

Introducing ...

The low energy, sensor-controlled, intelligent...

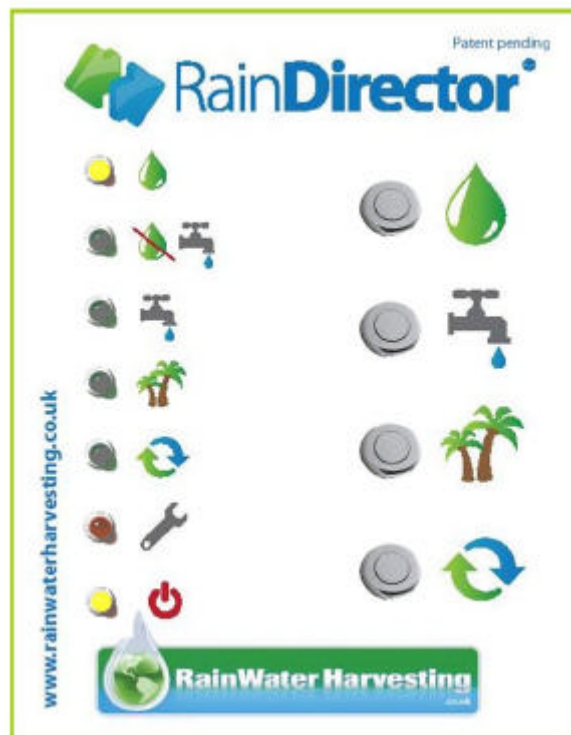


RainDirector®

- **Fail-safe mains backup, smart header tank**
- **Saves energy and prolongs pump life**
- **Avoids brackishness in header tank**
- **Assures water supply during a power cut**
- **Automatic and user-controlled functions**
- **Handy controls with no pump noise**

The Rain Director® ensures a constant head of clear rainwater for washing machines, toilets, the garden and other uses. A header tank in the home is controlled by electronic level sensors, valves and control panel. The advantages over normal rainwater pumping systems are:

- Variable rainwater level in the smart header tank (all water is used before it's refilled) eliminates pump cycling and reduces power consumption.
- The header tank only refills once it's completely empty (while normal rainwater systems make the pump start every time any amount of water is used) so wear on the pump and electricity usage are both reduced.
- Provides a constant flow of rainwater under gravity at any time, including during power cuts.
- Mains water backup is automated by level sensors not stop valve or ball cock.
- Rain Director®'s dashboard indicates present mode and allows special modes to be selected.
- Rain Director®'s auto-flush function detects when the occupant is away from home (for example, for holidays) and empties header tank to avoid rainwater there going brackish (dark coloured water and stained toilet bowl, to be avoided).
- On first fitting, Rain Director®'s set-up mode lets the control unit memorise the header tank size and flow rate of the mains and rain water inflow. This enables the time-out periods and operating water levels to be set. Ask for the technical specifications for further details.
- Rain Director® header tank has a built-in air gap for preventing rainwater from possibly entering mains water, as required by UK building regulations.
- Price is lower than that of Rain Managers and other mini header-tank systems.
- Pump remains in the rain water tank so, unlike normal Rain Managers, there is no pump noise in the house.



Available October 2008. Ref RWH-RD.
Launch price: RRP £723.40 ex VAT,
£850 including VAT and delivery
as at October 2008 – check web for current price.
Forta Duo type pump included
One year guarantee on all parts.

£723.40
ex. VAT

See over for more details

Problem 1: Typical rainwater systems have a pressure sensitive pump in or near the rainwater tank which maintains pressure on the pipe run to toilets, washing machines and any non-drinking-water tap. As pressure in the pipe run drops, the pump will start up again even when there has been no demand on the water supply. This creates a situation where the pump will cycle all day, i.e. turn itself on and off periodically, day and night. The moment of the pump starting draws a peak surge in power, which is repeated many times an hour. This effort also accelerates the wear on the pump bearings, seals and motor.

The Rain Director® solution: The low level sensor will start the pump only when all the water in the header tank has been used. No cycling. A 114 litre header tank will last for more than 10 full toilet flushes, or two clothes washing machine cycles. In a typical home the pump would only cycle about once a day. Less electricity used. Much less wear on the pump.

Problem 2: Rainwater in a header tank inside the house gets brackish after time (rainwater stored under ground is maintained at a temperature hardly ever above 5 degrees C, so it does not get brackish).

Rain Director® solution: Rain Director®'s auto-empty function detects when the occupant is away from home (for example, on holiday) and empties the header tank every three days. Unused water is returned to the underground rain water storage tank. When occupant returns home and starts using water, the system reverts to rain mode automatically.

The Rain Director® is built in the UK by ADL Products to the highest standards for, and under the control of, the leading provider of consumer rainwater harvesting products RainWaterHarvesting.co.uk. All components have been deigned to comply with WRAS (Water Regulations Advisory Scheme) and UK Building Regulations. WRAS approval process has been commenced and expected shortly.



Components:

1. Smart header tank for roof space, including two electric level sensors, the float switch, the overflow tower, inputs and outputs.
2. Rain Director® dashboard, control unit with mode indicators, programming buttons and control valves.
3. 1100w advanced pressure-sensitive pump similar to Forta Duo.

Further details are available in the Rain Director® "User Manual and Technical Specifications" available at www.rainwaterharvesting.co.uk/downloads/raindirector_manual.pdf.

Online and phone sales at
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www.RainDirector.co.uk

