

## **Technical Specification For Freerain Direct Pressure Rainwater System**

### **Tanks**

Rotational Moulded Polyethylene with a percentage of recycled material within them and ribbing for increased strength. Tanks available in 3500, 4700 and 6500 litre capacity. Strengthened tanks have a thicker wall thickness for high water table installations, available in 3500 and 4700 litre versions.

Tanks can be forklift handled as well as having integral lifting points on top at each end of the tank.

The connection points for rainwater in, overflow and service duct are all for standard 110mm pipe work.

### **Filter system**

Integral within tank, access is via tank access dome with tamper proof screws. Our filter is of the cross flow variety and is pre-installed within the tank when delivered.

Filter unit has two filter strainer sizes, the top layer being 1000 microns, and the lower being 450 microns. Additionally the filter is self-cleaning when the tank is in overflow.

### **Backboard Components**

The backboard consists of the following components: -

- Mains water back up solenoid (WRAS Certified)
- Pump control complete with isolation valve, pressure gauge and bleed off valve.
- Microprocessor via 800mm flying leads. (Can be shortened / lengthened)
- Class 'A' Air gap to prevent cross contamination of mains water supply.

### **Pump (Standard Model)**

Stainless Steel Multi Stage Submersible Delivery Pump

Specifications: -

- Max flow rate of 4.5 m<sup>3</sup> Per Hour
- Max pressure 4.5 Bar (45 Metres Head)
- Complete with 15 metre pre-terminated cable.

### **Microprocessor**

- Compromises of level control, via 10 LED's, each representing 10% of tank volume.
- Programmable to vary mains water top up level between 5% and 20%
- Automatic holiday protection.
- Integral pump dry run protection.
- Microprocessor connected to in tank sensor via 15-metre cable.