

## Travelling Sprinkler Pitch Watering Package

### Description EHTS4-P

The package provides an effective method of watering a pitch area 110m x 68m and includes water storage tank, pressure booster set, supply pipe and hosepoint, travelling sprinkler, hose and fittings.

*For guidance on fittings etc see I09 general instructions.*

### Water Storage Tank (I13 instructions)

A 22,000 Litre water storage tank is supplied and this will be delivered to site direct from the manufacturer. It is important it is handled correctly and installed on a smooth level base as per manufacturer specification.

The tank will be delivered unmodified and the fitment of the outlet, float valve, overflow and airgap will need to be done on site.

### Pressure Booster Set (I24 instructions)

A single phase Lowara pump fitted with a Genyo auto start unit is supplied. This should be placed on a smooth level base within 1m of the water storage tank outlet.

The pump set inlet is connected to the tank via the supplied suction hose, ensure the leather washers are fitted before screwing on the brass connectors.

The pump set outlet will be pre-fitted with a 50mm compression fitting for connection to the main supply pipework. Use a 50mm compression elbow to take the pipe down to ground level.

The pump isolator cover is removed by undoing the 2no phillips screws. The box has a 20mm entry hole, use a suitable gland for the cable being used and wire 240VAC into the top of the switch.

Electrical:

- A suitably protected 240vac power supply is required connected into the red/yellow pump isolator input terminals: Live = L1, Neutral = L2 and Earth = Earth block.
  - Pump FLC 6.84amps.

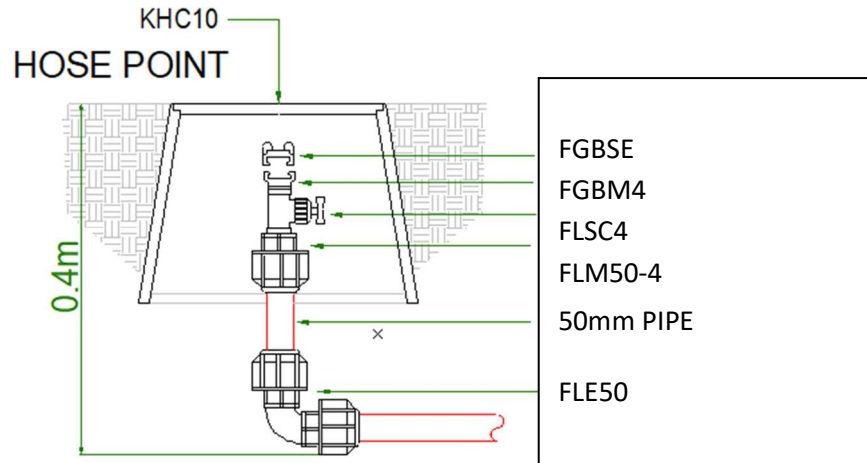
**The pressure booster set must be protected from the elements in a ventilated enclosure.**

### Pipework

The 50mm pipe supplied should be routed to the hosepoint location in the centre of one end of the pitch. To accommodate the hosepoint assembly the pipe needs to be laid at a depth of 0.4m. After installation cover the pipe with soil to a depth of 150mm then lay the pipe warning tape (**FLWT**) on top before final backfilling (Test pipework and fittings before final backfilling).

### Hosepoint

Cut the 50mm supply pipe to length and chamfer the end before fitting onto the assembly elbow. Firmly compact the soil around the elbow and the riser pipe only. Cover the assembly with the underground chamber (**KHC10**) and ensuring the top is at ground level compact the soil around it. Fill the base with gravel.

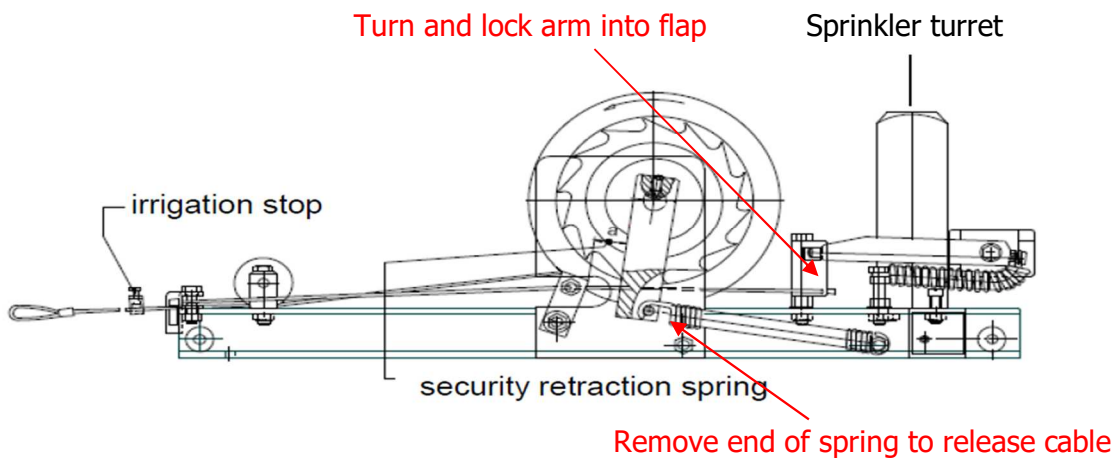


### Hose

The travelling sprinkler connection hose is supplied as a 100m coil. Cut a 3m length and fit the 1" hose clip (**FHC4**) over each end of both pipe lengths and insert the Geka hosetail (**FGBH4**) then secure with the hose clip. The smaller hose is for connecting the trolley to the hosepoint.

### Travelling sprinkler (see manufacturer's instructions)

The Rega travelling sprinkler is supplied with the sprinkler fitted.



### Set up

- Position the hose trolley next to the hosepoint and facing the pitch.
- Connect the 3m length of hose to the hosepoint and the trolley.
- Pull the hose off the trolley taking the end to the first start position ensuring some slack.
- Place the travelling sprinkler at the first start position and connect the hose.
- Remove the end of the security retraction spring from the drum arm.
- Pull out the steel cable and secure at the opposite end of the pitch with the metal stake.
- Take up any cable slack, then reconnect the end of the retraction spring.
- Turn and lock the inlet ball valve arm into the cable flap.
- Open the hosepoint and check the sprinkler operates and the cable begins to wind.

## Testing the system

Test individual components as they are installed as follows:

### *Water storage tank*

- Check mains water supply pipe and inlet fittings for leaks.
- Check internal float valve is secure and switching off the water at the correct level.

### *Pressurisation pump*

- Check pump reaches full pressure and switches off.
- Check outlet fittings for leaks.

### *Pipework and fittings*

- Check pipe and fittings for leaks.

### *Travelling sprinkler*

- Check sprinkler operates correctly and provides correct distance etc.
- Check machine moves correctly.

## **Maintenance (pressure booster)**

- Periodic checks as above

### *Winterisation:*

- Turn off the water supply to the tank.
- Connect the supply hose and open the hosepoint.
- Run the system until the tank valve float is clear of the water.
- Turn off the pump electrical isolator and lock off handle.
- Undo and remove the lower pump drain plug.
- Undo and lift up the Genyo unit.
- Insert a screwdriver into the Genyo inlet and push up to lift check valve.
- Refit Genyo to pump loosely.
- Disconnect the supply hose and leave the system isolator open, loosely fit stop end.
- Drain supply hose and store on trolley.

## **Maintenance (travelling sprinkler)**

- The gear mechanism and turbine are maintenance free.
- The cable guide and wheel axles should be greased annually.
- Do not subject machine to frost (during Winter period).
  - Disconnect connection hose.
  - Fully open inlet and speed control valves (leave open).
  - Disconnect brass connector at base of turret and drain pipework (leave loose).

## 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.

### *Connection to Water Supply*

The Water Supply (Water Fittings) Regulations 1999 allow this type of system to be operated from the mains water supply, provided the supply is protected by a Cat 5

break tank. It is assumed the supply for the system is fitted with a double check valve. It is also a requirement that the Local Water Authority is informed of the intention to install this system.

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