

The **natural solution** for advanced sewage treatment, phosphate and nitrate removal



- 84% biological reduction of nitrates
- Exceeds nitrate targets to enable site development
- Certified performance in reducing COD, BOD, and Suspended Solids



SBR technology for superior nitrate reduction

Overview

Marsh Industries proudly presents the Marsh Nutra-Lite, an advanced Sequential Batch Reactor (SBR) sewage treatment plant designed to enhance effluent quality for off-mains wastewater systems and significantly reduce biological nitrates.

The Nutra-Lite is available in capacities catering to sites for up to 50 people. With state-of-the-art technology and rigorously tested, the Nutra-Lite sets a new standard for sustainable wastewater management.

Can be supplied as a complete system, combined with the Marsh Phos-Lite. See page 5 for Phos-Lite details.

Features

Outstanding discharge quality

The Nutra-Lite boasts the highest overall discharge quality of any plant available today. A unique self-cleaning, self-sealing sediment reduction valve ensures total control over suspended solids. No mechanical parts provide reliability and efficiency.

Nutra-Lite not only excels in phosphate and nitrate removal but also significantly reduces other key effluent constituents:

COD	95.8%	33mg/l
BOD	98.7%	4 mg/l
TNb	83.9%	11.1mg/l
NH ₄ n	99.1%	0.5mg/l
Ptot	34.3%	6mg/l
SS	97.1%	11mg/l

SBR technology for superior nitrate reduction

The Nutra-Lite harnesses SBR technology, achieving an impressive 84% biological reduction in nitrates. Unlike traditional methods, no chemicals or carbon are used – just biological processes.

Remote configuration and adaptability

Unique to Marsh Industries, the Nutra-Lite can be adapted to seasonal changes in biological treatment, ensuring optimal year-round performance. Remote configuration allows adjustments based on ongoing nitrate reduction research.

Secure telemetry and alarm monitoring

All Nutra-Lite plants feature bi-directional communication for maintenance and monitoring. Telemetry options include mobile connectivity or homeowner Wi-Fi/internet.

Efficiency and cost savings

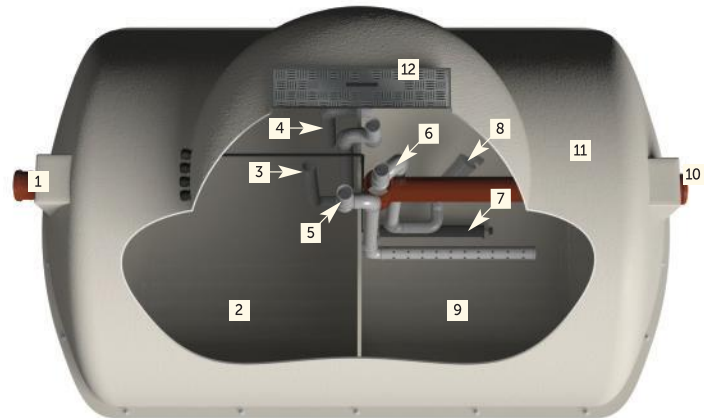
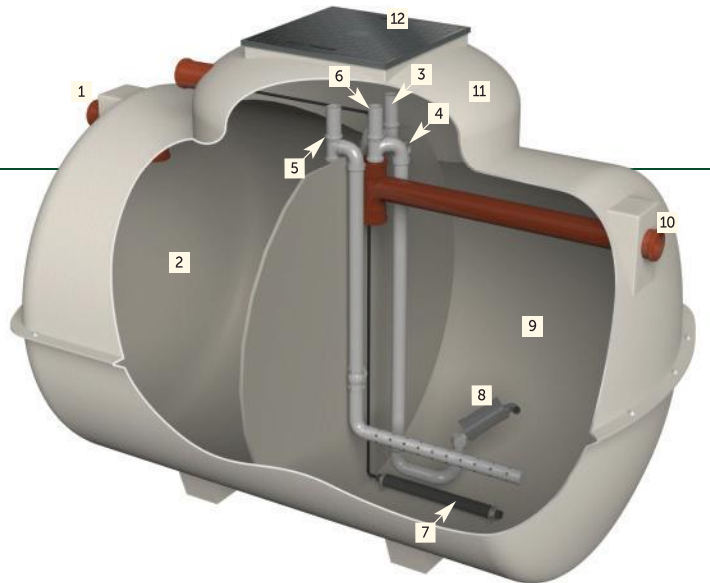
A single compressor minimises electrical power consumption without compromising performance. Economy mode further reduces running costs during process changeovers.

Certified performance

Rigorously tested at the world-leading notified test centre, PIA GmbH, in Aachen, Germany, the Nutra-Lite is certified to BS EN 12566-3 after 50 weeks of continuous testing. This system holds accreditation to EN12566-3 Annex B for systems of up to 50 Population Equivalent (PE) and complies with the UK Forward for BSEN12566-3, demonstrating its reliability and effectiveness.

Material strength and fire safety

Marsh Industries' GRP material successfully meets the requirements of EN ISO 11925-2:2010 standards and is tested for direct flame impingement. All units come with a 25-year structural guarantee.



Key

- | | |
|-----------------------------------|----------------------------|
| 1 Inlet | 7 Air diffuser |
| 2 Primary chamber | 8 Sediment reduction valve |
| 3 Inflow air-lift pipework | 9 Secondary chamber |
| 4 Overflow pipework | 10 Outlet |
| 5 Recirculation air-lift pipework | 11 Heavy duty GRP shell |
| 6 Outflow air-lift pipework | 12 Access cover |

Specifications

Model (Pop)	PE	Length +/-50mm	Width +/-50mm	Height +/-50mm	Inlet		Outlet	
					Invert	Ø	Invert	Ø
NL6	4-6PE	2602	1680	1865	550	110	625	110
NL10	7-10PE	2862	1952	2139	550	110	625	110
NL16	11-16PE	3612	1952	2284	600	110	675	110
NL20	17-20PE	4252	1952	2284	600	110	675	110
NL25	21-25PE	5252	1952	2284	600	110	675	110