

System Specification

Client:		Date:	25 June 2021
Project:	Doubles tennis court watering – single court	Quote:	
Description	Perimeter sprinkler system for single tennis court	Rev:	1

Description of system

6 Hunter PGP Ultra sprinklers, positioned along the two sides and set to cover quarter-circle and half-circle arcs, will evenly water the 34m x 16m playing area. A 4-station automatic controller will operate the sprinklers single or in pairs. A valve box will be located at the edge of the court area.

The system includes a water storage tank and automatic pump set to provide the pressurised water supply to the system, this needs to be located within 10m of the valve box.

Water Storage Tank

The system includes a 1,200 litre tank with Type AB air gap to prevent backflow into the public mains and is supplied with a ¾" BSPM float valve inlet. The tank is solidly constructed in maintenance free black HDPE using rotational moulding technology and is supplied with a 2 year guarantee.

The tank is 1.2m diameter x 1.2m high and needs to be sited on a smooth, level, reinforced concrete base, as per manufacturers specification, provided by the client.

The tank will be delivered on a pallet. Lorry access and unloading facilities are to be provided by the client.

Pump with Auto-Start

The pressurised supply to the system is provided by a compact submersible pump fitted inside the tank. An electrical isolator switch will be provided for the pump. Mains power will need to be provided to the isolator switch.

The pump has a single-phase motor with a 4.8A full load current.

The pump must be protected from frost damage.

Due to the nature of the equipment, some drainage of water from the tank onto the floor is to be expected, during routine maintenance or should a fault develop. It is the responsibility of the client to check the suitability of the proposed equipment and its proposed location before installation.

Supply Pipework

32mm black MDPE pipe will run from the pump to the control valves, then on to the sprinklers. MDPE pipe has excellent resistance to damage and all pipe fittings are WRC approved compression type.

The valve box will hold Hunter 24V solenoid valve. Each valve will operate one or two sprinklers and will be supplied with an inspection chamber with green plastic, lift-out cover. Multicore signal cables will run from the valve box alongside the pump supply pipework to connect the valves back to the irrigation controller.

Hunter PGP Ultra Sprinklers

The PGP Ultra is a high quality, robust sprinkler with reliable water-lubricated gear drive and tough rubber cover.

Control System

A Hunter X2 controller will operate the system automatically or manually as required. It is recommended that this is installed adjacent to the tank location. The X2 is a robust, wall-mounted unit with lockable cover. The controller is easily programmed via central dial, push button adjustment and clear digital display. The controller also has the option to add a WI-FI module, to allow remote control of the system via a smartphone App.

Third Party Requirements

The following will be required in addition:

- Power supplies and consumables for:
 1. Pressurisation pump - to isolator (see pump electrical specification).
 2. Irrigation controller – 13amp plug socket adjacent to location.

- Water supply and consumables for:
 1. Water storage tank – ¾" BSPM inlet.

- Suitable base for water storage tank (see manufacturer instructions).

- Ground works:
 1. Trenching/reinstatement works for pipework.

Installation

The system is designed to be installed by someone with competent DIY skills, full instructions will be provided. An electrician will be required to install power to the pump and control panel location.

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