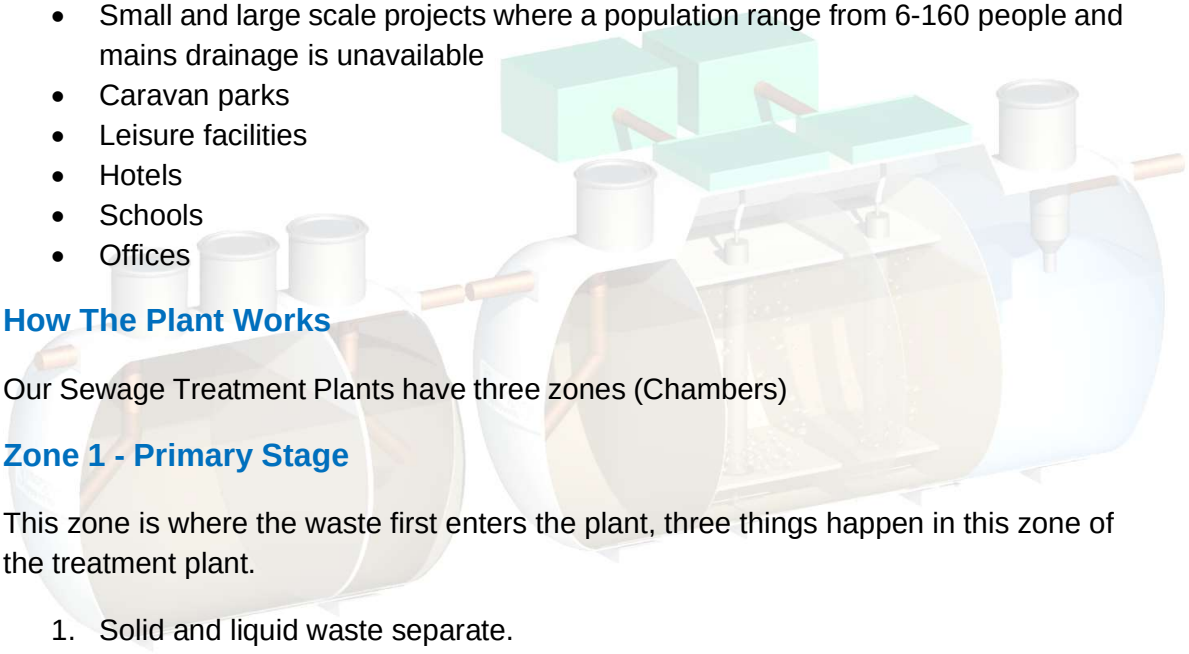
Sewage Treatment Plants

A Sewage Treatment Plant is the perfect solution when mains drainage is unavailable. Our Sewage Treatment Plants are all manufactured in the UK, by hand, and using a GRP lamination process. These are bespoke and made to order.

From housing developments and other small scale projects right up to larger commercial applications including caravan parks, leisure facilities, hotels, schools, offices and industrial situations, our plants will serve a population from 6 to 160 people.

Typical applications include:

- Small and large scale projects where a population range from 6-160 people and mains drainage is unavailable
- Caravan parks
- Leisure facilities
- Hotels
- Schools
- Offices



How The Plant Works

Our Sewage Treatment Plants have three zones (Chambers)

Zone 1 - Primary Stage

This zone is where the waste first enters the plant, three things happen in this zone of the treatment plant.

1. Solid and liquid waste separate.
2. A crust is formed on the top.
3. Solids sink to the bottom (this is called sludge).

On plants serving 10-80 people, there is a 2nd stage primary, on the plants serving 90-160 people, there is a 3rd stage primary. These extra stages repeat the 1st stage to ensure the best final effluent quality possible.

Zone 2 – Media (Bio) Zone

This stage uses Submerged Aerated Filter technology (SAF). This is a bed of loose media that has air pumped up though it. Bacteria grows on the media and it is the bacteria that treats the waste.

This is a bubble diffuser that is situated beneath the loose media, a blower pumps air into the bottom of the zone and though the bubble diffuser, this filters though the loose

media. These air bubbles create an efficient treatment process and removes any excess solids from the loose filter media.

The air that is pumped though the loose media keeps the bacteria alive.

Zone 3 – Final Settlement

This is the final stage of the process. The treated effluent enters this zone and then is discharged though the final effluent filter. If any larger particles of waste appear in this chamber, these are taken back to the first zone via a sludge return pipe.

Superior Technical Performance

Designed and tested in accordance with the BS EN 12566-3 standard, the British Water Code of Practice for Flows and Loads as well as being CE approved. The standard configuration offers treatment better than a 20mg/L BOD; 30mg/L SS; 20mg/L NH_3 effluent quality standard.

Complete Below Ground Installation

While the (SAF) is designed to have a minimal visual impact on site location including complete below ground installation, the range is adaptable to provide an above ground treatment solution when needed. The plant offers a quiet, odourless operation with no below ground moving parts.

Low Costs

With superior technical performance at a competitive price, our plants provide real value without compromising on quality for the duration of their lifetime. They are quick and easy to install for low initial costs and include reliable, cost-effective and energy-efficient blowers.

Quality, Adaptable Design

- Bespoke build enables us to supply exactly what a customer wants - such as a variety of wall thickness : standard build, heavy duty or even extra heavy duty build!
- Plants range from a single tank to 3 tanks and from 1500mm diameter to 2500mm diameter
- Plants serving 6 people to plants serving 15 people are all available with a pumped discharge or a gravity discharge
- Plants serving 18 people to plants serving 160 people are all available with a gravity discharge only
- The inlet invert is 750mm as standard, but deeper and shallower inverts are available

Available plant sizes

6, 8, 10,12,15,18, 26, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 120, 130, 140, 150 and 160 persons