



IZEP – Intelligent Zero Emissions Pumps



The IZEP Pool Pump

IZEP is a solar and battery powered pool pump that runs on safe low voltage dc. Ultra-high flow at very low power, silent at any speed, with zero operating costs and zero carbon emissions. Six pump models, vertical self-priming or horizontal flooded suction, submersible or dry mount — all with a patented laminar flow, high efficiency diffuser and a unique see-through body.

Full IoT Wi-Fi and App control puts flow, pressure, power and savings in your hand, with no flow and run dry fault protection built in.

For the first time IZEP delivers commercial grade 24/7 Filtration, Recirculation & Sterilization possible, all at zero running cost.



Solar & Battery powered

Silent operation

Zero running costs

Zero CO2 Emissions

Full IoT Wi-Fi and App

IZEP pool & spa Pump Range



IZEP Horizontal mount – perfect for flooded suction applications, can be installed below ground, so totally flood proof and fully submersible rated.



Main features

- Ultra-high flow, low power
- Solar and or Battery powered
- Safe low voltage DC
- Silent in operation (at all speeds)
- Zero operating costs
- Zero carbon emissions
- Full IoT – Wi-Fi / App control
- Free Flow & Pressure reporting
- No Flow, Run dry fault protection

Design features

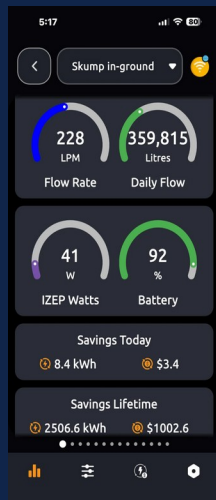
- Vertical self-priming version for above ground installations
- Horizontal version for below ground – flooded suction
- Submersible or dry mount
- Patented laminar flow, high efficiency diffuser
- Quick connect 50mm ½ unions
- Unique see-through design
- Six pump models
- Three control options



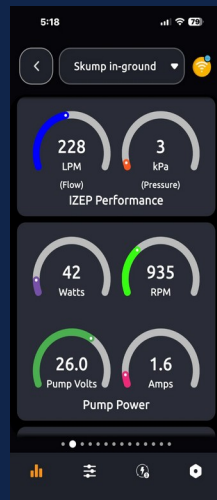
IZEP Vertical mount c/- leaf basket / pre- filter. Enables full self-priming. Typically suits above ground, above pool water level installations.

IZEP Model & Performance data

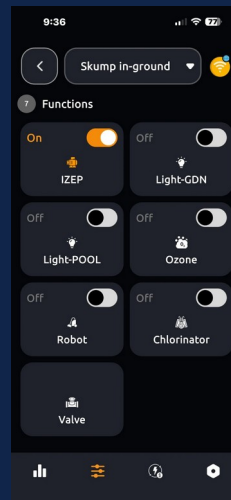
IZEP Solar Powered Water Pump Performance data					Pressure (kPa)												Ports
High Flow – Series	Solar Panel	Max Flow	* Turnover rate (lpd)		10	20	30	40	50	60	70	80	90	100	120	130	
Model	450 Watts	LPM	Solar 10 h	S & B 24 h	FLOW (lpm)												mm
IZEP 550-HF	1	535	72,000	177,000	535	400	240	150	75	25							50
IZEP 650-HF	1	650	114,000	240,000	650	510	380	275	180	115	65	20					50/80
IZEP 750-HF	2	770	162,000	330,000	770	650	540	410	310	235	170	120	75	35			50/80
Medium Flow – Series																	
IZEP 380-MF	1	385	30,000	90,000	300	240	200	175	160	135	90	60	30				50
IZEP 440-MF	1	440	39,000	123,000	330	300	260	220	200	170	110	75	40	5			50
IZEP 500-MF	2	500	49,500	189,000	540	510	475	400	350	290	245	200	155	110	50	25	50
All powered by safe low voltage 24V dc. Requires one of the matching Solaflo solar controllers. All performance data at full rated speed. All models are Variable Speed.																	
* Indicative average turnover covering all 4 seasons, based on Post Code 5009, @ 30 kPa for “HF” & 50 kPa for “MF” during a sunlight day, Note when on Battery “Eco” mode is default setting, Please see Solaflo website Pump Selection Calculator for accurate pump selection.																	



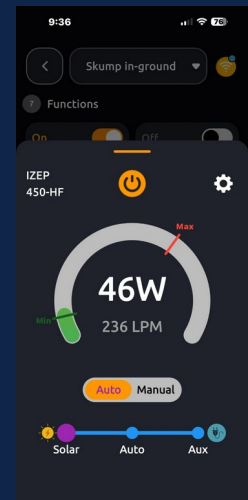
Live flow, battery and energy / dollar savings



IZEP performance & power reporting



All Equipment functions controlled from one app



Live pump power & Flow Solar / Auto / Aux modes

IZEP Solar Pump

Controller options: -

1) Model SOLA

Operates IZEP only while the sun shines, ie up to 10 hours of pumping. Features:-

- Solar PV power in (one, max two panels)
- Pump power out
- Safe low voltage dc
- 3 x temperature inputs: water, air, solar thermal (probes optional extra)
- Wi-Fi – App – full remote control
- Flow & Pressure prediction
- LED ring light provides visual feedback of operation
- Full fault protection

2) Model Sola+

Operates up to 24/7 – solar power during the day, auxiliary power in Eco mode overnight. Features:-

- Includes all the SOLA features plus (+)
- Input for auxiliary power (allowing use of existing home grid connected solar / battery) – auxiliary power pack optional extra
- Input for float, pressure or flow switch (sensors optional extra)
- Output comms RS495 compatible with many BMS systems



SOLA & SOLA+ Controller – wall mounted

3) Model Guardian

Solar & Battery power, operates up to 24/7 – solar power during the day, LFP battery power in Eco mode overnight. Features:-

- Includes all the SOLA+ features Plus
- 1300 W/h LFP battery for up to 12 hours ie overnight
- Input for auxiliary power (allowing use of existing home grid connected solar / battery) – auxiliary power pack optional extra
- Input for float, pressure or flow switch (sensors optional extra)
- Output comms RS495 compatible with many BMS systems

4) Model Ultimate

Solar & Battery power, operates up to 24/7 – solar power during the day, LFP battery power in Eco mode overnight. Designed specifically for the Swimming Pool & Spa market. Features:-

- Includes all the Guardian features, plus
- Robotic pool cleaner output*
- Low salt chlorinator output*
- Ozone steriliser output*
- 2/3-way valve position control *
- Garden light output (12Vdc PWM)*
- Underwater pool light output (DMX)*
- Water quality sensing (4 in 1) – pH, temperature, ORP, conductivity (salt level)



ULTIMATE master controller – all in one
Swimming Pool & Spa market specific

* Note: all outputs are safe low voltage 24 Vdc, DIY plug and play. All accessories are optional extra as required.

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Proudly Australian Designed, Manufactured & Australian Owned

