

INSTALLATION GUIDE

Waterboy Wizard Rainwater Enclosed Bypass System

To be installed by a licensed plumber in accordance with
AS/NZ 3500.1

Please read the following instructions as failure to install and commission correctly can cause the system to operate incorrectly. This could void the warranty and result in a return call by the plumber/installer.

This system is not designed to supply drinking water.

You must consider the following before installation;

- **Must have a 25mm or 1" inline filter fitted between the tank and the pump.**
- **To be located within 3 metres of the tank.**
- **To have stop cocks/isolation valves fitted to the mains and tank supply inlet connections.**
- **The Pressure Limiting Valve supplied with the system MUST be installed.**



Waterboy WIZARD

Location of the Waterboy Wizard

The Waterboy Wizard must be located within 3 metres of the tank outlet and with a 240VAC power point within a metre. A stop cock or isolation valve must be fitted to the mains water supply which is to be regulated by fitting the Pressure Limiting Valve supplied with the unit. Ideally there should also be a stop cock or isolation valve fitted to the tank.

Assembly of the Waterboy Wizard

- Check that there are two 20mm flexible hoses, one piece of 25mm high pressure PVC pipe fitted with male adaptors, operating instructions for the controller and pump, Inline Filter & Pressure Limiting Valve in the pump housing base.
- Remove the above from the packaging.
- It is essential that when connecting the Waterboy Wizard you brace the valve train against turning when following the next two steps to prevent breakage and leaking.
- Thread one of the 20mm flexible hoses through the casing marked as “20mm Mains In” the male end to go onto the valve train using a suitable sealant, ensuring that it is supported against twisting
- Thread the other 20mm flexible hose through the casing marked as “20mm Mains Out” the male end to go onto the valve train using a suitable sealant, ensuring that it is supported against twisting
- Thread the 25mm high pressure PVC hose through the casing marked “25mm Tank Draw Line” to the inlet of the pump using a suitable sealant.
- The final positioning of the flexible hoses is up to the installer to allow ease of connection to his pipe work.
- Please ensure the Inline Filter is installed between the tank and the Waterboy Wizard system.
- The Pressure Limiting Valve must be connected to the female end of hose to the water supply.



← Pressure Limiting Valve as fitted to hose

The unit will have three external plumbing points when ready to install.

- 1) Connection to the water tank (25mm on pump through an inline filter)
- 2) Water supply to the laundry/toilet or garden tap (20mm to valve train)
- 3) Mains water supply (20mm on valve train)

The system contains an approved dual check valve to provide zone protection.

Note: The hazard rating for backflow prevention in the area you are fitting the pump may require a higher level of protection. The licensed plumber installing the pump can advise you on this.

Commissioning Procedure

- Connect the water tank to the Inline Filter. It is recommended to use a flexible hose from the tank.
- Connect the mains water supply (20mm) to the Waterboy Wizard. Do not turn mains water supply on at this point.
- Connect the Waterboy Wizard outlet to the water supply line for the laundry/toilet or garden tap.
- Fill tank to a level above the draw off point (see Important Note).
- Turn on the water supply from the tank.
- Prime the pump by removing the priming point from the top of pump chamber and allowing the tank water to fill the pump chamber, or by filling the pump chamber with water from an external supply. Once this is done refit the Priming point (see Figure 1.1).



- Turn on the power supply (at power point and on pump switch) which will start the pump, this will run until the air in the system is pressurized.
- At this stage turn on the Mains water supply

Figure 1.1 Priming Point

IMPORTANT NOTE

Should it not be possible to fill the tank to the required level the system may be connected to the supply and outlet connections, the mains water can then be turned on but the power to the unit should not be connected until there is sufficient water in the tank and the pump primed as per the Commissioning Procedure. **Do not run the pump without it being primed.**

After all connections are made and the unit commissioned (as above) the mains water change over can be tested by switching off the power supply and turning on the tap activating the mains water flow.

To return the system to run on the tank water supply, turn on the power supply.

The system will now operate on tank water and will automatically switch over to mains water when the tank is empty or at a low level or there is a power failure. Once the tank has refilled to a level above the draw line the Waterboy Wizard will revert to using the tank water.

Troubleshooting Guide

Complaint	Possible solution
Pump not working when tap turned on.	Check that power is available and turned on at both the power point and on the switch on the pump.
Pump running but cutting out after a short period of time	Check that there is water in the tank above the draw line and that the tap on the tank is open.
System running on mains water only.	Check that power is available and turned on and that there is water available in the tank.
System running on mains water and tank water at the same time.	Check that the solenoid is connected.
Pump runs but no water is pumped through the system	Check that the pump has been primed (refer to commissioning section).

