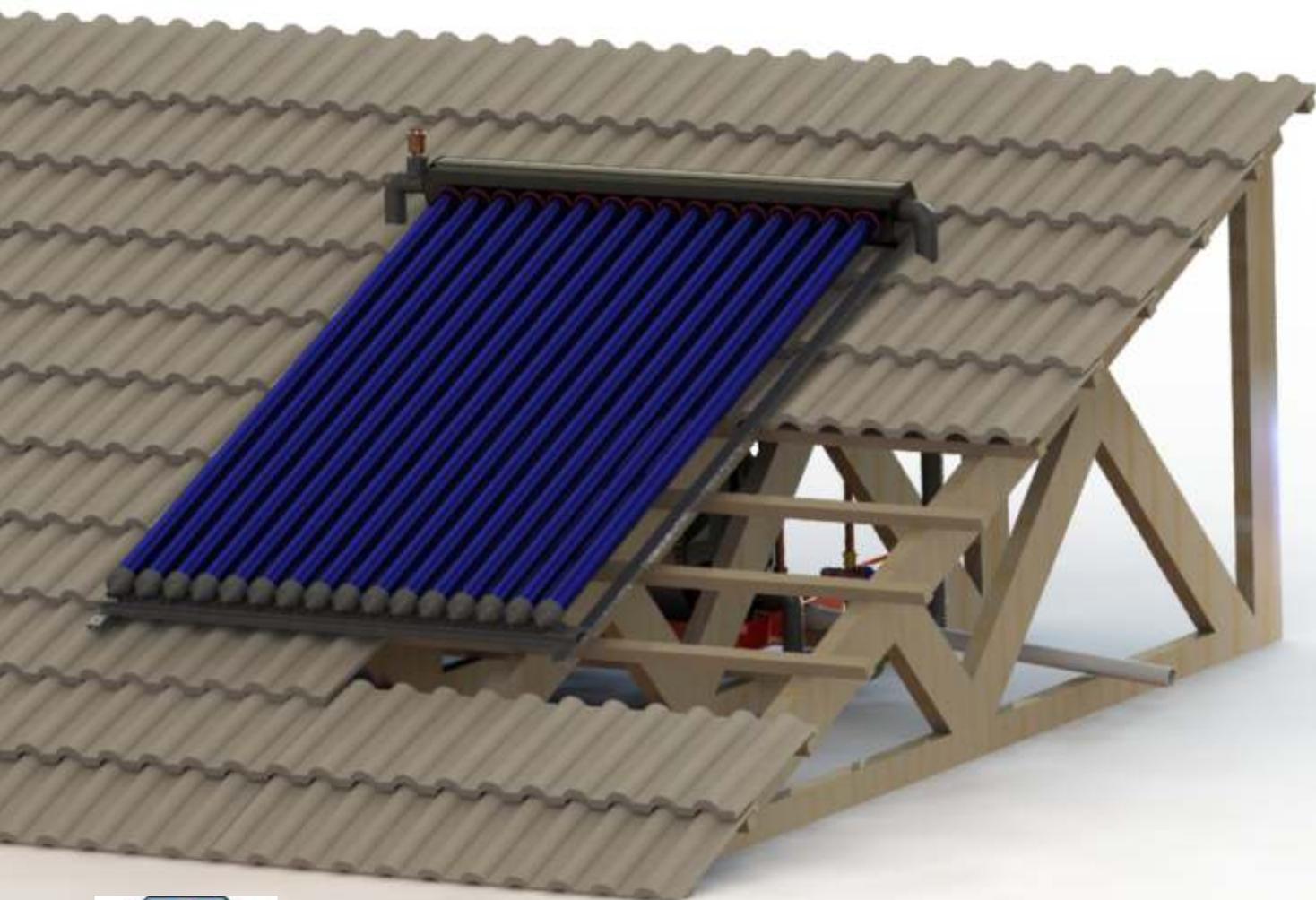




INSTALLATION MANUAL

INSTALLATION MANUAL PUMPED - DIRECT EVT type direct active system





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Components:

- 1 x E-Series Collector (Kit Dependant)
- 1 x Mounting Kit
- 1 x Pump
- 1 x Geyser wise Max (Differential Controller)



MANUFACTURING THE FUTURE

INSTALLATION MANUAL - EVT PUMPED DIRECT

Thermal Properties:

PZ-E16 Solar Collector - 5.20 Kw/m²/Day

PZ-E20 Solar Collector - 6.11 Kw/m²/Day

Technical Specifications:

System Specifications							
No.:	System:	Collector:	Geyser:	Volume:	Circulation Type:	Transfer Type:	Freeze Resistance:
2.	GSS002P	PZ-E16	GAP	150Lt	Pumped	Direct	YES
3.	GSS003P	PZ-E20	GAP	200Lt	Pumped	Direct	YES



PZ-E 1 6

PZ-E 2 0

Product code:	SAP	GS007	SAP	GS008
System Application:	Sys	Pumped & Thermosiphon	Sys	Pumped & Thermosiphon
Aperture area:	m ²	1.588 (16 x 58mm x 1720mm)	m ²	1.98 (20 x 58mm x 1720mm)
Total collector size: (outer frame)	m ²	3.06	m ²	3.47
Pipe connections:	mm	22mm copper	mm	22mm copper
Number of Ports:	No.	2	No.	2
Freeze Protection:	NO	Yes	NO	Yes
Dimensions: (D x W x H)	mm	2000 x 1530 x 150	mm	2000 x 1735 x 150
Working pressure:	kpa	400	kpa	400
Glazing: (tempered / toughened)	mm	4 (Low Iron Toughened)	mm	4 (Low Iron Toughened)
Insulation materials:	type	Mineral Wool	type	Mineral Wool
Frame materials:	type	Extruded Aluminium	type	Extruded Aluminium
Absorber coating:	type	Specially formulated triple laired Coating	type	Specially formulated triple laired Coating
Number of tubes:	Qty	16	Qty	20
Glass thickness:	Qty	2.3mm (+/- 0.1mm)	Qty	2.3mm (+/- 0.1mm)
Installation footprint: (D x W)	mm	2000 x 1530	mm	2000 x 1735
Internal volume:	L	1.242	L	1.55
Dry weight:	Kg	45.7	Kg	53.3
Filled weight:	Kg	47	Kg	43.9
Packaged dimensions: (D x W x H)	mm	320x280x1930 + 1500x140x140 + 2000x50x50	mm	2x 320x280x1930 + 1750x140x140 + 2000x50x50
Recommended standard capacity:	L	150 (Geyser)	L	200 (Geyser)
SABS Q-factor:	MJ	Pending	MJ	Pending
Total & Use full Energy:	KW	5.20 Kw m ² /Day	KW	6.11 Kw m ² /Day

Freeze Resistance:

The GAP EVT pumped direct systems rely on a combination of insulation and silicone inserts to reduce the chance of freezing and are rated as freeze resistant. Please follow the instructions for maintenance to maintain performance and freeze protection.

Hail Resistance:

The GAP EVT type solar collector has been tested by the SABS and are rated as being Hail Resistant. Please note the EVT collector is not hail proof.

Before You Begin

Site Assessment:

1. Check condition of roof structure.

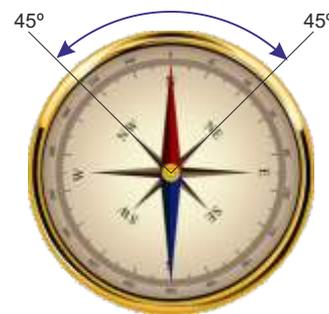
- 1.1 Is the roof strong enough. (Do not Install if in doubt.)
 - 1.1.1 Bare in mind the average 150L Thermosiphon System will weigh about 250Kg.
- 1.2 We recommend consulting a Structural Engineer before beginning.
- 1.2 What type of roof (Tile, Corrugated, Flat.)(Appendex A)
- 1.3 Is there any existing damage. **NB.: If yes, you must point this out to the client before you begin.** (it is advisable to photograph the damage)

3. Inclination:

- 3.1 The Solar collector should ideally be installed with an inclination of 36° (Gauteng), or as close as possible. (Inclination = Latitude + 10°)(Eg.: Gauteng = Latitude 26° + 10° = 36°)
- 3.2 For Tile roof types of 25° or more we recommend using the inclined roof stand.
- 3.3 For roof types with less than 20° we recommend using a flat roof stand.
- 3.4 For roof types with more than 36° we recommend installing the geyser inside the roof area with the collector on the roof below the geyser.

4. Direction:

- 4.1 The Solar collector should face North, but can be pointed up to 45° east or west from north is acceptable. Ideally the collector should face north with a slight bias towards the West. (this is so we can collect more Sun in the afternoon)
- 4.2 Is there a side of the roof structure that will be acceptable.



5. Once you have decided on the location, it is advisable that you erect the unit in place **without** securing. Once you have done this, ask the client if they are satisfied with the location.

6. Safety Precautions:

- 6.1 Ensure that the Electrical supply to the Geyser is switched off.
- 6.2 Ensure that there is sufficient light to be able to clearly see what you are doing.
- 6.3 Check condition of the roof thoroughly before attempting any installation.
- 6.4 Ensure all Ladders or other forms of rigging are well secured.
- 6.5 Be careful of spills, surfaces may become slippery.
- 6.6 Wear appropriate clothing for the conditions.
- 6.7 Ensure all Plumbing and Electrical connections are well secured before continuing to the next operation.

Note: Please Ensure the Geyser Installation complies with SANS 10254 Regulations.

Once the location has been decided and approved by the client, you may begin.

Appendix 1. How to Secure to the Roof (Types)

1.1. **Tile.**

- With a tiled roof it will be more difficult to drill the holes for the tubing.
- Drill a small hole (10mm) then enlarge it to the size you require.
- Do not use the hammer function on your drill.
- Securely fix the mounting system to the branding.
- When you arrive on site ask if the client has spare tiles, incase you break any while you are working on the roof.

1.2. **Corrugated Iron.**

- Corrugated iron is the easiest roof to work on, look out for rust or weak areas.
- Drill holes with a hole saw.
- To secure, use nuts & bolts.

1.3. **Slate.**

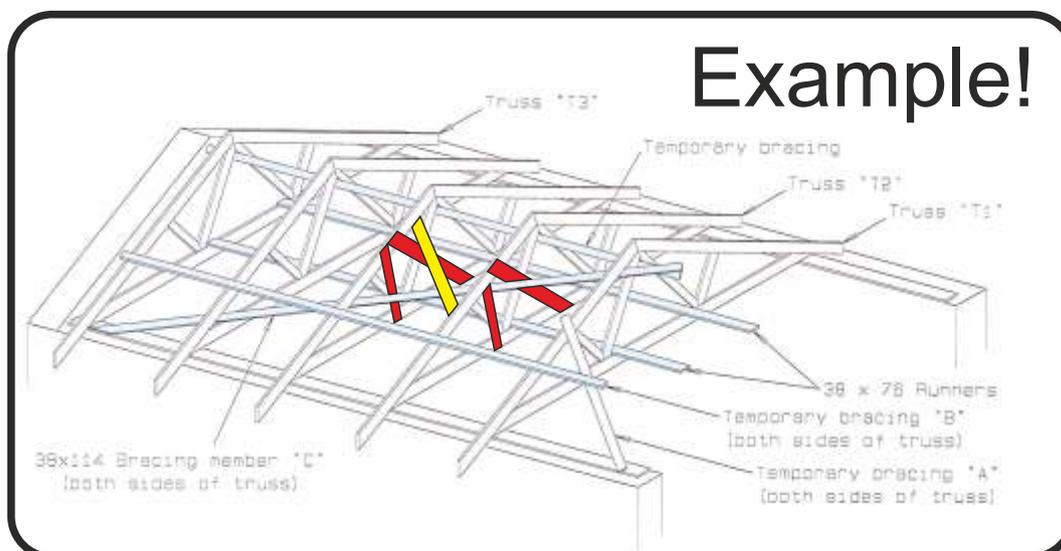
- With a Slate roof it is even more difficult to drill the holes for the tubing.
- Drill a small hole (10mm) then enlarge it to the size you require.
- Do not use the hammer function on your drill.
- Securely fix the mounting system to the branding.
- When you arrive on site, ask if the client has spare Slate tiles, incase you break any while you are working on the roof.

1.4. **Flat Roof.**

- A frame for the collector will be required to raise the Solar Collector to the correct inclination.
- Make sure nothing punctures the water proofing on the roof while you are working.
- The frame will need to be secured to the side of a wall or parapit.
- All tubing will need to be run to the side of the building, NOT through the roof

1.5. **Thatch.**

- **NO GO!!**. You cannot install on thatch. Thatch needs to breathe, so anything directly on the thatch will cause rotting.
- You cannot float the Collector above the roof, any holes you make for the tubing or reinforcement will leak.
- The only way to do this is to mount the system on a wall on the side of the building, or on the ground.



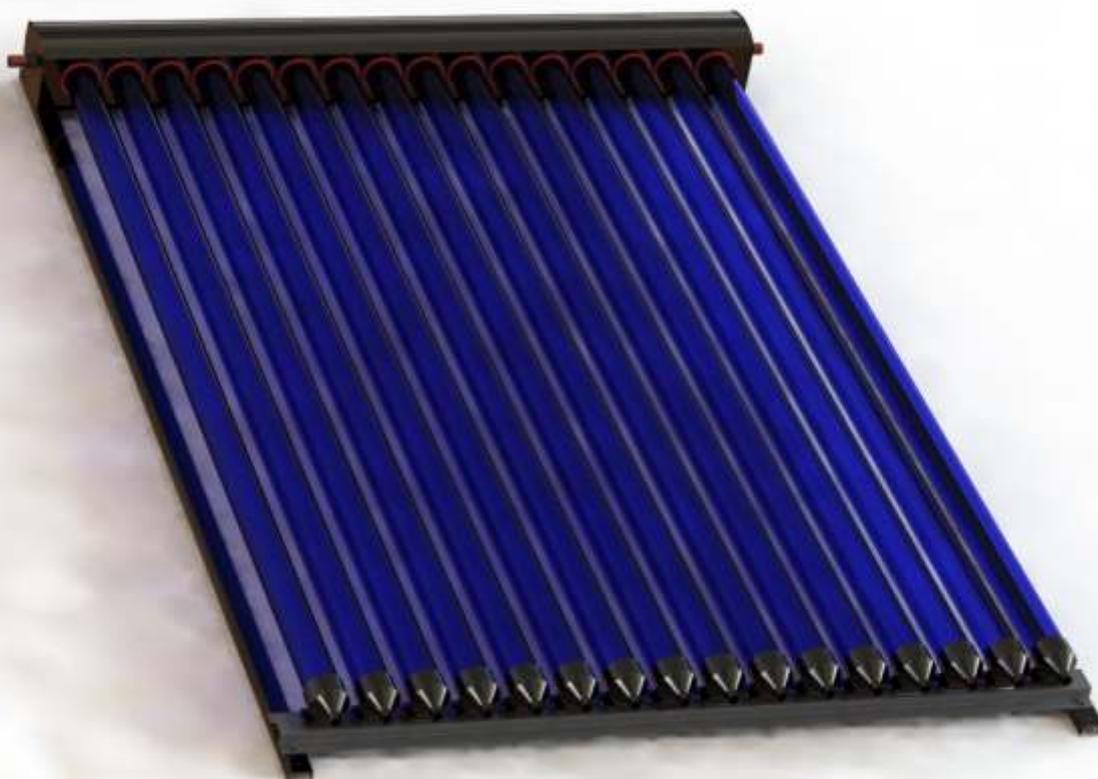
Securing to the Roof.

1. Make sure the frame is situated across at least two roof trusses.
2. Follow the manufacturers instructions related to the specific system.
3. Ensure strengthening is added to the trusses carrying the weight. See example above.

Appendix 3.

ASSEMBLY MANUAL ECO-EVT TYPE SOLAR COLLECTOR

Revision 1 - 28/04/2016

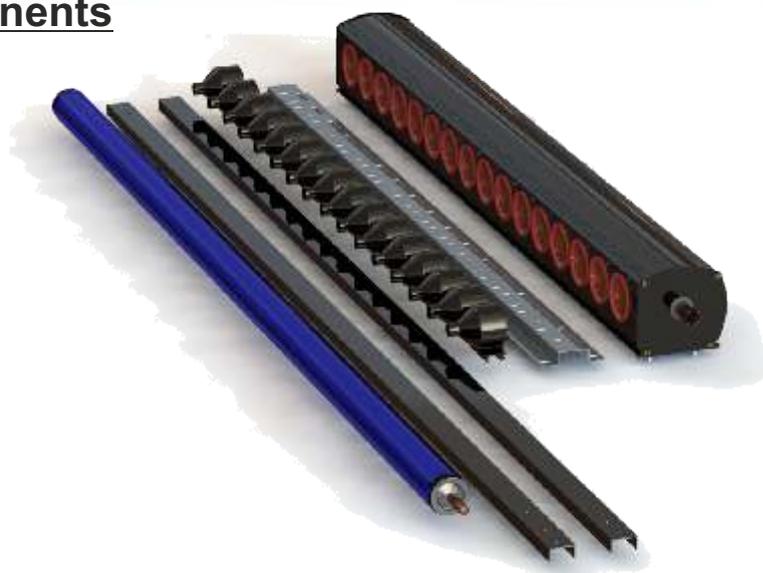


Components

- 1 x Manifold.(1.)
- No x EVT Cups (product dependant). (2.)
- 2 x Frame Side Rails. (3.)
- 1 x Frame Bottom Rail.(4.)
- No x Box of EVT Tubes (product dependant)(5.)
- 4 x M6x15 Bolt
- 8 x M5 nut
- 1 x Thermal Transfer Paste

Optional:

- 1x Flat Roof Stand

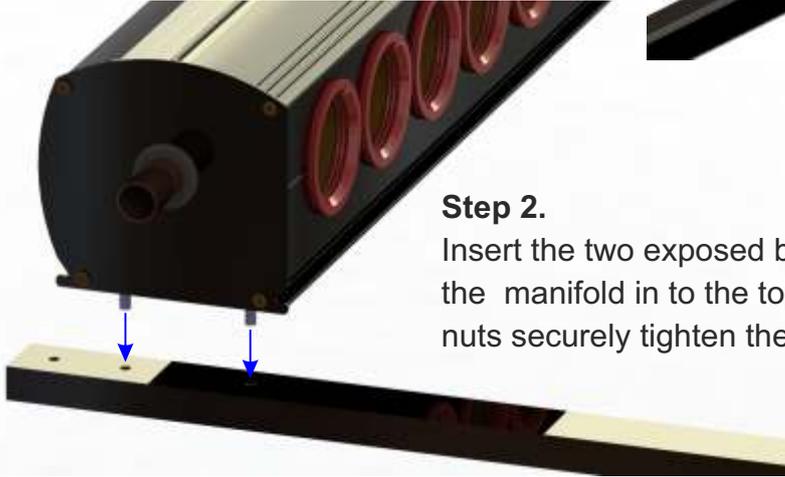
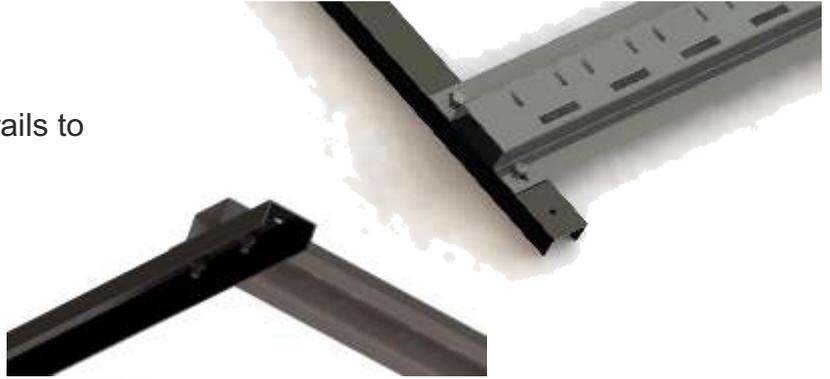


Instructions for the Safe and Correct Assembly of the Powerz-On E-Series Solar Collector

Assembly Process

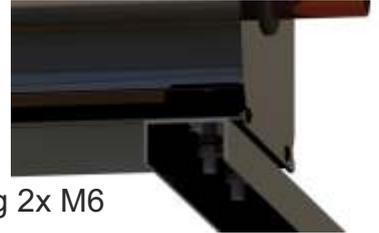
Step 1.

Using 4x M6 Bolts & Nuts connect the side rails to the bottom rail. (as shown)
Bolts should be inserted from the top.



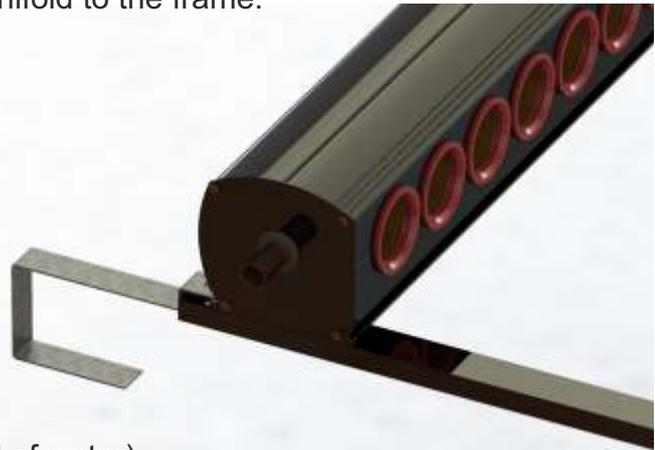
Step 2.

Insert the two exposed bolts located under the manifold in to the top of the frame. Using 2x M6 nuts securely tighten the manifold to the frame.



Step 3.

Using 4x M6 Bolts & Nuts and 4x pieces of hoop-iron (not supplied) secure the collector to the roof in the correct place following the correct procedure.



NB.: do not install the Evacuated tubes until all the pipe work is complete and the system is charged (Full of water)

Step 4.

NB.: Only take one EVT out of the box at a time, the probe heats up very fast.

Extend the copper probe about 30cm out of the glass tube, and apply enough thermal transfer paste to cover the copper probe.



Insert the probe into the manifold as far as it will go.
Now push the EVT as far as possibly into the manifold.



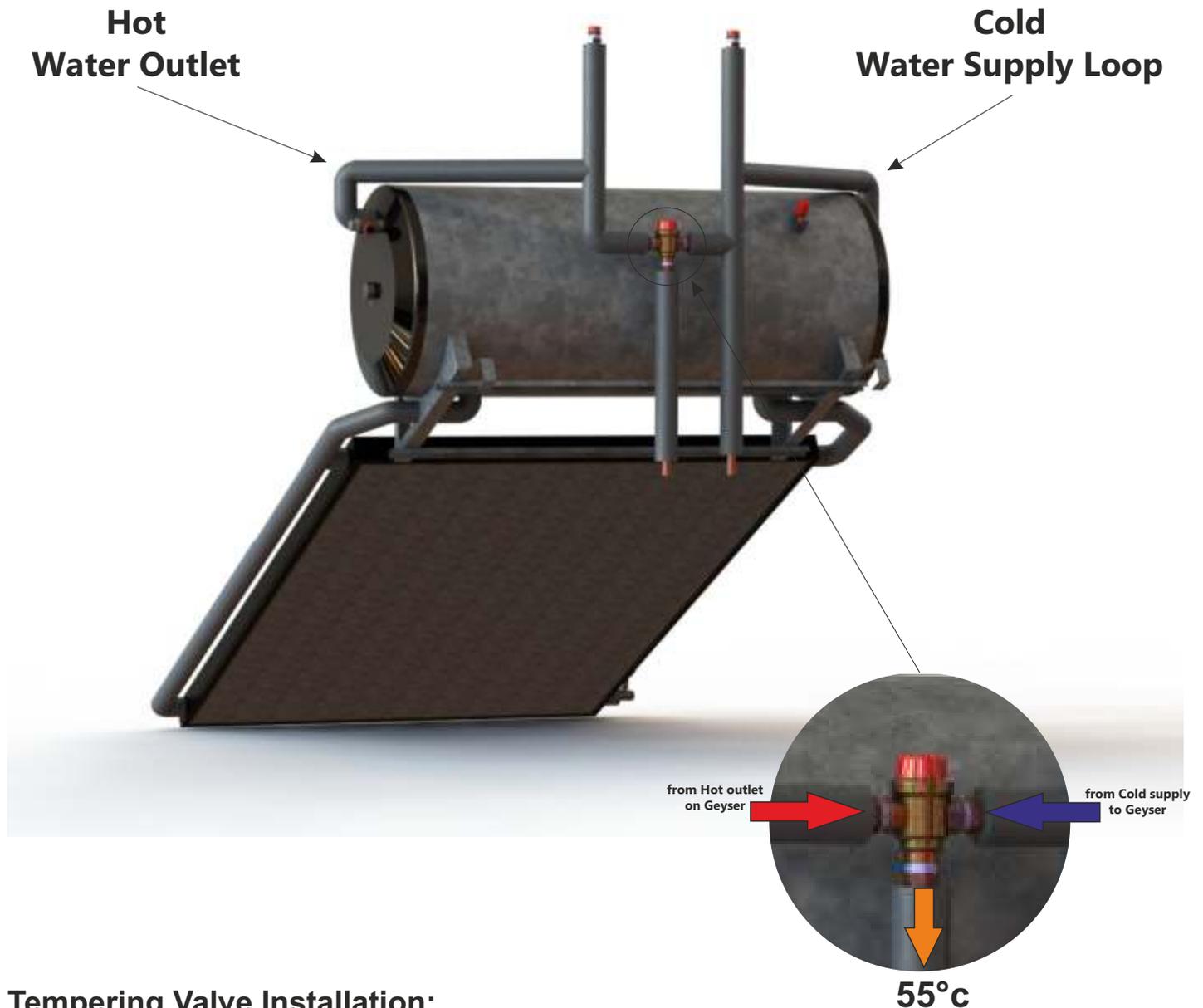
Step 5.

Place the cup onto the end of the EVT tubes and clip it into place. at a time, the Probe heats up very fast.

Repeat the process until all Tubes are in place and secure.

Appendix 4

Tempering Valve



Tempering Valve Installation:

1. A Tempering valve is required for all Thermosiphon systems.
2. A tempering valve reduces the temperature of the hot water in the piping to a safe temperature of 55°C.

Installation:

- a. Connect a pipe from the Cold water supply to the cold water side of the valve.
- b. Connect a pipe from the Hot water out let to the hot side of the valve.
- c. Complete the piping for the bottom (outlet) of the valve to the piping for the hot taps.

NB.: some Tempering valves can be set to different temperature we recommend keeping the valve set to 55°C.

Installation Procedure

1. Preparation: where applicable

1.1 Turn off the Electricity to the Geyser at the DB board and at the switch by the geyser

NB: Test with a multimeter before you work on the Electrical supply.

1.2 Turn off the cold water feed to the Geyser.

1.3 Drain the Geyser.

a: Open the drain-cock

b: Open the closest hot water tap to the Geyser.

c: Remove one Vacuum Break valve.

2. Decommissioning & Removing the existing Geyser: where applicable

2.1. Ensure that all copper tubing has been removed from the existing geyser and sealed properly. (This will prevent any potential leaks)

2.2 Remove all Electrical connections from the existing Geyser and from the breaker switch in the roof. (You will want to replace this wiring with new wiring to the new Geyser)

2.3 Once All Connections to the Geyser have been removed, and it is completely empty you will be able to remove the old Geyser.

2.4 You will need to open the roof for this action. Be careful not to cause any damage during this action.

2.5 Once the old Geyser has been removed, you will be able to begin the New Solar Geyser installation.

2.6 We recommend you place the new Geyser as close to the location of the old geyser as possible, taking shade, inclination and orientation into account. This will make the installation process faster.

Note: see "Before you begin".

Decommissioning Complete.

3. Installing & Securing the Solar Collector:

NB.: DO NOT INSTALL THE TUBES AT THIS STAGE

3.1. **ASSEMBLE** the Powerz-On Solar Collector. (Refer to Appendix 3)

2.3 **SECURE** the collector to the roof (Refer to Appendix 1)

Note: Using a spirit level make sure the collector is level.



2.4. **Pipe work for Collector.** Drill two holes in the roof for the Send & Return 22mm Copper tubing & one 6mm hole for the sensor wire.

a: **Send** = Left of manifold (Cold water feed) (Use 22mm Conex 90° elbow fitting)

b: **Return** = Right of manifold (Hot water return) (Use 22mm Conex 90° elbow fitting)

c: **Sensor** = Right of manifold

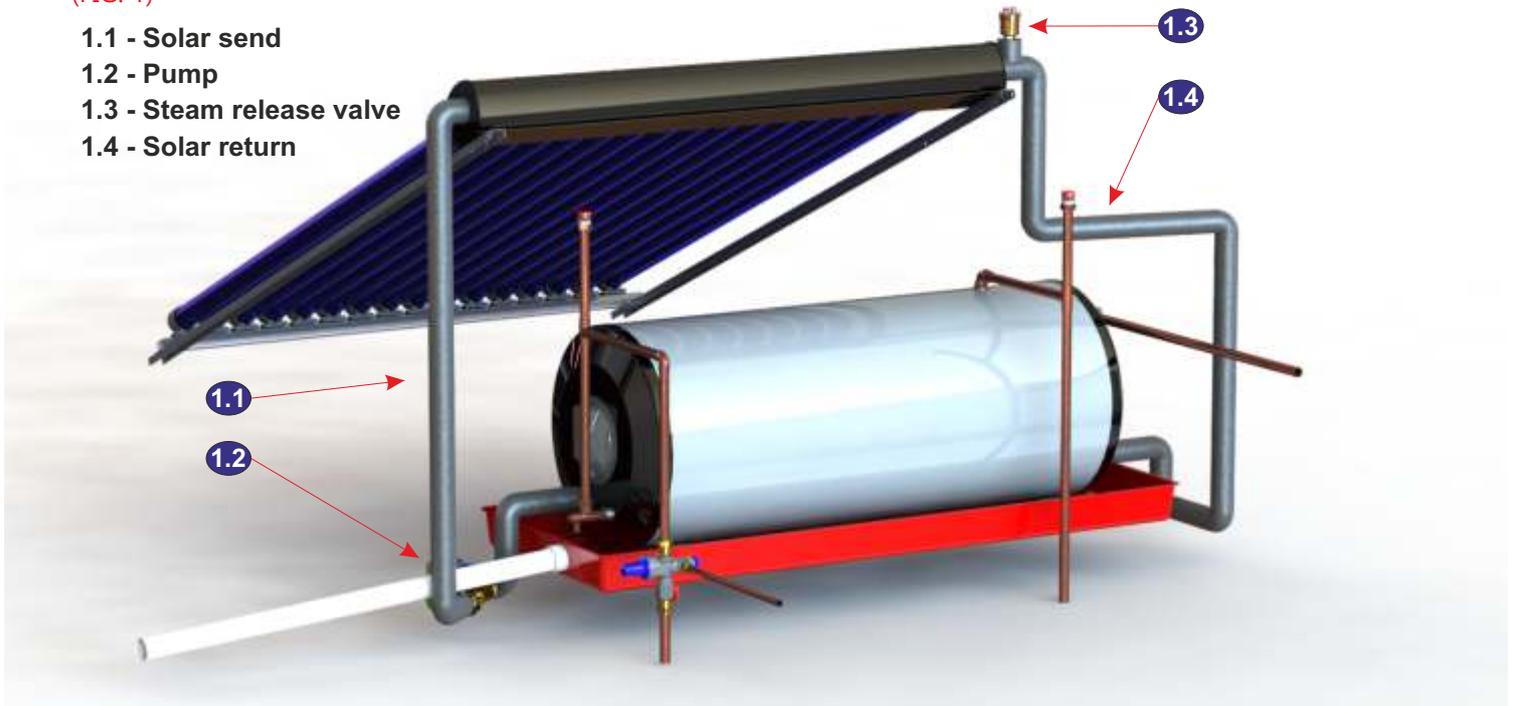
d. Place a piece of 22mm copper tubing in the holes, so you can see it from inside.

NB.: Once the Piping is connected through the Roof, waterproof all the holes thoroughly.

Connection Diagram for 150 & 200 Lt. Geysers (Single Collector)

(FIG. 1)

- 1.1 - Solar send
- 1.2 - Pump
- 1.3 - Steam release valve
- 1.4 - Solar return



Pipe Work Connections

4. Cold Water Supply - Send Side: (Fig.2)

- 4.1 Using a male to conex connection connect a piece of 22mm copper tubing to the solar send port located near the electrical connection on the geyser.
- 4.2 Add an anti-syphon loop to the piping that connects to the send side of the collector.
- 4.3 We recommend installing the pump in the anti-syphon loop (the lowest point of the piping).

NB.: Lagge all piping before you secure any fittings.

4.4 The Pump: (NB.: the pump must never be run with out water) (Fig.3)

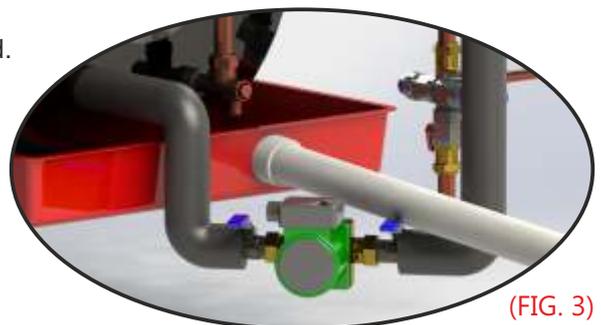
- 4.4.1 Must be placed in a horizontal position, with the flow arrow facing away from the Geyser.
- 4.4.2 The pump must be placed on its side. (This ensures the pump will be full of water)
- 4.4.3 Connect the wiring to the pump before the pump is installed. (Allow sufficient 2 core flex to run to the Controller)
- 4.4.4 Add a ball valve before and after the pump to allow for future servicing.
- 4.4.5 12 v pumps are polarity sensitive, make sure you connect the power correctly

4.5 Complete the 22mm copper tubing to the bottom of the Powerz-On Solar Collector (Remember the Lagging)

NB.: 15mm Copper tubing can be used on the solar loop if required.



(FIG. 2)



(FIG. 3)

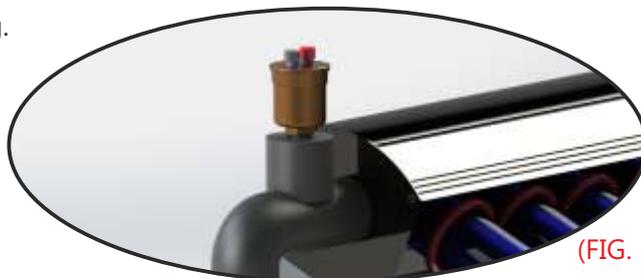
5. Hot Water Return - return side (Fig.4)

5.1 Using a male to conex connection connect a piece of copper tubing to the solar return ports located on the anode side of the geyser..

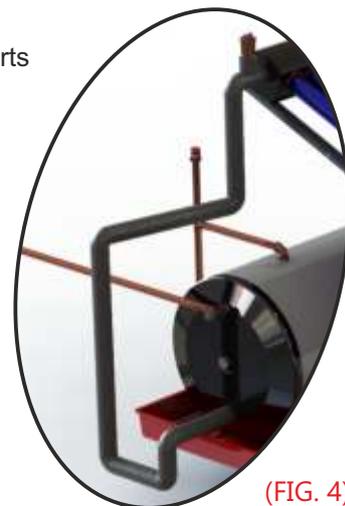
5.2 Complete the piping to the return side of the collector, making sure to include the anti-syphon loop near the geyser.

5.3 Install the steam release valve at the return side of the collector. (Fig.5)

NB.: Don't forget the lagging.



(FIG. 5)



(FIG. 4)

6. Water reticulation piping.

6.1 Connect the cold water supply as per SANS requirements.

6.2 Connect the hot water piping as per SANS requirements.

Note: Geyser must be installed as per SANS 10254.

ONCE THE SYSTEM IS FULL OF WATER, AND THE ELECTRICAL CONNECTIONS ARE COMPLETED YOU CAN BEGIN INSTALLING THE EVACUATED TUBES - SEE APPENDIX 3. FOR INSTRUCTIONS.

THE PLUMBING SIDE OF THE INSTALLATION IS COMPLETE

7. Electrical Components:

NB.: We recommend this section is completed by a Qualified Electrician.

Installation & Configuration:

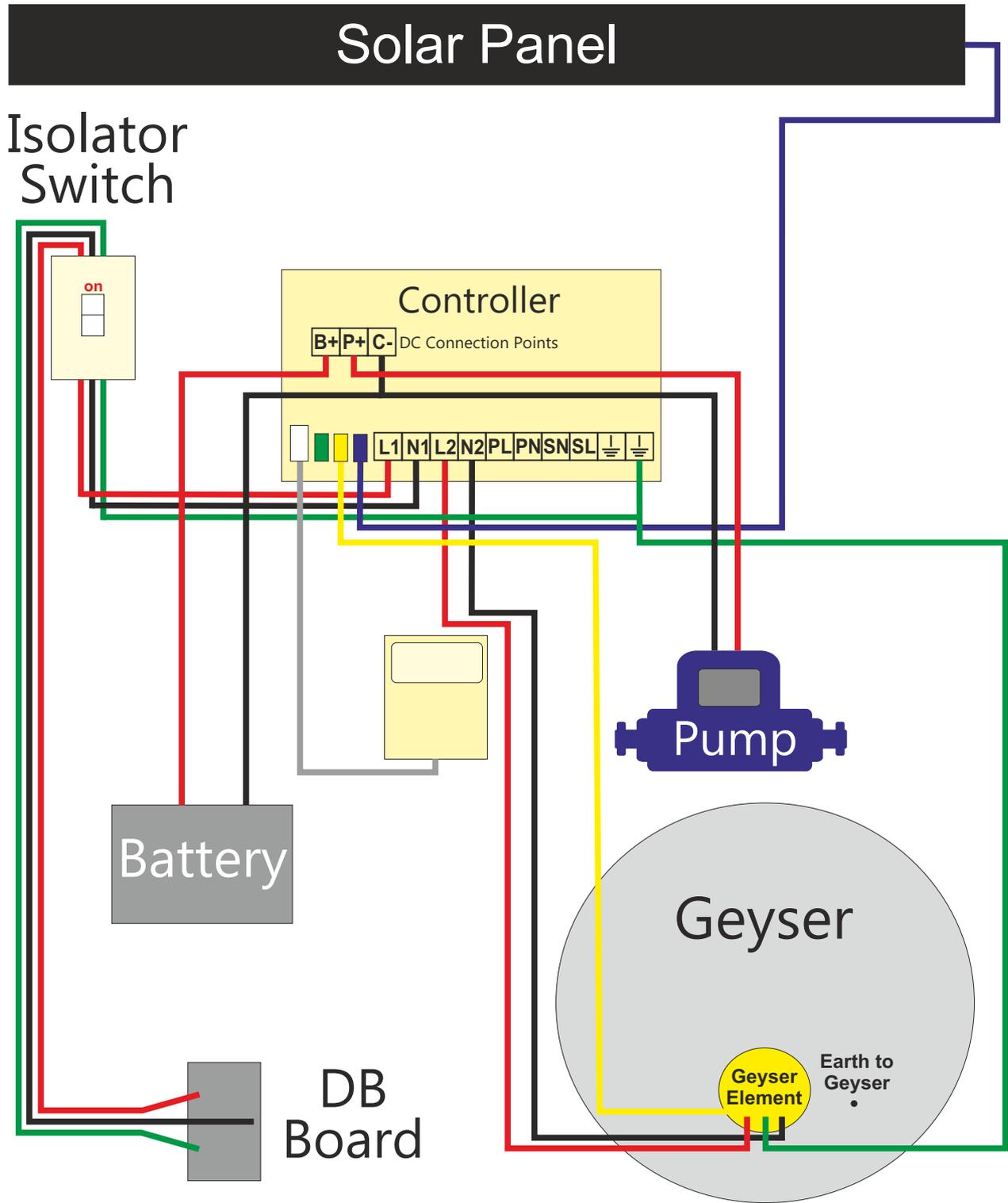
Please Refer to the Installation Manual provided with the Deferential Controller.

A simple wiring diagram is inclosed.

- Geyser Wise Max

Once the Geyser is Full and All Electrics have been checked, you may commission the solar system.

Before Leaving Please make sure the controller is correctly programmed, and the client has had the system explained to them.



KEY

- Live
- Neutral
- Earth
- LCD Display Cable
- Geyser Sensor
- Collector Sensor

GEYSER WISE MAX



Safe Operation of the System:

1. The system being a thermosiphon system relies on the natural process of water being heated by the Sun natural rises to the highest point of the system and is replaced by the cooler water in the same system.
2. This being a natural process, it will continue as long as the sun supplies sufficient energy to heat the water. No mechanical assistance is required.
3. Should the system be left for 4 or more consecutive days in high summer, it is possible that the system could over heat and become unstable, it is recommended that should the system not be used for 3 or more days, the collector be covered, to reduce the likelihood of the system over heating.
4. The system may produce excessively hot water (above 70°) to prevent scalding we recommend having a Tempering valve install on the system to prevent scalding.
5. The system typically takes a full day to heat the water in the geyser to a decent temperature. This is not an instant process but rather requires the full day on average. The ultimate temperature is determined by Usage and the energy of the Sun.
6. Once the water has been heated by the Sun, and once you have depleted such water, either you will have to wait for the Sun to reheat the system, or you will need to activate the electrical element if more hot water is needed urgently.
7. It is recommended you take this into account when using hot water, do not let the hot water simply run for no reason, showering using a low flow shower head can reduce your hot water usage by up to 50%
8. The electrical element consumes a large amount of electricity when it is active, it is recommended the use of the element be kept to the absolute minimum, by doing this your potential energy saving will be maximised. We recommend activating the element in the early hours of the morning, which would allow for normal early morning requirements, thereafter allow the Sun to provide the rest of the heating during the day.
9. For maintenance and other safety information please refer to the section on Maintenance.

Maintenance:

1. If at any time you suspect a leak or problem with the system please call your Installer immediately.
2. In-Land Areas: The Solar Collector should be kept free from dust or pollen.
3. Coastal Areas: The Solar Collector should be kept free from salt crystallization.
4. The anti-freeze fluid (Glycol) will degrade over time. The Collector and piping should be drained and refilled every (3) three years.
5. The entire system should be checked periodically for any leaks or problems. If you suspect a problem the Installer should be contacted immediately.
6. We recommend the thermostat in the Geyser be set to 55°C.
7. Never allow trees, shrubs or other large obstacles to cast a shadow on the solar collector. Please check during summer and winter.
8. Please Refer to Geyser Manufacturer of Anode Replacement (on Average replace every 18 Months)
9. Winter Time:
 - 9.1 Active Systems: Make sure the Frost protection system is activated.
 - 9.2 Make sure all Piping is Insulated.

Away Periods

When in summer, hot water is not going to be used for weeks, it is advisable to cover the panel(s) with a canvas or an old blanket (NOT WITH BLACK PVC!). This will prevent the system from over-heating.

Once a Year

The temperature and pressure valve(s) should be checked for proper operation. **This should be done by an accredited technician.**

NB.: It is also recommended that a Qualified Installer performs a full system check-up once a year, this will allow the system to perform at its fullest at all times.



Warranty

- Please Note:**
1. All installations must be carried out by, and signed off by a PIRB accredited installer. failure to do so will render the warranty null and void.
 2. All installations must comply with SANS 10254.
 3. This GAP warranty applies to the GAP Eco Electric, Eco Green & Eco Solar geyser only, all other components supplied by, and forming part of the system, but not manufactured by GAP carry their own warranty provided by their respective manufacturers.

Warranty / Guarantee Extender:

Should the GAP geyser be registered with GAP Holdings an additional two (2) years warranty / guarantee will apply to the below warranty / guarantee. All terms and conditions apply. It is the responsibility of the home owner to confirm registration upon installation of the geyser.

Warranty:

The GAP geyser comes with a comprehensive one (1) year parts and labour warranty and guarantee to replace the GAP geyser if the inner tank of the geyser fails within three (3) years of installation. The element and thermostat carries a one (1) year warranty.

3 Year Replacement Guarantee:

GAP will provide a free replacement geyser from it's nearest branch or approved agent. The transport, installation and labour costs of delivering the replacement geyser and removing the existing geyser and installing the replacement geyser, will be for the account of the owner of the existing geyser.

Where a GAP geyser or a component of the geyser is replaced, the balance of any original warranty or replacement guaranty period will remain effective. The replacement GAP geyser or part does not carry any additional warranty or replacement guarantee.

The period of warranty is from date of installation, providing the documented proof of installation and sale is furnished, or alternatively, from date of manufacture, as determined from the serial plate code on the geyser.

The following conditions apply:

1. The warranty only applies to defects, which have arisen solely due to faulty materials or workmanship during the manufacturing process of the GAP geyser.
2. The warranty does not cover:-
 - 2.1 Element burnt out through commissioning without water.
 - 2.2 Burnouts due to loose electrical connections.
 - 2.3 Fair wear and tear.
 - 2.4 Misuse, abuse or negligent use of the GAP geyser.
 - 2.5 Any attempt to self repair the geyser, tampering or defacing the serial plate.
 - 2.6 Excessive pressure:- where the incorrect pressure control valve is used, or if the pressure control valve fails. This geyser requires a 400Kpa pressure valve.
 - 2.7 Where a non GAP approved solar collector or heat pump is connected to the geyser.
 - 2.8 Electrical geyser not installed in roof or under cover.
3. The GAP geyser is fitted with a sacrificial anode (type is area specific), which protects the glass lined water tank. Replacement of the anode should be carried out at the appropriate intervals, determined by the water quality in the area, which can be obtained from the water authorities.

The following water specifications and servicing requirements are detailed below.

Total dissolved solids (Parts per million)	Recommended anode replacement
100 - 600	3 years
601 - 1000	2 years
over 1000	1 year

NB.: Failure of timeous replacement may result in permanent damage to the geyser and voiding of warranty.

In the event of maintenance the following clearance should be provided for unobstructed access.

- 300mm clearance around the safety valve.
- 450mm clearance around the front electrical cover plate.

Note: Please refer to GAP Holdings warranty document for full conditions, and instructions.

WARRANTY

Eco & EVT Range of solar collectors



Powerz-On gives the buyer the assurance that all components of the Solar System supplied by Powerz-On have been tested both as individual components and as a part of an integrated system. The system complies with all the relevant SANS requirements and carries the SABS mark of Approval.

Please Note:

1. All installations must be carried out by, and signed off by a Powerz-On accredited Installer. Failure to do so will render the Warranty Null and Void.
2. All installations must comply with SANS 10106.
3. The Powerz-On Warranty applies to the Powerz-On Collector only, all other components supplied by, but forming part of the system, but not manufactured by Powerz-On carry their own Warranty provided by their respective Manufacturers.

Warranty:

The Powerz-On Solar Collector comes with a comprehensive one (1) year parts and labour warranty and guarantee to replace the Solar Collector if the Collector fails within five (5) Years.

5 Year Replacement Guarantee:

Powerz-On will provide a free replacement Solar Collector from it's nearest branch office or approved agent. Under this replacement guarantee, the transport, installation and labour costs of delivering the replacement Solar Collector and removing the existing Solar Collector and installing the replacement Collector, will be for the account of the owner of the existing Solar Water Heater.

Where a Solar Collector or a component of the solar system is replaced, the balance of any original Warranty or Replacement Guarantee period will remain effective. The replacement Solar Water Heater or part does not carry any additional warranty or replacement Guarantee.

The period of Warranty is from date of Installation providing the documented proof of Installation and sale is furnished, or alternatively from date of manufacturer as determined from the serial plate code on the Solar Collector. The following conditions apply.:

1. The Warranty only applies to defects, which have arisen solely due to faulty materials or workmanship during the manufacturing process of the Solar Collector.
 2. The Solar Collector Glass is not covered by the Warranty. manufacturers defects excluded.
 3. Any Freeze damage caused as a result of the Solar Collector being installed as a direct system in frost areas, is not covered by the Warranty.
 4. Frost protection in the Pumped Direct system is dependant on an electrical supply. Any frost damage resulting from loss of, or intermittent Electrical supply, is not covered by the warranty.
 5. Any damage caused to the Solar Collector due to propylene glycol not being used, or the propylene glycol failing in the Indirect System, is not covered by the Warranty.
 6. Any damage caused to the Solar Collector due to improper installation, or modifications made to the Solar Collector, is not covered by the Warranty.
 7. Any damage caused due to an act of nature, is not covered by the Warranty.
 8. Any damage caused due to Collector over heating is not covered by the Warranty.
- Note:** If Collector temperature exceeds 100°C, permanent damage can occur.
9. Any damage caused to the Solar System due to water quality being outside the chemical parameters stated below, is not covered by the Warranty.:

PH	6.5-8.5
Total dissolved solids	600 mg/L
Calcium coronate level (Hardness)	200 mg/L
Chlorides	250 mg/L
Magnesium	10 mg/L

The Warranty on the Installation is the responsibility of the Installer. The System must be installed in compliance with SANS 10106.

Safety:

1. Do not tamper with any part of the installation.
2. Do not touch the Hot supply pipe from the Solar Collector/s, as this pipe can get extremely hot.
3. The Draining and Replacing of the heat transfer fluid (Glycol) must be carried out every three (3) years, and must be done by an authorized Powerz-On Installer.

Emergency and Shutdown Procedures:

In the event of a problem arising with the Solar Water Heater, the following procedure should be followed.

1. Switch off the Geyser at the electrical distribution board (DB board).
2. If there is any evidence of a water leak from any part of the system, shut off the water supply to the Solar Water Heater, at the shutoff valve before the Solar Water Heater, or at the mains water supply.
3. If there is any evidence of a heat transfer fluid leak (Glycol) in any part of the system, try and capture the leaking fluid into a bucket or container. Keep the container for inspection by the Installer.
4. Contact the company that installed the Solar Water Heater, or an authorised Solar Water Heater Installer.



MANUFACTURING THE FUTURE

INSTALLATION MANUAL - EVT PUMPED DIRECT

Warranty Activation Form

Please Note: The warranty comes into force when the activation has been registered with GAP Holdings. This is the responsibility of the owner of the solar system.

Please E-mail to activate@gapholdings.co.za

Home Owners Details: (to be completed by the Home Owner)

Name: _____
 Physical Address: _____

 Tel (Home): _____ Tel (office): _____
 Cell: _____ E-Mail: _____

Installer Information: (to be completed by the Installer)

Name: _____
 Company Name: _____
 Physical Address: _____

 Tel (office): _____ Cell: _____
 E-Mail: _____

Declaration:

Powerz-On Authorized Installer Certificate No.: _____

I, the above-mentioned Powerz-On Authorized Solar Water Heater installer, confirm that the solar water heater and/or Solar Collector installation carried out by myself, complies with Powerz-On requirements and SANS 10106 Installation Specifications.

Signature: _____ Date: _____

System Description:

(to be completed by the Installer)

Geysers manufacturer: _____

System	Split or Close Coupled		Circulation Method		Tick Appropriate Block
Direct	Split		Pumped		
	Split		Thermosiphon		
	Close Coupled		Thermosiphon		
Indirect	Split		Pumped		
	Split		Thermosiphon		
	Close Coupled		Thermosiphon		
Tank Size:	100Lt.	150Lt.	200Lt.	250Lt.	300Lt.
Tick Block					
Collector:	ST-2.2bsc	ST-2.2msc	ST-2.5bsc	ST-2.5msc	Eco-1.5
Tick Block					

Installation Date: _____

Collector.

Serial Number: 1. _____ 2. _____

Geysers.

Serial Number: 1. _____ 2. _____



HOLDINGS



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MANUFACTURING THE FUTURE