

Ready To Go Flexible Solar Kit

System Installation Manual



See how we install it!



CLIMATECARE
CERTIFIED

Australian Made Solar Pool Heating

MANUFACTURED BY:



Helping you get up and down the roof in no time!

With Ready To Go Solars Professional Grade Pool Heating System you can get near \$0 energy costs for up to 20 years, saving you heaps.



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Introduction

READY TO GO SOLAR KITS PROVIDE A FAST AND EFFICIENT INSTALLATION PROCESS



Purpose and Scope

The intent of this installation guide is to equip you with sufficient knowledge to design and install a Ready To Go Flexible Solar System. To ensure that the systems and components function and perform correctly, all recommendations presented in this manual should be adopted by the you; failure to do so may void the warranty. This installation guide is for domestic installations only.

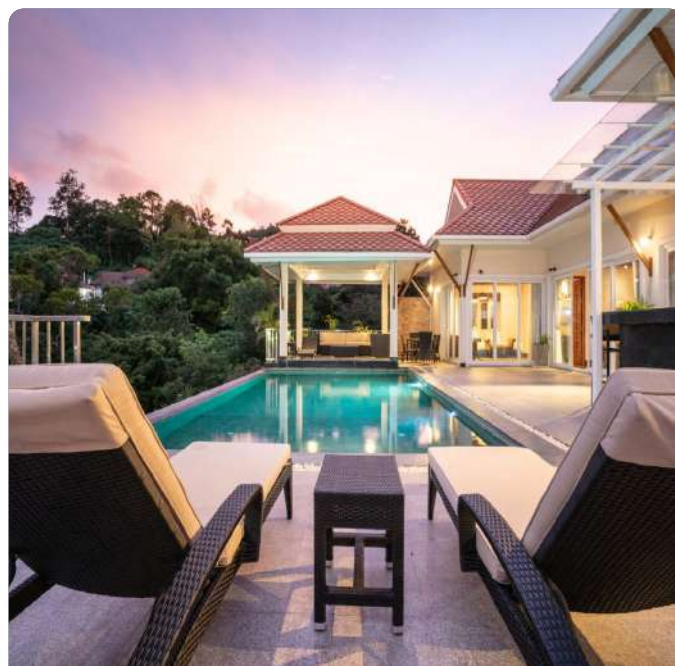
Safety Precautions

When installing a solar system, always exercise extreme caution when working with heights or around water; do not use short cuts, as there is no substitute for safety. You must accept the responsibility for assessing and implementing safety systems and procedures in accordance with all regulatory and moral requirements. The potential to fall from a roof is a major risk along with electric shock and exposure to harmful UV radiation and heat exhaustion.

It is expected that if you are installing the system that you use all necessary safety harnessing, scaffolding, safety railing and suitable footwear. It is also expected that you are aware of any electrical shock hazards, weather conditions, the roof condition, roof access methods, pitch angle, and sun protection when deciding to install the system.

For more information on working safely with heights, check out the Work Safe 'Working with Heights' website for more information.

<https://www.worksafe.vic.gov.au/resources/12-ways-make-small-business-safer-handbook-workplaces>

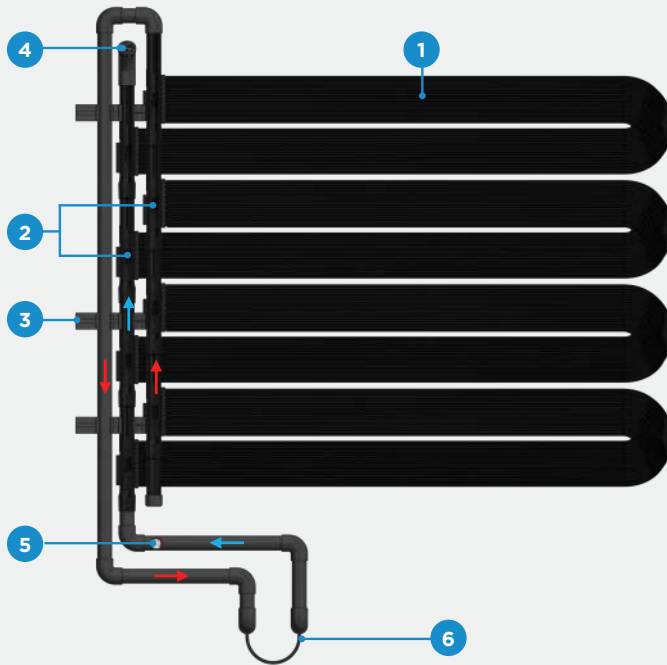


Before getting started

Specifying the right location for the Ready To Go Solar System.

It's important you select a suitable roof to ensure optimum performance of the Ready To Go Solar System. Take care to select a roof with no shading from neighbouring buildings or vegetation.

The optimum position to install a thermal solar pool heating system is on a Northwest, North, flat (15° or less), or West facing roof. A system can be installed on an East facing roof, however a slight increase in on coverage is recommended. Approximately 6%. It is not recommended to install a solar system on a South facing roof.



Components of the System

- 1 Solar Coils
- 2 Manifold & Barb Lock
- 3 Manifold Mount
- 4 VacRel Vacuum Relief Valve VHP
- 5 TufGauge In-line Solar Pressure Gauge
- 6 Drain Down / Equaliser Kit

How the System Works

Thermal Solar Pool Heating is a simple and effective form of pool heating. Pool water is pumped through a series of tubes, known as solar collectors which are installed on the house, shed or other nearby building. The solar collector absorbs the sun's free heat and transfers it to the pool water that is being pumped through it. This heated water is then returned back to the pool.

You can automate the heating process by installing a digital solar controller, which monitors the roof and pool temperatures and automatically switches the system on and off to ensure maximum heating efficiency.

Required Tools for Installation



**Standard
Caulking Gun**



**Type P PVC
Cement & Primer**



**Impact Driver or
Drill**



**Philips
Head Bit**



**Don't forget. You will also require
PVC pipework to plumb your system**



**3mm & 8.5mm
Drill Bits**



**Hand Saw
(For Metal Roofs)**

System Configurations

System Configuration Options

Review the below installation configurations and follow the system design that best suits how your installed Ready To Go Solar System will be plumbed to the Pump House.

Note: Bottom feed systems are a preferred design as this allows for improved drain down back to the pool. Care should be taken to ensure that the systems pressure is maintained as recommended by the pressure gauge.



**Right Hand Side
Bottom Feed Solar System**



Figure: 01

**Left Hand Side
Bottom Feed Solar System**



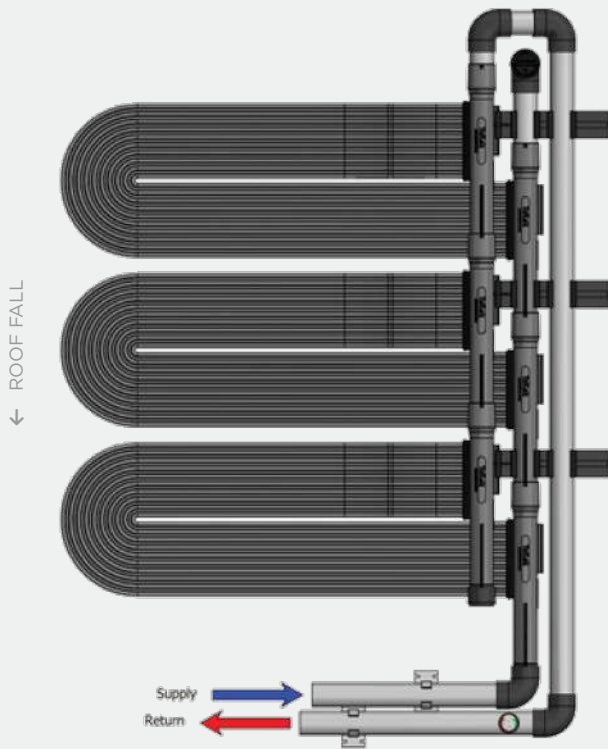
Figure: 02

Top & Bottom Feed System Configurations

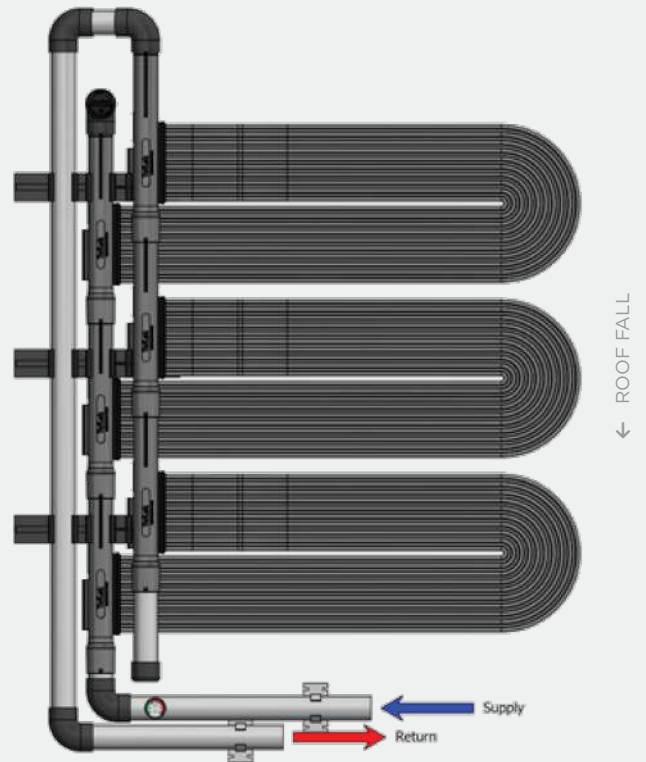
See our bottom and top feed configurations on the next page for reference to help see what best suits the roof you're working on.



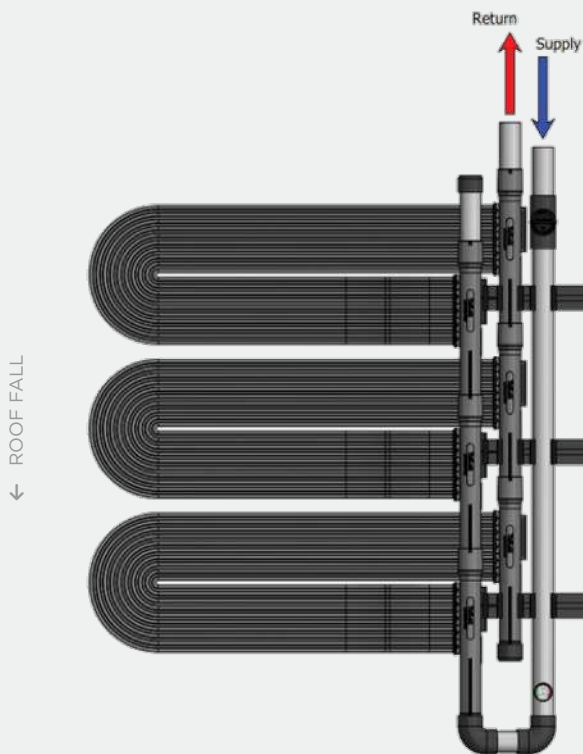
Configuration 1 - RHS Bottom Feed
PREFERRED LAYOUT



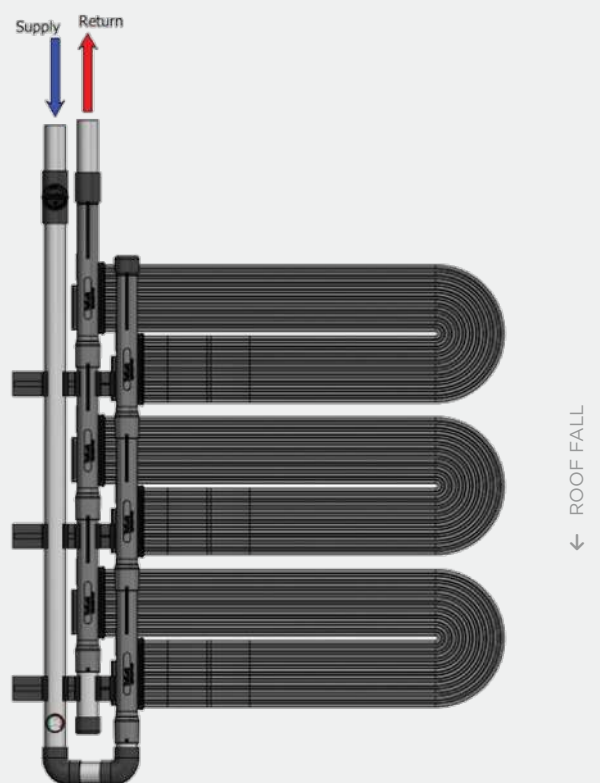
Configuration 2 - LHS Bottom Feed
PREFERRED LAYOUT



Configuration 3 - RHS Top Feed



Configuration 4 - LHS Top Feed



Installing

Installation Techniques for a Typical Bottom Feed System

The following steps will help aid you in the installation of a typical bottom feed solar system. Should you be installing a top feed solar system please refer to the configurations (3) and (4) on page 7 before installing.

Please familiarise yourself with the installation steps below and utilise the images and video via the QR code for reference as needed.

Before commencement of installation It is important to ensure that the roof is clean, dry and is removed of any blocks, masses and other dangers to the Ready To Go Solar System installation.



Step 1 - Cutting the Manifolds to size (if required)



Figure: 03

Cutting the Manifolds to size

Tiled Roofs: Generally the moulded length of the manifold will suit most tiled roofs and will require little, if any cutting back of the material. The supplied manifold size is 400mm long allowing for 50mm of glue to join.

Metal Roofs: If required, the manifold can be cut back by approximately 25mm (Figure: 03) to result in maximising the roof utilisation. If you make a cut back please ensure you thoroughly de-burr edges and remove any loose material.



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Step 2 - Bonding the Manifolds

! Before starting the bonding procedure it is important that you do NOT use any solvent primer on the manifolds or any other ASA components.

Ensure that you wipe down the joint surfaces with a clean cloth to remove any dust or contaminants. Apply the solvent primer only to the PVC-U pipe ends and/or fittings. Failing to comply with the above instructions may void the warranty.



Figure: 04

Application of Type N PVC Cement to the male end of the Manifold

Apply only a THIN layer of solvent cement into the FEMALE socket end of the TufMan manifold for the first approximate 30mm only, then immediately apply ample solvent cement to the MALE component/s for the full 50mm length or five divisions on the TufMan. Ensure that there is total coverage, but do not over apply or go over more than 50mm. (See Figure: 04)

Once the cement is applied, immediately follow the steps below to allow easy insertion of manifolds before the applied cement dries.



Figure: 05

Insertion of the male to female manifolds and arrow head alignment

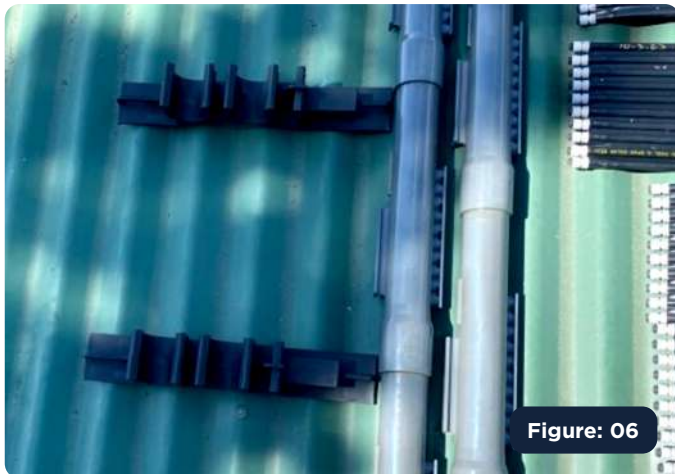
Insert the male end into the female socket immediately after the cement is applied, ensuring the full 50mm engagement into the female socket.

While inserting the manifolds, quickly align to the 2 arrow heads marked on each manifold end and hold long enough to ensure a secure bond. (See Figure: 05)

After insertion you will notice a small area of glue on the manifold. With a clean cloth wipe off any excess and allow the solvent cement to dry for a minimum of 24 hours before the system is turned on and with pressurised water.

STEP 3 - Fixing the Roof Mount onto the Roof

The roof mounts are secured to the roof and are designed to retain the supply and return manifolds and the balance pipe (not included in the kit). This keeps the manifolds correctly aligned, reducing any thermal expansion stresses at the glued joints as well as keeping the system displayed neatly on your roof.

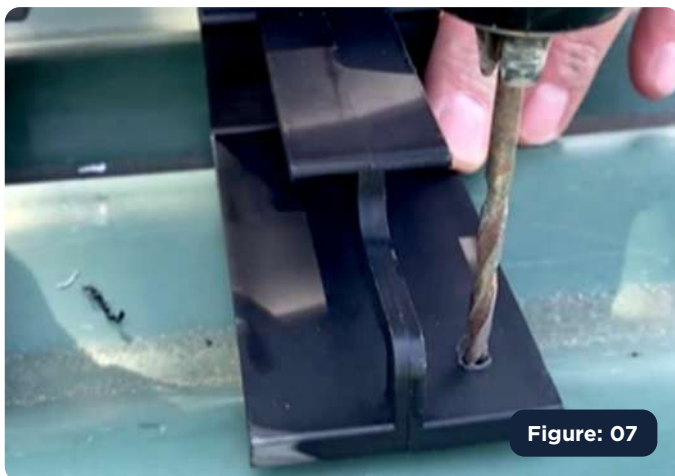


Securing roof mounts to the roof

The exact location of the Roof Mounts can be determined by temporarily inserting the pre-glued supply and return manifolds into the multiple Roof Mounts.

Locate a Roof Mount at either extremity of the manifold array and space the remaining mounts equally between these two. Use a suitable marking pen or chalk to assist with correct positioning on the roof.

(See Figure: 06)



Securing roof mounts to a metal roof

To secure roof mounts to a metal roof pre-drill holes into the roof mount that aligns with the peaks (high points) of the metal cladding. Mark the location of the holes accurately on the mount.

Once marked and checked, screw the roof mount to the roof at each end using 2 or more appropriate self tapping metal screws and a generous bead of silicone sealant. (See Figure: 07)

Securing roof mounts to a tiled roof shown on page 11



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Securing roof mounts to a tiled roof

To secure roof mounts to a tiled roof you will need to use the Boss Tile Roof Kit. Using the straps at each end of the roof mount, hook the strap over the desired tile with the double bend hooked over the leading edge of the tile.

Once secured position the roof mount towards the leading edge of the tile. (See Figure: 08)

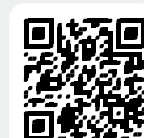
Please read the note below to ensure the roof mount is secured to your roof correctly before proceeding.

- ! Ensure that the roof mounts are positioned as such that both manifold systems are allowed to longitudinally thermally expand and contract without interference against the roof mounts or any other obstacle. Failure to comply may void warranty.
- ! Do not drill into or mount this roof mount in any roof valley or water flow gutter/channel. This roof mount must not be mounted where it may obstruct natural water run-off the roof. On flat metal roofs it is important to elevate manifolds out of the valleys to ensure water flow is impeded.
- ! Roof mounts must be positioned towards the bottom leading edge of the tile.



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STEP 4 - Installing the Manifold System

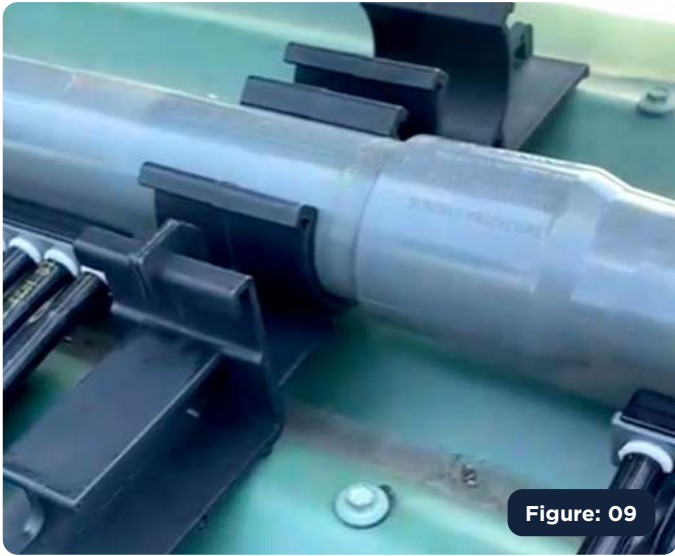


Figure: 09

Installing the manifold system to the mount

To commence the installation, first hook and clip the pre-glued Return (front) manifold assembly into the T-slot of the roof mounts (See Figure: 09)

Secondly, clip the pre-glued Supply (middle) manifold assembly into the centre clip of the roof mount. Finally, clip the 40mm pressure pipe (balance pipe) into the rear clip of the roof mount. (See Figure: 10)

Note: Do NOT glue the manifold system to the mount. The hook and clip assembly will secure the system sufficiently. Gluing the manifold system to the mount may void the warranty.



Figure: 10



The balance pipe (not included in the kit) should be a 40mm PN12 PVC-U pressure pipe that can be sourced through most plumbing supply outlets. The balance pipe ensures equal pressure and flow rates throughout the solar panel system and is required to ensure the correct operation and performance of the entire system.



Do not proceed with any further gluing of the manifolds or balance pipe. It is advised that you do not plumb the top or bottom of the manifold system until the first length of the panel coil has been installed into both manifolds and is approved; this procedure ensures the correct alignment of the manifold prior to any gluing procedure.



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STEP 5 - Install the Top Panel Collector Coil



Installing the panel coils

Beginning with 1 panel coil, at the top of the manifold system unroll half of the coil in a straight line across the roof, gently lead the coil around (do not flip) and fold the looped end section in half, then continue unrolling the coil back towards the manifold system.

(See Figure: 11)



Connecting the panel coils to the manifold, secured with barb locks

Once rolled out and laid out, insert all 10 of the grey male panel adaptor ends into the manifold ports. Ensure all adaptors are fully engaged and secure before inserting the barb lock into the 9 slots in the manifold. The raised lip of the barb lock should be facing outward towards the panel collector.

Finally, push down firmly in the centre and on the outsides of the barb lock evenly until you hear a click, securing the barb lock in the manifolds.

(See Figure: 12)



Ensure that the barb lock is correctly aligned before inserting. (See Figure: 12) You do not need to use excessive force and only requires minimal hand force to insert correctly. Ensure you are also fully satisfied prior to beginning any glue procedure.



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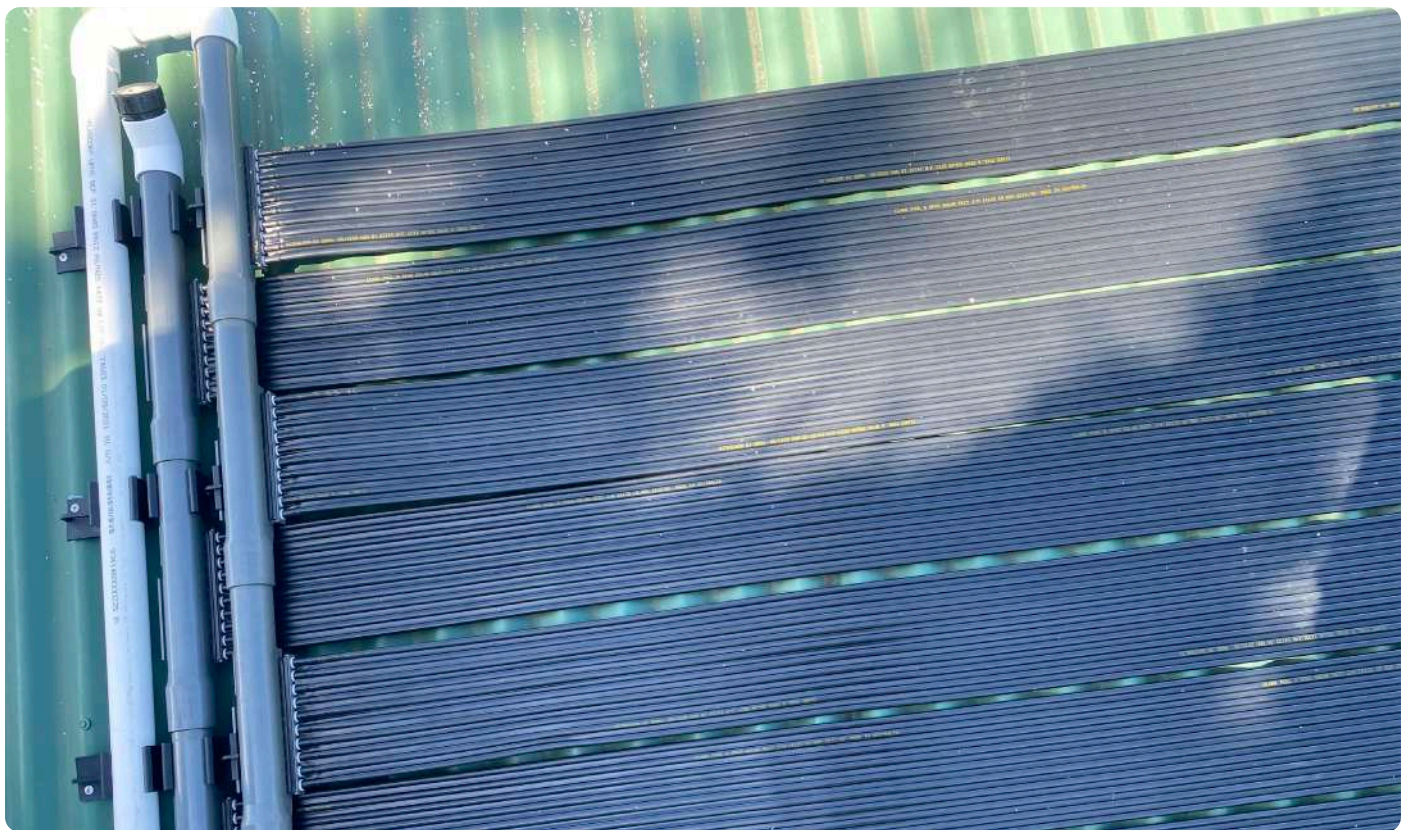
STEP 6 - Plumb the Top of the Manifold System



Configuration of plumbing to the top of the manifold system

Only once you are completely satisfied with how the installation is progressing should you proceed with the plumbing to the manifold system.

Plumb the top of the manifold system (See Figure: 13) as per your system configuration. (Refer to page 7)



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STEP 7 - Adhering the Panel Coils to the Roof



Figure: 14



Figure: 15

Securing the panels to the roof

Working from the top of the system and down towards the roof, apply at the top and bottom of the panel coils a generous (50mm long) bead of Prosil silicone (clear) directly to the roofs surface.

This will be sufficient for most average installations to adhere the panel collector strips for the lifetime of the system, provided that both the roof and collector strips are clean and dry. The beads of Prosil silicone should be no more than 400mm to 500mm laterally apart for majority of installations.

Please ensure that the collector strips are installed in a relaxed state so that there is no unnecessary tension or stress on the manifold system.

Once the Prosil silicone has been applied push the collector strips down gently, ensuring ample contact between the two surfaces has been made without expelling excessive silicone from underneath. (See Figure: 14)



You will need to repeat step 5 and step 7 for all remaining panel coils ensuring that you work from the top, down the roof until all panel collector strips have been installed.



It's important that installing, then adhering individual panel collectors from the top of the system down, to allow you to easily reach over the previously laid panel collector and apply Prosil silicone adhesive from below. This will minimise the need to lean over, stand and/or kneel on the laid panel collectors.

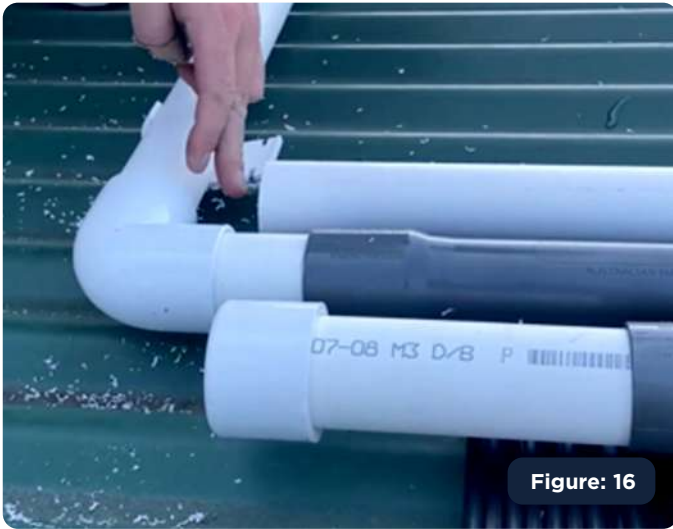


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STEP 8 - Plumb the Bottom of the Manifold System



Configuration of plumbing to the bottom of the manifold system

Only once you are completely satisfied with how the installation is progressing should you proceed with the plumbing to the manifold system.

Plumb the bottom of the manifold system (See Figure: 16) as per your system configuration. (Refer to page 7)



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STEP 9 - Plumb the Manifold System to the Pump House

- ! Plumb the bottom of the manifold system to the pump house as per your chosen system configuration on page 7. See Figure 17 below showing manifolds plumbed to the supply and return pipes.



For a metal roof

To secure the plumbing of the manifold system to the pump house you will need to use EzyClips. Mark the corners of the surface on where you wish to install the screws and apply a bead of Prosil silicone to the roof. Place the EzyClip on top and fix using two screws. Once secured snap the PVC manifold system into place.



For a tiled roof

To secure the plumbing of the manifold system to the pump house you will need to use EzyTies and UV resistant cable ties. Lift the tile and slide the EzyTie underneath until it hooks onto the below tile. Release the tile to securely lock it into place, then fold the EzyTie back on itself and lay the pipe on top. Slide the supplied UV resistant cable tie into the appropriate hole, then loop around the pipe and tighten until firm. Be sure you do not over tighten and trim the excess cable tie. Ensure that the pipework is securely fixed to the roof using the mounting system that matches your roof type.



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Plumb System to Pump House

For a Manual System Configuration (No pump or digital controller)

Involves plumbing into the filtration line and manually opening and closing a three-way valve to divert water to the system. This system does not require a Digital Controller or Solar Pump and is the cheapest way to plumb the system.

However, you have very limited control over the heating process and must remember to go out and adjust the valve if you want the system to operate.

Before proceeding with this type of installation you should determine the capacity of your existing pool pump. The plumbing must be cut in before any other pool equipment (eg: chlorinator cell, heat pump, gas heater etc)

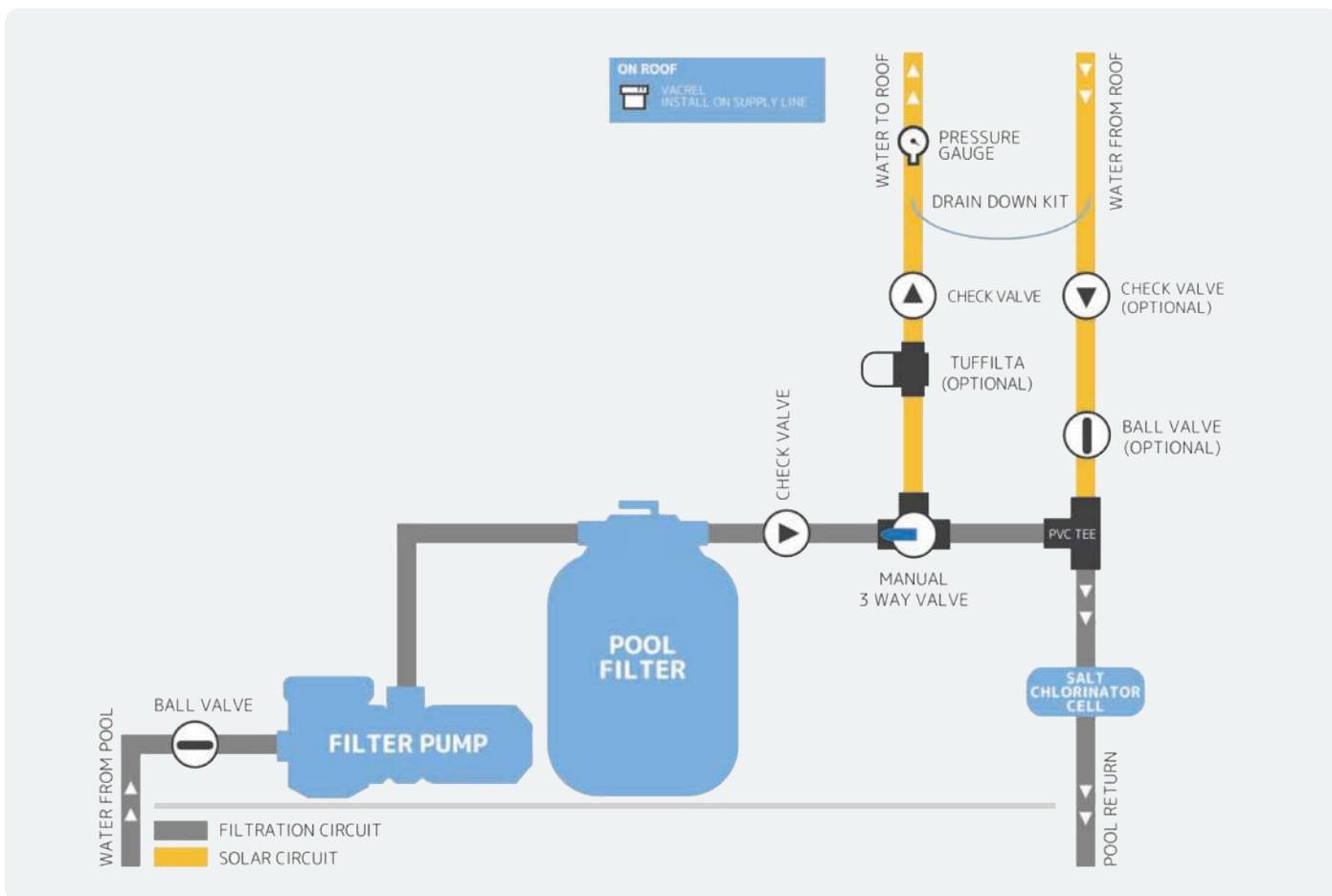
Requires

- 1 x Check Valve (aka a non-return or one-way valve)
- 1 x PVC Tee
- 1 x 3 Way Manual Valve

Plumbing the System to the Pump House

Identify and confirm the pool return line that is running from the pool filter. Switch the system off and isolate any valve/s (if possible) to minimise water loss. Identify the best position to cut into the line to install the 3 Way Manual Valve, PVC Tee and Check Valve.

Plumb as per the diagram below and ensure that all pipework is dry and clean before attempting to glue to ensure a strong bond.



For an Independent / Separate Suction System Configuration

The pool water is pumped directly from the pool to the solar collector and then back. This configuration requires solar provisions to have been pre-installed. It is simple to install and does not interrupt the filtration system, This type of plumbing allows the solar system to operate independent of the filtration system.

Requires

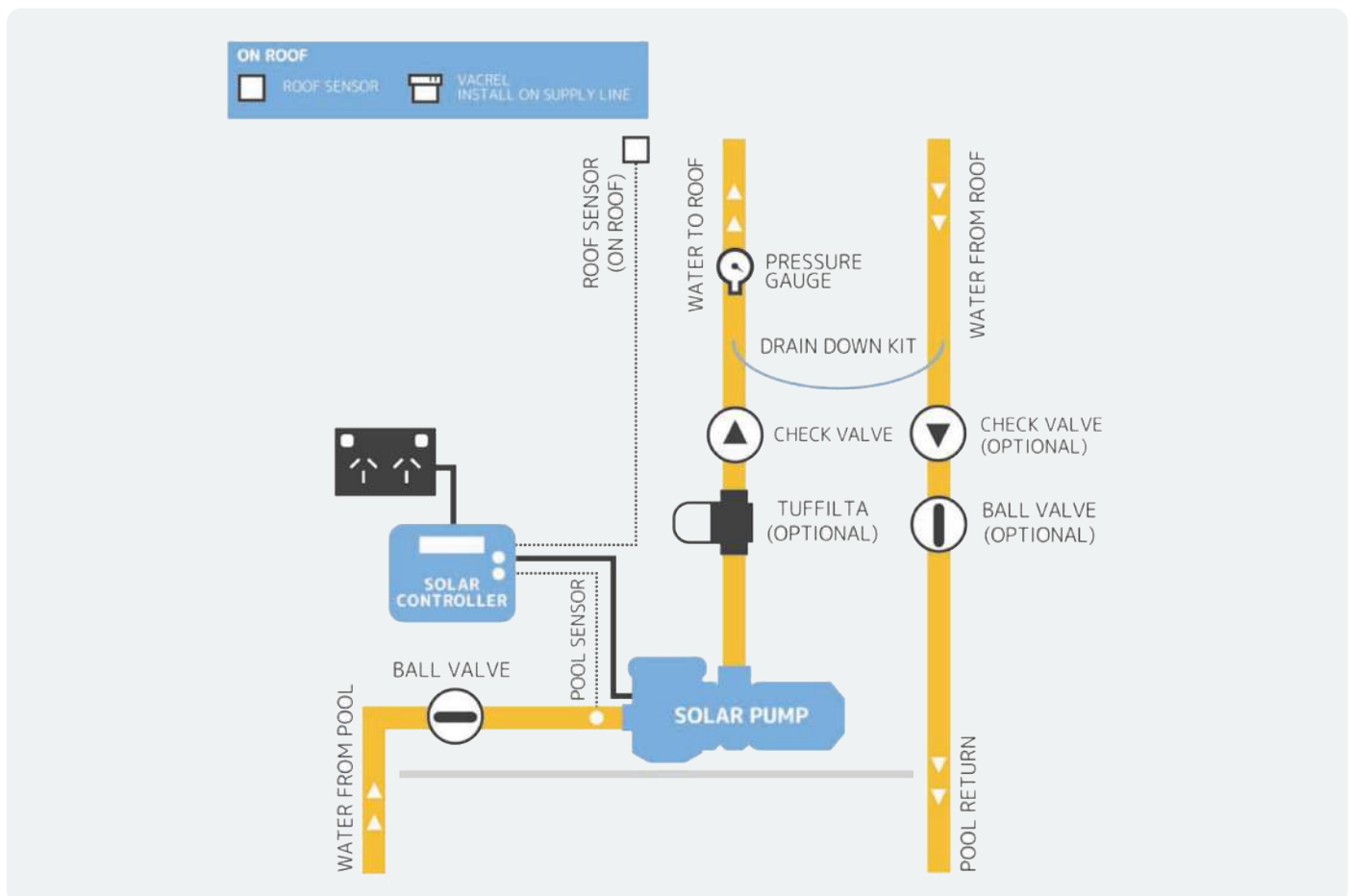
- 1 x AS2, AS2_2S digital solar controller or similar
- 1 x Check Valve (aka a non-return or one-way valve)
- 1 x Solar Pump (that can deliver 3-4 liters per minute per m2 of collector)

Plumbing the System to the Pump House

Identify and confirm the solar supply and return lines, even if they are labeled. This can be achieved by removing the caps (if there are any) and yelling down the pipes or by purging water down the line.

The suction line should join at the swimming pool to two suction joints, typically deep on the wall of the pool. The return line is typically a single return outlet, usually higher on the pool wall than the suction lines.

Plumb as per the diagram below and ensure that all pipework is dry and clean before attempting to glue to ensure a strong bond.



Plumb System to Pump House

For a Simultaneous / Integrated / Retro Fit Configuration

This system involves diverting the flow of water after the filtration system. This system is usually adopted when independent solar suction and return lines do not exist, as it is an easy way to retro fit a solar system without affecting any other part of the pools structure.

Requires

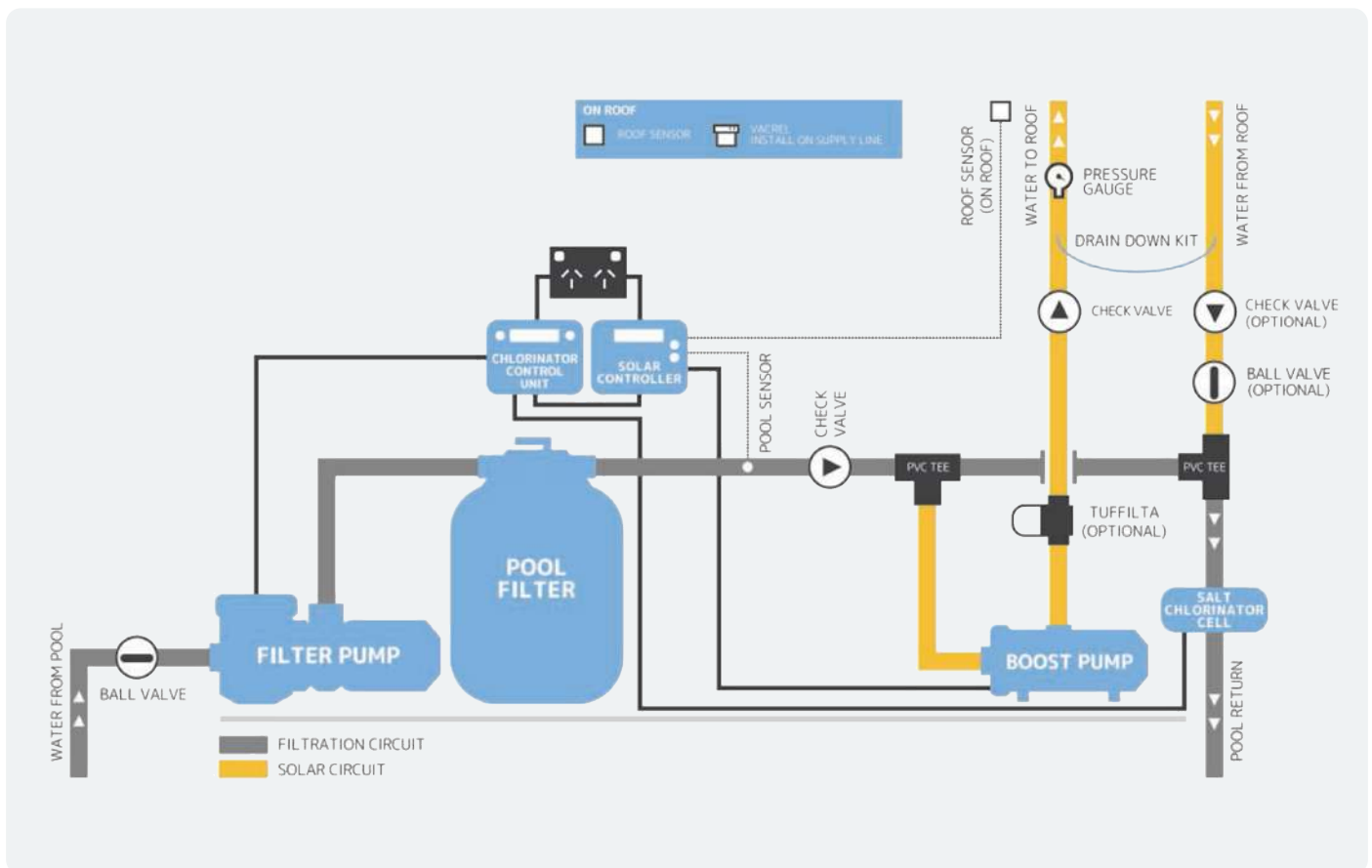
- 1 x AS2, AS2_2S digital solar controller or similar
- 1 x Check Valve (aka a non-return or one-way valve)
- 2 x PVC Tees
- 1 x Booster Pump (that can deliver 3 liters per minute per m2 of collector)

Plumbing the System to the Pump House

Identify and confirm the pool return line that is running from the pool filter. This can be determined by identifying the return line on a filters multi-port valve when using a media filter or when using a cartridge filter identifying the return port.

Switch the system off and isolate any valve/s (if possible) to minimise water loss. Identify the best position to cut into the line to install the two PVC tees, check the valve and pump.

Plumb as per the diagram below and ensure that all pipework is dry and clean before attempting to glue to ensure a strong bond.



Install Ancillary Components

VacRel Vacuum Relief Valve

The VacRel Vacuum Relief Valve should be installed on a 45° or 90° elbow. See page 7 to see where this fits depending on the chosen configuration.

Glue the VacRel into the PVC elbow using standard plumbing techniques, ensuring that the upper socket of the VacRel is as vertical as possible.

Once done, clean any excess glue so that the top can be still removed in future for maintenance.



Drain Down Pipe

The Drain Tube assist the supply pipe to slowly drain back via the return pipe when the pump is switched off.

To install, mark a location on both the supply and return pipework, approximately 1m - 1.5m above the pump level against the wall and drill 8.5mm a hole in each pipe using a drill bit.

It is highly recommended that you drill a 3mm pilot hole first, then drill the holes by running the drill in reverse to minimise the risk of pipe shatter. Alternatively you can use a blunted drill bit is also preferable and ensure you clean the drill swarf and burrs.

Lubricate and insert the rubber grommets into the drilled holes, tapered end first. Spray the newly installed grommets with silicone spray and insert the header barbs then lubricate and slide the tube over each barb.



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TufGauge Pressure Gauge

Refer to the system configuration on page 7 for the mounting location of the TufGauge Pressure Gauge. To install, drill a 8.5mm hole in the PVC supply pipe and clean the hole of any debris once drilled. Insert the tapered end of the rubber grommet into the hole.

Lubricate the brass barb and insert it into the rubber grommet, ensuring full engagement. Be sure to check and confirm that the pressure displayed is between 1 and 100kPa for bottom feed. Top feed systems must not exceed 50kPa.



TufFilta® Inline Solar Filter

Determine the best location to install the TufFilta®. This should be on the flow (cold) line of the solar pool heating system, directly after the solar/booster pump on the discharge side. For manual systems (no pump or digital controller) install the TufFilta® after the manual 3 Way Valve.

Install the TufFilta® using type N cement and primer. Ensure that you install the TufFilta® with the 'Flow' arrow pointing in the correct direction. Do NOT install the TufFilta® upside down.

Install an isolating valve (Check Valve) on the discharge side of the TufFilta®. This enables the cartridge element to be removed and replaced without drenching equipment or the person performing the task.



Acceptable Installation of the TufFilta®

It is preferable that the TufFilta® is installed on the discharge side of the solar pump as per Figure: 18 below. Figure: 19 is an acceptable install method on its side, however Figure: 18 is the preferred installation of the TufFilta®. Ensure that you do NOT install the TufFilta® up side down. (See Figure: 20)



Figure: 18



Figure: 19



Figure: 20

- ! Before switching the system on, please allow 24 hours for all adhesives to set properly as some areas need ample time to dry and set. Ensure the Pump is also primed before switching it on (or opening the valve if you have a manual system)

Running the System

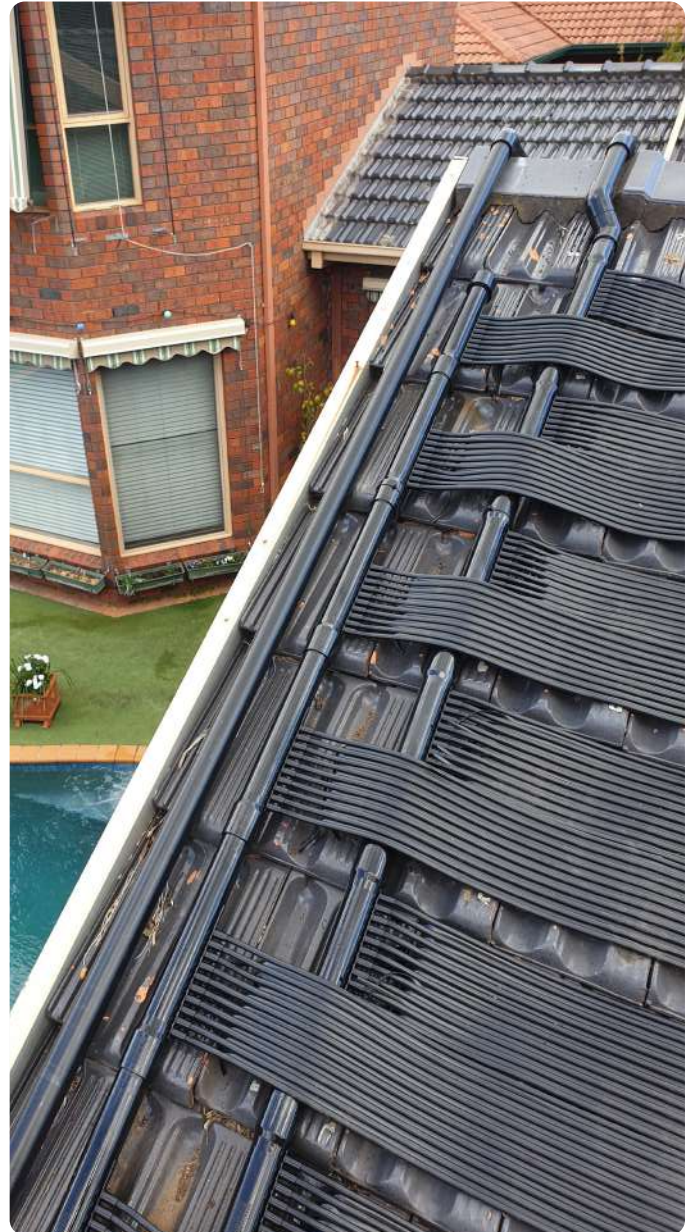
As you start the system you will notice some air bubbles in the pool return outlets. This is all normal and will clear after several minutes of the system running.

Note: This will occur each time the system starts.

Surveying the Entire System

As the system is running ensure that you survey the entire system by checking the following:







- All fittings and fixtures are primed and cemented properly
- All valves are installed correctly and are in the right positions
- The system is properly secured to the roof
- Screws and bolts are secure, and penetrations sealed
- All pipework has been properly secured and supported
- All collectors have been secured to the top and bottom with Barb Locks
- Check for leaks and/or weeps
- The system automatically drains or is installed with manual drain valves
- Drain Down Kit is installed
- The Automatic Controller (if installed) has been switched on with no fault codes
- Pump is primed
- System pressure is within recommended guidelines



- ! If you come across any issues not mentioned or mentioned above please check the 'Troubleshooting Guide' on page 23 to help diagnose / fix any issues you may encounter

Troubleshooting Guide

ISSUE	CAUSE/S	SOLUTION/S
<p>Air bubbles are constantly appearing in the pool returns</p> <p><i>Note: Air bubbles appearing for a few minutes upon start-up and shutdown is normal</i></p>	<p>Air is entering through a leak on the supply side of the pump</p>	<p>Check that the pumps filter basket lid is on tight. Clean, lubricate or replace the O-ring on filter basket if required.</p> <p>Look inside the pumps lid for air bubbles appear. If present, run water over the lid and joints and see if the bubbles stop. If they do, locate, mark and fix the leak/s. If the pump doesn't have a clear lid – repeat the above process listening for a smoother operating sound.</p> <p>If the pool is using a suction type pool cleaner, try removing it. If the bubbles stop only use the cleaner while the system is turned "OFF"</p>
	<p>There is a leak somewhere in the system</p>	<p>Check the entire system for leaks, paying special attention to the glue joints, valves, and rubber couplings. Locate, mark, and fix any leaks.</p>
	<p>Air is entering through the Vacuum Relief Valve</p>	<p>There is insufficient water pressure in the system. This results in the valve failing to close, and air being drawn into the system. Remedy the issue by cleaning and backwashing the filter to reduce pressure. If this fails, consider installing a Ball Valve on the return line to produce slightly more back pressure on the system.</p>
<p>There is a leak from the barbs during pressure testing</p>	<p>There is debris on the seal/s</p>	<p>Mark which collector is leaking and switch the pump off. Using a long, flat tipped screwdriver, carefully remove the barb lock and pull the collector out of the Header Pipe. Inspect to ensure all seals are in place, intact and clean. Replace if required. Once complete, lubricate and reinsert the collector and barb.</p>
<p>The water coming from the return outlets of the pool is not as warm as expected</p>	<p>The water flow is too fast</p>	<p>Install a flow restricting valve along the return line to slow the flow of water through the system. This will allow more time for the water to circulate and heat up. Use a little common sense and do not fully shut the valve.</p>
	<p>The pump is oversized</p>	<p>The pump may be too large for the system. Australian Standards specifies that a pump should deliver 1.8-4.8 lpm per m2 of collector (AS3634 8.1a). Size up for double story homes or if significant flow restrictions exist. Check the calculations and consider installing a smaller pump.</p>
	<p>The system is undersized or incorrectly positioned</p>	<p>Check your calculations to ensure you have installed the right amount of solar collector for your pool. Ensure that the roof is not south facing or heavily shaded. Consider installing a larger solar system.</p>
	<p>Seasonal / Cooler Day</p>	<p>It is also important to note that the pool water will not increase in temperature as much during the cooler months of the year, or on cool, windy or particularly cloudy days. This is due to normal seasonal operation changes and cannot be helped.</p>
<p>There is a small leak in the tube/s</p>	<p>Accidental Damage</p>	<p>Purchase a '10T or 50T Solar Repair / Trim Kit' (you may also wish to purchase a TufTool Rigid Collar Tool for ease of installation). Mark the position of the leak. Shut off the pump. Cut a 3mm section around the leaking tube (do not damage the other tubes). Using your pointy nosed pliers strip out the connecting webs on either side of the leak by approximately 100mm. Slide a Collar on each side of the tube, making sure the shoulder is facing the cut end. Spray some silicone down into the tubes and onto the barb. Insert the barb into each tube, leaving a 2-3mm gap from the end (If you push it too far the collars will be difficult to install). Using your fingers, slide the collars on as far as you can. Then use the TufTool to ensure full engagement.</p>
	<p>Manufacturing Defect</p>	<p>Please take images and/or videos clearly showing the issue and send them through your local store along with proof of purchase.</p>

SERVICE AND MAINTENANCE SCHEDULE	MONTHLY	QUARTERLY	ANNUALLY
<p>TufFilta® / Strainer</p> <p>Depending upon your pool usage and level of debris, the TufFilta® / Strainer will need to be checked and cleaned regularly.</p>			
<p>Check the System</p> <p>Check the system for leaks on a regular basis throughout the season as leaks can corrode metal roofs and gutters, if left unchecked. Leaks should be repaired as soon as possible.</p>			
<p>Vacuum Release Valve</p> <p>The vacuum release valve is a critical system component. It should be checked that it is functioning correctly and that collectors drain fully when the pump stops. The collectors and/or piping should never appear collapsed (concave) by negative pressure.</p>			
<p>Plumbing Degradation</p> <p>Plumbing should be checked for signs of UV and/or chemical damage. Replace as needed.</p>			
<p>Debris Accumulation</p> <p>Check that there is no build-up of debris around pipe work or collectors, and that rainwater has a clear path to run down.</p>			
<p>Wintering System</p> <p>You may need to prepare your system for winter dormancy each year.</p>			



Servicing and maintaining the system is essential for its health and longevity. The following table displays a service and maintenance schedule that is recommended to be followed by the home owner.



All of our Boss Kits do NOT include PVC pressure pipe, solvent, or primer due to transportation and handling issues. You can find these items readily available from most hardware outlets and stores.

Ready To Go Solar Warranty

Warranty Effective as of June 2024

Boss warrants that, if a Boss product(s) proves to exhibit a manufacturing defect detrimental to the operation of the solar system during the warranty period, the defective component(s) will be repaired or supplied free of component charge, at the discretion of Boss. This product warranty is limited to manufacturing defects of Boss only supplied products. Claims resulting from incorrect or poor installation are not covered by this warranty.

Subject to Boss Solars Terms and Conditions and the exclusions outlined below, the following warranties apply:

Ready To Go Solar Collector Warranty

The Collector is covered by a 10-year warranty. This warranty covers faulty collector replacement, provided the General Conditions and Exclusions outlined below are met.

Ready To Go Solar Ancillary Products Warranty

The system components are covered by the following warranties:

- Manifold, Barb Lock and Manifold Mount: 5 years
- Boss Ancillary Products: 1 year

This warranty covers faulty product replacement, provided the General Conditions and Exclusions outlined below are met.

General Conditions

1. This warranty period applies strictly from date of invoice.
2. This warranty is not transferable.
3. This warranty covers labour, freight and/or associated costs with warranty claims for a period of 3 years from date of invoice.
4. It is a condition of this warranty that the system be inspected annually, any faults must be reported to Boss Solar within 14 days from inspection date.
5. The system must be installed in strict accordance with Boss Installation Manual. Any variations of

installation works to the manual will void and null warranty.

6. Any labour, travel, freight, or other costs incurred after the first 3 years of warranty period are excluded from this warranty and are to be paid by the Original Purchaser.
7. Annual inspection by an experienced, competent installer are highly recommended.

Exclusions of this Warranty

The warranty will not apply where:

1. The system has been used for a function for which it was not designed. This warranty is limited to systems used for the purpose of swimming pools and spa pools heating.
2. Boss cannot establish any fault in the product after inspection and testing. In this case Boss reserves the right to charge the Purchaser, at Boss current hourly rate, for the cost of examining the Product.
3. The product failure or damage is due to Acts of God or extreme weather conditions.
4. Defective parts or accessories (not manufactured or supplied by Boss) have been used on, or in relation to the product which may have contributed to the failure.
5. The product has been damaged by a cause outside the reasonable control of Boss. Including, but not limited to; damage caused by householders, tradespeople, birds, rodents, vermin, neglect and/or mechanical damage to the system.
6. The defect in the product has arisen due to poor water flow, excessive hydraulic pressure, restrictions or blockages resulting from the omission of a suitable water straining device.
7. The system in which the product is used, or any part of the system has been repaired, altered or modified by any person, such that it no longer complies with the applicable Boss installation guidelines or manual(s).
8. Splitting or crushing of Thermoplastic, PVC Nitrile and ancillary products due to insufficient vacuum relief.

9. Non-adherence of strip collector to roof surfaces.
10. Damage to metal roofs, gutters or drinking water storages caused by water leakages from the solar system. Other consequential damage caused by chemically treated water flowing through or from the solar system, or from rainwater ingress caused by blocked gutters or obstructed watercourses are also not covered. It is the customers' responsibility to keep the roof and waterways clear of debris, which may cause the restriction of natural water flow.
11. Non-Boss manufactured components such as Pumps, Digital Controllers etc will be subject to their original manufacturers warranty.

Limitation

Boss makes no express warranties or representations other than set out in this warranty. Boss Polymer Technology (trading as Boss Pool Heating) liability under this express warranty is limited to the credit of the original purchase price of the Boss product only, or replacement of the Boss product to the original purchaser, at the discretion of Boss. This warranty shall be governed by, and construed in accordance with, the mandatory laws of the State of Victoria, Australia. Regardless of the laws that might otherwise govern under applicable principles of conflicts of laws thereof.

Definitions

Product/s: The originally installed solar pool heating system comprising of Boss components and possibly other manufactures components.

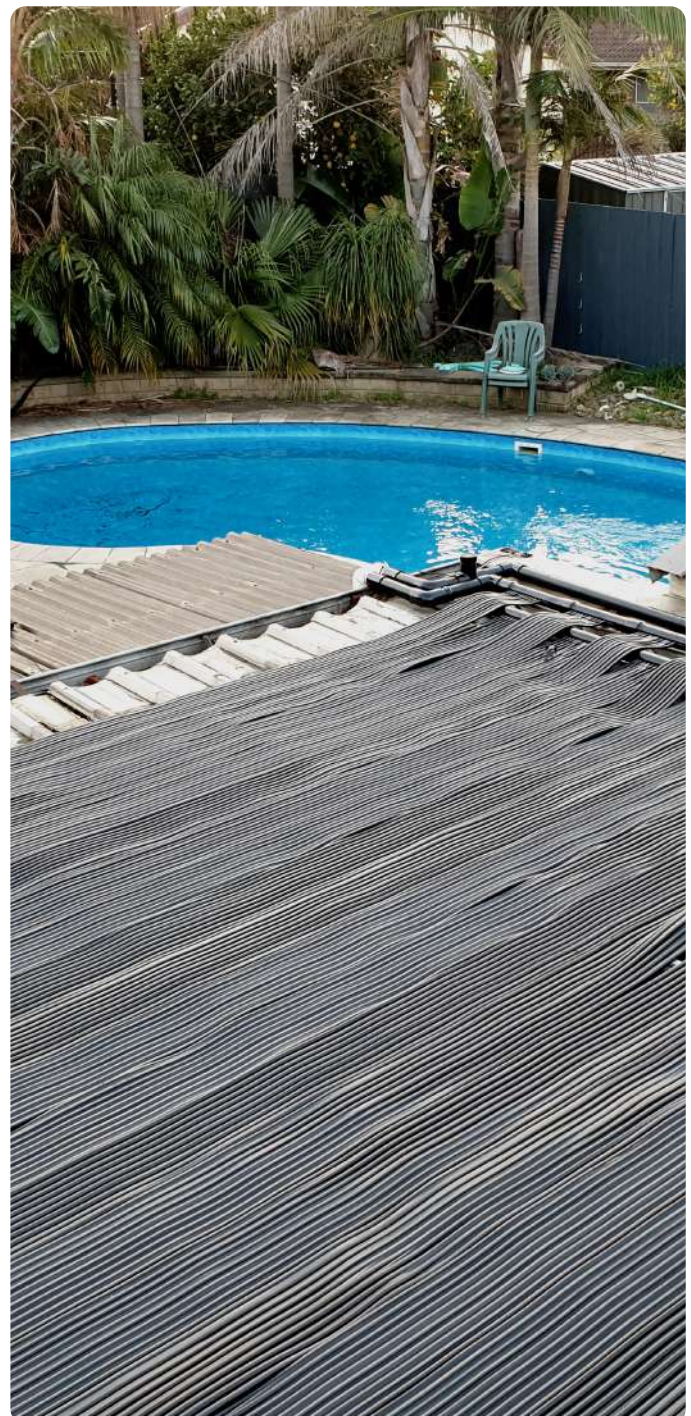
System: The originally installed solar pool heating system comprising of original Boss components and possibly other manufactures components.

Purchaser / Installer: The original Solar Pool Heating Company "SPHC" or person(s), acquiring the product directly, or indirectly from Boss.

Customer: The purchaser of the original solar installation.

Contact

For instructions in relation to the claim process please contact Boss Polymer Technologies group by phone on +61 3 9561 2777 or by email at sales@bossolar.com.au. For further information you can also visit our website at bosspoolheating.com.au



Watch the Installation Video



Australian Made Solar Pool Heating

MANUFACTURED BY:



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www.bosspoolheating.com.au
1300 786 489

