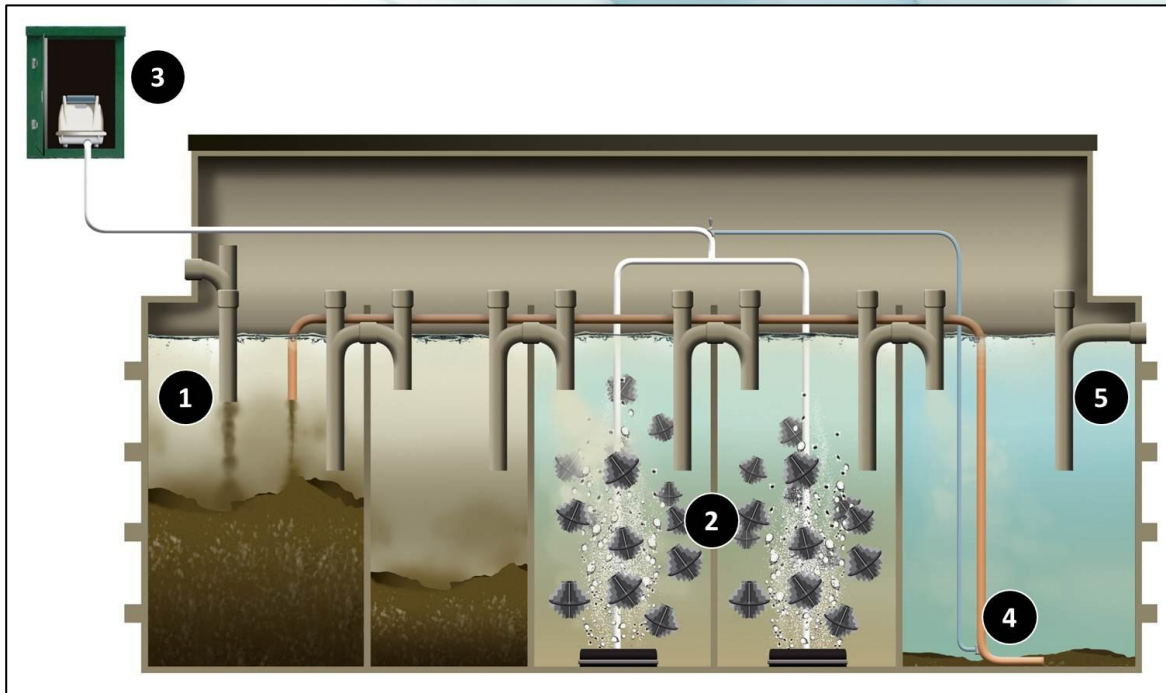


Falcon

The Falcon is a packaged Sewage Treatment Plant designed and constructed in the UK.

It is a simple Submerged Aerated Filter (SAF) system that has been proven to give an effluent quality of 11:16:7 (BOD: Suspended Solids: Ammoniacal Nitrogen).

The system is a single tank design for ease of installation.



Falcon Treatment Process

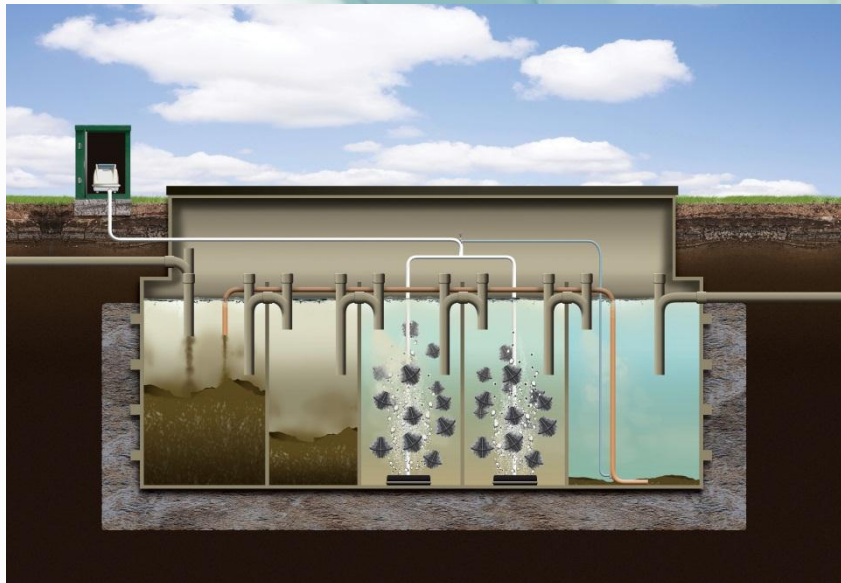
1. Raw wastewater enters the Primary Settlement Tank from the building. Solid matter settles to the bottom of the chamber and is allowed to breakdown anaerobically.
2. Liquid wastewater then passes into the Biozone where it digested by aerobic bacteria. The Biozone is filled with plastic media to provide a growth surface for the bacteria to grow on.
3. Air from an external compressor is blown into the Biozone to provide oxygen for the bacteria.
4. Treated effluent then passes into the Final Settlement tank where any remaining solid particles settle to the bottom of the tank are re-circulated back to the Primary settlement tank via an airlift.
5. Clear, treated effluent is then discharged from the tank.

Pumped outlets and neck extension turrets are available on request.

Falcon Model (PE)	Tank Shape	Height	Length	Width	Inlet Invert	Outlet Invert	Air Compressor (Kw)
6	Circular	2100mm	1500mm	1500mm	550mm	750mm	0.06
12	Circular	2100mm	1900mm	1900mm	550mm	750mm	0.08
18	Circular	2100mm	2500mm	2500mm	550mm	750mm	0.12
25	Rectangular	2174mm	4710mm	1500mm	600mm	862mm	0.12
30	Rectangular	2174mm	4010mm	2124mm	600mm	862mm	0.55
40	Rectangular	2174mm	5060mm	2124mm	600mm	862mm	0.55
50	Rectangular	2174mm	5610mm	2124mm	600mm	862mm	0.55
60	Rectangular	2174mm	6010mm	2124mm	600mm	862mm	0.75
70	Rectangular	2174mm	6810mm	2124mm	600mm	862mm	0.75
80	Rectangular	2174mm	6760mm	2524mm	600mm	862mm	0.75
90	Rectangular	2174mm	7360mm	2524mm	600mm	862mm	1.1
100	Rectangular	2174mm	7760mm	2524mm	600mm	862mm	1.1

Falcon Advantages

- **Single tank construction making installation simple.**
- **Low energy demands.**
- **12 monthly, inexpensive servicing.**
- **Small footprint post installation.**
- **2 year mechanical warranty.**
- **25 year tank warranty.**
- **Typical de-sludge period of 6-12 months.**
- **Good reliable effluent quality:**
 - **BOD 11mg/L**
 - **SS 16mg/L**
 - **NH₄-N 7mg/L**



Falcon 25 with gravity outlet



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