



SOLAR
WISE™

DIY Solar Pool Heating

Solar pool heating is the most cost effective way to dramatically increase your swimming season and improve you and your family's comfort level.

Utilising over 20 years experience in heating commercial and domestic pools, Solarwise™ DIY pool heating systems have been specifically designed to be simple, durable and very effective.

The Solarwise™ DIY solar heating kits are available in either 3, 4 and 5m² solar collector lengths and can be used to heat inground and above ground pools as well as spas and aquaculture/horticulture systems.

How Much Solar Collector Will I Need?

It is important to correctly determine the amount of Solarwise™ solar collector you will need for your job. Firstly you must calculate the size of your pool in square metres by multiplying the length by the width or breadth of your pool (eg: 8m x 4m = 32m²).

You then need to multiply this figure x 0.6 (0.6 is the minimum requirement for average conditions ie: a north facing roof with full sun on pool and sheltered from excessive wind. For poor conditions please use a factor of 1.0 instead of 0.6) to determine the total amount of solar collector you require (eg: 32m² x 0.6 = 19.2m²).

Once you know how much solar collector you require, you will be able to work out the number of Solarwise™ DIY Solar pool heating kits or boxes you need (eg: 19.2m² = approx. 4 x kits/boxes containing 5m² panel).

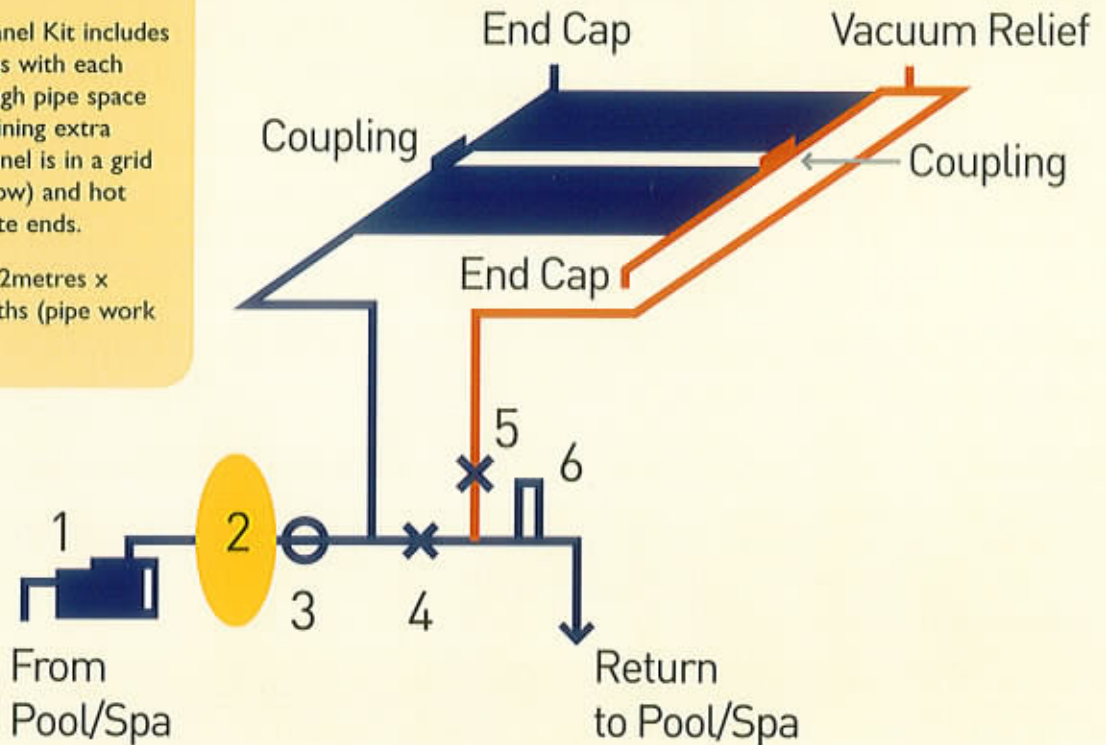
Solarwise™ pool heating panels can be installed on the ground, however a roof or a concrete slab is preferable.

DIY Panel Kit

The Solarwise™ DIY Panel Kit includes panels and two couplings with each panel. Panels allow enough pipe space to enable cutting and joining extra panels in future. Each panel is in a grid format with the cold (flow) and hot (return) pipes at opposite ends.

Panels are available in 1.2metres x either 3, 4 or 5 m² lengths (pipe work – 40mm, Class 12)

1. Pump
2. Filter
3. Check valve
4. Ball valve for diversion
5. Balancing valve (optional)
6. Chlorinator



DIY Installation Kit

The DIY Installation Kit includes 1x vacuum relief valve, complete poly pipe to run drain, 1 x 40/15 faucet tee to screw in vacuum relief, 2 x 40mm end caps, 1 x 40mm ball valve, 1 x 40mm check valve and 2 x tee pieces.

NOTE:- The kit does not include general pipe & fittings, solvent cement, primer, saddles or silicon to glue the collector down. These items are readily available from your local or hardware store or you can order them from Solarwise™. (ALSO AVAILABLE:- SOLAR CONTROLLERS & CIRCULATING PUMPS).

Method

PUMP WORK:- Cut the pipe at point 3 & glue in a check valve and a tee piece to go to the Solarwise™ Panels. A ball valve is installed at point 4 and a tee piece should be inserted to accept the return from the Solarwise™ Panels.

ROOF WORK:- The roof work should be installed as per the diagram above, with the panels joined to the couplings provided. The pipe goes into the collector on one side and goes out the top of the opposite corner. The vacuum relief is then fitted into the screwed tee provided. The vacuum relief can be installed at the top of the hot or the cold line (the hot line is the easiest but the cold line is the best hydraulically) The open ends or opposite corners are blanked off with the end caps provided. **The Solarwise™ Panels can be installed across the roof as per the diagram or up the roof.** The 40mm pipe work should be fixed at around 1 metre intervals with saddles. The black absorber tubes should be glued with silicon at 600mm (500mm in windy areas) intervals. One tube of silicon should prove ample to glue the collector at 500mm intervals.

NOTE:- The black tubes close to the 40mm pipe should not be pulled tight as you need to ensure the black absorber can expand & contract. If leaks occur in the black tubes please ring the number below for your FREE REPAIR KIT.

2 YEAR WARRANTY:- Limited to materials only. To be repaired or replaced at the discretion of Solarwise.

IMPORTANT WARNING:- Solar systems are only suitable for low pressure pumps. Spas with high back pressure or with large high pressure pumps or pools & spas with in-floor cleaning systems (with high back pressure) are not suitable for any solar pool heating product. Failure to follow this warning will void all warranties.



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