



SOLARTherm



Solartherm Pool Heating System

Owners Manual

We believe we have come up with an extremely durable product that not only works but is also aesthetically more pleasing to the surrounding environment.

October 2019

Congratulations on purchasing your new Solartherm Pool Heating System, we hope it provides many hours of enjoyment for the whole family for many years to come.

The target temperature for extending your swimming season in Australia is 25-26 degrees when you install the recommended number of panels.

Please read the information provided carefully to avoid any unnecessary problems with your system in the future. This is your record of the installation date, warranty and how best to look after your system.

INSTALLATION

- **The panels must only be installed when there is water in the pool.**
- The Solartherm Pool Heating System should be installed as directed by Solartherm
- The installation procedures as advised by Solartherm (please refer to our website at www.solartherm.com.au for further details) must be followed strictly to ensure your Solartherm warranty is not nullified.
- Installers should ensure that their installations comply, at all times, to the local Council and State building codes and occupational health and safety standards.
- The system can be fixed to a roof whether it be on your house, pergola or shed, tiled or colorbond.
- The system can be also fixed to a framework and located on the ground.
- The preferred direction for the panels to face is North, North West and slightly inclined 10°- 22.5°
- Ultimately other options are available, however depending on what they are; they all may affect the overall performance of the system. This can be overcome by simply adding more panels to the system.
- For maximum benefit from your system we recommend that a pool blanket be used in conjunction with the Solartherm System.

THE SOLARTHERM SYSTEM

The Solartherm System comprises of a panel made from HDPE (High Density Polyethylene), a highly durable material in salt and chlorinated water conditions. Each panel has been individually pressure tested to 70psi (483 kpa). The casing is made of extruded anodised marine grade aluminum with a hail resistant clear polycarbonate cover. As the panel is modular in design, you can add on more panels to your system if you wish to increase the pool temperature at a later date. In addition, if you move to another property, the panels can be dismantled and re-installed to the new location.

BASIC OPERATING PRINCIPLES

IMPORTANT: The controller for the system **must be powered up at all times** and must not be switched off unless maintenance is being carried out on the system. If controller is switched off, the panels need to be physically covered to prevent exposure to sunlight.

Water is re-circulated from the pool to the Solartherm Panels by a booster pump. The Solartherm Panels absorb the solar energy from the sun into the water and return the heated water back to the pool, thus raising your pool temperature (diagrams available on website). The temperature of the heated water can be raised or lowered by decreasing or increasing the flow rate via a ball valve. A specially designed Solar Controller attached to your pump will keep your pool at the desired temperature in a cost-effective manner. In

addition, the Solar Controller will also ensure the Solartherm Panels will be protected in all seasons of the year.

BOOSTER PUMP

A booster pump is all that is required to pump the water from the pool through the Solartherm System. The size of the pump is normally from 0.75hp – 1.5hp the pump size will vary depending on how far the water needs to be pumped, that is from the pool through the panels and back to the pool. The brand of the pump may vary from system to system however you should be provided with a warranty certificate for whichever pump is supplied with your system.

SOLAR CONTROLLER

The Solartherm Solar Controller must be used with the system for the warranty to stand. The controller protects the panels and makes the system fully automatic, easy to use and makes the system more efficient to run. For the best results you should use the Solartherm controller made specifically for our system by Dontek Electronics. You should be provided with instructions as well as warranty information for whichever controller is installed.

GENERAL CARE OF YOUR SYSTEM

- It is important to note that the Solartherm Panels must be filled with water at all times, to preserve the integrity of the solar heating system, unless under maintenance conditions.
- The system itself **should not be switched off** for a period of time unless maintenance is being done to the system by a trained installer.
- If controller is switched off, the panels need to be physically covered to prevent exposure to sunlight.
- The solar controller will ensure that the system turns on at regular intervals throughout the entire year and this will ensure that the panels and the booster pump are operating normally.
- It is also recommended that the system be serviced by the installer once every Twelve to Eighteen months. This consists of checking all fittings and pipe work, cleaning the polycarbonate covers etc. This would keep your system in good working order and will extend the life of the system.
- If your pool is not plumbed for Solar (no separate pipes for the solar) and your system is an integrated system you must remember that the solar pump must only operate when the main filter pump is in operation, unless your system is plumbed with non return valves and set up for independent use, it is recommended that the solar run for 6 – 8 hours a day to get the maximum benefit from the sun.
- If your pool is plumbed for Solar (2 separate pipes specifically for solar), then you are running separate systems. The booster pump can operate during the day and you can run your normal filter pump when you wish.

In either case check with the installer for the best and most efficient way to run your system

For more information contact:

Solartherm

Phone: 1300 48 30 30

Website: www.solartherm.com.au

Email: info@solartherm.com.au

Solartherm, as a general reference for information purposes provides all information and material contained in this manual.

Whilst Solartherm has made every effort to ensure the accuracy and completeness of the information and material contained herein, neither it nor its data providers give any warranty or guarantee concerning the accuracy or completeness of the information hereby provided and expressly disclaims any liability arising from the use of this document.

SOLARTHERM WARRANTY

The warranty provided, **only applies to the Solartherm Solar Pool Heating System and components as listed below**. Solartherm provides the following limited warranty for materials and workmanship of the **Solartherm Solar Pool Heating System**:

SOLARTHERM INSERT:

1. The Solartherm Insert carries a **10-year full replacement warranty** (insert only, excluding labour and freight) against any manufacturing defects or cracks in the Solartherm Insert.
2. This warranty is not transferable and will apply to the first purchaser only.
3. Only Solartherm Inserts installed following our suggested installation method and fittings will be covered by this warranty.

Warranty will be VOID if:

4. The Solartherm insert is subject to wilful damage, misuse, vandalism, and or accidental damage.
5. Modifications have been made to the Solartherm insert.
6. The Solartherm insert is installed in a manner that does not comply with the installation recommendations.

GENERAL:

1. The obligations and liabilities of Solartherm, under this warranty are limited to those of the Solartherm Solar Pool Heating System only.
2. Solartherm is not liable for any direct, indirect or consequential damage, loss or disruption, as a result of system failure or improper installation.
3. No other company, person, or organization of any kind, is permitted to accept any claim on behalf of Solartherm unless authorized in writing to do so.
4. Due to ongoing development, the Solartherm panels may be improved and changed from time to time. Solartherm is under no obligation to supply those improvements or changes to any existing Solartherm Solar Pool Heating Systems.
5. This warranty is non-transferable and applies solely to the first purchaser of each individual system.

ACCESSORIES:

1. **Compression Fittings** -12 months warranty and cover parts only (excluding labour and freight)
2. **Polycarbonate Cover** - 24 months full replacement warranty (excluding labour and freight)
3. **Aluminum Box** - 5 years full replacement warranty (excluding labour and freight)



The following points must be adhered to, for your warranty to remain valid.

- 1. The panels must only be installed once there is water in the pool, as the panels need to be filled with water before the polycarbonate covers are placed on the system.**
- 2. The Solartherm Solar Controller must be the only controller used on the Solartherm system and installed correctly.**
- 3. The Solartherm Solar Controller *must remain switched on at all times* to protect the panels. The only exception is under maintenance conditions. We recommend that you contact Solartherm before turning off. If controller is switched off, the panels need to be covered to prevent exposure to sunlight.**
- 4. The system can be plumbed in HDPE pipe or class 12 PVC but in both cases must have a Vacuum Breaker in place so that the return pipe back to the pool can drain when the system turns off for the day.**



WARRANTY CERTIFICATE

This Warranty Certificate is issued to:

Customers Name: _____

Of

Address: _____

This is to certify that the Solartherm S16 System is warranted by Solartherm for materials and workmanship, under the terms and conditions of the Solartherm Warranty Statement.

The warranty period will commence from the date below.

Installed By: _____

Number of Panels: _____

Date Installed: _____

Please email a copy of this certificate to info@solartherm.com.au on installation of your system.