

Solar pumping set

Applications

Recirculation and filtering of water for swimming pools using solar energy.

Operation

Silen Solar: off-grid system that only uses energy from solar panels, adapting pump speed in accordance with the energy obtained from the sun.

Silen Solar H:

hybrid system that uses the solar energy and another energy source, so that the pump always operates with a 100% output.

Features

Silen Solar consists of three-phase pump and frequency drive Helios P.

System with solar panel power optimisation thanks to frequency variation (MPPT).

IP 44 protection.

Compact solution, easy installation and start-up.

Equipment

Dry work protection.

Thermal protection.

Anti-return diodes to protect the solar panels (hybrid system).

Optional thermal drift compensation (loss of solar panel power due to increased ambient temperature).

Limitations

A filter must be installed for distances of over 50 metres.



Helios P



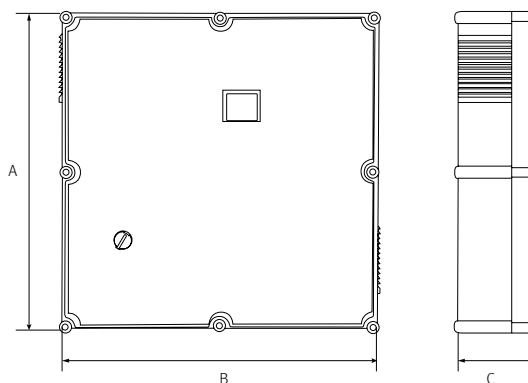
Silen S

Feature table

| Type of system | Model | Pump data | | | | | | Driver data | | | | | | Pump code | Driver code | |
|----------------|----------------------|-----------------|-------|---------|------|------|----------------|-------------------|------------------|-------------------|-------------|---------------------------------|-------------------|-----------|-------------|------------------------------------|
| | | Model | I [A] | P1 [kW] | P2 | | Model | Power up to [kW]* | Voltage in [Vac] | Voltage out [Vac] | Current [A] | Solar Input Voltage Range [Vdc] | Field power [kWp] | | | Thermal drift compensation [kWp]** |
| | | | | | [kW] | [HP] | | | | | | | | | | |
| Off-grid | Silen Solar 100 18 | Silen S 100 18 | 3,8 | 1,2 | 0,75 | 1 | Helios P 75 | 0,75 | 2x230 | 3x230 | 5 | 260-390 | 2,97 | 0,33 | 203153 | 209044 |
| | Silen Solar 300 36 | Silen S2 300 36 | 8,6 | 2,6 | 2,2 | 3 | Helios P 220 | 2,2 | 2x230 | 3x230 | 6,5 | 260-390 | 5,94 | 0,66 | 203164 | 209046 |
| Hybrid | Silen Solar H 100 18 | Silen S 100 18 | 3,8 | 1,2 | 0,75 | 1 | Helios P 75 H | 0,75 | 2x230 | 3x230 | 5 | 260-390 | 2,97 | 0,33 | 203153 | 209045 |
| | Silen Solar H 300 36 | Silen S2 300 36 | 8,6 | 2,6 | 2,2 | 3 | Helios P 220 H | 2,2 | 2x230 | 3x230 | 6,5 | 260-390 | 5,94 | 0,66 | 203164 | 209047 |

Dimension

| Model | A | B | C |
|----------------|-----|-----|-----|
| Helios P 75 | 360 | 270 | 180 |
| Helios P 220 | 360 | 270 | 180 |
| Helios P 75 H | 360 | 270 | 180 |
| Helios P 220 H | 360 | 270 | 180 |



(*) The driver is configured with the maximum power, for lower powers the intensity parameter must be changed.

(**) Thermal drift compensation is optional. Accessories included in hybrid models.