



## Handover pack

# Information for the home owner or user

Your home has been fitted with a state-of-the-art rainwater harvesting system. This permits you to reduce the amount of mains water you use and therefore reduces your mains water bill. Please take a moment to look through this “handover pack” so that you know the information available to you when you might need it in the future. The user manual does contain the installation information, but you might like to be aware of those aspects too.



If you have this pack then your rainwater is stored in an underground tank and supplied to the toilets by gravity feed controlled by the Rain Director<sup>®</sup>. This is designed to optimise the water flow from a rainwater harvesting system to the appliances and the garden in a typical house. Its intelligent **header tank** (in the roof space), **control panel** (at ground level) and **pump** (submerged in the rain harvesting tank) provide water supply under gravity wherever it's needed while reducing power consumption, reducing pump wear and ensuring clean water at all times.

The Rain Director<sup>®</sup> enables sufficient rainwater to be stored in a header tank to meet the daily needs of a household's toilet cisterns, without continually running the pump. The

Rain Director<sup>®</sup> allows the water in the header tank to be used before refilling, which therefore reduces the cost of electricity; pump wear and tear by not pumping water every time a small amount is used. The Rain Director<sup>®</sup> allows the household to use rainwater as needed and reduces the amount of mains water used. It also makes mains water available in the event of a long drought or a mains electricity failure. While normal function requires no user input, the control panel provides additional functions at the push of a button. Backup systems ensure fail-safe operation and continuity of supply.

Using the unique technology built into the copper level sensor within the header tank, data is provided to the control panel, which then commands the 3 electrically operated water valves alongside:








- 1) The rainwater solenoid valve controls the inflow of pumped water from a submersible pump in the underground rainwater storage tank. When the valve opens, the pump registers a drop in pressure and supplies water to the header tank until a “tank full” signal closes the valve.
- 2) The mains water solenoid valve is connected to the mains water supply. This is used primarily as a back up water supply if the rainwater should run out.
- 3) The refresh (or “drain”) valve can be opened by the system to flush water out at any time.



In normal use the buttons on the control panel need not be touched. If the first light is on then the system is running on rainwater. If the second light is on then rainwater has run out and you are running on mains water.

If you have a short electrical power failure (less than about a day) there will most likely be enough water in the header tank to fulfill your needs. In the event of a power supply failure the control unit will automatically initiate the mains water bypass providing mains water under electricity is restored.

The LED lights on the right of the control panel indicate the status of the system:

<b>Rain filling</b>		A demand has been made on water supply from the header tank so rain water is flowing normally into the header tank.
<b>Mains water backup</b>		Mains water is flowing into the header tank because the underground rain water tank is empty.
<b>Mains water only</b>		"Mains water only" button has been pressed, typically to save rain water. Press "Normal" to revert to normal operation.
<b>Holiday mode</b>		The "Holiday" button has been pressed. The header tank has emptied its rain water and filled up with mains water. This is to avoid the rainwater getting yellow in the header tank. You may flush toilets with mains water before leaving the house.
<b>Refresh mode</b>		Existing water in the header has been discarded and new rain water is flowing into the header – either because user has pressed "Refresh" or because "Auto Tank Refresh" mode has been triggered by timer and conditions.
<b>Mains water not working (red)</b>		Rain Director <sup>®</sup> has also detected that the mains water is not flowing; this could be due to the home's mains stopcock being turned off, major leak or some other mains water failure. Investigate cause immediately.
<b>Power On</b>		Rain Director <sup>®</sup> has been turned on and is under electric power. Stays on during normal use. Flashes during "Set Up" mode.



## Shallow Dig Tank



The tank requires very little maintenance providing it has been installed in accordance with the manufacturers instructions.

Over time there will be a layer of silt that will build up at the bottom of tank.

It is recommended that once every 10 years the tank is emptied using a dirty water pump ( do not use the clean water pump supplied with the system ). Clean the side walls with a pressure washer and the base of the tank. Pump out any dirty water.

## Rain Vantage in-tank Filter

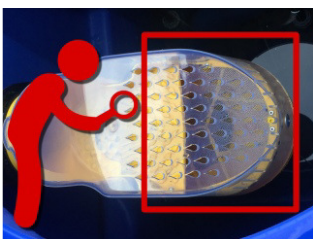
The filter is a self cleaning filter with a 1000 micron screen. Should there be a build up of leafs, moss etc on the screen the water will push the debris off to the overflow.

It is recommended to check the filter every 6 months ( normally after the Autumn fall ) to see if there is any debris on the filter screen.

Follow the instructions to access the filter :



Release child locks on the lid. (13mm bolt).



Inspect filter for visible large blockage.

If large or non moving debris is found refer to stage 3. If none is found refer to stage 6.

NB: Small debris will be periodically self cleaned during storms. Leaves, moss and other smaller debris will self clean and do not require removing unless obvious they are causing a blockage.



If a blockage has been found remove filter lid.



Remove debris, wash filter head under a tap.



Replace the filter head.



Replace the lid, ensure 13mm child safe locks are tight.

## General Comments :

The manufacturers would recommend that entire system should be checked for leaks, cleanliness and stability after six to twelve months. Whilst, checking for leaks on underground pipes is a tough call, keep an eye around the top of the tank for water-logged ground in the rare case that you have a pipe or tank leak.

Checking for stability is similar; you will notice pretty quickly if the tank moves or if there is earth movement or subsidence round the tank. If so, then you should get a groundworks contractor to find out the reason and re-establish a good surround of shingle or top soil round the tank.

If you have any questions or concerns please call our Technical Team on **01733 405111 Option 2**

Happy Harvesting!!