

# **P PREMIER TECH AQUA**

*Proposed system to be installed as  
recommended by All Pumps of St. Clears  
Carmarthen*



**Solido<sup>®</sup>**  
**SMART**

[PREMIERTECHAQUA.CO.UK](http://PREMIERTECHAQUA.CO.UK)



# The new generation in **Decentralised** **Wastewater Treatment**

The Solido® SMART from Premier Tech Aqua UK, is a decentralised wastewater treatment plant and the perfect solution for residential and commercial projects where mains drainage is unavailable.

Serving a population of up to 12PE and fast becoming the industry's system of choice; this low-profile unit offers a reliable design and low installation costs.

Installed to treat wastewater with minimal impact on the environment, typical applications include single dwellings, small communities or due to its very high performance, sites of special scientific interest (SSSI) such as National Trust sites.

#### **Superior Technical Performance**

The highly successful Solido SMART is designed and tested in accordance with EN12566-3:2005 and the British Water Code of Practice for Flows and Loads. This plant will produce a final effluent quality better than 10:20:5 (BOD:SS:NH<sub>3</sub>) with a CE mark for 5:13:0.7



#### **How it works**

Solido SMART combines the benefits of an ultra-compact solution with the trusted performance of Solido technology. Integrating with SBR technology comparable to large municipal applications, the proven technology operates with direct aeration of the wastewater and without the need for primary treatment. This simple principle provides efficient wastewater treatment results without the emission of any odours.

# Solido® SMART

## State of the art SBR Treatment

### Advanced Technical Qualities

The Solido SMART solution makes decentralised wastewater treatment easier and more efficient than ever. Trust its high-quality design and durable components to provide long-term performances and peace of mind.

- Low operational cost, offering long term savings.
- Discrete and silent treatment plant.
- Reduced installation and maintenance costs, Solido SMART tanks are lightweight, compact and have low installation depth requirements.
- Fully CE marked. Designed and tested in accordance with EN 12566-3.
- HDPE material - durable, recyclable and impact resistant.

### 1. Technology Capsule

Safely housed in the capsule, the compressor requires only 0.81 - 0.9375 kWh/d for 6 – 12 PE plants respectively - providing an efficient and quiet treatment without disturbance to the homeowner.

### 2. Tube Diffuser

The incoming wastewater is immediately supplied with oxygen to ensure a very efficient and odourless treatment.

### 3. The SMART Pipe

Slows down the incoming influent and simplifies inspections. Makes part desludging safe and easy.

### 4. Sampling Port

Easy to service. Includes an overflow protection.

### 5. Clearwater Air Lift

The patented self-flushing airlift prevents sludge loss and ensures high performances.

## Peripherals Available

### Extension Kit

Deeper inverts can be accommodated by means of extension shafts. Extension shafts are available and can be supplied in 150mm and 300mm increments to give a maximum crown of tank burial depth of 1000mm.

### Package Pump Station

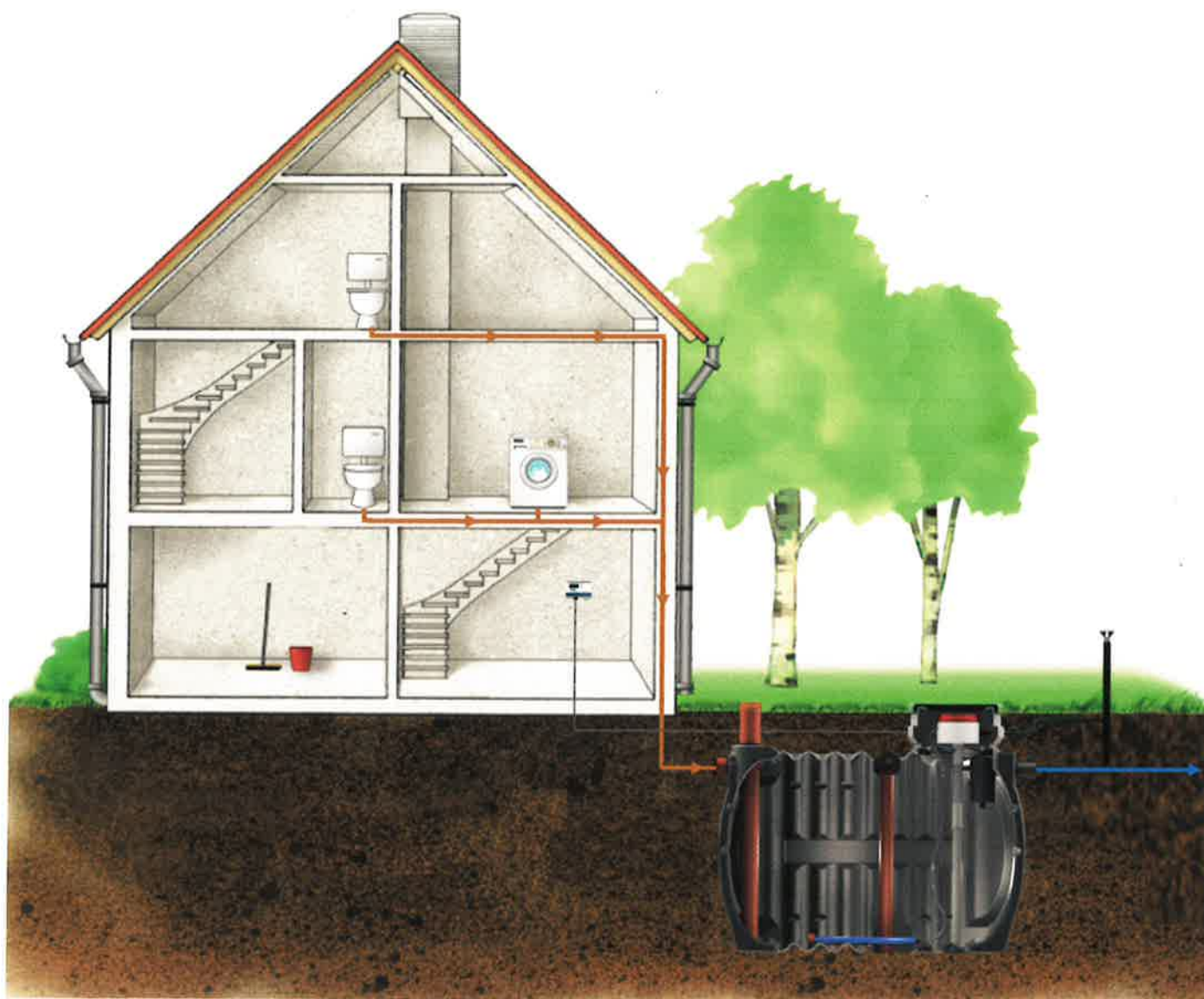
Package pump stations are available in single and dual pump arrangements with varying inverts. The pump stations are designed to suit specific site requirements, these can be retrofitted where required.

### Servicing

Through a nationwide network of British Water accredited service engineers, Premier Tech Aqua UK offer a comprehensive range of services including commissioning and on-going service contracts.







Plant Size	Volume	Length (m)	Width (m)	Height (m)	Weight (mm)	ø Access (mm)	INLET Height To Base (m)	OUTLET Height To Base (m)	Pipe Diameter (mm)	Height (m)
6 - 8 (0.9 – 1.2 m³/d)	3m³	2.42 m	1.47 m	1.50 m	150 kg	600 mm	1.34 m	1.32 m	100 mm	0.3 m
10 – 12 PE (1.5 – 1.8 m³/d)	4m³	2.47 m	1.66 m	2.01 m	185 kg	600 mm	1.48 m	1.43 m	100 mm	0.42 m

### Installation

The Solido SMART Sewage Treatment Plant requires a relatively low cost and easy installation process. As the tank is super reinforced, concrete is not needed and the tank can be fully installed in free flowing granular backfill.

Premier Tech Aqua UK work closely with a nationwide network of installation partners and detailed installation guidelines are provided with each product.

All electric work should be carried out in accordance with current regulations (for example NIC EIC/Building Regulations).