



Features of PAW solar pump modules

PAW solar pump modules and heat transfer systems are designed for use in closed loop solar thermal systems working with glycol.

- Integrated in the pump module are a lot of functions which make the installation easier, prevent installation mistakes and improve the performance of your solar thermal plant.

Features of every unit are

- all water-carrying parts are made of brass
- all sealing components are high temperature resistant up to 266 °F / 130 °C (320 °F / 160 °C - short term)
- Flowmeters are adjustable to set the correct flow rate. High quality bora silicate glass.
- Check valves are integrated in every line in the solar loop. They are made of brass for high pressure and temperature resistance.
- Air scoops in the supply line help to deaerate your system easily
- All pumps used in PAW solar pump modules are UL-certified and equipped with 3-speed motors.

Range of application of the solar stations:

Solar thermal systems are divided into "High-Flow" and "Low-Flow" systems depending on their operational mode. "High-Flow" systems are characterized by a flow rate of 25 - 40 l/m² solar panel surface and hour which corresponds to 0.42 - 0.67 l/(m² x min). "Low-Flow" systems are operated with 10 - 20 l/m² solar panel surface and hour which corresponds to 0.17 - 0.33 l/(m² x min).

The flow rate being circulated in the system depends on the operational mode, the solar panel surface as well as on the performance of the heat exchanger (secondary). The dimensioning of the circulation pump depends on the flow rate and the pressure losses which occur in the heat exchanger, the solar panels and inside the fittings of the system.

In the description of the products the ranges of application/solar panel surfaces are mentioned.

For low-flow systems a specific flow rate of 0.2 l/(m² x min) was assumed; for high-flow systems we calculated with 0.5 l/(m² x min).

These values can only serve as a first help for the dimensioning. It is always essential to carry out a complete dimensioning of the system!

PAW air scoop



PAW flowmeter



PAW high temperature check valve



PAW handle with integrated temperature gauge



PAW isolation valve