



JOHNSON PUMP
AN SPX BRAND

Instruction Manual
Grey Water Tank
With Ultima Switch, 12/24 V DC



Read and understand this manual prior to operating or servicing this product.

IB-122/02 (1012)

SPX[®]

Grey Water Tank

Application & Specification

The Grey water tank is designed to collect waste water from showers, sinks, dishwashing machines, etc and have the possibility to have different diameters of inlet (19 mm, 25 mm and 38 mm) and outlet (19 mm and 25 mm) ports. The tank includes an Ultima Switch for automatic operation of a sump pump. We recommend the Viking Power 16, 10-13350-03 (12 V) or 10-13350-04 (24V) and the tank is prepared for fixation of the pump. The Ultima Switch uses no moving mechanical parts to sense the water level in the tank and controls automatically a 12V DC or 24V DC pump.

If the tank is intended for use for any other purpose or with any other liquid, it is the user's responsibility to ensure that the tank is suitable for the intended use.

The waste water from shower trays and sinks etc enters the tank through one/several of the 8 inlet ports, see Fig. 2. The water level rises in the tank and when the level reaching a sufficient level, the Ultima Switch activates the sump pump.

The Grey Water Tank is made from polyethylene and holds approx. 10 liters (2.5 US gals) of water and has a large lid for easy access when cleaning the tank. The breather line function is to evacuate air when grey water is filled into the tank.

Security

- Always install the switch according to the wiring diagram, see Fig. 1
- The wiring connections must be sealed with a marine sealant
- The Ultima Switch is designed for 12 and 24V DC operation only. Do not use any other voltages; do not use AC or AC-DC converted power sources.
- Handles pumps up to 20 amp.
- Failure to use the appropriate fuse and connecting wires according to the instructions provided will void any warranty and may cause serious damage or personal injury.

Installation

The grey water tank should be mounted horizontally with screws and washers, via the four feet on the tank. Install the switch according to the wiring diagram; see Fig. 1. It is recommended to use a 3 way switch, 34-1224 (12V) or 34-1225 (24V) thus allowing manual control of the sump pump.

Use the four screws and washers, which are included, to assembly the Viking Power 16 to the tank, see Fig 3. If other screws are used, the tank could be damage.

The tank comes with different diameters of inlets and outlets ports see Fig. 2. The ports are opened by drilling a hole using the pilot mark for guiding. The recommend size of the drill is stated in Fig 4. After drilling the holes connect the hoses to the tank. Check that no leaks occur. Drill the holes for the breather line according to the diameters in Fig. 4. Connect the air breather line according to Fig. 2 and Fig. 5.

Warning! Always place the outlet of breather line above water level even if the boat is leaning or rolling.

Test

To test the function of the Ultima Switch hold two fingers over the two raised circular areas on the Ultima Switch for 10 seconds. If the wiring is correct the pump will activate. If you remove the finger from the top circle the pump should still be on. Afterwards remove also the bottom finger from the circle, the pump should no longer run after a short delay. Make also sure to test the Ultima Switch with water in the tank to confirm that the pump will turn on and off properly.