

"ECO" Solar Borehole Pump

Model Number

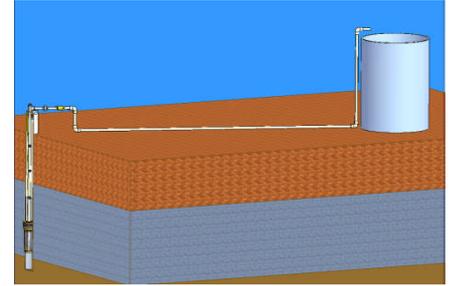
SDS-D-128

Description

The "ECO" Borehole Pump consists of a Brushed DC Motor and a Piston Diaphragm Pump element.

The Pump and Motor are a single compact unit. The small diameter of 96mm makes it suitable for fitting down a 4" Casing. The pump is made from 316 stainless steel and marine grade bronze.

The "ECO" system may operate at voltages between 12 to 30 VDC. Usually these pumps are set up as a two module system (30 VDC).



Flow Rates (Litres per Minute*)

Total Head (Metres)	5	10	15	20	25	30	35	40	45	50	60	80	100	120
80 Watt Array (15V)	3.2	3.1	3.0	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2			
120 Watt Array (30V)	7	6.8	6.5	6.4	6.1	6	5.9	5.5	5.4	5.2	4.9			

* Max Flow Rate @ 1000 Watts per Sq. Mtr

Applications

The "ECO" range of pumps are ideal for borehole applications, and used in bores up to 55 Metres deep.

There is a range of "ECO" pumps - one to suit every low head/ low volume application. The "ECO" pump is a submersible pump and may be used in any situation where there is a sufficient water to allow complete submergence. Due to the low current draw of these pumps they can be used very effectively using a single module and no Controller

Controller

PC30M1 Controller matches the power available from the Solar Modules with the power requirements of the Motor. This means that the pump will start earlier in the day and work longer in the afternoon; albeit at a slower rate. This maximises the water delivered during the day and in cloudy weather.

The Controller also provides a means to control the water delivered by switching the pump off when a remote tank is full (a Pressure Switch) or if the water in a supply tank is low (Float Switch).

The control box is mounted conveniently beneath the Solar Modules - this is then protected from the weather. The Controller is also fitted with a main (On/Off) switch.



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3 Keegan Street O'Connor W.A. 6163
 Phone: (08) 9337 4766
 Fax: (08) 9314 1306

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