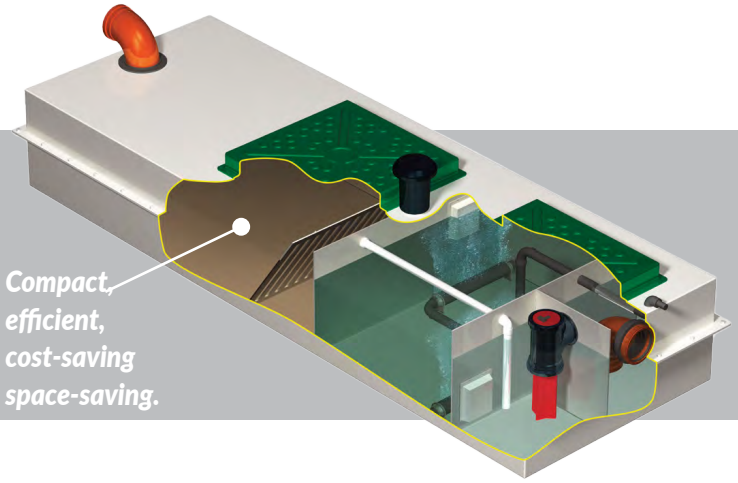
GLAMPSAN
WATER & WASTE SOLUTIONS

PRODUCT DATA SHEET

Portapura® Sewage Treatment Plants



Compact, efficient, cost-saving space-saving.

Compact sewage treatment plants: glamping & leisure

Designed and manufactured in the UK specifically for glamping sites, holiday homes, static caravans, site offices, site toilets, garden rooms and small leisure developments, the **Portapura®** is compact, efficient, robust and portable.

It can be installed **above or below ground** and treats domestic waste water to a level comfortably better than the recommended EN standard **BS EN 12566**.

Using a 230V air pump to provide aeration and increase natural bacterial activity, the **Portapura®** discharges treated water under gravity or via an electric pump to a running watercourse or drainage field (local approvals required).

Technical Advantages

- Available in 3 sizes: **2, 3 or 5 person units**
- Suitable for temporary or long-term accommodation
- Can be installed above or below ground
- Portable: can be installed above ground and removed
- for storage during the closed season
- Cost-effective installation: below ground installation
- can be achieved in approximately 2 hours
- Treats wastewater to a level 25 times better than
- the recommended EN standard
- Near silent air compressor
- Electrical consumption 1.8kWh/day = equivalent to the daily use of a lightbulb

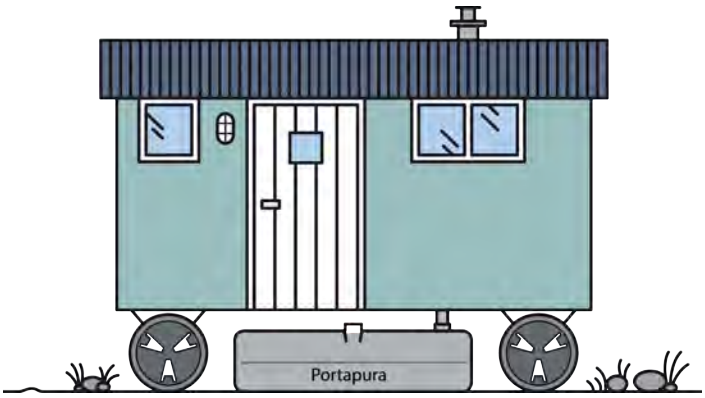
Applications

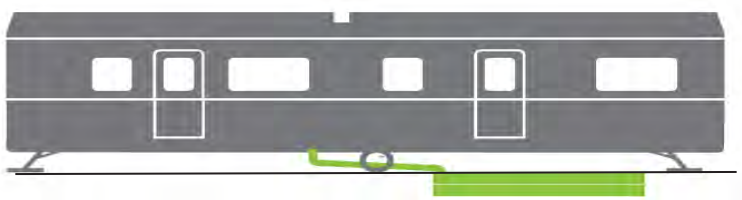
- Glamping sites
- Shepherds' huts, log cabins & static caravans
- Temporary accommodation: site offices & site toilets
- Caravans and garden rooms

Approvals

- CE approved to BS EN 12566
- Oustanding treatment efficiency: 14:19:0.7mg/ltr. BOD: suspended solids: ammonia.
- Fire resistance approval to EN ISO 11925-2:210 and structural integrity approval to EN ISO 179-1/1eA

Available in 3 sizes: ***2, 3 & 5 persons***
Above and below ground installation
Gravity or pumped discharge options



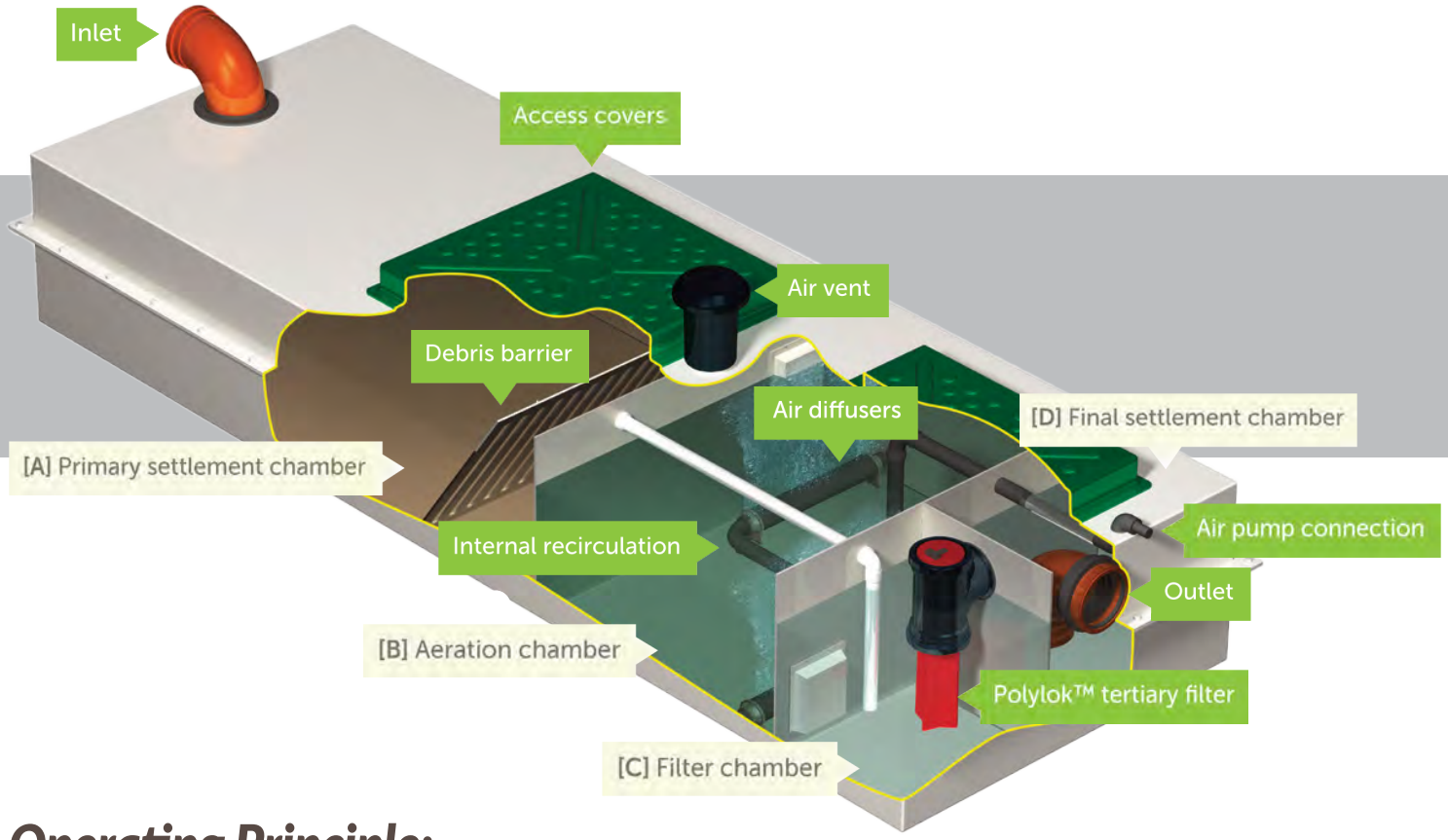


Glampsan,
Merchant's Way, Aldridge,
West Midlands, WS9 8SW.
United Kingdom.

UK Freephone: 0800 999 6010
Int: +44 (0)1922 687545
Email: sales@glampsan.com
Website: www.glampsan.com

GLAMPSAN
WATER & WASTE SOLUTIONS

PRODUCT DATA SHEET



Operating Principle:

- Waste water enters the **primary settlement chamber [A]** where large solids are removed by settlement and flotation.
- An accumulation forms at the base of the tank and is removed by desludging (typically every 3-6 months).
- The clarified water is then transferred to the **main aeration chamber [B]** where it is treated to remove dissolved constituents. Aerobic bacteria, supported by diffused air, ensures full treatment is achieved before the effluent and "sloughed off" bacteria flows to the **filter chamber [C]** for further solids removal.
- The final effluent is then discharged to a drainage field / watercourse via the **final settlement chamber [D]**.
- The Portapura® is designed around British Water's "Flows & Loads 4" guidance - i.e. 150 litres of water / person / day.

Guidance:

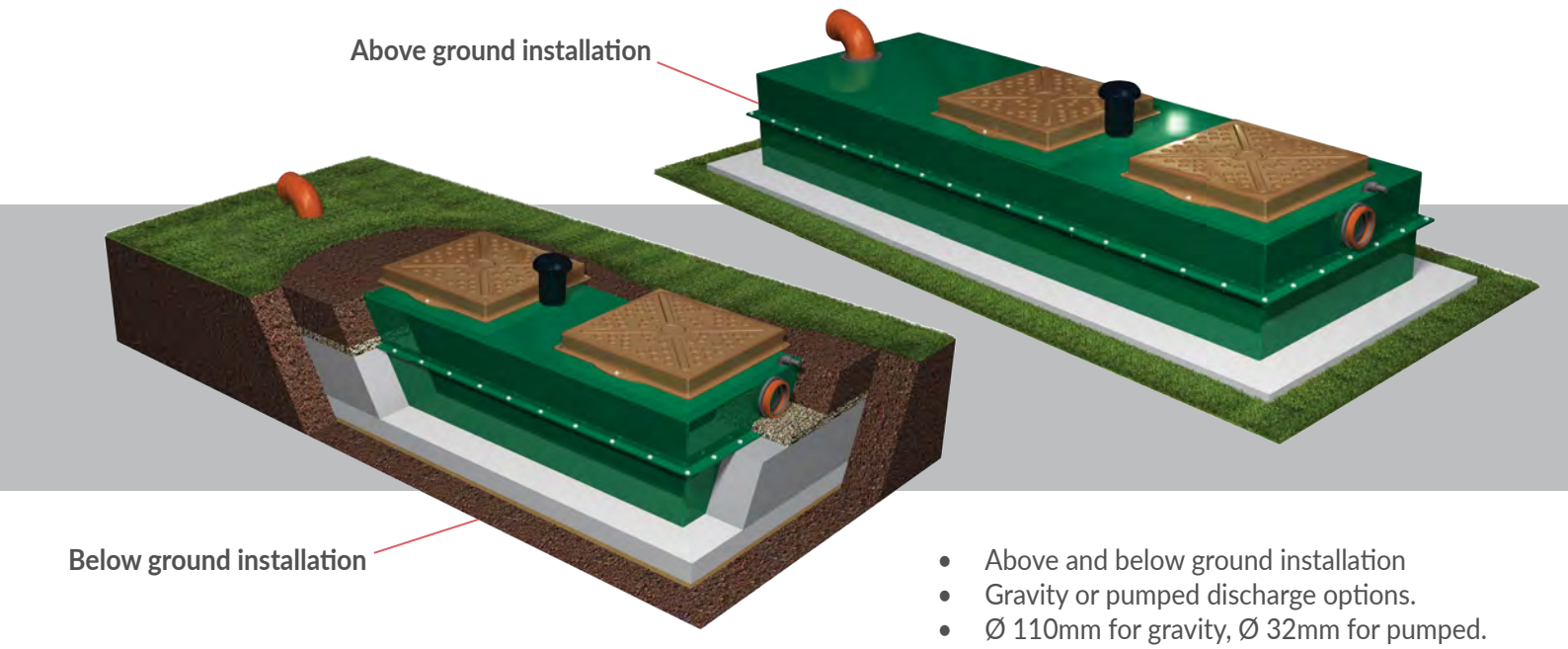
- Under General Binding Rules (Jan 2020) one can no longer discharge directly from an (old) septic tank into a watercourse or ditch. There is a legal responsibility to minimise the impact of sewage waste managed within the bounds of your property. ALL septic tanks that currently discharge into watercourses will have to be upgraded (in terms of discharged water quality), replaced using a sewage treatment plant that has full EN 12566 certification or the discharge to a water course "stopped and diverted" to a drainage field constructed to the current British Standard 6297:2007.
- **The Portapura® range conforms to EN 12566.**
- The gravity outlet version (4" waste pipe) and the pumped outlet version (32mm waste pipe from the top of the tank) can both discharge to a drainage field or flowing water course (not a ditch, pond or canal). Suitable permissions will be required (local council) and building regulations must be observed. A percolation test will be required from a groundworks specialist, and drainage fields will need specific design relative to the amount of users / liquid being discharged.
- The standard "pumped" versions will typically achieve a pumping distance of 50m on the flat. Pumps can be upgraded to 100m if required, for a modest price increase. If the discharge liquid has to be "lifted" the pumping distance will reduce.

Glampsan,
Merchant's Way, Aldridge,
West Midlands, WS9 8SW.
United Kingdom.

UK Freephone: 0800 999 6010
Int: +44 (0)1922 687545
Email: sales@glampsan.com
Website: www.glampsan.com

GLAMPSAN
WATER & WASTE SOLUTIONS

PRODUCT DATA SHEET



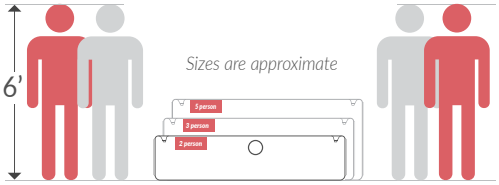
- Above and below ground installation
- Gravity or pumped discharge options.
- Ø 110mm for gravity, Ø 32mm for pumped.

For **pumped** versions, the pump is positioned in the final chamber with the Ø 110mm pipe removed. 32mm discharge pipework is used, exiting through the top of the tank.

Caravan site application showing above and below ground installation

Construction site application showing above and below ground installation

Contact us for more information



Technical Data

We reserve the right to amend the technical specification to improve the product without prior notification.

Product Name	Population	Length (mm)	Width (mm)	Height (mm)	Discharge	Inlet / Outlet Invert (mm)	In / Out Ø (mm)	Silencer?
PS-Portapura-2-G	2 people	2,750	980	415	Gravity	445 / 270	110 / 110	Yes
PS-Portapura-2-P*	2 people	2,750	980	415	Pumped	445 / n.a.	110 / 32	Yes
PS-Portapura-3-G	3 people	2,050	1,500	600	Gravity	450 /245	110 / 110	Yes
PS-Portapura-3-P*	3 people	2,050	1,500	600	Pumped	450 / n.a.	110 / 32	Yes
PS-Portapura-5-G	5 people	2,640	1,500	800	Gravity	650 / 345	110 / 110	Yes
PS-Portapura-5-P*	5 people	2,640	1,500	800	Pumped	650 / n.a.	110 / 32	Yes

Note: Portapura® length, width & height dimensions can vary by +/-50mm. The outlet of pumped versions is through the top of the tank

Portapura® units are supplied with a 230v air pump and a Whisspurr™ acoustic compressor (AVR) to reduce noise and vibration

Units equipped with a pump will typically achieve a pump distance of 50 metres on the flat. PLEASE consult us if liquid needs to be "lifted" or pumped further

Glampsan,
Merchant's Way, Aldridge,
West Midlands, WS9 8SW.
United Kingdom.

UK Freephone: 0800 999 6010
Int: +44 (0)1922 687545
Email: sales@glampsan.com
Website: www.glampsan.com

Document date: 01.2024