

Underground Water Tank Installation

Please note that we provide installation guidelines only. We strongly advise that you contact a local builder who will be able to assess your soil conditions and advise you accordingly.

Excavation

- Allow 100-150mm all round the tank.
- Use suitable planking and strutting as necessary.
- Dig out trenches for pipe work and inline filters.

The Base

- The tank must be installed on a firm, smooth, level concrete base built in accordance with good building standards and engineering principles.
- The depth of concrete used must be appropriate to the size of the tank and soil conditions.



Installing the Water Tank

- Once the concrete base has dried, lower the tank into the hole. Make sure that the tank is sitting flat and true before filling it with water.
- If you have been supplied with a neck ring, this should be cut to length to finish flush with the ground. If the neck ring is loose, apply some silicon seal. *Please note that the tank lid is designed to withstand foot traffic only. The neck ring must not finish any more than 500mm below ground level.*
- To stop the tank from rising up out of the ground when the water table

rises, we recommend that you backfill a minimum of 450-460mm deep around the tank with concrete. *If you live in a high water table area or in clay soil conditions, then we recommend that you completely encase the tank in concrete. If you are unsure, contact your local builder.*

- Once the concrete has set, backfill any remaining space with pea shingle and surround materials.
- Superimposed loads should NOT be allowed within the protection area which is a minimum 2m from the outer edge of the tank. If this cannot be followed a reinforced concrete slab must be designed and installed by a qualified civil or structural engineer so that no loads are transmitted directly on to the tank.

Aftercare

Most underground water tanks do not need aftercare immediately. If the water is undisturbed for a period of time, it may become stagnant. Over years of use the tank may require cleaning, which can be done using a mop.

Filter Box Installation

- The filter box can be installed anywhere along the inlet pipe *between the tank and the down pipe*. Ensure you can gain access to the filter for cleaning. *Please note that the filter box lid is designed to withstand foot traffic only.*
- Run your pipe work, ensuring that the inlet from the filter has an adequate drop to ensure water flow. A fall of 25mm every meter is recommended.
- Ensure the inlet pipe from the down pipe, is fitted to the 4" connector on the filter box with the 90° elbow on it.
- Back fill the area around the filter box with pea shingle.



Fitting a Pipe to Underground Water Tanks

- Drill out the hole for the pipe using a 108mm hole cutting saw.
- Cut the 110mm pipe square, using a fine tooth saw.
- Chamfer the end of the pipe, using a medium file or rasp.
- Remove dust and filings from the end of the pipe
- Push the pipe into the hole drilled in the tank. The end of the pipe can be lubricated

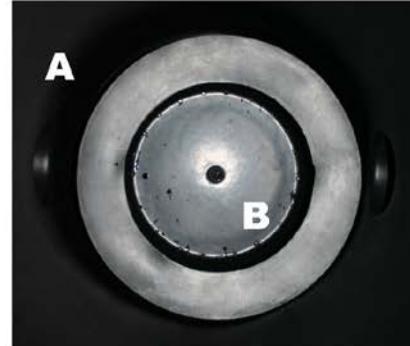
UNDERGROUND FILTER - SET-UP

- 1x **A** : Filter chamber
- 1x **B** : Filter Basket
- 1x **C** : 90° elbow calmed inlet
- 1x **D** : Mini filter basket
- 1x **E** : Lid



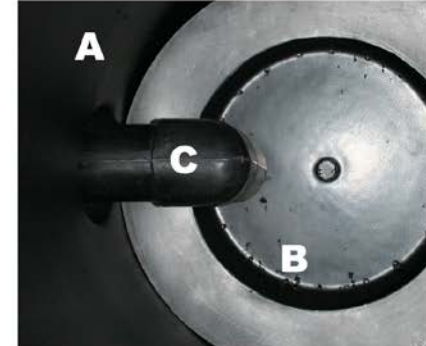
Step 1

Lower the basket filter into the chamber



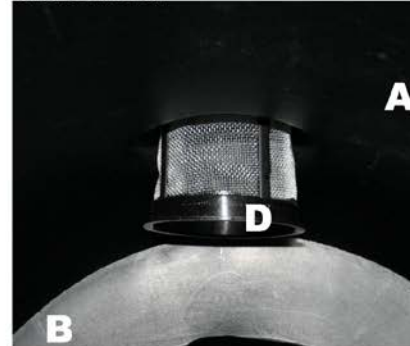
Step 2

Insert the calmed inlet elbow in to the smaller of the two holes.



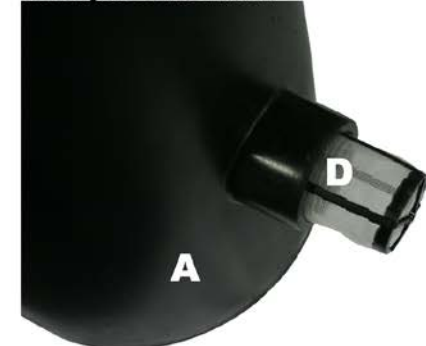
Step 3

Insert the mini basket filter into outlet hole.



Step 4

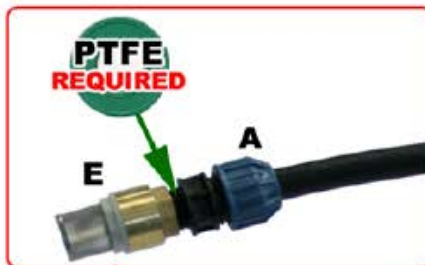
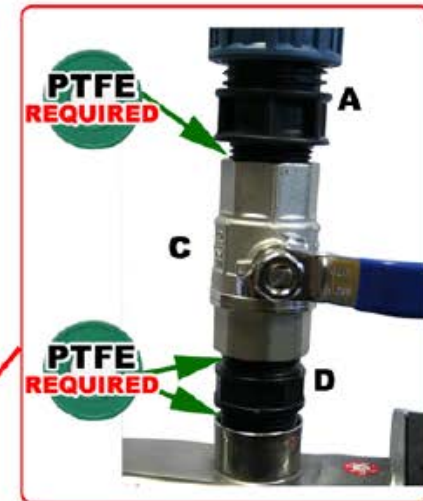
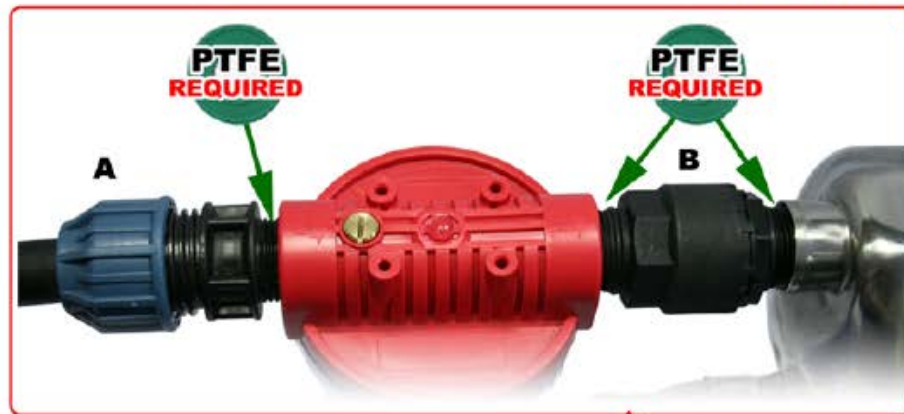
Pull the mini basket filter through to expose the filter.



Once all the steps above are complete, place the lid (E) on the filter chamber.

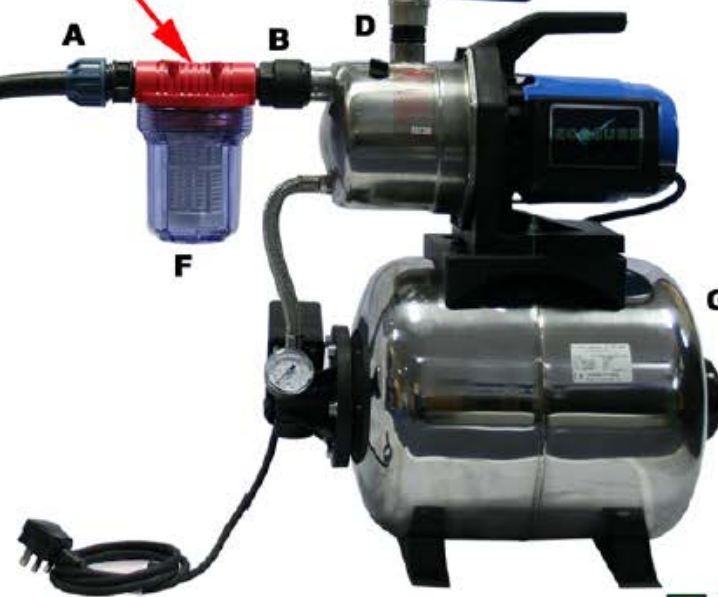


SUPER COMPLETE PLUS PUMP SET



To Underground Water Tank

To House



- A x3:** 1" mbsp x25mm compression fitting
- B x1:** Non-Return valve
- C x1:** 1" bsp Isolator valve
- D x1:** 1" bsp hex nipple
- E x1:** Foot valve with strainer
- F x1:** Inline Filter
- G x1:** Water Pump

ECOSURE

SOLENOID SETUP

