

System Specification

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| Description: | Extensive Green Roof Package (SGR100) | Date: | |
| | | Quote: | |

Description of system

The package covers a flat green roof area of 100m² or a $\geq 5^\circ$ sloped area of 200m².

The package includes, irrigation controller, wireless rain sensor, CAT 5 pressure booster set, dripline and fittings.

Control system

The system will be operated via Hunter X2 mains powered irrigation controller. This is simple to program using the clear digital display, central programming dial and push buttons.

The controller has 3 programs and 4 start times for each, providing complete flexibility on operation.

Pressure Booster Set

A CAT 5 pressure booster set will supply the water pressure for the system. This consists of a 200L black polythene tank with a DAB automatic submersible pump fitted internally. The pump provides a constantly pressurised supply to the 24VAC zone control valve and when opened then onto the green roof system.

The controller, rain sensor module and zone control valve are all preassembled onto the pressure booster set for convenience and quick installation.

The assembly is weatherproof for location externally.

Rain Sensor

A wireless rain sensor is supplied with the package and this has an operating range of 275m. The sensor is fitted with a wall mounting bracket and an adjustable top which enables the trip level to be preset. A module is wired into the controller and receives an input when a trip level is reached and the watering will then be suspended. The sensor can be easily bypassed using the sensor module or the controller itself.

Supply Pipework

20mm MDPE black pipe will run from the pressure booster set and up to the green roof area. Pipe clips and an elbow connection to the green roof header pipework is included. If the building is in the planning stage, 22mm copper pipe can be run inside the building from the pump location to the roof deck.

Dripline

The green roof will be irrigated using Permadrip-Pro dripline with a 30cm emitter spacing. This is a robust 16mm brown coloured pipe which has a wall thickness of 1.2mm. The emitters are pressure compensating providing a consistent output of 1.6 L/h. The driplines will be laid on the surface running across the roof and secured either with soil pegs or strapped directly to the sedum matting as appropriate.

All header and dripline pipe connections will be PoziLock compression type, which provides easy assembly combined with a high level of durability making them ideal for this type of application.

Additional Requirements

It is recommended that before purchasing this watering package a flow test is carried out on the proposed water supply to ensure it will be capable of supplying enough water to run the system (if in doubt consult our sales team).

In addition to this package the following will also be required:

- Dedicated 240VAC plug socket located adjacent to the CAT 5 pressure booster set.
- Mains water pipework into the tank, capable of delivering 800L/h (200m dripline).

General Details

Location of Equipment

Due to the nature of the equipment, some drainage of water 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.

Terms and Conditions

Warranty information, payment terms and delivery information is contained in the 'Terms and Conditions of Sale for Access Irrigation Limited', available by request or downloadable from our website.

Maintenance

The system should be drained down during periods where frost is likely. Information on maintenance of the system components will be provided with the package.

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