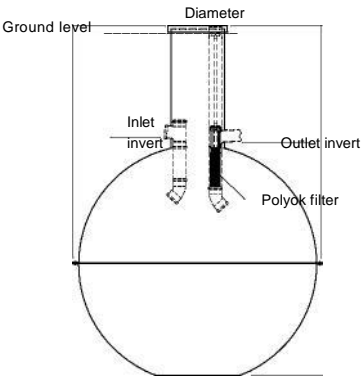
### Benefits

- Tested to BSEN12566:1 and CE-marked to ensure compliance with latest environmental and Building Regulations requirements
- Traditional 'onion-style' tanks for standard installations
- Low profile versions for high water table or hard rock site conditions
- Unique Polylok filter improves effluent quality and prolongs drainage field life (Euro:Septic units only)
- Heavy duty shell as standard to enable installation in all ground conditions
- Integral lifting eyes for improved on-site handling
- 'Keying-in' assists anchoring into granular or concrete surround
- Pedestrian cover included as standard



# Specifications

## Euro:Septic

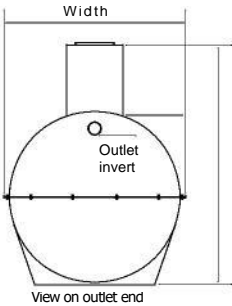
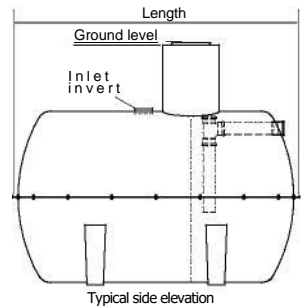


Typical side elevation  
> For precise tank sizes and configurations, please contact Marsh Industries >  
All dimensions in mm

Size	Dia	Height	Inlet Invert	Ø	Outlet Invert	Ø
2800L	1870	2780	1000	110	1040	110
3800L	2075	3000	1000	110	1040	110
4500L	2196	3100	1000	110	1040	110

## Horizontal septic tanks

Size	Length +/-50mm	Width +/-50mm	Height +/-50mm	Inlet		Outlet	
				Invert	Ø	Invert	Ø
2800L	3000	1250	1750	500	110	800	110
3800L	4000	1250	1750	500	110	800	110
4500L	2650	1600	2100	500	110	800	110
6000L	2950	1900	2400	500	110	800	110
8000L	3640	1900	2400	500	160	800	160
10000L	4200	1900	2400	500	160	800	160
12000L	5200	1900	2400	500	160	800	160
14000L	5840	1900	2400	500	160	800	160
16000L	6700	1900	2400	500	160	800	160
18000L	7500	1900	2400	500	160	800	160
20000L	8100	1900	2400	500	160	800	160



## Discharge options

- A septic tank can only be discharged in the following ways:
- 1 To an existing foul sewer  
This may not be possible in remote locations, although pump chambers can be used to direct wastewater to the mains sewer.
  - 2 To a drainage field, designed in accordance with BS6297  
This allows the septic tank to discharge wastewater into the ground. In many cases, the installation of a drainage field is not possible due to site constraints such as space and/or the soil not having sufficient drainage potential (ie, rock, clay, high water table). If this is the case, then a Marsh Ensign package sewage treatment plant may be required.

# Cesspools

## Basic storage and disposal of off-mains wastewater

### Overview

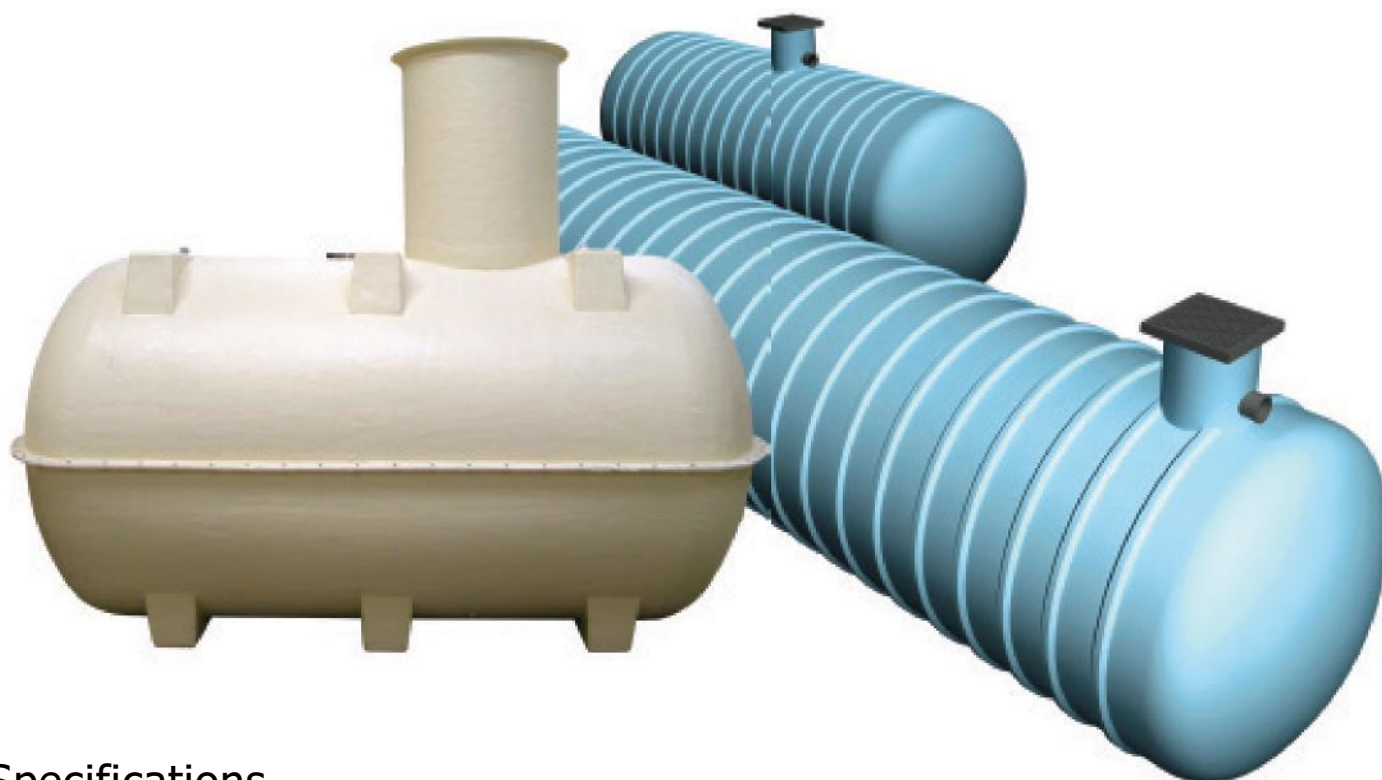
A cesspool is a covered, watertight tank used for storing sewage. It has no outlet and relies on road transport for the removal of raw sewage. No treatment is involved.

Available in capacities up to 20,000 litres, the tanks are manufactured using GRP (virgin unfilled resin - no 'fillers' such as chalk) providing consistent wall thickness ensuring superior structural strength and durability. This also enables the tank to be significantly lighter for on-site handling/positioning and better suited to withstand greater hydrostatic pressures when in use.

The tanks are supplied with a chemically resistant gel-coat that protects the fibres in the laminates and provides excellent water and chemical resistance. This inherent integrity allows Marsh to offer an unrivalled 50 year design life, backed by a 25 year structural guarantee.

### Benefits

- Available in capacities from 2800-20,000 litres
- Designed to meet latest UK and European standards
- Heavy duty shells enable installation in all ground conditions
- Variable invert depths and orientations to suit individual site conditions
- Optional high-level alarm available
- Guaranteed for 25 years with a design life of 50 years



### Specifications

Model	Length	Width	Height	Inlet	
				Invert	Ø
AT2800	3000	1250	1750	500	110
AT3800	4000	1250	1750	500	110
AT4500	2650	1600	2100	500	110
AT6000	2950	1900	2400	500	160
AT8000	3640	1900	2400	500	160
AT10000	4200	1900	2400	500	160
AT12000	5200	1900	2400	500	160
AT14000	5840	1900	2400	500	160
AT16000	6700	1900	2400	500	160
AT18000	7500	1900	2400	500	160
AT20000	8100	1900	2400	500	160

> All dimensions in mm

> For precise tank sizes and configurations, please contact Marsh Industries

### Guidance notes

- For domestic applications cesspools should have a capacity below the level of the invert of at least 18,000ltrs for two users, and should be increased by 6800ltrs for each additional user. Cesspools for commercial premises have no such restrictions
- Installation of a high level alarm is recommended to indicate when it is nearly full
- Whoever empties your cesspool (or septic/PSTP) should be a registered Waste Carrier and hold a current discharge licence from the local water authority
- Use of cesspool is not permitted in Scotland