



SOLAR POOL PUMPING

Pool pumps are one of the larger energy-users in villas and can easily use 10 or more kWh every single day, even when no one is using the villa. Contained Energy now offers a solar pool pump solution that can save this energy from your energy requirements and –bills.

Because pool pumps are typically only used during the day, they can be powered by solar panels direct without the need for expensive and cumbersome battery banks.

The system uses a robust (German) Lorentz pump which can handle pool sizes up to 200 m3*.

The pump comes complete with MPPT controller, guaranteeing the highest efficiency of energy use.

A 220V/AC power pack is optionally available to operate the pump outside sunshine hours, for instance for vacuuming the pool early in the morning, or running the pump at night when desired.



Depending on the size of the pool, the pump requires a 300-720 WattPeak solar array. If a solar tracker is used, the pump will start earlier in the morning and will run until later in the afternoon.



(* one circulation per day, with solar panels on solar tracker)

Solar Array Requirements Examples (Bali conditions, 6 kWh/day solar irradiation)

Poolsize	50 m3	80 m3	100 m3
Solar array, without tracker	8 x 54 Wp	12 x 54 Wp	6 x 130 Wp
Poolsize	80 m3	120 m3	140 m3
Solar array, with tracker	8 x 54 Wp	12 x 54 Wp	6 x 130 Wp

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