

THE AQUILIA SOLAR WATER PUMP

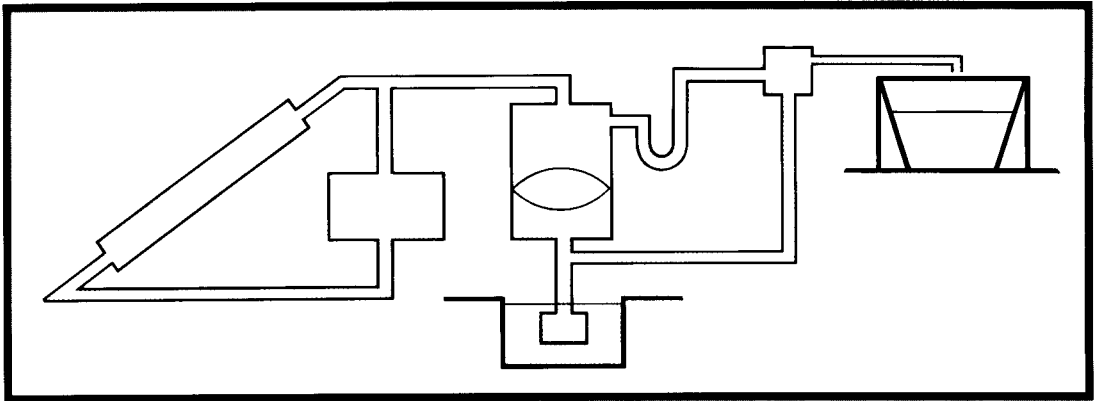
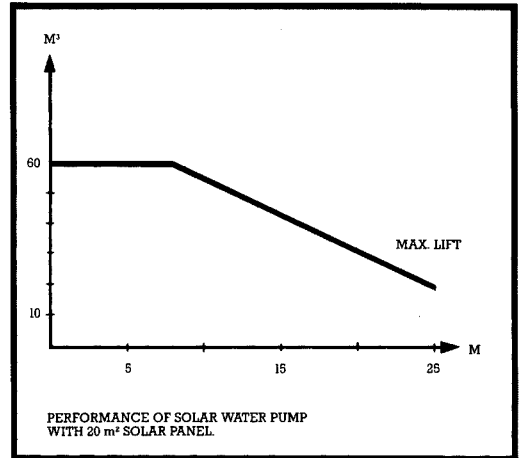
The Aquilia Solar Water Pump is a unique, simple way of utilizing solar energy for pumping water.

The system is self-contained and works independently of outside energy sources. All circuitry is enclosed within the system and requires no adjustment. The pump is highly reliable, requires little maintenance and has a long lifetime.

The Solar Water Pump combines suction and pressure to raise the water, which gives a maximum static head of 25 metres.

The Aquilia Solar Water Pump with a solar collector area of 16 m² fulfills the World Bank specifications for Category B and C, which are as follows:

Category B - 60 m³/day at a static head of 7m
 Category C - 20 m³/day at a static head of 20m
 with an irradiation of 5.5kWh/day



The system is filled with water only. During sunshine hours the water in the solar panels will be heated and steam will be generated. The steam forces the float in the pump house down. This pressure causes the foot valve in the well to close. The water from the pump house is forced upwards and runs through the condenser into the water tank.

When the steam level in the pump house reaches the bottom level of the steam tube, the steam escapes to the condenser because of the difference in pressure. The steam immediately condenses, and a partial vacuum is created in the pump house, which opens the foot valve and water is sucked up from the well refilling the pump house.

TECHNICAL SPECIFICATIONS

Energy supply The sun
 Key components 8 solar collectors, water reservoir for solar collectors, pump house, steam control valve, stand



The equipment is manufactured to metric standards, any measurements other than metric are approximate and for comparison only. The company reserves the right to change the technical specification without prior notice.

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