

# ACCESS PRE-ASSEMBLED PUMP UNIT(EPPKHA)

Please read all supplied information before installation and operation

## Description

The pre-assembled pump unit provides a self-contained pressurised irrigation supply for connection to a separate water source.

A permanent connection is required to the water source, 240vac electrical supply and the irrigation system supply pipe.

The pump unit will require protecting from the elements in a suitable enclosure allowing for ventilation and drainage.

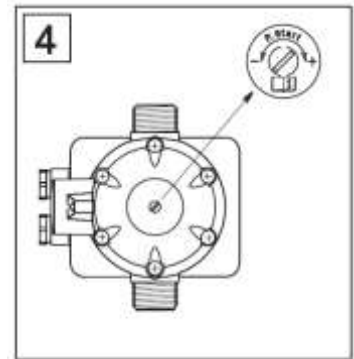
## Pump

The unit is fitted with a 240vac single phase Lowara pump. This is operated automatically via Genyo Auto-start unit (see below).



## Genyo

The Genyo Auto-start unit is fitted on top of the pump via union to aid maintenance etc. This has an internal sensor that detects any pressure drop within the irrigation system pipework and switches the pump on until the pressure rises (eg: open and closing tap). The unit is fitted with a pressure gauge which gives an indication of the system pressure. The pump cut in pressure is set at 1.5bar and this can be adjusted to a maximum of 3bar via the adjusting screw located on the back of the unit housing (fig4). A sophisticated dry run protection system is also incorporated which will turn off the pump should it detect a lack of water then reinstating it when the water supply is restored (see manufacturers information).



## Installation

The unit is pre-assembled and tested at manufacture and will require only basic connections. The unit is fitted with anti-vibration feet and should be placed on a firm level base. Under normal circumstances the unit should not need permanently fixing. However, if this is required the centre two feet can be removed and the holes used as fixing points (requires 17mm spacer).

## Water Supply Connection

The inlet end of the pump is 1" BSPM and the unit is provided with 1m pre-assembled suction hose for connection to an adjacent water storage tank. If required other suitable pipework can be substituted using appropriate connectors.

## System Supply Connection

The outlet is 1" BSPF for connection to an appropriate pipework connector. The grey union is fitted with an internal 'O' ring so will not need additional sealing. An isolation valve is fitted before the outlet point which can be used to isolate the pump from the system. If a filter is required fit this after the valve to aid maintenance etc. In some applications where the system supply pipe is configured in a ring main this can be done using an additional tee before the outlet elbow.

**Ensure all pipework is supported to prevent undue strain on the pump fittings.**

## Electrical Supply Connection

As with any equipment used in damp conditions the mains supply should be protected with a RCD and a suitable breaker for the specified motor FLC.

A red/yellow isolator switch is located at the rear of the pump. This turns on/off electrical power to all components. The isolator can be locked in the 'OFF' position to aid maintenance etc. A 20mm entry hole is provided at the base of the isolator for connection to a suitable 240vac supply. (Terminals = (switch) Live - L1, Neutral - L2, Earth - LHS Earth block).

### Commissioning Procedure

To commission the unit, ensure that all input and output connections both mechanically and electrically have been made and are secure. It is most important that the pump is first primed as indicated below. The unit can then be operated as per normal instructions.

#### **Pump**

When first commissioning the pressurisation set, the pump **must** first be primed as follows.

- 1) Ensure pump isolator is turned to the 'OFF' position.

Ensure the tank has reached its full level and the float valve has switched off the water supply.

- 2) Slacken the top priming plug (17mm chrome plug) located on the chrome pump housing.
- 3) Ensure all air is vented and water runs out then re-tighten the priming plug.

#### **System**

- 1) Ensure a downstream valve, tap or drainpoint is open then turn the pump isolator to the 'ON' position.
- 2) After a short while the pump should start and water flow into the system pipework and out of the open point.
- 3) Ensure all air has been vented then close the open point. The pump should continue to run until pressure has built up sufficiently within the pipework.
- 4) Check the pump switches off and the pressure within the system is maintained.

#### **Maintenance (Winterisation)**

The pump and Genyo unit should be protected from potential frost damage.

- 1) Isolate the water and electrical supplies (lock off switch) then remove the top and bottom pump drain plugs (17mm) located on the chrome housing and completely drain the pump body (leave plugs out but keep safe).
- 2) Undo the grey union fittings on the pump outlet pipework to enable the Genyo unit to be lifted. Unscrew the black union fitting between the pump and the Genyo and lift the unit to reveal the underneath then carefully push up the white internal check valve and fully drain the body. Screw the union back on and leave loose.
- 3) After Winter period reverse procedure and then follow commissioning section.



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**Irrigation systems should only be installed  
by a competent person**