

TRITON BATTERY BACK-UP PUMP SYSTEM

DESCRIPTION & USE

The TRITON BATTERY BACK-UP PUMP SYSTEM is a 12-volt battery operated pump system designed for use in conjunction with the Triton Aqua Pump kit. Its unique design gives the client peace of mind knowing that their water pumping system can remain operational and their basement can remain dry, even in the event of a mechanical breakdown of the primary pump or a temporary power failure.

The battery back-up system consists of a 12-volt battery, a 12-volt pump, a battery trickle charger, float switch and a compact waterproof housing. All electrical and mechanical parts are located within the housing, which is sited away from the sump chamber; this ensures no contamination from water.

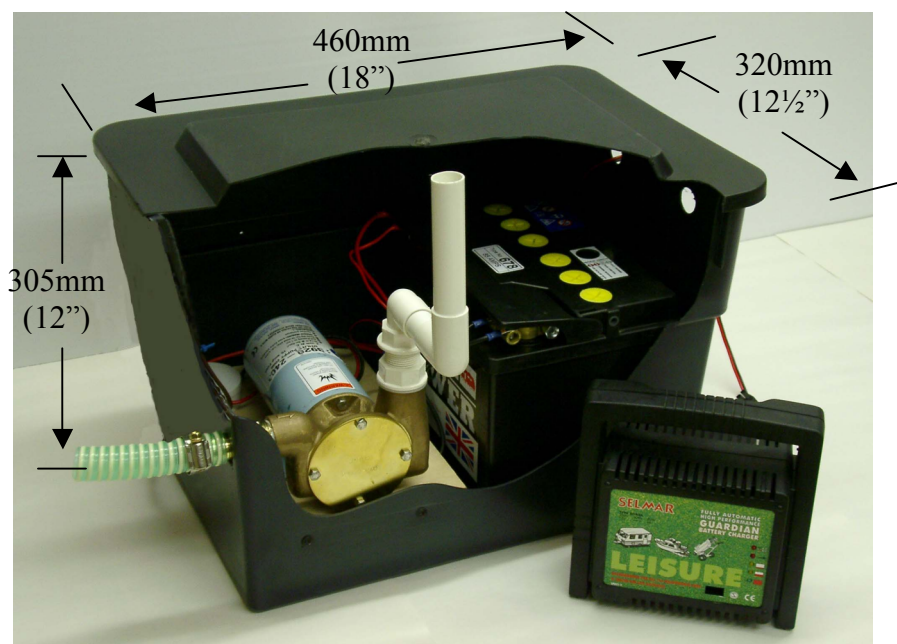
The pump, which is located within the housing, is connected to the sump chamber by a suction hose. The pump operates when the float switch, in the sump chamber, is engaged. The pump draws the water from the sump through the pump and to a suitable drainage point.

The 240v trickle charger maintains the charge in the battery whilst the mains power is live. In the event of a power failure the charge held within the battery will operate the pump. When the power is reinstated the trickle charger will boost the battery back-up to full charge.

During a power failure the expected continual running time of the 12v pump with a fully charged battery would be approximately 6.0 hours, but most commonly the pump would run intermittently for 1 minute at a time. Therefore greatly extending the functional life.

The 12v pump has a maximum output of 1920 Lph and can operate in excess of a 6m vertical head.

IMPORTANT NOTE: The Triton Aqua Pump must only be used for pumping ground water. The pump should not be used to pump grey water from; sinks/washing machines/dishwashers/condensing boilers or effluent. Triton Chemical Manufacturing Ltd will not accept responsibility or liability for pump failure or damage caused due to the misuse of the pumping system.





TRITON BATTERY BACK-UP PUMP INSTALLATION

Position the Battery Back-up Pump kit in the desired location. **NB** the flexible suction hose should not be extended greater than 1.8m from the base of the sump chamber.

Run the flexible suction hose from the sump chamber (allowing approximately 50mm of hose off the base of the sump) and secure the hose to the side of the chamber with the clips provided.

Connect the outer end of the flexible suction hose to the pump inlet with the jubilee clip provided and secure tight.

The battery pumps float switch is secured within the chamber to the vertical discharge pipe that extends from the primary pump, with a clamping bracket. **This will normally be pre-fixed in place around a section of vertical discharge pipe when delivered with a primary pump i.e. the Aqua pump kit or Aqua Pump Plus Kit.** If it is found that the float switch and clamping bracket are not pre-fixed around a section of vertical discharge pipe, then the float switch and clamping bracket must be fitted, positioned and adjusted so as to ensure there is free movement of the float switch in the sump chamber, the float in the relax off position should measure 14cm from bottom of the float to the base of the sump basin.

Connect the battery pump float switch cable/wire to the connector block located inside the back-up pump housing.

Solvent weld the discharge pipe to the pump outlet and connect this water discharge pipe to a suitable drainage point: - Drainage Gully, Stack pipe using a 'Boss Connector' or T-Connector.

Connect each battery cable to the correct battery terminal and tighten the connector bolts and then plug-in the battery charger to the power supply. The battery will begin to charge.

The battery charge state is indicated by the L.E.D display on the charger. Once the battery is charged, fill the sump chamber with water and test the battery back-up system several times to ensure it is fully operational.

MAINTENANCE

It is recommended that the Triton Battery Back up system is maintained/serviced at a minimum every six months. This should be carried out by a competent contractor (under a maintenance contract) or by the property owner. During this service the principle pump/s should be temporarily isolated then the battery back-up pump float switch should be tested and checked it is working properly. The sump chamber should be filled with water and the battery back-up pump should be run so that the water is discharged from the sump chamber, which ensures that the pump is fully operational.

The distilled water levels within the battery should be checked and topped up as necessary to ensure the cells do not run dry. Any defective parts must be replaced/repaired to avoid failure of the system.

We recommend records of each service be kept by the property owner.

For further information please contact:

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