DRAINAGE AND INTERCEPTOR MAINTENANCE/WATER SUSTAINABILITY

Andel Modular Wastewater Treatment Plant

A robust, safe and reliable solution for effective community sewage treatment where there is no access to a collective sewage system

Overview

Designed for communal sewage treatment at hotels, guest houses, farms, housing estates, schools, nursing homes, health centres, community centres and museums – any multi-occupancy or visitor facility with no access to a sewage system. The standard Pro50 supports fifty people; for smaller or larger requirements, alternative sizes from Pro24 to Pro150 are available on enquiry.

Construction

The construction uses high-density polyethylene (HDPE), offering lower installation costs compared to other materials which often require a concrete foundation. Grass, flowers and small bushes can be planted above the installation for aesthetic landscaping, and lockable hatches enable straightforward servicing access.

Smart management

Smart management functions operate automatically via microprocessor control, with automatic system restart following power failure and visual / audible alarm systems.

Benefits at a glance

- HDPE construction provides a robust and durable tank
- Lightweight, chemical, pH and frost resistant
- Cheaper, quicker and easier to install than traditional GRP tanks
- Lower installation and maintenance costs
- Quick return on investment due to low operating costs
- Grass, flowers and bushes plantable above installation for aesthetic landscaping
- Leak-tight and resistant to soil layer movement
- 10-year tank warranty
- High treatment efficiency
- Moving bed biofilm reactor (MBBR) provides maximum efficiency in a reduced space, continuous treatment and the ability to withstand peak loads and flow variations
- Effective anti-odour filters
- Built-in electric shock protection fuses
- Lockable hatches for safety and access hatches for ease of servicing
- Available with PKP 950 cover
- Compliant with BS EN 12566-1 plus A1:2006

Warranty: 10-year tank warranty

Configurations

Pro50
L 7,280mm × W 2,240mm × H 2,811mm
50 PE; 7.5 m³/d; 25,000 L.
Other sizes Pro24–Pro150 on enquiry

TECHNICAL INFORMATION

PRO50 PERFORMANCE

Population equivalent: 50

Performance: 7.5 m³/d

Total volume: 25,000 L

Area demand: 17.3 m²

CHAMBERS

Chamber 1 – sludge tank: 5,000 L

Chamber 2 – preliminary clarifier: 10,000 L

Chamber 3 – aeration chamber: 5,000 L

Chamber 4 – secondary clarifier: 5,000 L

Additional: Outlet sump; control cabinet (blowers, pump power supply). Further chambers can be added as required

DIMENSIONS

Length: 7,280mm

Width: 2,240mm

Height with extension: 2,811mm

Inlet / outlet: Ø200mm / Ø200mm

Weight: 1,750kg

CONSTRUCTION

Material: High-density polyethylene (HDPE)

Technology: Moving bed biofilm reactor (MBBR)

Control: Microprocessor controller, automatic restart after power failure, audible and visual alarms

Cover: PKP 950 available

Warranty: 10-year tank warranty