



RAINWATER HARVESTING

UV DISINFECTION UNITS

Aquada range UV units

- Suitable for a range of domestic and commercial applications
- Effective microbiological protection
- Requires no chemicals, produces no by-products
- Does not affect taste or odour
- Simple to install and maintain
- Economical, safe and reliable
- High-intensity long-life lamps require only annual replacement
- Stainless steel disinfection chamber
- Lamp operation indicator



The Aquada range - 5 sizes to suit most applications

Why use UV treatment?

The quality of untreated rainwater is such that it cannot be classified as potable or 'wholesome' and therefore is not fit for drinking. Even though it is widely used for drinking, bathing etc. in various parts of the world, it is not deemed acceptable practice for the UK.

Untreated rainwater cannot be considered safe for personal use due to the contamination risk, particularly from bird droppings. To be sure that any 'unwholesome' water is fit to drink it should therefore be treated and the simplest and most reliable way of doing this on a small scale is to use Ultra-Violet (UV) sterilisation. The water to be treated must first be free of even microscopic particles, so it is usually necessary to fit sediment pre-filters prior to the water entering the UV unit.

UV treatment is safe, reliable and simple to maintain. It is generally deemed to be ecologically preferable to chlorination and reverse osmosis (RO). UV treatment will not remove discolouration or bad taste.

How does it work? UV disinfection works by destroying the DNA of potentially damaging micro-organisms, thus rendering them harmless. This process is instant, effective and reliable. No chemicals are involved and the process does not affect the taste of the water in any way. UV radiation is part of natural sunlight, and a UV lamp emits a particular wavelength at high concentration to destroy bacteria, viruses and cysts.

There are 3 versions of each of the five **Aquada** models available, depending on user requirements. The basic **Altima** model is the most cost-effective; the **Proxima** has many more features for ease of use and the top-of-the-range **Maxima** has a digital display. All Aquada models offer the same degree of protection.

Features	Altima	Proxima	Maxima
Lamp operation indicator	●	●	●
Safe-T-cap lamp connector	●	●	●
Micro-computer controller		●	●
Audible alarm buzzer		●	●
Visual alarm display		●	●
Digital lamp life indicator		●	●
Push-button alarm/computer re-set		●	●
Connection for optional automatic solenoid safety shut-off valve		●	●
UV intensity monitor			●
Digital UV intensity display			●



Control panel showing connections for power supply and optional solenoid valve

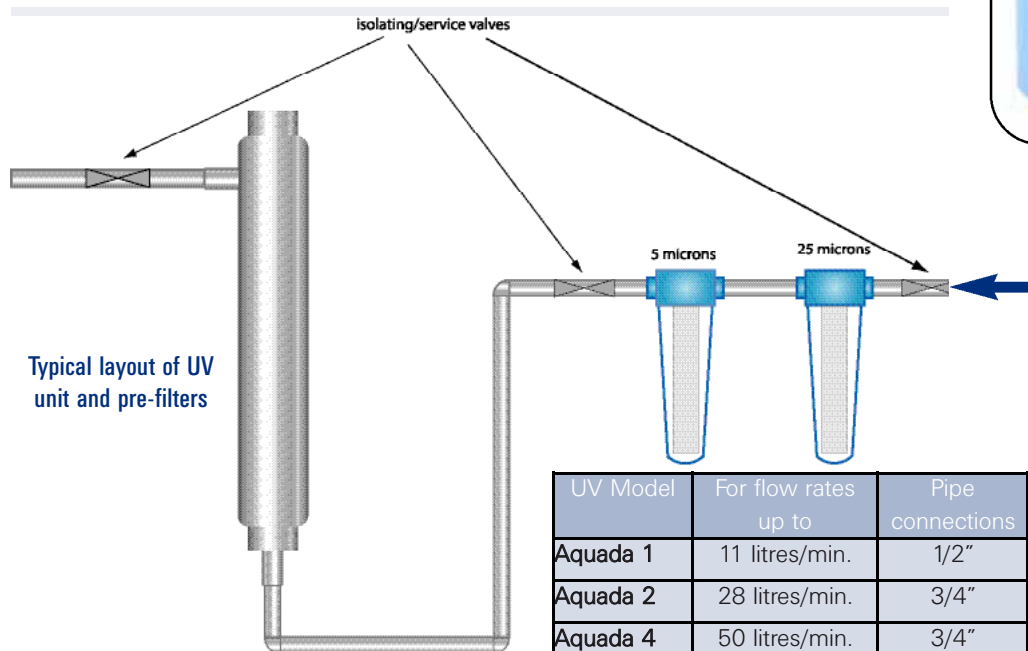
WOUND POLYPROPYLENE SEDIMENT FILTERS FOR USE WITH UV UNITS

- For use with pressurised water supplies
- For sediment removal down to 5 microns
- Replaceable polypropylene cartridges
- Nitrate & carbon filters also available
- Available in a range of sizes
- Simple cartridge change



When using Aquada UV units to disinfect rainwater we recommend two additional stages of filtration prior to the water passing through the UV chamber. Water should be pumped through 25-micron and 5-micron sediment filters to ensure that sufficient material is removed; only then is the water deemed to be clear enough to be effectively treated.

The filters require pressure in order to work effectively so are suitable only for pumped supplies. The cartridges require regular replacement, frequency of which will vary according to the nature of the water they are treating. Available in a range of sizes to suit different flow rates.



UV Model	For flow rates up to	Pipe connections	Power consumption	Appropriate sediment filters
Aquada 1	11 litres/min.	1/2"	35w	10" standard
Aquada 2	28 litres/min.	3/4"	55w	20" standard
Aquada 4	50 litres/min.	3/4"	55w	10" Big Blue
Aquada 7	90 litres/min.	1"	95w	10" Bag
Aquada 10	138 litres/min.	1 1/2"	95w	20" Bag

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



RAINHARVESTING SYSTEMS

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