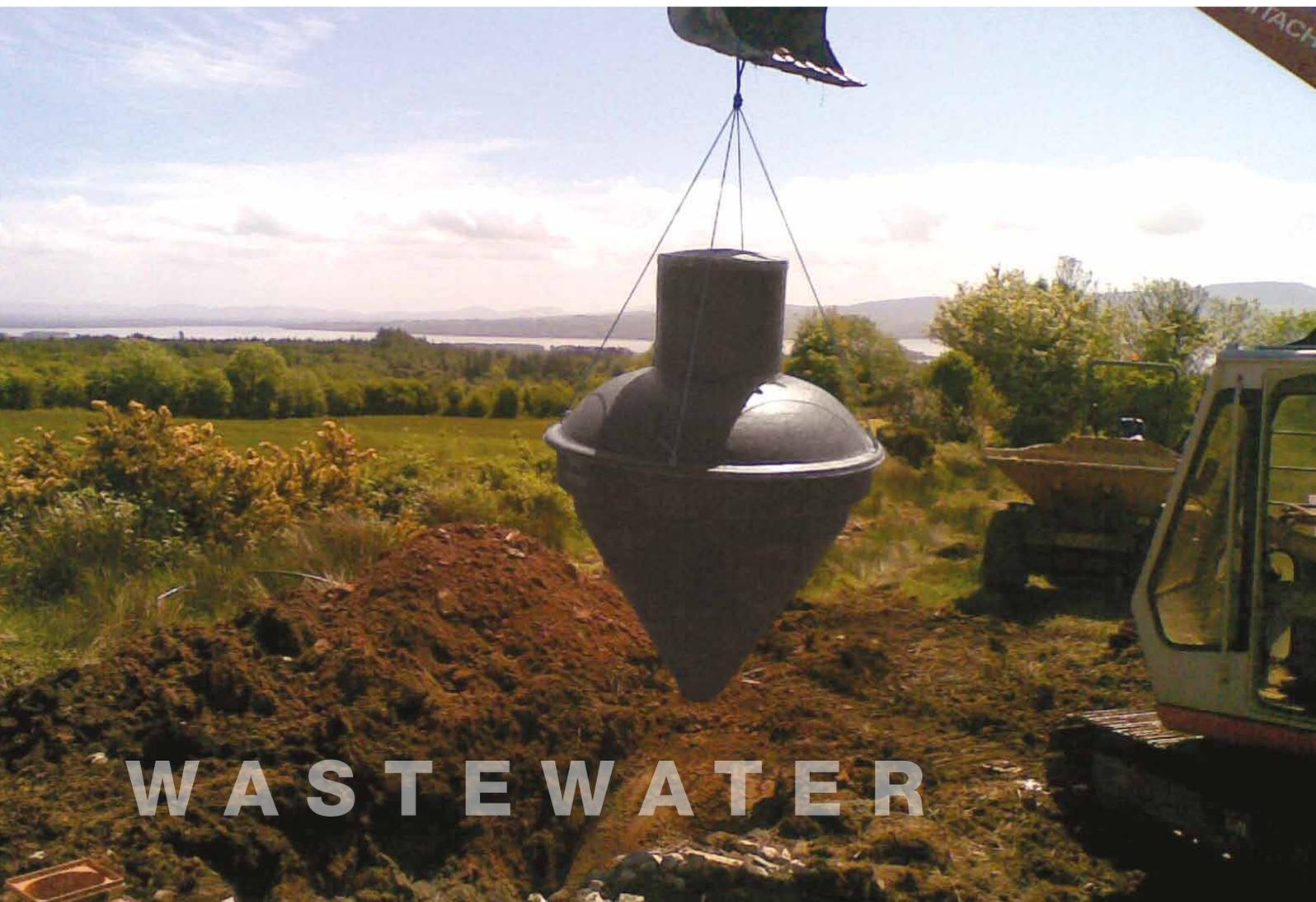


# Conder<sup>®</sup>ASP

ACTIVATED SLUDGE PROCESS



WASTEWATER

THE PARTNER OF CHOICE



**Adare Biocare Ltd**

Tynedale House  
Clonshire, Croagh,  
Co Limerick  
P: 061-395819

[www.adarebiocare.com](http://www.adarebiocare.com)



# Sewage treatment plant for residential and commercial projects

The Conder ASP Package Sewage Treatment Plant is the perfect solution for residential and commercial projects where mains drainage is unavailable. The plant will serve a population range from 6-25 and is fast becoming the industry's system of choice for reliability, ease and low installation costs.

Installed to treat wastewater with minimal impact on the environment, typical applications include single dwellings, small communities or developments and refurbishments.

# ASP

## Superior Technical Performance

The highly successful Conder ASP is designed and tested in accordance with EN12566-3:2005 and the EPA Code of Practice for Flows and Loads as well as being CE marked. The standard range plants produce an effluent quality of better than 20 mg/L BOD; 30 mg/L SS; 20 mg/L NH<sub>3</sub>.

# Complete Below Ground Installation

Premier Tech Aqua has designed the 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.

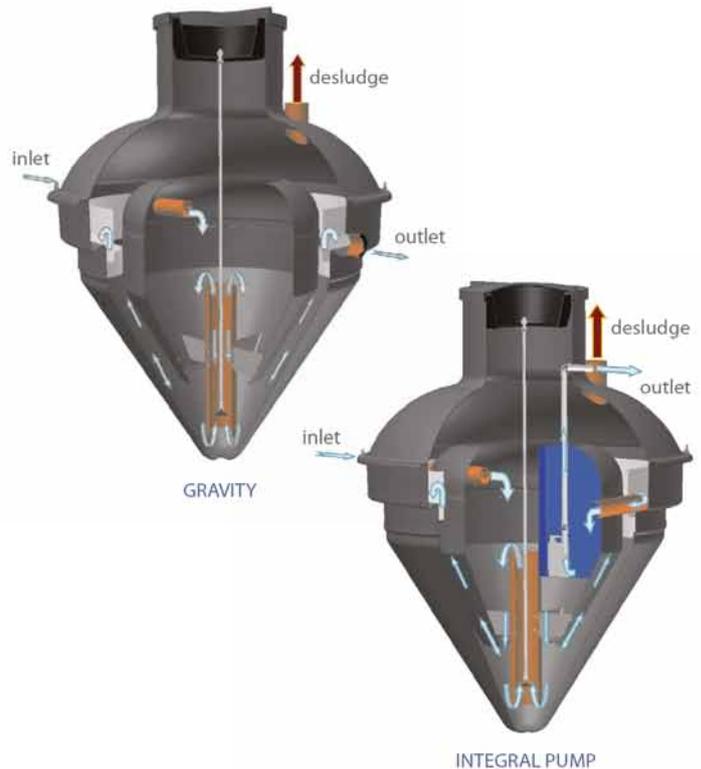
## Low Costs

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 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 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/HDPE durable, high-strength structure and includes integral blower 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, with the diffuser in it, 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.

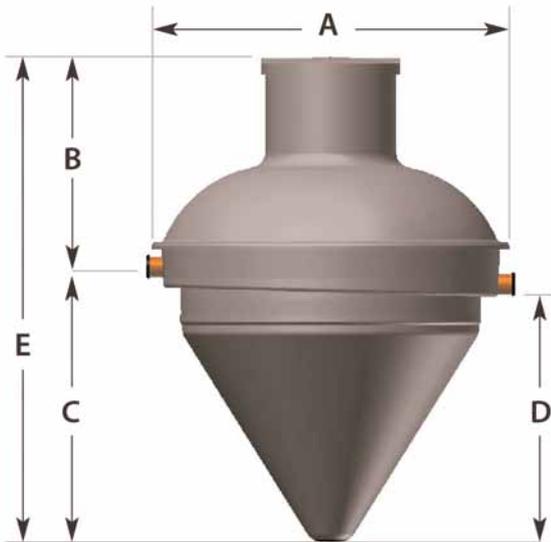
# Specifications

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 EPA 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 Unit*	ASP06	ASP08	ASP12	ASP16	ASP20	ASP25
Population Equivalent	6	8	12	16	20	25
Hydraulic Load (l/day)	900	1,200	1,800	2,400	3,000	3,750
Organic Load (g BOD5/per day)	360	480	720	960	1,200	1,500
NH4-N (g per day)	48	64	96	128	160	200
O/A Diameter (mm)	A	2,080	2,080	2,080	2,080	2,080
Standard Inlet Invert (mm)	B	1,390	1,390	1,390	1,390	1,390
Inlet Invert to Base (mm)	C	1,570	1,570	1,870	1,970	2,230
Outlet Invert to Base (mm)	D	1,450	1,450	1,750	1,850	2,110
O/A Depth (mm)	E	2,960	2,960	3,260	3,360	3,620
Pipework Fitting (mm)	110	110	110	110	110	110
Max Rated Power (Watts)	135	135	225	225	300	375
Estimated Power Consumption at working pressure (Watts) Option A	100	100	170	170	220	220
Estimated Power Consumption at working pressure (Watts) Option B	86	86	130	130	215	215
Cover Size (mm)	800	800	800	800	800	800

Option A: Charles Austin ET Blower. Option B: Nitto LA Blower. 1 Deeper inverts 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 200mm 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 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 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.