

GARDEN ANGEL RWH SYSTEM



GARDEN ANGEL APPLICATIONS

Suitable domestic rainwater harvesting applications for irrigation and single toilet flushing.

- Residential properties
- Garden waterereng
- Toilet flushing
- Hosepipe ban circumvention

PRODUCT OVERVIEW

The Garden Angel range of rainwater harvesting systems are a compact, simple and cost effective solution designed to make it as easy as possible for the home owner to install.

The Garden Angel is a simple to use system that strips away complicated and expensive aspects of most rainwater harvesting systems to provide an affordable rainwater harvesting solution for your property.

The Garden Angel is easy to install, delivering pressurised, filtered harvested rainwater to outside tap(s) or single toilet cistern.

Available in a range of different capacities, from 1000 litres up to 6000 litres. Each chamber is made from industry leading tank-grade HDPE for a strong and durable system design.

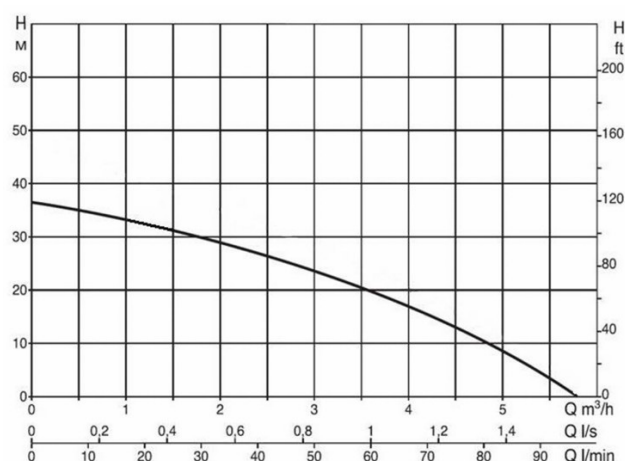
This is paired with a DAB submersible pump for stable and reliable performance.



PRODUCT FEATURES

- Easy trouble free installation.
- 110mm inlet & overflow.
- Integral self cleansing filter system.
- Calmed inlet to prevent sediment buildup.
- Super robust HDPE chamber design.
- Reliable 230v submersible pump.
- Internal pipework.
- Recessed covers are available as an extra.
- Optional UV filters are available
- Full install guide with each system

PUMP CURVE



CHAMBER DETAILS

Capacity (l)	Dia (mm)	Depth (mm)	Inlet Depth (mm)	Outlet Depth (mm)	Access Cover (mm)
1000	1000	1500	450	516	600 x 600
1400	1200	1500	450	516	600 x 750
2200	1200	2000	450	516	600 x 750
2400	1500	1500	450	516	900 x 900
3300	1500	2000	450	516	900 x 900
5000	1800	2000	400	500	900 x 900

TYPICAL INSTALLATION

Below you can find an overview of the Garden Angel system. In the example below we have shown 1200 litre option.



INSTALLATION GUIDELINES

Specific site conditions should be considered when designing concrete backfill and should be designed to bear any loads which may be applied during and after installation to prevent the tank from being subjected to these loads.

In locations where the excavation will not safely maintain a vertical wall, it will be necessary to shore up the side walls of the excavation with a suitable trenching sheet and bracing to maintain a vertical wall from the bottom to the top of the excavation.

DO NOT completely remove the shoring system until the backfill is complete, but before concrete fully hardens.

INSTALLATION

In areas where the water table is above the bottom of the excavation or where the excavation is liable to flood, dewatering should be carried out using a suitable pumping method.

During installation care must be taken to ensure that the body of the unit is uniformly supported so that 'point loads' on the unit are avoided.

Excavate a hole of sufficient length and width to accommodate the tank and a minimum of 250mm thickness of concrete surround - and to a depth which allows for the depth of the unit plus the concrete base slab and haunch. Also take in to account proposed inlet invert depth.

Construct a suitable concrete base slab to site conditions. Ensure that the slab is flat and level.

When the concrete base slab has set enough to support the unit, lay a concrete haunch along the middle of the cast slab to provide even support under the unit.

Lower the unit onto the haunch using required lifting equipment. It is important that the unit is sat level after installation to allow correct operation of the internal components.

Pour approximately 300mm depth of clean water into each chamber of the unit simultaneously.

DO NOT OVERFILL OR USE VIBRATING RODS

Pour concrete backfill to approximately 300mm depth under and to the sides of the tank ensuring good compaction to remove voids.

Continue pouring concrete backfill, ensure you are keeping the internal water level no more than 300mm above the backfill level at all times until the backfill is just below the underside of the outlet connection, leaving sufficient room to connect the inlet and outlet pipework.

Connect inlet and outlet drains and vent pipes when safe access to the backfill can be gained.

Should you wish to connect in and outlet pipework that is not immediately compatible with the fittings on the unit, proprietary flex seal couplings can be obtained to fit over the outside of the site pipework and the outside of separator connection.

Continue backfilling with concrete over the tank body to the required level.

Build up a shell of concrete, minimum 250mm thick, around the access shaft(s). Temporarily strut the access shaft to avoid distortion.

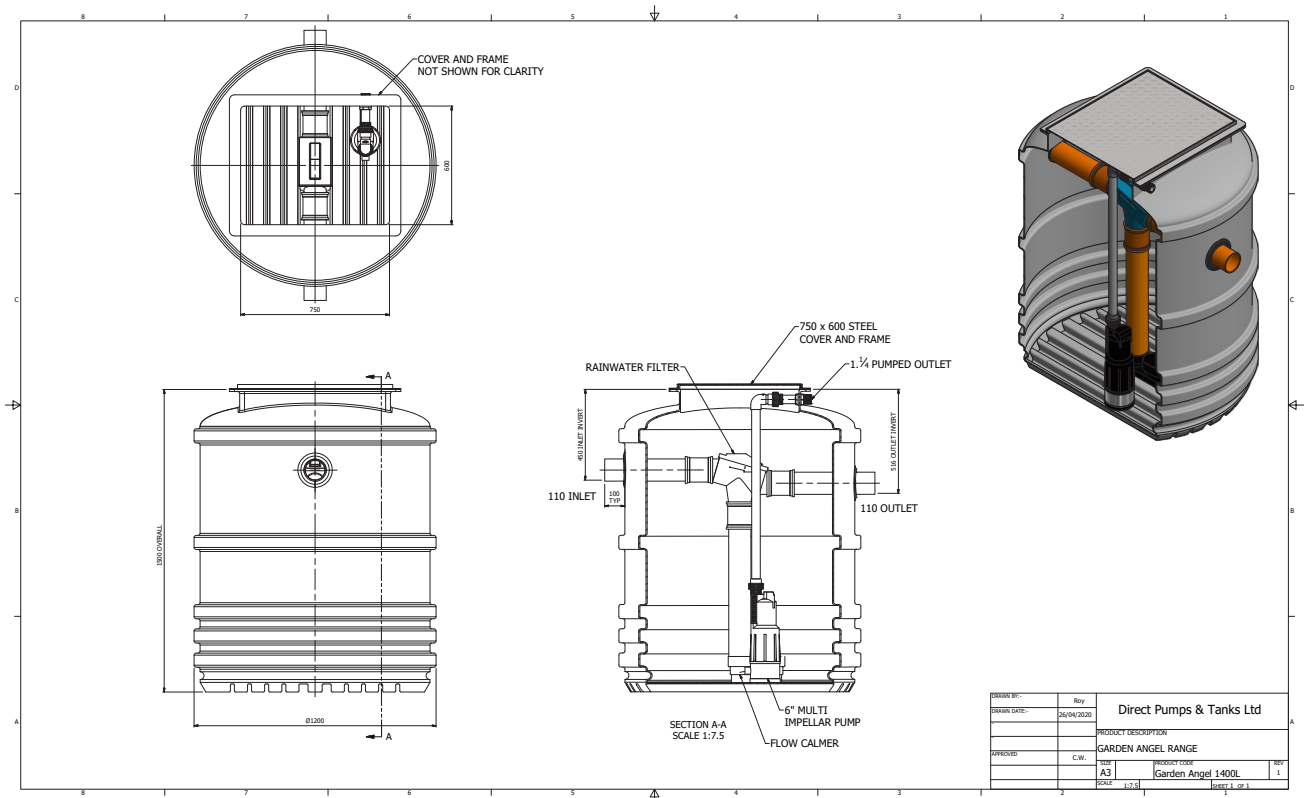
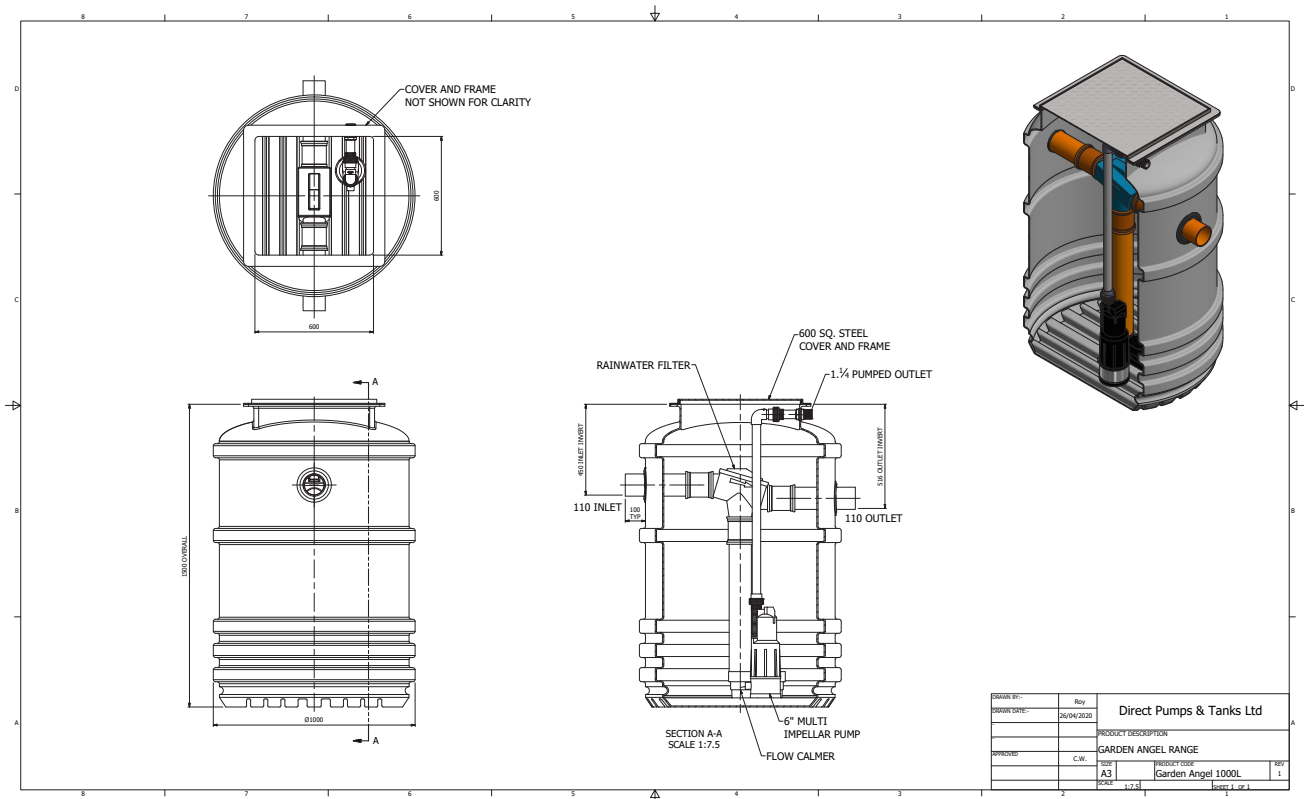
Vent sockets should always be placed as high as possible.

Add 250mm to the tank in questions dimensions, this will show calculate your minimum excavation size

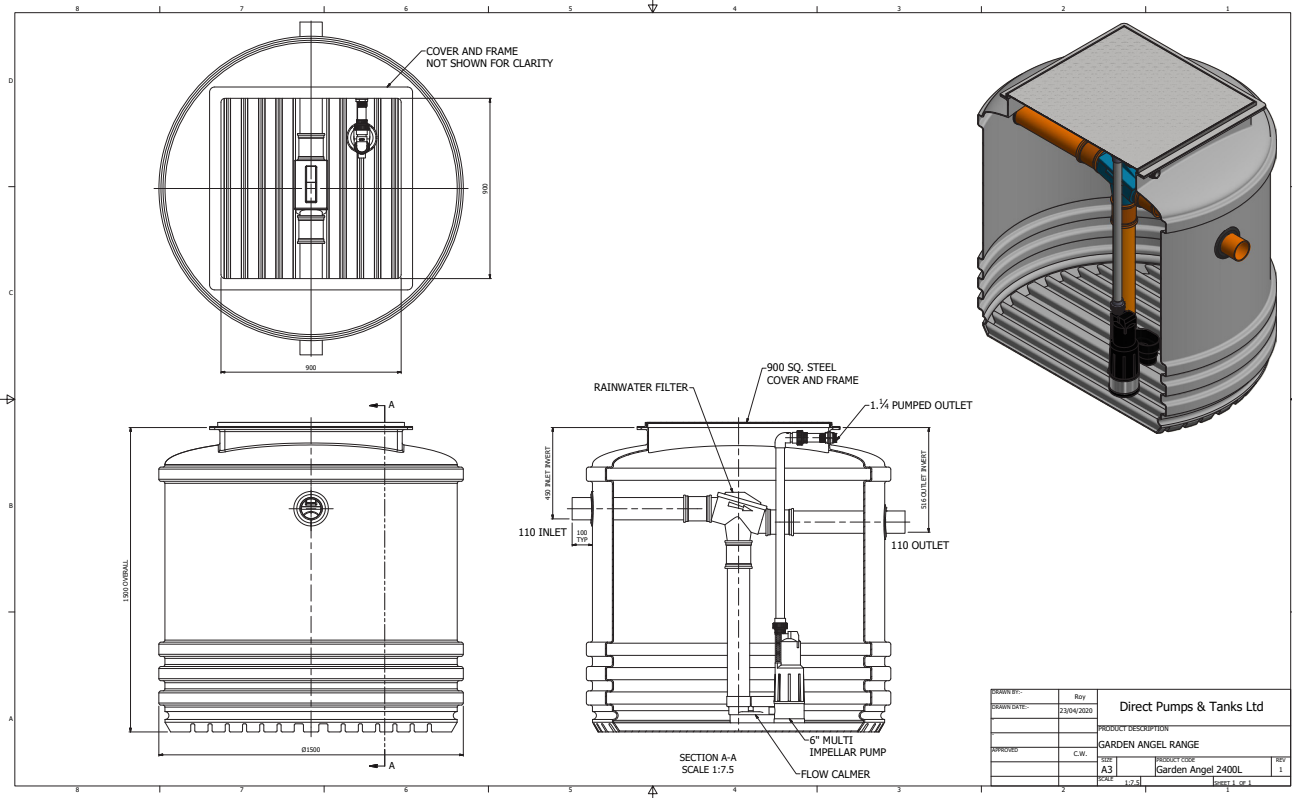
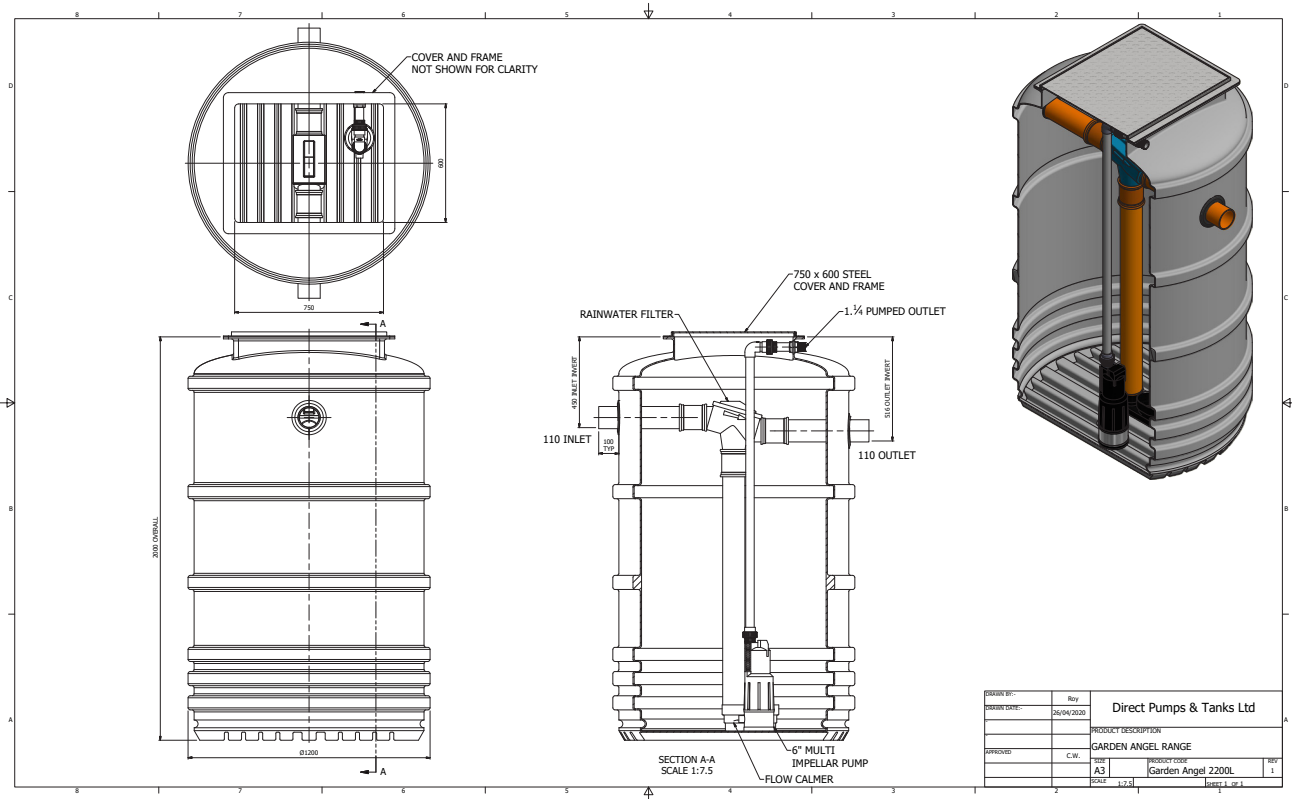
Please see the below example installation with tank with minimum 250mm full concrete surround

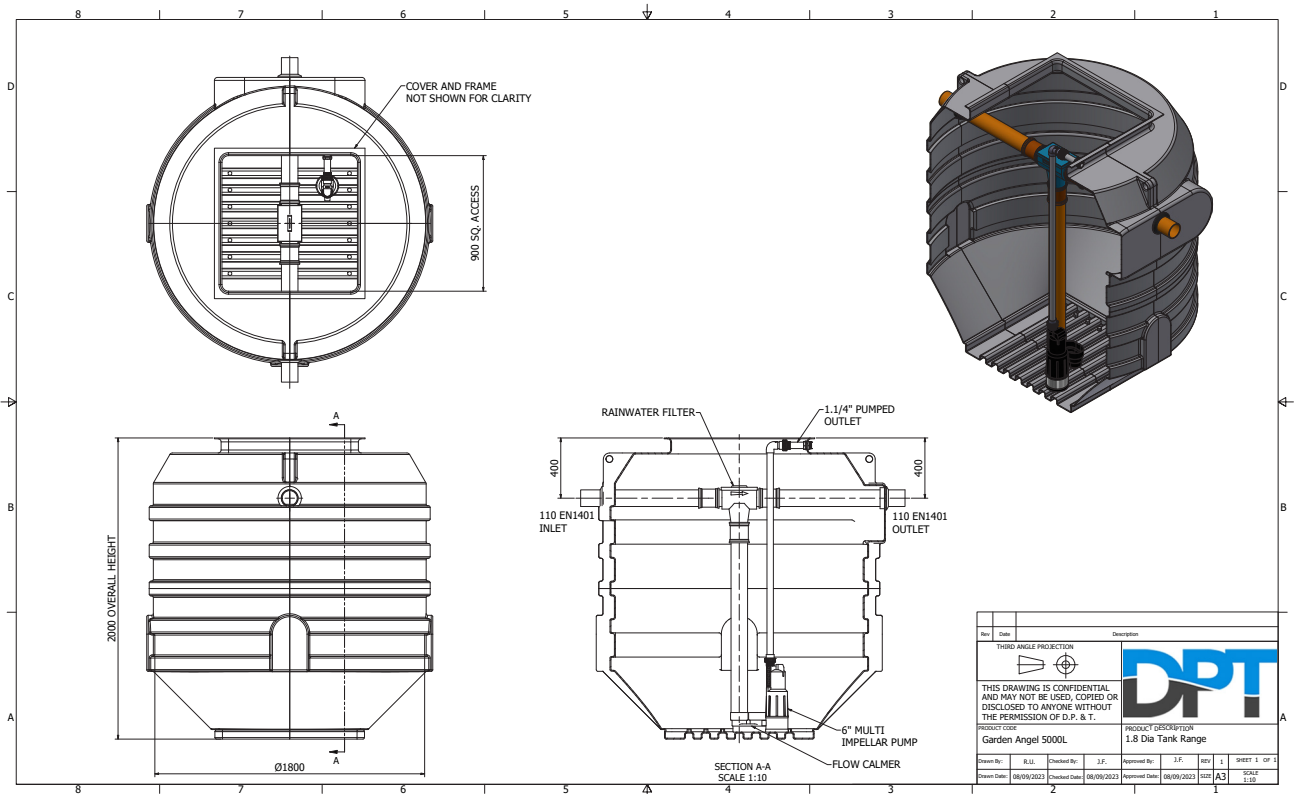
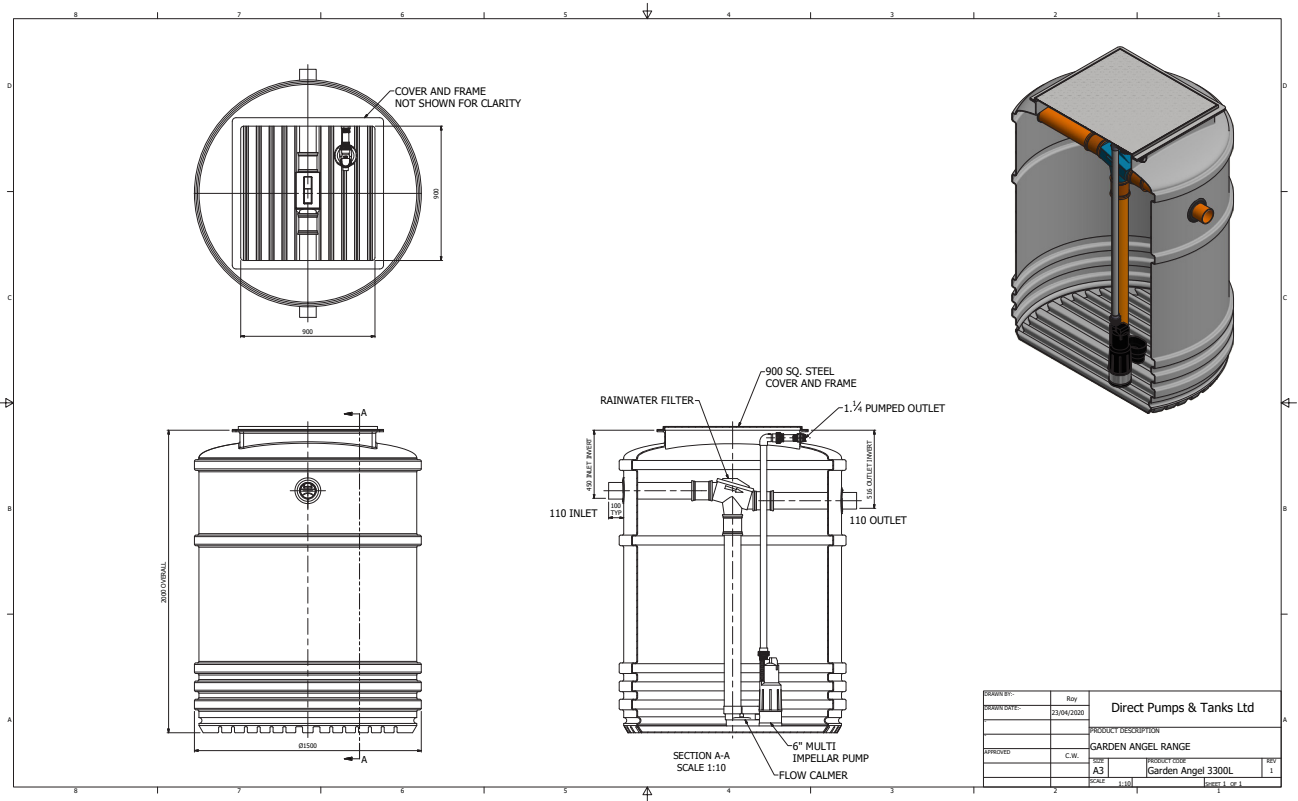


SYSTEM DRAWINGS



187 LITRES (AG)







COMMISSIONING & SERVICING

Cold water booster sets require care and maintenance, that's why we offer unmatched support packages and commissioning to compliment your purchase.

- Commissioning
- Call outs
- Scheduled maintenance
- Chlorinations
- Service packages to suit requirements

WHY SERVICE YOUR BOOSTER SET?

An active service agreement vastly reduces the risk of equipment failing by ensuring that your cold water booster set is kept in working condition 24 hours a day.

Our team of highly experienced engineers can spot potential issues before they turn into a problem which could potentially damage your equipment which would lead to higher costs and disruption to your environment.

We'll always remind you when services are due and we'll make sure appointments are booked in well in advance to ensure our duty of care to the customer.

NATIONWIDE COVERAGE

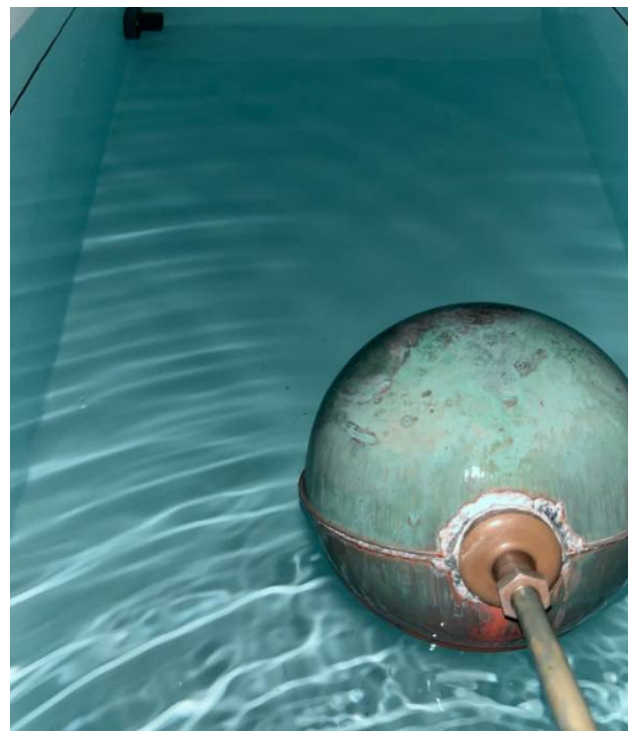
We cover the vast majority of British Isles, this means we have engineers in place to get on-site quickly with the skills required to service your equipment.

All of our engineers are expertly trained and have a wide range of industry leading certifications, so you can be sure that any work is undertaken by a registered professional. Each engineer carries a wide range of tools and replacements to get your system up and running as fast as possible.

COMMISSIONING

It is highly advised to have your new cold water booster set commissioned by a DPT engineer to guarantee the installation has been done correctly. During the commissioning visit a DPT engineer will carry out the following tasks:-

- Set pump parameters
- Electrical connections of pump
- System cycle and test
- Evaluation of installation
- Commissioning certificate upon completion



PLANNED MAINTENANCE

Regular maintenance of your cold water booster set is vital to ensure a long life, it is recommended that you have a yearly service of your equipment.

Each service will incorporate the following checks and adjustments:-

- A detailed inspection of mechanical components
- Full control system functionality check
- System adjustments where needed
- Visual inspection for leaks and operational issues
- Small remedial works where needed
- A full service report detailing all work

PRODUCT WARRANTY

DPT offers a full 1 year warranty on our products for a period of 12 months from the date of invoice.

Upon arrival, your cold booster set will come with a warranty card outlining all terms and conditions.

Extended warranties are available through service packages we can provide,

CHLORINATION

Water Utility companies will not allow connection of new water equipment onto their system until the system has been disinfected correctly.

We can provide services to issue certification of disinfection complying with local water authorities own specification to prevent the contamination of the water supply.

The external mains disinfection and chlorination is vital (and mandatory) to maintain the quality of the drinking water supply, this ensures that the water systems are safe to supply potable/wholesome water to outlets for drinking water and showers.



CONTACT DPT

If you would like to know more about this product, the services we offer, or have any questions, please contact us:-

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