

1975-6

USE OF NON-MAINS SEWERAGE ARRANGEMENTS (THIS FORM TO COMPRISE PART OF THE PLANNING APPLICATION)



Site address: **LITTLE WACTON**
BREDENBURY **HR7 4TQ**

Please enter details where relevant and use the tick boxes

Package Sewage Treatment Plant

Product type: **CONDER ASP 06**

Capacity: **6 PERSONS**

A copy of the manufacturer's specification/brochure is enclosed ☒

Has a maintenance contract been agreed for the plant? ☐ if yes enclose copy

Final discharge will be to:- ground soakaway ☒ watercourse ☐

Note: if discharge is to soakaway, a percolation test is necessary. (see below)
If to a watercourse, a Discharge Consent is necessary.

Has a Discharge Consent been granted by the Environment Agency? ☐ if yes enclose copy

Septic Tank

Capacity of tank: Number of chambers:

Number of persons the tank will serve:
a percolation test is necessary. (see below)

Please use this section for either option:

A percolation test to BS 6297 has been carried out and **vp 95** seconds
The result (percolation value) is an average of
(Further advice on the test is available from the Council's Building Control Section)
Percolation tests should not be carried out in extreme weather

A block plan showing the location of the tank or plant, test holes, any watercourses, the soakaway length and discharge area, or any other drainage arrangements is enclosed (all applications) ☒

If you wish to use an alternative system, please enter the specific arrangements here and include a plan

Complete Below Ground Installation

Premier Tech Aqua has designed the Conder ASP to have a minimal visual impact on site location. This includes a complete below ground installation and a quiet and odourless operation assisted by a compact and innovative design.

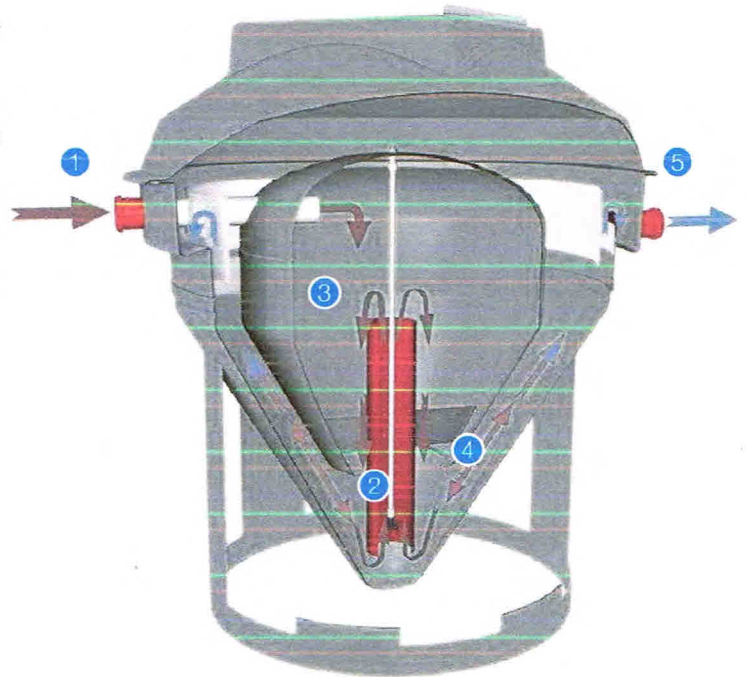
Low Costs

The Conder ASP offers superior technical performance at a competitive price, offering real value for your money without compromising on quality. The on-going maintenance and running costs for the Conder ASP are extremely low as well as having a better than average emptying frequency. This provides an overall competitively priced product for the duration of its lifetime.

Quality, Adaptable Design

Premier Tech Aqua has completed thousands of Conder ASP installations across the globe and has pioneered the development of packaged sewage treatment plants. The Conder ASP consists of a state-of-the-art GRP high strength structure and includes remote blow housing.

The adaptable design offers the availability of an integral pumped system, deeper inverts (with supply of a standard extension kit), choice of pumped influent or effluent and is suitable for discharge to ground or watercourse (subject to relevant exemption, consent and licence).



How the ASP Works

The Conder ASP treatment plant comprises of a single tank and within this tank there is an inner central bio-zone chamber and an outer settlement zone. Sewage enters and leaves the treatment plant through the following process:

Step 1

The plant accepts and treats the incoming sewage in the central bio-zone chamber, with use of the extended aeration principle.

Step 2

A simple coarse bubble diffuser, housed in a draft tube, introduces the air that provides the oxygen to the bacteria, which then treats the sewage.

Step 3

The bio-zone then retains the mixture of sewage and bacteria until the level of treatment has been achieved.

Step 4

The treated effluent then enters the settlement zone where settlement takes place. The settled solids are drawn back towards the draft tube, housing the diffuser and are returned via the airlift principle to the bio-zone for further treatment.

Step 5

The treated (final) effluent subsequently leaves the plant over a weir, at the outlet level, that extends around the circumference of the tank. The movement of the fluid through the whole system is by gravity displacement. The option for an integral final effluent pumped discharge is available.

Specifications

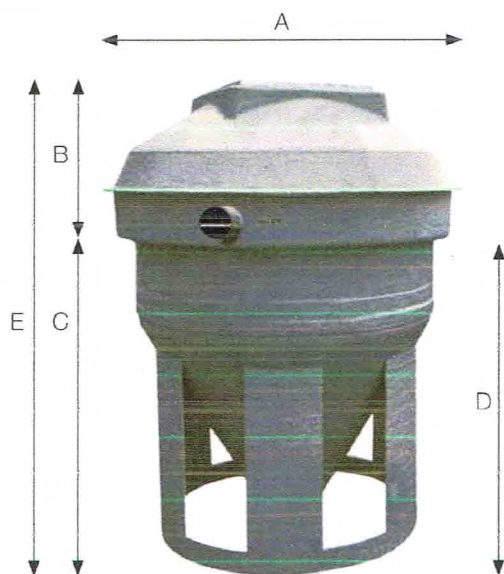
The table below can be used as a specification in choosing the correct Conder ASP for your project.

All applications should be specified to comply with the British Water Code of Practice for Flows and Loads. Further advice and assistance is available from our experienced internal and external sales teams. Site visits and assessments are recommended to ensure the correct equipment is proposed prior to installation.

		Conder ASP Range of Package Treatment Plants					
Unit Measurements*		ASP06	ASP08	ASP12	ASP16	ASP20	ASP25
Population Equivalent		06	08	12	16	20	25
Hydraulic Load	litres/day	1,200	1,600	2,400	3,200	4,000	5,000
Organic Load	gBOD ₅ /day	360	480	720	960	1,200	1,500
Ammonia as Nitrogen	gNH ₃ /day	48	64	96	128	160	200
Tank Diameter	mm A	1,970	1,970	1,970	1,970	1,970	1,970
Standard Inlet Invert to top of tank shell	mm B**	750	750	750	750	750	750
Inlet Invert to base	mm C	1,500	1,500	1,800	1,900	2,000	2,300
Outlet Invert to base	mm D	1,400	1,400	1,700	1,800	1,900	2,200
Overall Depth (excluding access cover height)	mm E**	2,250	2,250	2,550	2,650	2,750	3,050
Pipework Fitting	mm	110	110	110	110	110	110
Access Cover Size; Square	mm	750	750	750	750	750	750
Plant Weight	kg	230	230	260	300	360	440

* To select a system with an integral final effluent pump add a 'P' suffix e.g. ASP06P.

** Deeper installation depth can be accommodated with extension shafts.



Installation

The Conder ASP Package Sewage Treatment Plant requires a relatively low cost and easy installation process, typically using only a 200 mm deep concrete base followed by a pea shingle or self compacting backfill.

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

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

Peripherals

Extension Kit

Deeper inverts can be accommodated by means of an access extension kit which is available in a 1.0 m length. These are designed to be cut to size on site and can also be retrofitted, again on site, taking away the worry of installing at incorrect levels.

Package Pump Station

Inlet sewage and final effluent pump chambers are available in single or dual units, at varying inverts, and are designed to suit on site requirements. Again these can be retrofitted, if required.

Servicing

Through a nationwide network of British Water accredited service engineers, Premier Tech Aqua offer a comprehensive range of services including commissioning and on-going service contracts. Please contact the Premier Tech Aqua sales team for further information.

Extended Warranty

All Conder ASP products come with an automatic 12-month warranty. Extended 5-year warranties can be obtained for free by visiting our website and completing in a short Warranty Activation Form or the form supplied with the plant.