Conder® HDPE ASP
SEWAGE TREATMENT PLANT

The perfect solution for residential and commercial projects where mains drainage is unavailable.

Premier Tech Aqua is pleased to announce the launch of its new Conder ASP Sewage Treatment Plant in High-Density Polyethylene (HDPE) material. The plant showcases all the main features of the highly successful Conder ASP GRP Sewage Treatment Plant* plus additional features and benefits.

What’s New?
- HDPE material - durable, recyclable and impact resistant
- Integrated blower as standard for a more compact design
- Optional telescopic extension for a more manageable finish to ground level
- Reduced installation costs due to new compact design
- Sturdy, structured design for ease of transportation and storage
- Detachable legs for preferred method of installation
- Pre-moulded lifting eyes for improved on-site handling

Existing Features and Benefits
- Fully CE marked, designed and tested in accordance with BS EN 12566-3:2005
- Standard effluent quality 20mg/L BOD; 30mg/L SS; 20mg/L NH3
- Serving a population range of 6 - 25
- Option of external blower
- Complete below ground installation
- Low running costs
- Quality, adaptable design
- Lockable pedestrian access cover

How it Works

The Conder HDPE ASP Sewage 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 course diffuser, housed in a draft tube, introduced the air from the integrated blower that provides the oxygen to the bacteria, which then treat 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 final 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 only by gravity displacement.

*Our highly successful Conder ASP Sewage Treatment Plant in GRP is still available to purchase, please contact a member of our sales team for details.
Specifications

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

<table>
<thead>
<tr>
<th>Conder Unit</th>
<th>ASP 06 HDPE</th>
<th>ASP 08 HDPE</th>
<th>ASP 12 HDPE</th>
<th>ASP 16 HDPE</th>
<th>ASP 20 HDPE</th>
<th>ASP25 HDPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population Equivalent</td>
<td>6</td>
<td>8</td>
<td>12</td>
<td>16</td>
<td>20</td>
<td>25</td>
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<tr>
<td>Hydraulic Load (l/day)</td>
<td>1200</td>
<td>1600</td>
<td>2400</td>
<td>3200</td>
<td>4000</td>
<td>5000</td>
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<tr>
<td>Organic Load (g BOD5/day)</td>
<td>360</td>
<td>480</td>
<td>720</td>
<td>960</td>
<td>1200</td>
<td>1500</td>
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<tr>
<td>Ammonia (g NH3/day)</td>
<td>48</td>
<td>64</td>
<td>96</td>
<td>128</td>
<td>160</td>
<td>200</td>
</tr>
<tr>
<td>O/A Diameter</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td>Inlet Invert to Base (mm)</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>700</td>
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<td>700</td>
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<tr>
<td>Standard Outlet Invert (mm)</td>
<td>1500</td>
<td>1500</td>
<td>1900</td>
<td>1900</td>
<td>2000</td>
<td>2300</td>
</tr>
<tr>
<td>Outlet Invert to Base -Gravity Discharge (mm)</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
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<tr>
<td>O/A Depth inc. lid (mm)</td>
<td>1400</td>
<td>1400</td>
<td>1800</td>
<td>1800</td>
<td>1900</td>
<td>2200</td>
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<tr>
<td>Pipework Fitting (mm)</td>
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<td>2250</td>
<td>2650</td>
<td>2650</td>
<td>2750</td>
<td>3050</td>
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<tr>
<td>Blower Rated Power (Watts)</td>
<td>80</td>
<td>90</td>
<td>90</td>
<td>160</td>
<td>160</td>
<td>230</td>
</tr>
<tr>
<td>Estimated Blower Consumed Power @ Working Pressure (Watts)</td>
<td>75</td>
<td>80</td>
<td>90</td>
<td>130</td>
<td>130</td>
<td>190</td>
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<tr>
<td>Blower Cover Size (Green) (mm)</td>
<td>0450</td>
<td>0450</td>
<td>0450</td>
<td>0450</td>
<td>0450</td>
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<tr>
<td>Plant cover (Grey) (mm)</td>
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<td>0750</td>
<td>0750</td>
<td>0750</td>
<td>0750</td>
<td>0750</td>
</tr>
<tr>
<td>Plant Weight (kg)</td>
<td>250</td>
<td>250</td>
<td>280</td>
<td>280</td>
<td>300</td>
<td>350</td>
</tr>
</tbody>
</table>

**Peripherals available**

**Extension Kit**

Deeper inverts can be accommodated by means of either: a telescopic extension, offering 50-350mm adjustment, or a larger 800mm extension that can be cut to suit on site. Taking away the worry of installing at the incorrect levels.

**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 offer a comprehensive range of services including commissioning and on-going service contracts.

**Extended Warranty**

All Premier Tech Aqua products come with an automatic 12 month warranty. Our market leading 5 year warranty can be obtained for free by visiting our website and completing a short warranty activation form, or the form supplied with the plant.

For any queries regarding this or any other products in the Premier Tech Aqua range please contact a member of our sales team on the below details who will be more than happy to help.

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**Installation**

The Conder HDPE ASP 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).