



GREENCROP IRRIGATION

Pump in a Box Package



The Greencrop Pump in a Box pumping system, a single or three phase mono stator rotor horizontal pump, comes with manual/auto start stop, frost stat, self priming, a suction hose with foot valve and filter, high pressure cut off, a control panel with starter, float switch control, high-level alarm and beacon, mini-cap pump protection relay and base, two float switch gear complete with micro-switch and 10m of cable.

Greencrop Scroll & Stator pumps are ideal for situations requiring higher heads, or greater solids handling capability. The latest pumping technology pumps ensures maximum performance and piece of mind.

The system is commonly used for effluent disposal, with larger pumps available for heavier duties such as pig slurry and umbilical applications. Greencrop offer a standard range of pumps covering most common applications, although belt drive transmissions allow pumps to be specified to meet specific requirements.

- 3 kW 8 m³/hr
- 5.5 kW 12 m³/hr

Standard pumps are specified to operate up to 9 bar. Greencrop can also offer a range of PTO driven scroll and stator pumps, designed for three point linkage mounting, offering a self priming pump with solids handling capability, particularly suitable for high head.

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The larger C15BC31RPH pump unit is linked by a twin v-belt drive to a **5.5 kW three phase** motor. The pump is geared to run at a speed of 468 rpm, and in this configuration will develop discharge head of 12 bar, with nominal output of 12m³/hr. (With pumps available up to 16 bar, and outputs up to 120 m³/hr) built to the following specification.

The pump is complete with 3" suction kit, comprising galvanised inlet pipework, 6m x 3" suction hose and the necessary couplings.

The package also includes a 2" or 3" delivery kit, including pressure relief valve, outlet shut off valve and non-return valve with pressure gauge and tapping for pressure switch gauge.

The pump control panel is complete with full manual and automatic control and full overload protection. The control panel also includes 240v to 24v transformer to provide 24v operation of pump controls and protection devices. The control circuits are built into a fully enclosed waterproof housing. The panel also includes full MCB protection and door mounted isolator.

We also include a high/low pressure monitoring system. High pressure shut down enables shut down of the pump when either the mobile irrigator reaches the end of its run, or a jet blockage in the sprinkler causes a pressure build up. Low pressure shut down is fitted with a timer delay unit and enables shut down of the pumping station due to a loss of pressure caused by either a burst on the output line or loss of suction.

Shut down due to either low or high pressure isolates the pump and triggers either a warning beacon or siren. The system can only be reset manually and so prevents the system restarting before the cause of the shut down has been investigated.

The pump is fitted with an external thermostat linked to a tubular heater and the motor contactor. This ensures that when the outside temperature drops near freezing the pump is shut down and the heater comes on to prevent the pump house freezing.



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