

DSAFA

Denitrifying Wastewater Treatment Plants



Wastewater treatment plants for small and large scale projects.

The **Denitrifying Wastewater Treatment Plant (DSAF)** brings together proven wastewater treatment processes with Premier Tech Aqua UK's in-house engineering expertise.

Containing three treatment stages; a primary settlement zone, an aerobic biological zone and secondary clarification zone, the DSAF offers a tailor-made wastewater treatment solution - ideal for projects where hydraulic loading, BOD concentration and ammonia concentration levels are subject to tight controls.

Premier Tech Aqua UK has designed numerous individual treatment plants for customers across the globe and pioneered the development of package sewage treatment plants, the DSAF is the next level of innovation.

A robust and reliable solution, all DSAFs are designed and manufactured in the UK in accordance with EN 12566-3, the British Water Code of Practice for Flows and Loads.

Made from Glass Reinforced Plastic (GRP), the DSAF is supplied with pedestrian duty covers and access manways as standard. Reinforced, additional strength is provided via the bespoke design of the liner.

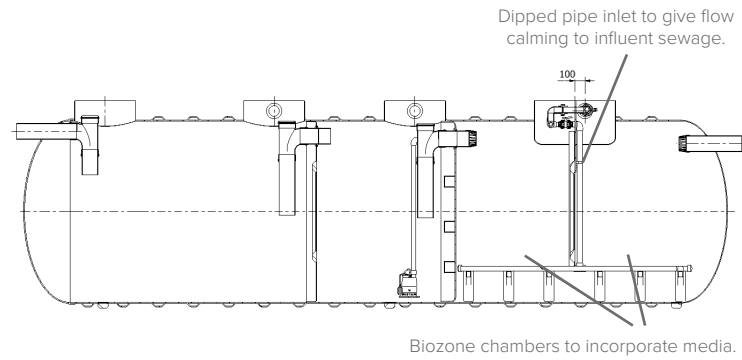
The adaptable design offers the flexibility of pumped influent or effluent, deeper inverters and high nitrification options and locations where the effluent cannot gravitate away.

Superior Technical Performance

Tailored to meet the needs of the individual customer, the DSAF configuration offers 5mg/L of ammonia (NH₃) as standard and improved Biochemical oxygen demand (BOD), Nitrogen (N) and Suspended Solids (SS) quality.

Specification

The DSAF is a bespoke designed product - tailored to solve individual situations and challenges, where tight controls for effluent cleanliness exist.



! How it works

STEP 1

Primary Settlement Zone

This is the initial stage of treatment, designed to settle out any large solids and other non-degradable materials for subsequent breakdown. It incorporates twin chambers to ensure efficient operation with a flow balancing facility.

STEP 2

Biozone

Substantial BOD reduction takes place in the Biozone. The treatment is achieved by high efficiency air diffusers continually pumping oxygen through the biological media and fluidised effluent.

STEP 3

Humus Settlement Zone

Fed from the biozone, the humus sludge is separated for further treatment and is then suitable for discharge via the outlet to a watercourse or drainage field.

Added Benefits

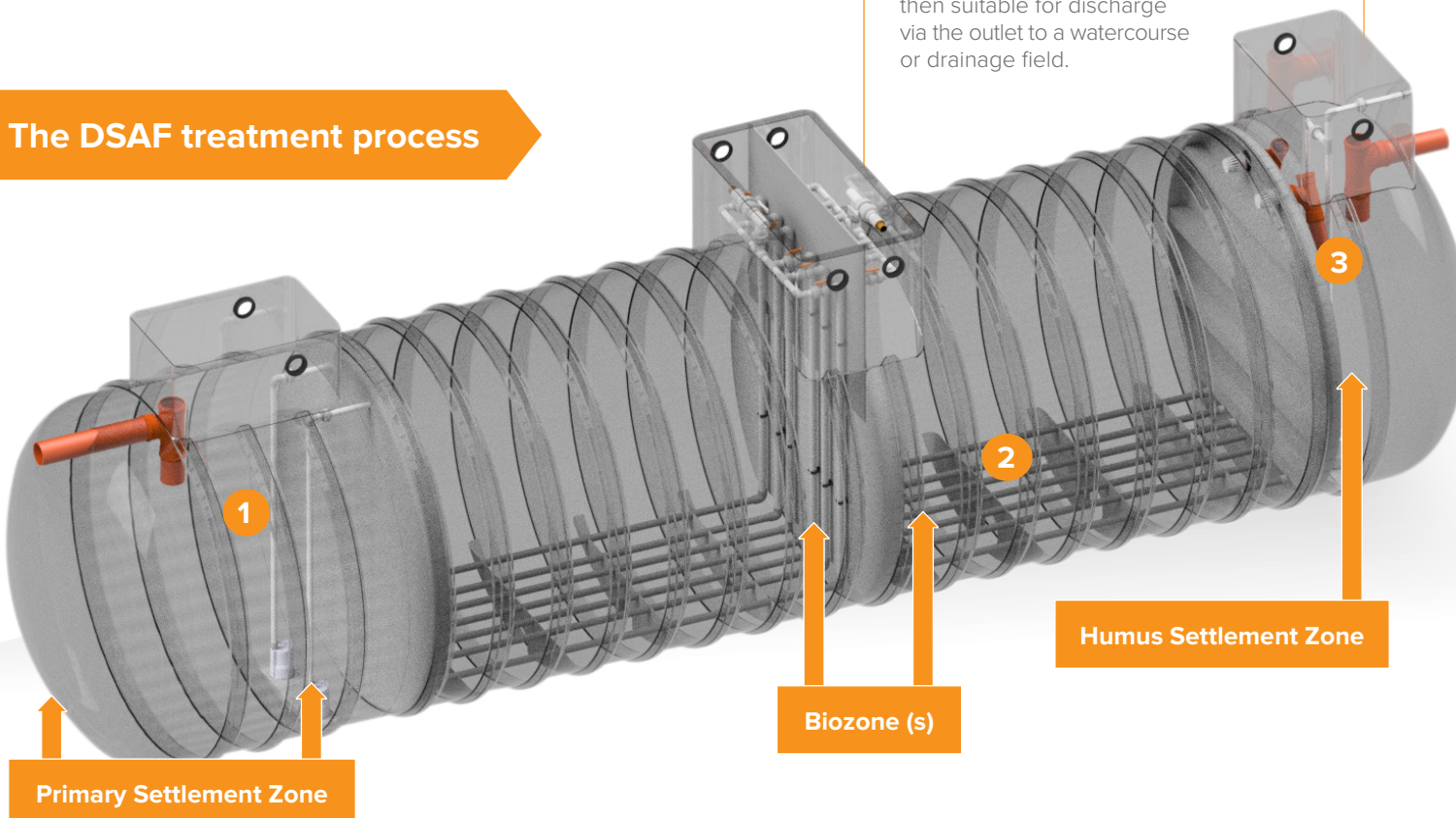
Energy Saving

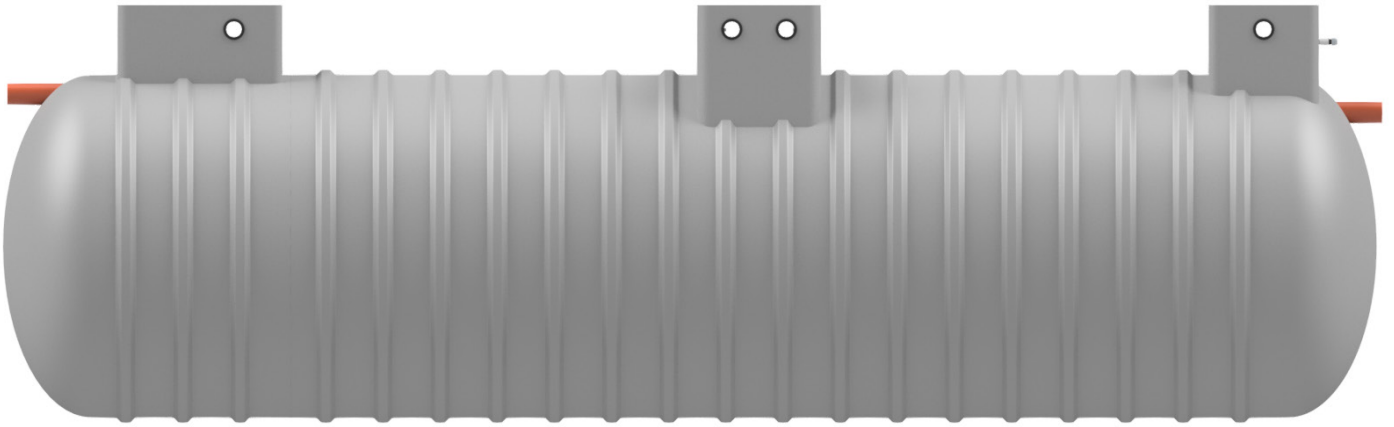
Optimised oxygen input for reduced aeration costs and includes variable speed blowers for cost efficiency over the life of the product.

Lower Maintenance

The DSAF has optimised sludge accommodation in the tank for minimized desludging and has pre-specified sludge volumes for precise emptying.

The DSAF treatment process





Installation and Servicing

Timely desludging of the primary tank and an annual maintenance contract is recommended for all treatment plants.

As well as an excellent design, build and consultancy service, we can arrange installation and maintenance through our extensive network of trusted partners.

**For more information or to
arrange a consultation contact:
+44 (0) 8702 64 0004 or visit:
www.premiertechaqua.co.uk
to find your local representative.**

A member of:



Registered with:



Warranty

All Premier Tech Aqua UK GRP tanks come with a twenty year warranty as standard. Individual product and part warranties are available upon request.