CASE STUDY

Direct System with Shallow-dig Tanks

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COMMERCIAL SYSTEMS

Frocester Cricket Club, Gloucestershire

Small Commercial Project for Pitch Irrigation

We were approached by a local construction company involved in building a new cricket pavilion and clubhouse for a village cricket club. They had been asked by the club to find a solution to their very poor water pressure which was making the irrigation of the pitch a slow and tedious matter. They also wished to try to reduce their high water bills through the playing season.

Taking in to account the location of the site in the Severn Vale and the high ground water conditions locally, low profile shallow-dig tanks were chosen in order to minimise the excavation depth.

Two 7,500-litre tanks were used, one of which is fitted with an integral filter unit, whilst the other houses a submersible pump selected to provide adequate pressure and flow of water to meet the needs of the groundkeeper. The pump is controlled by a special low energy controller designed to keep power use to a minimum. Rainwater is collected from the roof of the pavilion, filtered and stored until required for the next game, then pumped to a central irrigation point adjacent to the square.

The club now benefits from a better maintained pitch as well as reduced water bills.

Client Requirements

Client: Frocester Cricket Club / Fromebridge Construction

Remit: To supply a rainwater recovery system to provide water for pitch irrigation.

Commissioned: March 2017

Design data

- Roof area: 334m²
- Annual rainfall: 800 mm
- Outlets served: 1 bib tap

Equipment Installed

- 2 x 7,500 litre underground tanks
- Multigo 40/10 multi-stage submersible pump c/w suction filter
- Wisy® Zeta 02 ultra-low-energy pump controller with 0.2 watt standby power consumption
- RainTech® mains water top-up unit

shallow-dig rainwater tank with integral filter