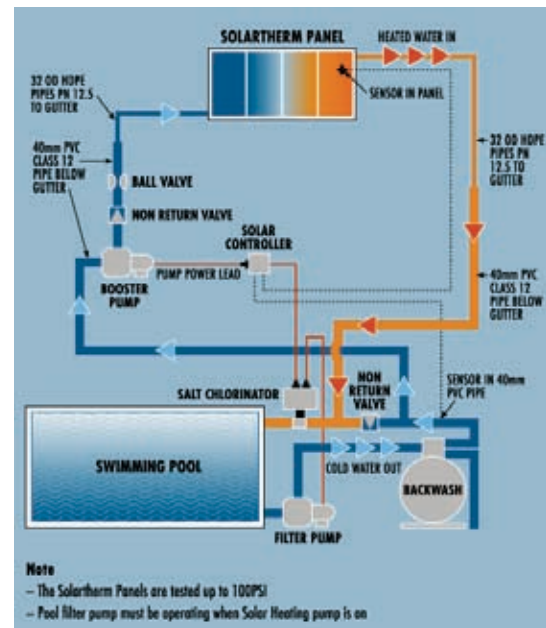


# Solar pool heating

Using the sun energy to heat pool water

- Use solar pool heating to decrease electricity consumption
- Solar pool heating can be used to completely replace existing electric pool heating systems
- Solar pool heating can be implemented either through general solar water heating, or pumping the water through black polypropylene pipes exposed to direct sunlight, which is the more affordable option. Since pool water doesn't need high temperatures. Although this will not be as efficient as general solar water heating especially in winter.
- If polypropylene is used one needs about 50% of the pool space for the heating pipes.

Application: on all existing or new pools  
 Ease: 2-3/5  
 Availability 5/5



*"The majority of heat loss from a pool occurs through evaporation"*

## Factors to consider:

- A solar pool heater needs a lot of space, preferably roof space, which needs to be available (this space can be reduced by using collectors with a higher efficiency).
- It is possible to integrate pool heating with a solar water heating system for mains hot water.
- The aesthetics are a point one should think about, especially when using polypropylene pipes.
- Most heat loss from a pool occurs through evaporation, using a pool blanket overnight will reduce heat loss and reduce the amount of makeup water required.

Cost: depending on system and pool size, price can vary from R5 000 to R30 000

Payback: depending on the initial price paid and whether the pool was heated electrically before, payback period can vary from 5 to 10 years.