

# RUTLAND WIND/ SOLAR PUMP SYSTEM

Marlec's expertise in wind turbines has led us to develop the simplest and most efficient small electrically operated wind pumping system available today.

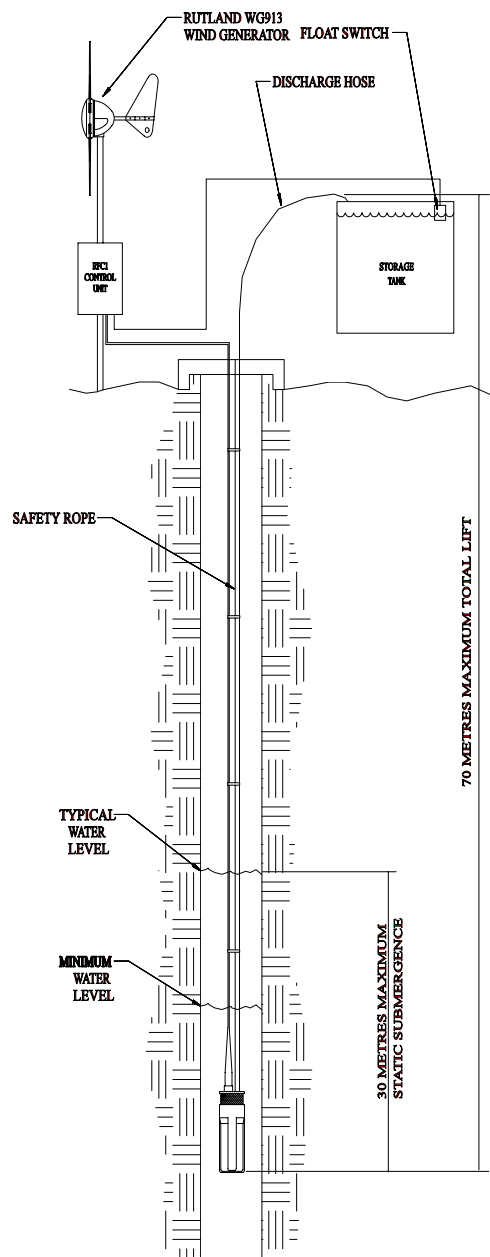
The Rutland Wind/Solar Pump System is designed for pumping at isolated locations in all climates without the restrictions and high costs associated with traditional mechanically driven wind pumps. We have achieved this through the use of modern materials, an innovative simple design and highest quality manufacture.

The system is supplied in kit form (tower not included) and capable of pumping potable water from deep wells or bore holes (of >100mm diameter) to a maximum depth of 70 metres. The system incorporates a wind turbine and submersible pump directly connected, i.e. no battery, via an interface control unit which ensures optimum system performance and maximises flow rates over all wind conditions, plus many other effective features.

Solar panels of up to 100w (2 x 50w modules) can be connected in parallel with the windcharger and simply connected to the controller giving even greater daytime performance.

## Typical Applications

- Potable water pumping.
- Irrigation.
- Livestock watering.
- Drainage.



## Technical Features:

- \* Controller accepts solar panel input in parallel with windcharger (maximum 2 x 50w).
- \* High windspeed electrical protection.
- \* Controller maximises flow rates over all wind conditions.
- \* Pump status indicated by LED's.
- \* Pump or wall mount weather-proof controller enclosure.
- \* High efficiency proven wind turbine.
- \* Built-in safety features.
- \* Reservoir float switch to increase pump life.
- \* A particular feature of this system is that the turbine need not be located directly above the well, allowing subsequent relocation of the well (within reason) without re-siting the wind turbine.

## Cost Effective and Convenient

- \*24 hour operating potential gives high average daily flow rate.
- \* No specialised knowledge required for installation and operation - only a basic tool kit is required.
- \* Long life, durable and reliable components.
- \* Portable.
- \* Minimum maintenance.
- \* Silent and clean in operation.

### **The complete 20M kit consists of:-**

- 1 x Rutland 913 Windcharger
- 1 x Interface Control Unit + fixing bracket
- 1 x Shurflo pump
- 50m electric cable
- 25m safety rope
- 30m potable water hose
- Float switch kit
- Cable ties

### **Optional extra:-**

- 2 x 50 watt solar panels
- Solar panel pole fixing kit

*Kits for other depths available on request*

