

Installation Instructions for the 450 litre systems

Mini Pump Stations are manufactured from high density polyethylene and are extremely robust. However as with any pre formed chamber they are susceptible to floatation and hydrostatic pressure exerted in high water table conditions.

It is important to read these instructions which are for guidance only as it is the contractor's responsibility to satisfy themselves that the installation procedure is in accordance with the prevailing ground conditions and good building practice, to eliminate any potential damage to the pump station either during or after installation.



1. Check that no other structure or special access is required over the selected spot. Provision can always be made, if necessary, to place the tank on a roadway provided that protective backfill is placed around it and a suitable duty manhole cover and frame are used over the opening.
2. Check that no underground cables, pipes or service ducts lie beneath.
3. Excavate the minimum opening in the ground to receive the tank and pipe work to be used.
4. The depth of excavation needs to be at most 150mm deeper than the overall tank depth. This extra depth is required to allow for the construction of a hardcore / concrete base.
5. A dewatering pump may be required to control any ground water present
6. Some clean hardcore should be placed and consolidated in the base of the excavation. Usually this will need to be about 50mm thick.
7. Lay concrete to a minimum thickness of 150mm on top of hardcore and compact down. Dry mix can be used if the ground conditions are very dry.
8. Lower the tank onto the damp concrete base, allowing the base mouldings to settle in. Ensure correct orientation of the inlet / outlet pipes and other connections.
9. Pour concrete surround in situ to a thickness of approx. 100mm (dry mix can be used in dry ground conditions). Care must be taken to ensure that any pipes or other connections made are not damaged.

Inlet

The Mini is provided with a 110mm inlet seal – this is supplied loose. A 120mm hole-saw will be needed to fit the seal. The 110mm inlet seal can be drilled anywhere on the chamber, but no lower than 300mm from the bottom of the chamber; this is to ensure that the pumps can operate correctly.

Cable Duct Pipe Work

The Mini has been designed to accept 40mm standard low pressure push fit pipe.

Electrical Connections

The pump and high level alarm (if ordered) are to be electrically connected to a non switch fused spur (total of two). These spurs should have their own dedicated supply from the main fuse board. It is advisable to leave 500mm of the pump electrical cable in the sump to allow for servicing of the pump outside the sump.

Pump Float

Ensure the float does not foul the chamber sides. It may be necessary to rotate pipe work on the pump to achieve this as there may have been some movement during transit.



Discharge Pipe Work

The Mini has been designed to accept 2" standard solvent weld discharge pipe. The tank is terminated in a 2" BSP male thread. For all pipe work and glue please see our pipe work and accessories page.



Application

Mini Pump Stations are designed to collect foul water from basements and ground floor extensions where other facilities in the property discharge via gravity. The most common applications would be to collect foul water from a WC and /or utility room and then discharge it to the main sewer.

Maintenance

The Mini is manufactured using high quality components designed to give a long trouble free life – with any type of mechanical equipment regular preventative maintenance is important to keep the product working efficiently on a day to day basis. We recommend this system is serviced yearly by specialist pump engineers.

Contact us on [0161 3995465](tel:01613995465) to discuss annual maintenance.