

ConcreteTanks

Water Tank Accessories



WATER TANK ACCESSORIES

As well as supplying waste water treatment tanks and rainwater harvesting tanks, we also supply a range of accessories including risers, lids and percolation boxes.

Please contact us with your requirements for new build, renovation or extension. We are more than happy to assist you with any technical queries and quote you for any of our products and services.



Plastic Risers:
150ht x 550 diameter
150ht x 650 diameter
Concrete riser (for percolation box only):
150ht x 600w x 600 length.

ConcreteTanks

Waste Water Treatment Tanks

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Our Precast Concrete Waste Water Treatment Tanks are

Built to Last



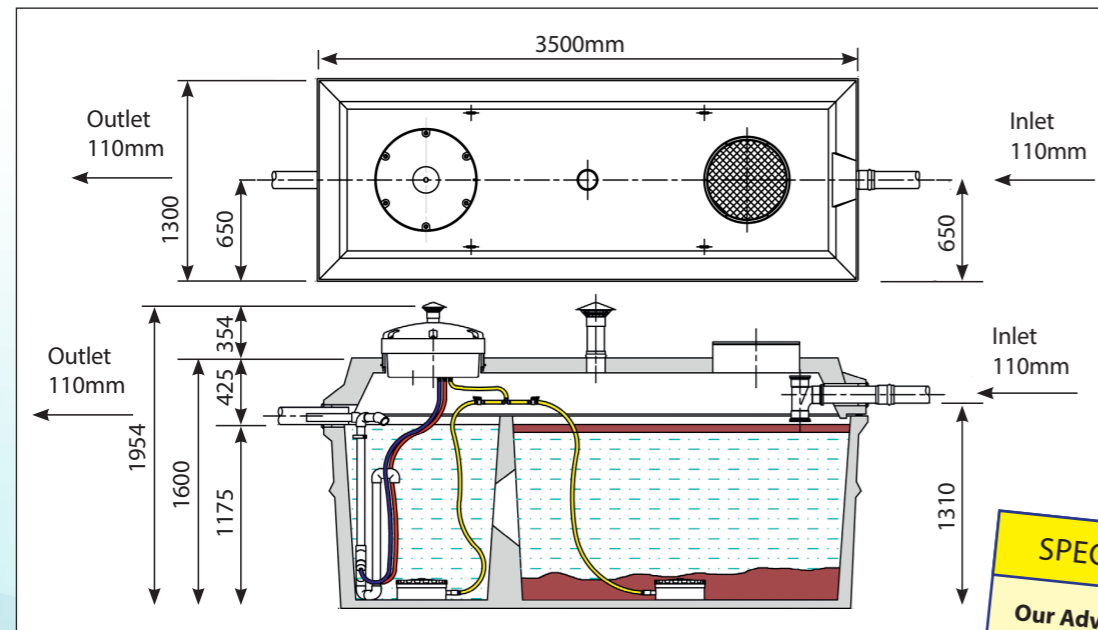
- Easy Installation
- Environmentally Friendly
- Low Running Costs
- Up to 99% BOD rating
- Certified to EN 12566-3



Free
Site
Visits

Our Concrete Waste Water Treatment Tanks:

- Durable and affordable
- Latest water treatment equipment
- High effluent quality of 99% BOD
- Utilise natural bacteria
- Superior to plastic tanks



SPECIFICATIONS

Our Advanced Water Treatment Tank

- Certified to EN12566-3
- 3400 Litre Capacity
- 45 Newton Concrete
- 4.7 Tonnes in Weight
- Up to 8 PE
- Length 3500mm
- Width 1300mm
- Height 1954mm (to top of control panel vent)
- Inlet 1310mm from bottom of tank (Invert level)

Our waste water treatment system tanks are durable and easy to install and can be utilised in those areas where the percolation area of the septic system does not meet the filtration requirements in terms of soil porosity.

The modern water treatment plant system fitted inside the concrete tank is protected by the robust concrete exterior.

PROCESS

Waste water enters through a calming inlet, minimizing disturbance. Inflowing wastewater is being intermittently aerated in both chambers.

This process reduces the overall sludge production. The total tank volume is being utilized as Reactor/ Sludge storage/ and buffer at different times within the 12 hour cycle.

This same 12 hr cycle enables the system to minimize the probability of hydraulic peaks occurring during sedimentation or clearwater discharge.

Our Advanced Water Treatment System – EN 12566-3

Our Advanced Waste Water Treatment Systems combine the benefits and the durability from a concrete tank and the trusted performance of our SBR treatment kit.

Certified to be in compliance with the EN 12566-3 and the recent SR66 regulations.



Environmentally friendly option

Our Concrete waste water treatment tanks are a lot more environmentally friendly than plastic or fibreglass alternatives. There are many reasons for this. Firstly the **environmental problem of plastic and GRP products** have been well documented and there has recently been major consumer movement against using such material. The structural guarantee with plastic and GRP is usually 15 years. We have a **structural guarantee of at least 45 years** on our concrete tanks, however they will last much longer than this. In

Thousands of plastic tanks go to landfill after 5 to 10 years.

plastic and GRP tanks are replaced regularly with the broken tank going direct to landfill. In many instances these types of tanks have been replaced every five to ten years resulting in tens of thousands of tanks going to landfill.

many instances, because of ground movement around the tank and mishandling during installation,

Also **plastic and GRP tanks installed can pollute the ground water** and surface water around them – a problem you won't have with concrete tanks.

Another big environmental benefit in using our tank is the actual treated water from our system. It is **a lot cleaner** than any other on the market. Many tanks in the UK have a BOD (biological oxygen demand) rating of between 94% and 97.5%. Our rating is 99% which is **the highest rating in the UK**. Also, treatment efficiency guidelines in the UK have a 20-30-20 rating. See table below showing the guidelines and also our efficiency results. Again we have the best results in the UK.

	Uk Guidelines	Our Results
BOD	20mg/l	3mg/l
Nh4 N	30mg/l	0.7 mg/l
SS	20mg/l	4mg/l

Benefits of installing concrete tanks over plastic tanks

The biggest benefit is cost. With plastic and GRP tanks you need to firstly put in a concrete base. The tank then needs to be pinned down, filled with water and concrete backfill put around it. The time and extra labour involved can be anywhere from £850-£1,250. With our concrete tank, you just dig the hole, compact and level in some gravel. We will then arrive with our truck-mounted crane and set the tank into the hole. You can then fill around the tank with the

- **Low maintenance costs**
- **Low running costs**
- **Cleaner discharge**
- **Shallow dig design**
- **Our own transport with mounted crane**

gravel that has been excavated from the hole.

The system arrives as a single plug and play unit (unless a pressurized system is required which comes with an

additional separate pump station), requiring only a 240V electrical supply and 110mm connection. The tank has a **shallow dig design** with a **low invert level** of 1310mm – ideal for difficult sites and areas with a high water table. (See diagram opposite).

Once the tank is in-situ, **it is in effect there for life**. You can sow your garden with grass-seed and set plants, secure in the knowledge that you won't need to hire a digger in future years to take out a broken plastic tank.

The big benefit in using our sequence batch reactor (**SBR technology**) is the **low running costs**. The SBR process is highly effective at dealing with shock loads (typical of a domestic house) making the system much more **robust and versatile** than other basic systems that rely on a constantly pumping air blower. Furthermore, the SBR system can adjust **energy consumption** with high/low flows, reducing electrical costs. An SBR system treats waste water in a cycle of four phases namely *fill, react, settle and discharge*. The benefits of this type of system result in around **50% reduced energy costs** and because there are no pumps, mechanical or electrical components inside the waste water, vastly **reduced maintenance** costs too.

