

How The Go Solar 4000D Automatic Solar Controller Works

Each Go Solar 4000D carton contains:

- 1-Solar controller
- 1-Electric 3 way diverter valve
- 1-Roof and 1-Water sensor
- 3- 2" to 1-1/2" reducers
- 1-120V power cord (optional 240V terminals should be wired by a licensed Electrician)
- Complete detailed installations and wiring diagrams are included in every box



Additional Parts required:

- 1-1/2" One way check valve
- 1-1/2" quick disconnect coupler
- 1-1/2" Tee's and elbows to accommodate your plumbing requirements

3 heating elements are needed for an automatic solar controller system to work

1. Direct sun light heating the solar panels
2. UV rays from the sun on hot and overcast days
3. Ambient heat from the surface of the roof

If the solar system is NOT shut off or the water is NOT diverted when the roof temperature cools down. The solar panels WILL COOL THE POOL WATER DOWN

The use of a solar blanket is strongly recommended to maintain the heat generated during the day

Set the Dial on the Controller to the temperature you would like your pool water. When the roof sensor reaches the desired temperature, it sends a signal to the controller to activate the motorized 3 way diverter valve. The diverter valve will divert the flow of water from the filter to the solar panels. The water travels through the solar panels which heats up the water and the heated water is returned back to the heater or pool.

When the temperature cools off and drops below the set temperature, the system will automatically switch the 3 way valve to by-pass and the water will flow directly to the heater or pool preventing the solar panels from cooling the water down.

A pool water sensor will signal the controller when the pool water reaches the set temperature and will automatically switch the 3 way valve to by-pass preventing the solar panels from overheating the water.

