



Rainharvesting Systems Ltd  
Calf Way, Bisley, Stroud  
Gloucestershire, GL6 7BX

T: 01452 772000 F: 01452 772008  
www.rainharvesting.co.uk



COMMERCIAL SYSTEMS



## Dairy Farm, Wiltshire

### Water Saving for Livestock Drinking

This West Country dairy farm decided to expand their herd in 2015 which required construction of new livestock buildings. This was an ideal opportunity to install a rainwater system to provide a supply of drinking water for 300 cattle.



Water is collected from the new barns and an existing adjacent building via a large Vortex filter into a 50,000-litre underground tank. This removes leaves and all other debris larger than 0.38mm. The water is then pumped to an intermediate break tank which is equipped with an automatic back-up from the mains water supply. From here the water is then pumped to several drinking troughs via fine sediment filters and an Ultra-Violet disinfection unit.

In the first three years of operation, the system has saved over 2,400 cubic metres of water and has significantly reduced the rainwater run-off to the surrounding land. This is an excellent example of the technology producing measurable benefits.

The farmer is delighted with the results and considers it a worthwhile investment.

#### Client Requirements

**Client:** Private farmer

**Remit:** To supply a complete rainwater harvesting system to provide drinking water for dairy cattle.

**Commissioned:** June 2015

#### Design data

- Roof area: 2,000m<sup>2</sup>
- Annual rainfall: 745 mm
- Outlets served: 8 drinking troughs

#### Equipment Supplied

- 50,000 litre GRP underground tank
- Wisy® WFF300 380µ Vortex filter
- Multigo 40/08 multi-stage submersible pump c/w floating suction filter
- 750 litre one-piece break tank c/w Wisy® mains water top-up unit
- Matrix 5-4 variable speed booster pump with inverter drive
- Saphir 4 Pro UV disinfection unit c/w 25µ & 5µ sediment filters



Break tank with sediment filters & UV disinfection