

Sunbather Pool Technologies

Solar Heating



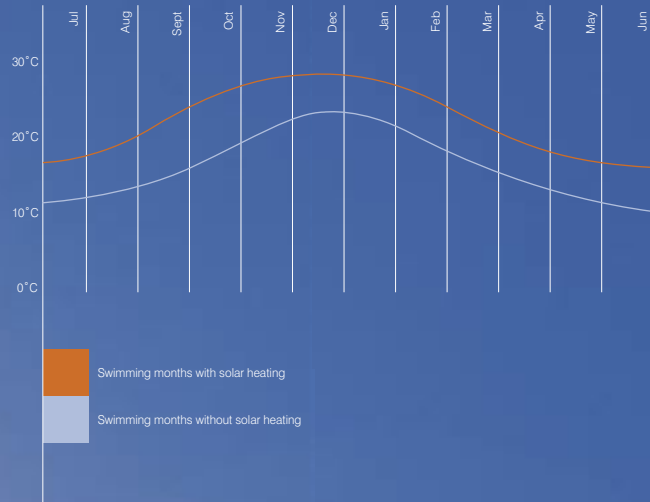
Sunbather
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Pool Technologies

Why not choose the best pool heating system under the sun.

“Our training facilities are world class: That’s why we chose Sunbather.”

Geoff Bullock, Energy Manager, Australian Institute of Sport.



It's the natural choice.

Sunbather is passionate about using natural technologies to reduce greenhouse gas emissions and conserve our precious natural resources. Using solar energy instead of fossil fuels to heat a swimming pool is a natural result of that passion.

It's the logical choice.

Pools are mainly used when the sun is shining all day and to harness this energy, Sunbather pumps pool water up onto a nearby roof, where the sun's heat is concentrated. There, it runs through a network of thin 'collector' tubes to absorb that heat. The heated water then flows back to the pool. The cycle continues until the pool is warm and then switches on and off to maintain the desired temperature. It's so logical it's hard to imagine a better way to heat a pool.

It's the most practical choice.

Water takes so much longer to warm up than air. That's why the swimming season is always so much shorter than the actual summer. Pools are still cold long after summer has arrived. And, at the end of summer, the water just doesn't warm up enough during the day for comfortable swimming. Sunbather solar is designed to synchronise your swimming and summer seasons by drawing warmth from the air and the sun to quickly bring the pool up to an inviting temperature. Put simply, Sunbather increases the number of swimming days per year and the number of swimming hours per day, thereby doubling your summer fun.

It's the economical choice.

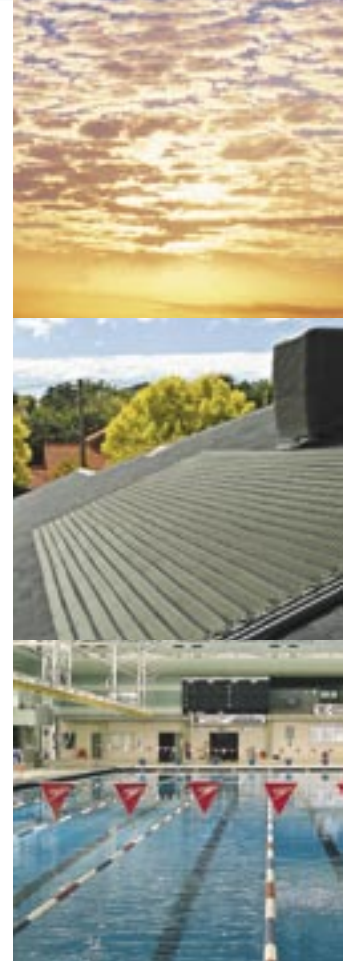
A pool is a significant investment and solar can help you get full value from that investment. Solar can double your family fun over summer. Or, if you've invested in year round health and fitness, it can slash the cost of gas or electric pool heating bills.

And the cost?

Well, the sun's energy is free. And solar set up costs are significantly less than for fuel-based heaters. That's why so many big commercial pools in Australia use Sunbather solar. It not only saves our environment, it saves your money as well.

And it's your choice.

So exercise your right to choose. Choose the most logical, natural, cost-effective and environmentally responsible pool heating system. Choose a solar system by Sunbather.



Choose the world's best engineered solar pool heating.

I have been associated with several Sunbather solar installations since 1974. They have all been efficient, reliable and shown significant economies. The company is a leader in this important field of technology.

Sir John Holland A.O., John Holland Constructions

Sunbather's 30 year passion for new ideas and better technology has seen it constantly advance the engineering of solar pool heating. It began with improvements to the collector's ability to trap and transfer the sun's heat.

Incident Angle Modifier Effect.

A collector strip combines 6 or more solar tubes into a single strip. And, of course, it's easier and cheaper to join tubes at the centre and only expose the top half while the bottom half remains in darkness pressed hard against the cold roof. But it's not good engineering. Sunbather connects the tubes with webbing at their base, exposing the maximum area of each tube to the sun as it moves across the sky. Called the Incident Angle Modifier Effect, it even exposes the webbing to the sun transferring heat to the tubes on either side.

From EPDM to HiPEC.

As a solar pioneer, Sunbather's early systems were synthetic EPDM rubber. It worked well but it had longevity problems. So that passion for better technology saw them develop their own material.

HiPEC had thinner, tougher walls.

Thinner walls provide significantly faster thermal response time. It weighed 18% less. And while others contained up to 50% carbon black, a major contributor to a problem known as 'tea-leaving', HiPEC had only 4%. Tests also proved it to be far more resistant to the weather, chlorine and the micro-organisms that attack other collector materials.

"After 2500 hours of accelerated testing to ASTM G53 the HiPEC samples showed no degradation or deterioration".

Australian Vinyls Pty Ltd



Just six tubes and a lot of holes.

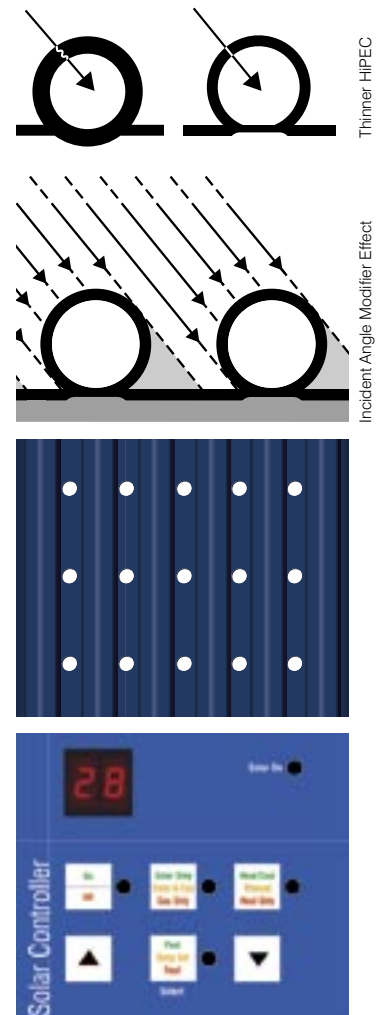
Solar engineering is complex. It's been argued that putting more tubes and therefore more water on the roof will speed heating. Sunbather tests prove it doesn't. It only increases the weight of water on the roof and thermal efficiency isn't that simplistic. Tube thickness, thermal resistance, the area exposed to the sun and the uniform distribution of water over the whole system all contribute.

Even the roof plays a part.

Cold wet roofs retard warming, which is why Sunbather punches holes in the webbing so overnight dew can evaporate quickly allowing the roof to breathe and warm faster.

Total control.

A sophisticated Sunbather solar controller also helps by managing the whole process, monitoring water and roof temperatures and adjusting the flow accordingly.





Choose the world's best looking solar pool heating.

“Even in those early years I knew this group were capable of using CSIRO research to build a world class business.”

Roger Morse, Former Director of the Commonwealth Scientific and Industrial Research Organisation, Australia



So good-looking you can't see it.

Sunbather's passion for new ideas isn't restricted to performance. Solar systems sit on the roof, often in full view, so appearance is also critical.

At first collectors were always black and they worked well, but on some homes they didn't blend into their surroundings very well.

Sunbather's idea?

A new series of solar collectors to match the most popular roofing colours, - Terracotta, Caulfield Green, Slate Grey, Mountain Blue and Iron Bark Brown.

Sounds easy, but they had to maintain Black HIPEC's reputation for quality, performance and durability. They also had to sell at the same price despite higher material costs. It took years to perfect, but Sunbather did it so well its coloured solar was awarded a silver medal in the pool industry's 2003 Product Innovation Awards.

Interlinx was a great idea.

Kwik-lok is an even better one.

Sunbather's legendary Interlinx connection system is unsurpassed for reliability and performance. But only trained Sunbather installers can use it. So Sunbather developed an alternative. Their new idea was Kwik-lok, the first 'click-together' manifold connection system good enough to carry the Sunbather name.

It's so simple anyone can install it and still maintain Sunbather's quality and reliability standards.



FLAT Loops not FAT Loops.

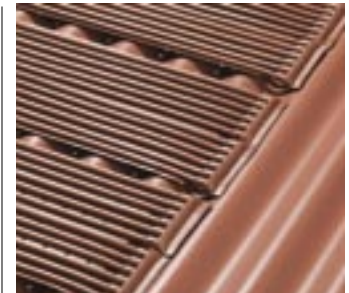
In the past, getting the water back to the header pipes and the pool meant looping each collector strip around at the end of its run.

That meant even Sunbather six-tube collector had loops sticking up two or three inches above the roof line. Ten or twelve-tube collectors had loops eight or ten inches above the roof line, collecting dirt and debris and looking very, very ugly.

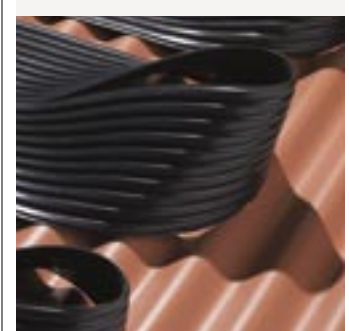
Flat Loop Technology.

Now, Sunbather's revolutionary Flat Loop Technology offers pool owners a choice - 'fat' loops and 'flat' loops? Every FLT collector lies completely flat against the roof.

A world first, it was recognised for its ingenuity and complexity with the gold medal in the pool industry's 2004 Product Innovation Awards.



Flat Loop



Fat Loop

Guarantee.

Sunbather products are based on great ideas. They are then designed and manufactured up to the highest standard, not down to the lowest price. That's why a Sunbather Solar Pool Heating warranty is always a true reflection of reliability and quality.

All too often a product warranty is little more than a sales gimmick. A gimmick that's designed to give you a false sense of security at the point of purchase and a real sense of insecurity should ever something go wrong.

A Sunbather warranty on the other hand, means what it says. That's because Sunbather is not just a sales organisation.

For all their solar pool heating systems, Sunbather is also designer, engineer and manufacturer. So they know the tolerances of the materials they use and the performance and durability that has been built into every component.

Every Sunbather solar pool heating warranty is a simple promise of quality and reliability. And it's a guarantee that you know they can keep.



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