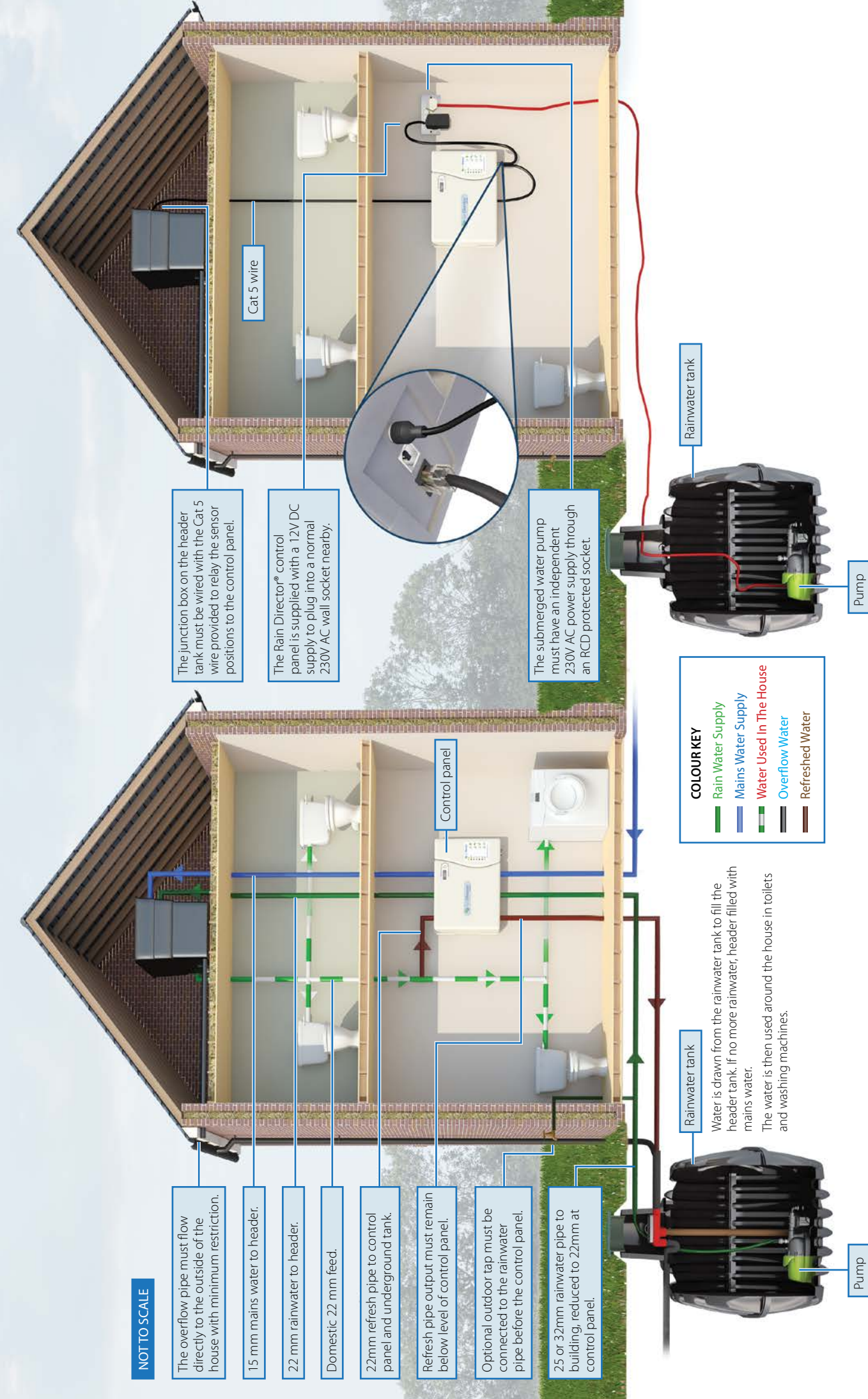




OVERVIEW

The Rain Director® rainwater management system includes a header tank, pump and programmable control panel that directs the flow of rainwater to washing machines, toilets, the garden and other uses. The smart header tank in the roof space is controlled by electronic level sensors. These sensors drive the valves through the programmable control panel. The result is a constant head of pressure of water to the toilet, washing machine or outdoor tap.

The advantages over direct feed rainwater pumping systems are:

- The header tank only refills once it's nearly empty (while normal rainwater systems make the pump start every time any amount of water is used) so pump cycling is eliminated, power consumption, wear and tear on the pump and appliances are all 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, on holiday) and refreshes header tank to avoid rainwater there going stale (yellowish water).



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 rainwater harvesting products Rainwater Harvesting Ltd.



All components have been designed to comply with the UK Building Regulations and WRAS (Water Regulations Advisory Scheme). WRAS Approval No.0912064 was awarded in December 2009.

CE Rainwater Harvesting Ltd. certifies that the Rain Director® is compliant with the safety requirements of the Machine Directive 89/392/EC and amendments, of the Low Voltage Directive 73/23/EC and in the Electromagnetic Compatibility Directive 89/336/EC and amendments. The materials and manufacturing of this product are guaranteed for 1 year from the date of purchase if the installation instructions are complied with and dirt has not been admitted to the solenoids. In the event of an apparent fault, the retailer or installer should be contacted first. Rainwater Harvesting Ltd. declines responsibility for incidents or damage caused by negligence or by ignoring these instructions.

Installation Guide correct for Rain Director RD01 models from March 2012 onwards. Check online for documentation for earlier models which have the order of pipes at the control panel reversed.*

Installation according to this guide and the comprehensive user and installer manual is required for manufacturers' warranties to be valid. For the Rain Director® variations RD02, RD03 or RD04 please refer in addition to the separate manual: http://www.rainwaterharvesting.co.uk/downloads/raindirector_variations.pdf

Technical Support Line 01733 405111 (opt. 3)



Scan our QR code with your smartphone to find out more.

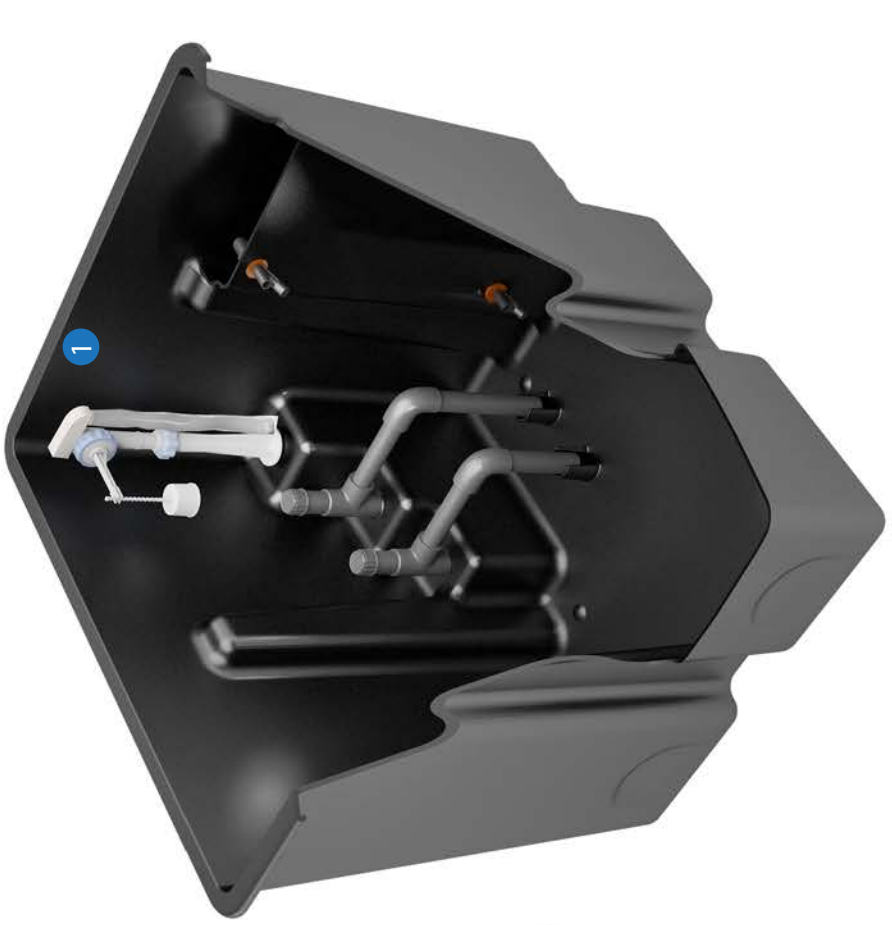


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Phone 01733 405111. Email: info@RainWaterHarvesting.co.uk. www.rainwaterharvesting.co.uk



WHAT'S IN THE BOX

1	Smart header tank for roof space, including level sensors, float switch and overflow tower. The 100 litre tank measures 600mm W x 490mm H x 500mm D.
2	Flow reducing valves (in plastic pack) for use in Torbeck float valve if mains pressure is too great.
3	Rain Director® control panel with mode indicators, programming buttons and control valves and 230 V AC to 12 V wall adapter. Control panel measures 380mm W x 270mm H x 95mm D.
4	Mains electric submersible pump (must be pressure-sensitive and equipped with non-return valve).
5	Cat 5 wire to connect junction box on header tank to underside of control panel. Do Not Cut!
6	This pictorial installation guide.
	Header tank connection box.



(Inline filter not required in shallow dig tanks)

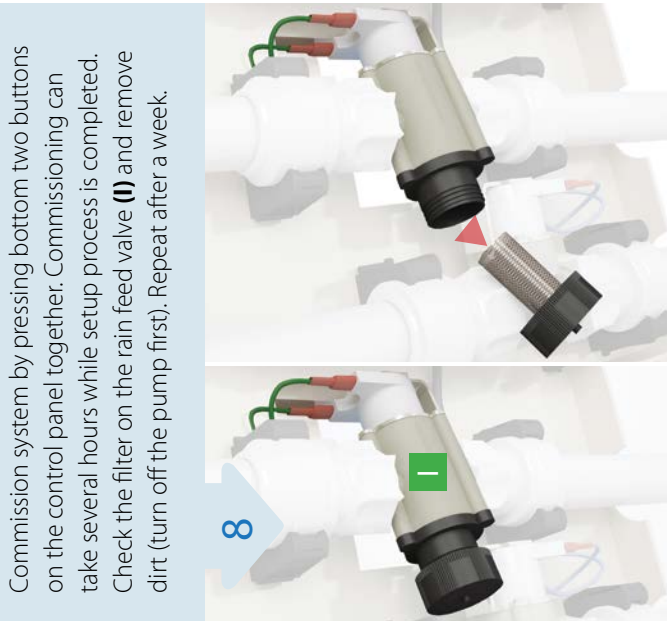
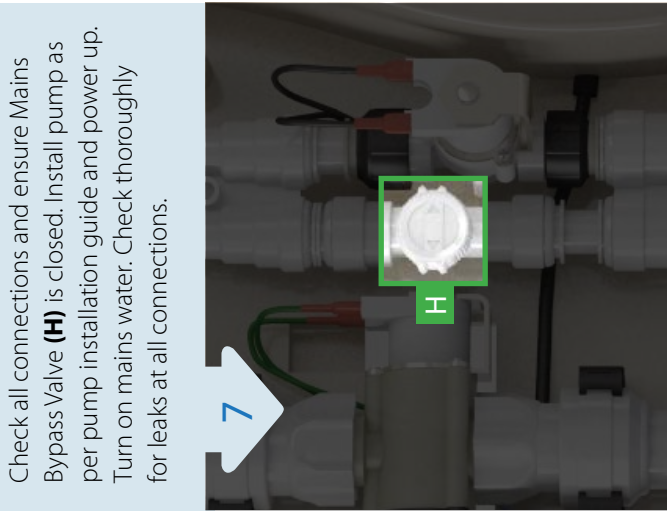
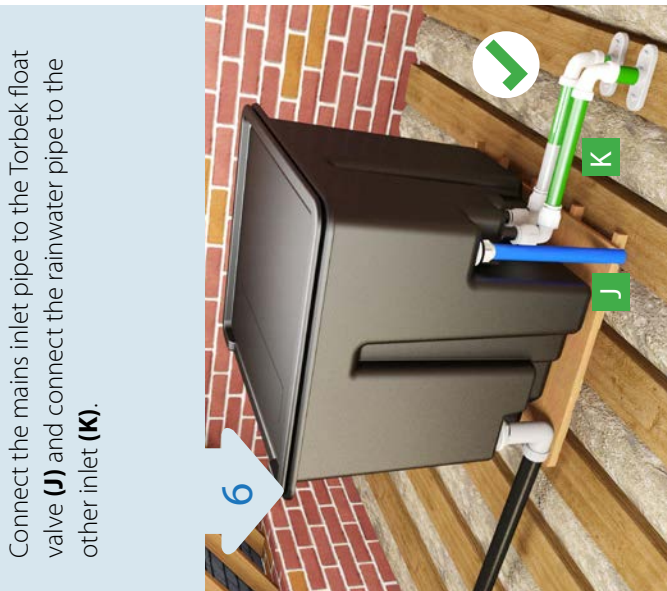
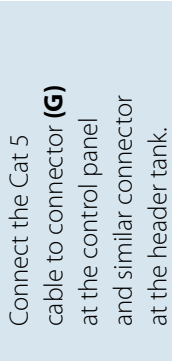
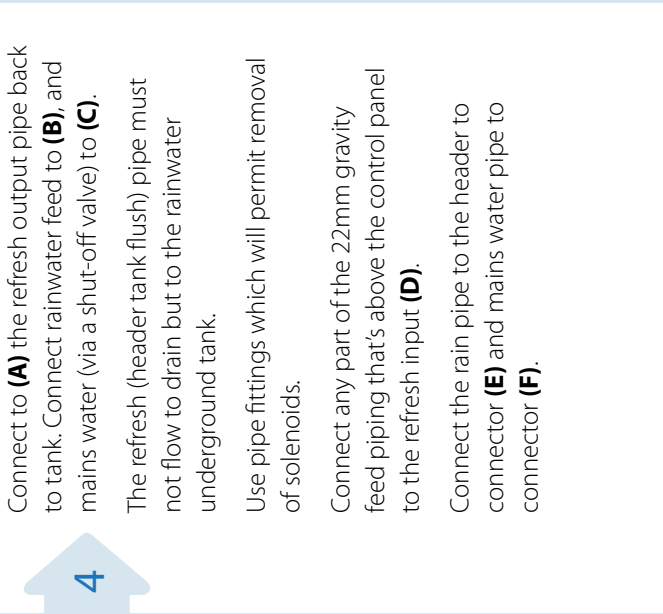
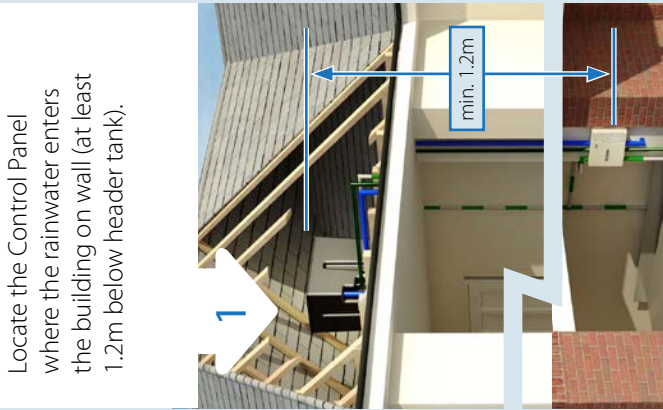


KEY TO THE CONTROL PANEL AND PIPE DIAMETERS:

- | | | | |
|----------|--|----------|---|
| A | Refresh output to underground tank. Min. 22mm. | E | Rainwater output to header tank. Min 22mm. |
| B | Rainwater input from pump. Min. 25mm or 32mm. | F | Mains water output to header tank. 15mm. |
| C | Mains water input. 15mm. | G | 12v power from wall adapter and Cat 5 cable to header tank. |
| D | Refresh input. Min. 22mm. | H | Mains water manual bypass valve. |
| | | I | Rainwater valve and removable filter. |

INSTALLATION

Ensure mains water and mains power outlet is available where the Control Panel is fitted. Establish all piping routes prior to installation (see schematic). Reduce number of angle bends. **Avoid U bends and inverted U bends.**



ESSENTIAL NOTES

- Do not get any **dirt** into the underground tank, header tank or pipes: **risk of blockage** of the solenoid valves.
- Only fit 22mm pipe or larger between the header tank and appliances as this will reduce the risk of airlocks.
- The header tank must be fitted at least 1.2 metres above the highest toilet and high enough above the washing machine to provide the pressure it needs to operate without its attenuation valve (more than 5 metres in some cases).



- Install all pipes and equipment where **protected from frost**.
- Water should not flow upwards in any part of the piping between header tank and appliances. Avoid U's, inverted U's and unnecessary sharp bends.
- Install pipes allowing sufficient movement for removal of the solenoids.