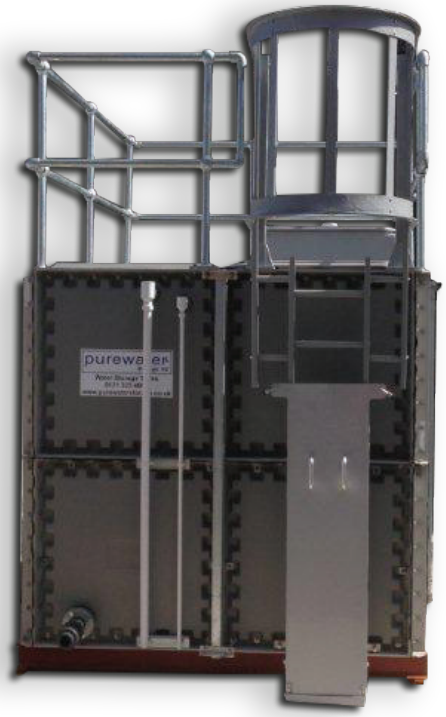
Grp Sectional tanks- hot press moulded

Purewater sectional cold water storage tanks are designed in a modular format which allows a comprehensive range of tank size and configuration. They comprise of individual bolt-up panels which are assembled on site.

In order to calculate the capacity of the tank, simply multiply the length x width x height. Remember that tanks are always stated as length x width x height. For example, a 2 x 2 x 1m tank is not the same as a 2 x 1 x 2m tank.

Designed for two specific applications

- For storing water in large capacities - from 125 litres up to 2,000,000 litres.
- To allow the site assembly of a water storage tank where access restrictions or other conditions deny the installation of one and two piece tanks.



Purewater sectional tanks incorporate hot press moulded Grp panels ensuring maximum dimensional stability and consistency of quality.

- WRAS approved.
- Manufactured to BS EN 13280:2001 .
- Manufactured in a metric modular format allowing water storage from 125 litres to 2 million litres.
- Factory Pre-insulated including insulated base option. Available with either internal or externally flanged base
- arrangement, with fully self draining base option.
- Incorporating the industry's largest sized man-way to provide access to the float valve.
- Assembled on site by our own fully skilled and equipped engineers, ensuring 100% control of installation.
- Purewater DO NOT utilise outsourced labour to assemble sectional tanks.
- A vast range of sectional tanks are available in a number of formats.

WRAS APPROVED PRODUCT

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pure water storage ltd

Internally flanged base tanks (IFB)

The most cost effective sectional tank format suitable for:
- Positioning onto a flat, solid, level surface and continuous foundation.
- Applications where there is sufficient working room all around the tank.

Comprising:
- Internally flanged base, externally flanged sides, internally flanged roof.
- Insulated to the side and cover only.
- IFB tanks are suitable for positioning onto a flat, level and continuous foundation, normally a structural concrete slab. If the existing foundation is not within the required tolerances Purewater can provide foundation materials.
- IFB tanks require a minimum of 500mm working clearance all around the tank, a minimum of 500mm the man-way height and or 350mm above any raised float valve housing.

Externally flanged base tanks (EFB)

Suitable for:
- Positioning onto raised supports, typically to provide a positive head of pressure to an adjacent pump set or similar equipment.
- Where an insulated base is required.
- Where there is sufficient working room all around the tank.

Comprising:
- Externally flanged base, externally flanged sides, internally flanged roof.
- Insulated to the base, sides and cover.
- EFB tanks are suitable for positioning onto raised supports at 1000mm or 500mm centres depending on the tank size and configuration, foundation normally comprises of brick built or concrete dwarf walls.
- Raised supports must be a minimum of 500mm high.
- EFB tanks require a minimum of 500mm working clearance all around the tank, a minimum of 500mm above the man-way height and or 350mm above any raised float valve housing.

Totally Internally flanged tanks (TIF)

Suitable for:
- Applications where there is minimal working room available; all panel joint flanges are accessed from inside the tank.

Comprising:
Internally flanged base, internally flanged sides, internally flanged roof.
- Insulated to the sides and cover,
- TIF tanks are suitable for positioning onto a flat, level and continuous
- foundation, normally a structural concrete slab.
TIF tanks require a minimum of 50mm working clearance all around the
- tank, a minimum of 600mm above the man-way height and or 350mm above any raised float valve housing.

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Grp Sectional tanks- hot press moulded

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Tank foundation requirements:

- Where foundation tolerances are not within specification, or if erecting metric configuration tanks on an existing imperial configured support, Purewater can supply the necessary steelwork to enable installation of the tank.
- Steelwork can be shimmed by our own engineers prior to installation of the tank.
- All foundation areas are inspected and checked prior to tank installation.

Internally flanged base tanks:

For the successful installation of Purewater internally flanged base sectional tanks the following are required:

- The foundation area must be a minimum of 450mm greater in length and width than the internal dimensions of the tank.
- The foundation must be constructed so as to be capable of supporting the tank maximum weight when full.
- The foundation must be flat, level & continuous and be no more than ± 2mm over any given metre and no more than ± 6mm over 6 metres in any direction. The foundation must be free of any local high & low spots, protrusions and debris of any kind.

Access for IFB tanks

Purewater IFB sectional tanks require a minimum of 500mm working clearance all around the tank, a minimum of 500mm above the man-way height and a minimum of 350mm above any raised float valve housing.

Externally flanged base tanks:

For the successful installation of Purewater externally flanged base sectional tanks the following are required:

- The foundation area must be a minimum of 450mm greater in length and width than the internal dimensions of the tank.
- The foundation must be constructed so as to be capable of supporting the tank maximum weight when full.
- The foundation must be level and be no more than ± 2mm over any given metre and no more than ± 6mm over 6 metres in any direction.
- The foundation must be free of any local high & low spots, protrusions and debris of any kind.

Access for EFB tanks

Purewater EFB sectional tanks require a minimum of 500mm working clearance all around the tank, a minimum of 500mm above the man-way height and a minimum of 350mm above any raised float valve housing and a minimum of 500mm access height to the underside of the tank.

Totally internally flanged tanks

For the successful installation of Purewater totally internally flanged sectional tanks the following are required:

- The foundation area must be a minimum of 50mm greater in length and width than the external dimensions of the tank.
- The foundation must be constructed so as to be capable of supporting the tank maximum weight when full.
- The foundation must be flat, level & continuous and be no more than ± 2mm over any given metre and no more than ± 6mm over 6 metres in any direction.

Access for TIF tanks

Purewater TIF sectional tanks require a minimum of 50mm working clearance all around the tank, a minimum of 500mm above the man-way height and a minimum of 350mm above any raised float valve housing.

Panel Specification

- Panels are manufactured from high quality SMC material hot pressed moulded to a temperature of 150°C ensuring maximum dimensional stability.
- Panels are available in a metric format, panels being 1000 x 1000mm, 1000 x 500mm & 500 x 500mm.
- Individual panels are dimensionally accurate with defined sharp corners, and are precision factory drilled.
- Truncated panel option for maximum strength and to provide full metre span base configuration.
- Factory Pre-Insulated using CFC free polyurethane foam.
- Fully WRAS approved.
- Maximum size man-way access panel with large aperture.
- One-piece raised float valve housing panel complete with screened spill
- over weir to ensure AB type air gap configuration.

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Access Man-way

The Purewater one-piece man-way panel has a considerable access aperture. This ensures maximum space for ease of movement, and provides the largest access hatch available in the industry.

Raised float valve housing

- Purewater sectional tanks are supplied with a one-piece raised float valve housing panel which forms part of the roof structure in the same way as a standard roof panel. The inspection hatch opening has the same access benefits as the standard man-way.
- All float valve housings are supplied complete with screened spill over weirs to ensure AB air gap compliance.
- All Purewater spill over weirs are shrouded to reduce light ingress, helping to prevent the growth of algae and other organisms.

Fixings

All internal fixings are A4 grade stainless steel, external fixings are either galvanised or A4 grade stainless steel.

Bracing system

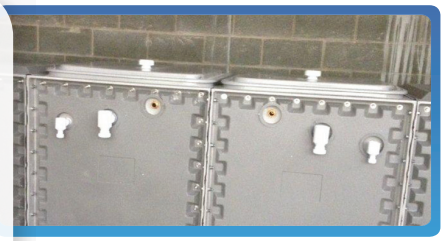
- Bracing where required is provided by high grade box section steel uprights located at each vertical panel joint. Uprights are fixed using threaded stainless steel tie rods and further secured with angle brackets to the outside of the tank. All external steel components are hot dip galvanised.
- Our unique bracing system allows for maximum unobstructed movement within the tank, the system also providing unequalled simplicity for future cleaning operations.
- For tanks with internal divisions, Purewater use stainless steel for all uprights and associated reinforcement to divider panels throughout.

Internal divisions

- Internal dividers can be fitted, providing two compartments enabling easy maintenance of the tanks without interruption of water supply.
- Dividers are constructed from Grp tank panels and are supported by stainless steel bracing and fixings.

Tank assembly

Assembly of Purewater sectional tanks is carried out by our own high skilled engineers. A full foundation inspection is undertaken before assembly can commence. Specification calls for exacting tolerances therefore laser level equipment is used, ensuring precision and accuracy from the start.
Our engineers can fit all necessary float valves, connections and other ancillary items to the tank. Purewater will accurately install float valves ensuring correct positioning of the valve in relation to overflows and spill over screen units, thus ensuring correct air gap configuration.
Purewater guarantee to work safely, efficiently and with respect to other site workers. Our engineers will remove all related packaging and similar waste items, ensuring a clean area when the job is completed.



Complimentary services

Purewater also offer the following services:

- Site survey prior to works commencing.
- Strip out of existing tanks and equipment.
- Foundation inspection using laser level equipment.
- Pre-comission cleaning and chlorination including samples and certification.
- Full commissioning of tanks and equipment.
- A comprehensive range of float valves and other connections.

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