



## RAINWATER HARVESTING

# MAINS WATER TOP-UP UNITS

- Designed specifically for use in rainwater harvesting systems.
- Available in various sizes to suit required flow rates.
- Reliable hammer-free solenoid valve
- Quality stainless steel tundish
- Isolating valve with built-in dirt strainer
- Built-in laminar flow device for splash-free operation
- Flexible stainless steel braided hose
- Maintenance free

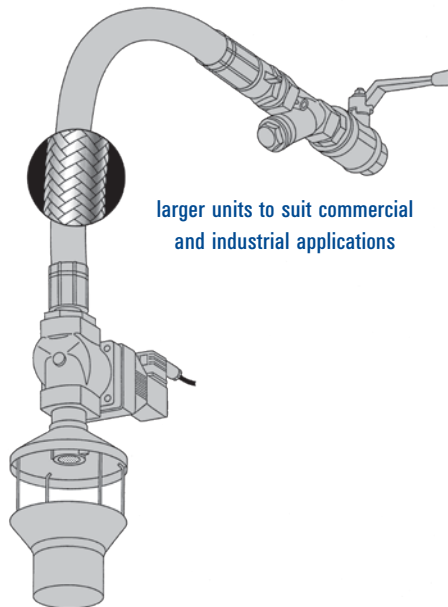


Provides 'type AA' air gap - fully compliant with UK Water Regulations

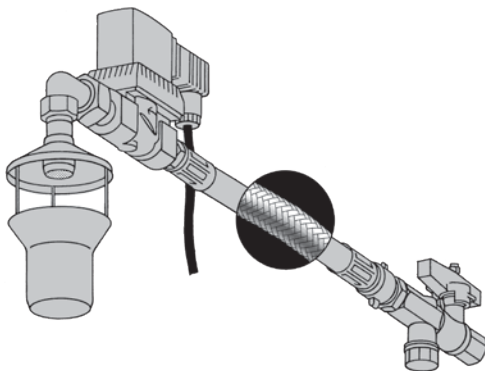
This special assembly is designed to provide an automatic mains water back-up supply to any vessel that is used to hold non-potable or 'unwholesome' water. The unit consists of a length of flexible braided hose with a manual isolating valve at one end and a solenoid valve and tundish at the other. The purpose of the tundish is to meet the current UK Water Regulations.

The Regulations prohibit any direct connection between the mains water supply and any category 5 fluid. Untreated rainwater falls into this category, and therefore this type of arrangement, known as a 'type AA' air-gap, is essential in any rainwater harvesting system in the UK where mains water is incorporated.

The tundish is designed to fit into standard waste pipe and incorporates a laminar flow device to reduce the risk of splashing. The solenoid valve is IP65 rated and is activated normally by a low-level float switch and thus provides mains water when the rainwater storage tank is low. The manual valve incorporates a dirt strainer to prevent any debris from restricting the solenoid valve.



larger units to suit commercial and industrial applications



1/2" top-up unit with 50mm tundish, suitable for domestic applications

**Several models are available to suit most applications**

inlet size	maximum flow rate at 3bar	hose length	tundish size
1/2"	2.64 m <sup>3</sup> /hr	50cm	50mm
3/4"	6.48 m <sup>3</sup> /hr	50cm	50mm
1"	8.64 m <sup>3</sup> /hr	75cm	70mm
1 1/2"	20.52 m <sup>3</sup> /hr	75cm	100mm
2"	34.92 m <sup>3</sup> /hr	100cm	100mm

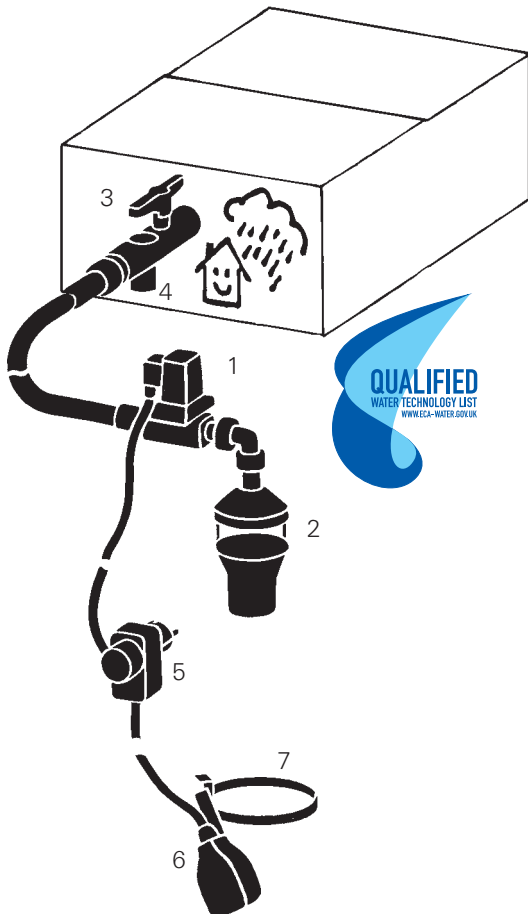


## WISY MAINS WATER TOP-UP KITS

We supply kits for use as part of a rainwater harvesting system, for controlling the topping-up of tanks with mains water in compliance with the current Water Regulations. All metal parts are of stainless steel.

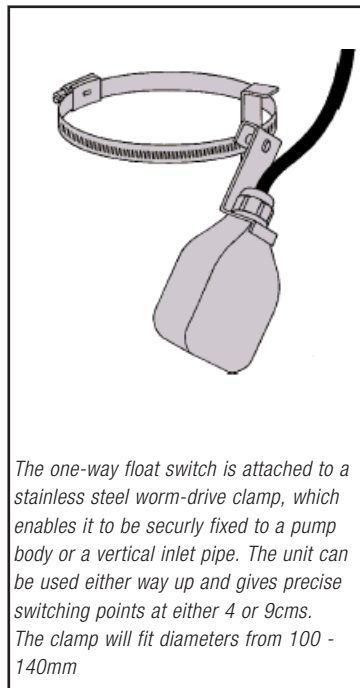
Each kit comprises of four items:

- the top-up assembly as shown overleaf
- special float switch assembly
- special 'piggy-back' plug
- adapter for UK 3-pin socket

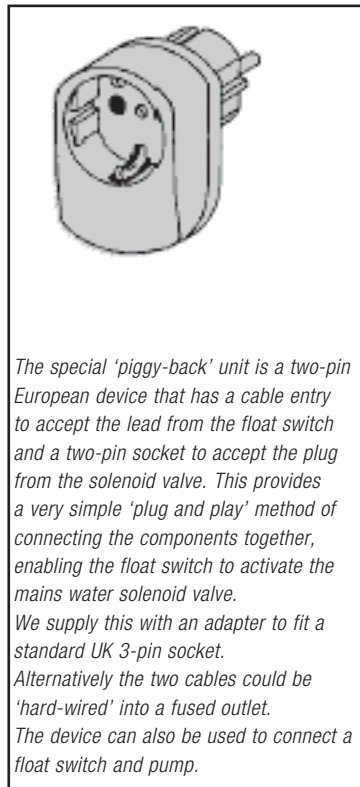


### Components

- 1 - solenoid valve
- 2 - tundish - provides type AA air gap
- 3 - manual isolating valve
- 4 - dirt strainer
- 5 - 'piggy-back' plug
- 6 - float switch
- 7 - worm-drive clamp



The one-way float switch is attached to a stainless steel worm-drive clamp, which enables it to be securely fixed to a pump body or a vertical inlet pipe. The unit can be used either way up and gives precise switching points at either 4 or 9cms. The clamp will fit diameters from 100 - 140mm



The special 'piggy-back' unit is a two-pin European device that has a cable entry to accept the lead from the float switch and a two-pin socket to accept the plug from the solenoid valve. This provides a very simple 'plug and play' method of connecting the components together, enabling the float switch to activate the mains water solenoid valve. We supply this with an adapter to fit a standard UK 3-pin socket. Alternatively the two cables could be 'hard-wired' into a fused outlet. The device can also be used to connect a float switch and pump.

### OPTIONS:

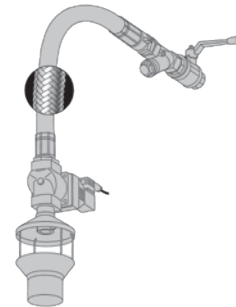
#### ■ 3, 10, & 20m boxed kits

For automatic mains water top-up control in domestic rainwater harvesting systems. Available with either 3m, 5m or 20m float switch cables. Float switch on 100-140mm diameter clamp. Tundish fits standard 50mm pipe.



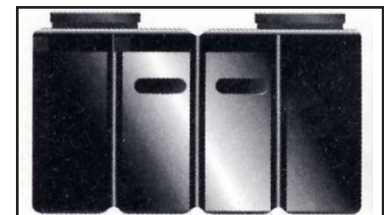
#### ■ Larger capacity units

For use in larger commercial systems, versions are available with larger tundish/solenoid assemblies. Refer to the table overleaf.



#### ■ 3m kit for 50mm pipes

A version of the above with a 3m cable and worm-drive clamp to fit standard 50mm pipe. Primarily for use in header tank systems (see separate data sheet).



We also stock a range of break tanks for use in rainwater harvesting systems. These are supplied complete with pre-fitted control float switches and connections for pumped supply & 50mm tundish.

NB continuous development may necessitate change in these details without notice E&OE



RAINHARVESTING SYSTEMS

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