HELIOCOL
SOLAR POOL HEATING

Fact Sheet 1

Are all solar pool collectors the same?

Important information to consider when comparing systems

Apart from differences such as warranty and methods of installation, the quantity of material in square metres often quoted by suppliers can be confusing.

Three different areas to consider:

1. Metres of tubing per square metre of surface area

HELIOCOL	Twenty-two Tubes ← 160 mm →	137 Metres per m^2
Other Product A	Fourteen Tubes ← 160 mm →	88 Metres per m^2
Other Product B	Six Tubes ← 95 mm →	63 Metres per m^2
Other Product C	Five Tubes ← 85 mm →	59 Metres per m^2

2. Wetted surface area per square metre of horizontal area

HELIOCOL	2.8 m^2
Other Product A	2.1 m^2
Other Product B	1.7 m^2
Other Product C	1.5 m^2

3. Volume of water per square metre of horizontal surface area

HELIOCOL	2.0 litres
Other Product A	1.9 litres
Other Product B	1.9 litres
Other Product C	1.4 litres

The above figures demonstrate that whilst many systems are sold by the square metre and as a ratio of pool area, products do vary in quality and quantity.

In summary, a square metre of one product is not the same as a square metre of another

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Fact Sheet 2

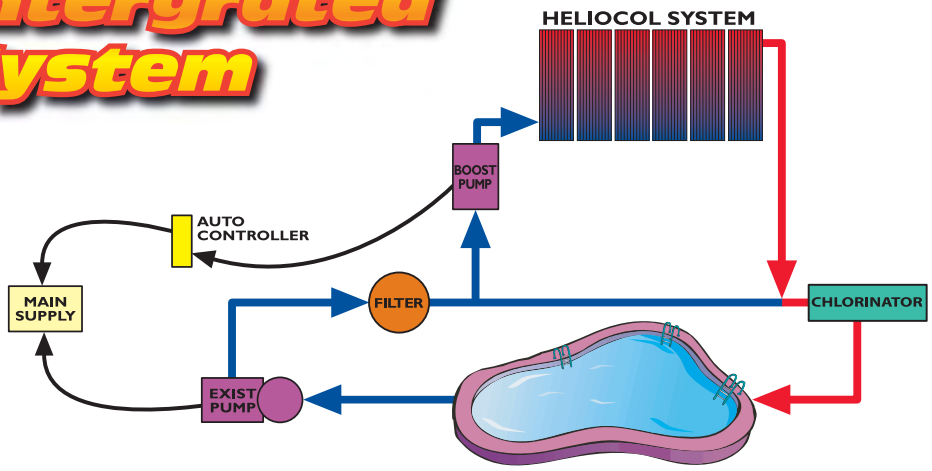
Solar Pool Heating - How does it work?

Heliocol solar panels are installed on your roof in a sunny position.

Your pool water is **pumped through hundreds of tubes** in the collectors where it **absorbs the sun's heat** (think of a garden hose lying in the sun).

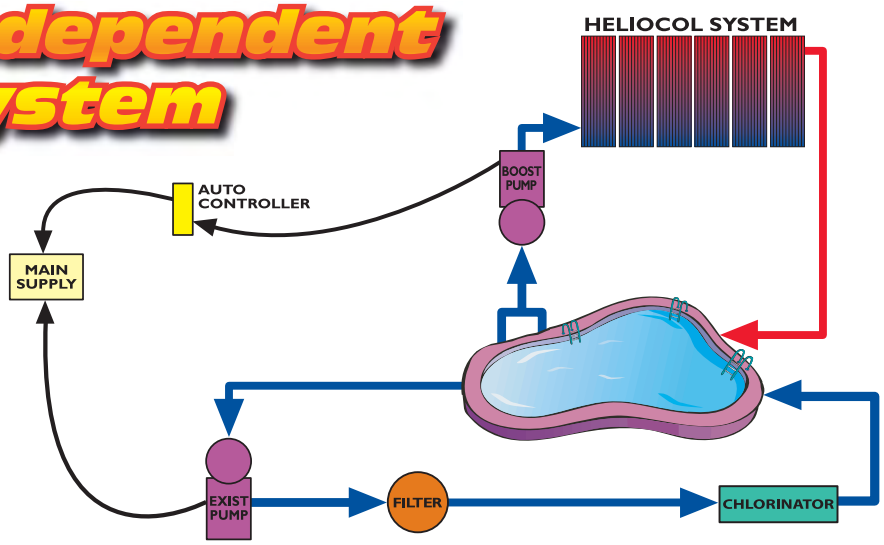
This warmed water is then **returned to the pool** for your enjoyment.

Intergrated System



*The **booster pump** is shown here installed **after the filter.***
This system is used when dedicated solar pipes are not available.

Independent System



*When dedicated solar pipes are available, the **heating pump** is **connected directly** to them. This means the system can run independently of the filtration system.*

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Installation of Solar Provisions

Pipe 1 - Suction

In the wall of the pool closest to the pump, install two safety suction points, 1.2 m apart and approximately 300mm deep. Join these two points together with a tee junction behind the wall of the pool. Now run a single pipe to where the pump for the solar will be located (for larger pools we recommend this be a 50mm pipe. Also if this pipe runs uphill we recommend a good quality check valve be installed to assist with priming.) Leave this suction line capped off next to the pump location.

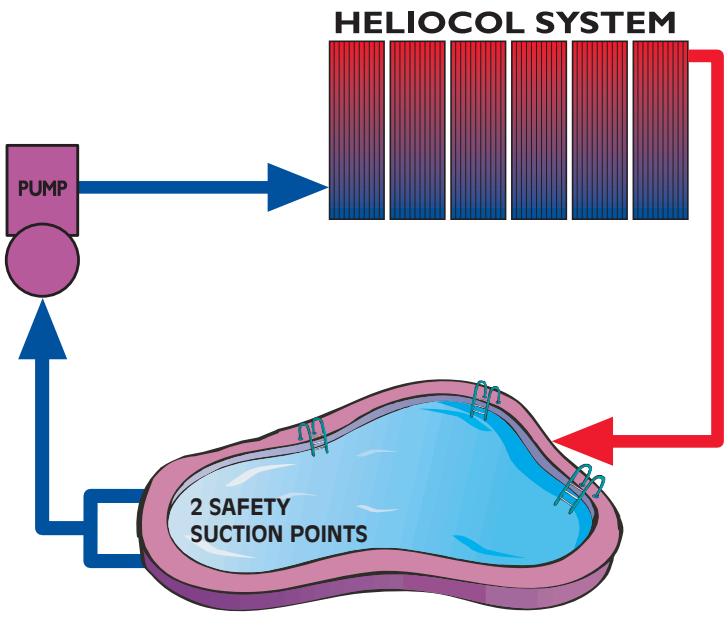
Pipe 2 - Flow Line From Pump to Solar

(if pump is located away from house)

This line can be installed at a later stage when the solar is being installed. However, it may be more convenient for the pool owner if all provisions are installed initially rather than having to trench / cut paths / lift pavers at a later date. Also a length of 20mm conduit with draw wire needs to be installed with the pipe in the ground from the pump to the house, in order to cater for the solar probe (to be mounted on the roof).

Pipe 3 - Return Line to Pool

Run the return line from the house back to the pool with a single eyeball return installed in the wall of the pool on the opposite side to the two suction points. Install the eyeball approximately 600mm below waterline. If the solar return line comes off the roof further along the wall of the house it may be easier and shorter to run the return line directly to the pool from that point, rather than come via the pump location.



For further information on Solar Provisions or any of your other solar pool heating enquiries, contact your nearest Heliocol Specialist. We can even visit and provide advice before pool construction commences.

Benefits of a Heliocol Solar System

25 Year Warranty - The Heliocol panels and components are covered by a 25 year factory backed warranty, 12 years warranty on all Heliocol manufactured parts PLUS another 13 years pro rata (50/50)

Company stability - Manufactured by the same company in the same factory for nearly 30 years. Heliocol is the World's Largest Manufacturer of solar pool heating collectors. Systems are now installed in over 27 countries around the world, including some of the harshest climates like Brazil, Spain, Arizona, India, Pakistan & Australia.

Over moulding Process - During manufacture the headers and the tubes are heat moulded together, becoming one piece. This eliminates hundreds of joins between the tubes and headers, thereby greatly reducing the likelihood of a leak ever developing.

Individual Tube Design - Virtually eliminates wind load. Important in storm season or high wind locations. The tubes are over moulded into the header extremely close together meaning more metres of tube per square metre of product. This design creates greater efficiency in less area.

Cockatoo and vermin resistant - Heliocol, with tough polypropylene construction, is the preferred choice in areas where cockatoos, possums and other vermin can cause damage to other solar systems. Heliocol offers a 5 year warranty against this damage – one year PLUS 4 years pro rata (50/50)

Unique spacer bars - Holds the tubes away from the roof, preventing moisture and debris being trapped under the panel.

UV Stabilised polypropylene - Polypropylene is used in many applications where long exposure to the sun is experienced. Eg Agricultural pipes and tanks; many exterior car parts; as well as mouldings on roof mounted solar hot water systems. The product is not affected by any type of water that may pass through it. Heliocol has no warranty exclusions due to water condition.

Low Head Loss - Each tube is moulded into the header creating a smooth full bore design. Eliminates high head pressure and protects the panel against clogging. Lower head pressure keeps pump requirements to a minimum.

Self - supporting - Heliocol systems can be installed on ground-level racks or framed pergola roofs with no roof sheeting required. Heliocol is often the only product able to be installed easily on slate or steep roofs.

Easy to install - The panel format means the system can be installed quickly and easily. It can be removed for relocation, or to enable roof repairs to be carried out just as easily.

ISO Certified - Heliocol was the first solar manufacturer in the World to be awarded ISO 9002 certification. All products are manufactured to this high and demanding standard.