



# Kwiksol Indirect

Solar thermal water heating

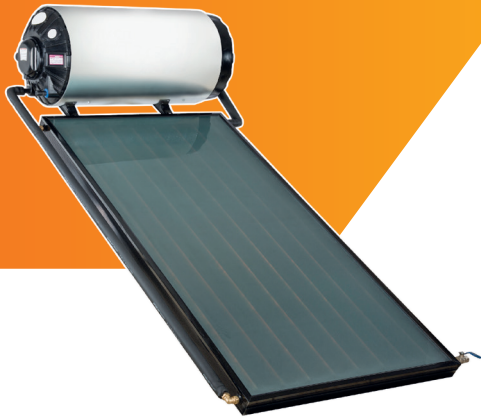
**Add warmth to life.**

# Solar thermal water heating

## Kwiksol Indirect 100L

Frost locations

SOL-150-IC



Optional flat roof frame



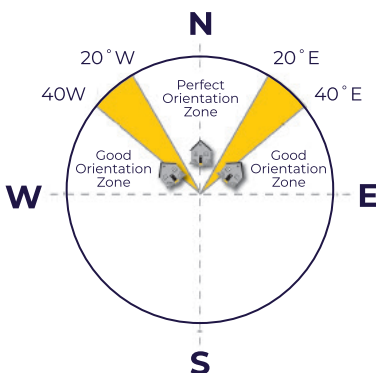
Water heater feet can be moved up to 30° angle



100kPa Solar relief valve



1LT Glycol



## Features

- 400Kpa Approved
- B-Rated energy efficient
- Electrical backup
- IPX4 rated
- Transfers heat via propylene glycol
- Complete solar system

## Why indirect solar?

- For frost locations below 5 degrees.
- Areas with poor water quality.
- Major saving on water heating costs.
- Natural solar energy from the sun.
- Environmentally friendly.

## Installation data

To be installed in compliance with SANS 10106. When installed inside the roof, in compliance with SANS 10106 and SANS 10254.

The 15mm expansion relief valve 100kPa supplied with system must be fitted to the outer jacket on the solar water heater.

## Anode servicing

Total Dissolved Solids (Parts Per Million)	Recommended Anode Replacement
100 - 600	3 Years
601 - 1000	2 Years
Over 1000	1 Year

## Roof location and pitch

Solar panels to face north and not to deviate more than 45 degrees.

The location should not be subject to excessive shading.

Roof pitch to be between 8 degrees and 30 degrees.

Careful inspection must be carried out to ensure that the roof can support the weight of the entire solar installation system.

## Kwiksol complete indirect solar system

Solar water heater systems for frost locations

Description	SOL-150-IC	SOL-200-IC	SOL-300-IC
Indirect Water Heater	SOL-150-IND-B	SOL-200-IND-B	SOL-300-IND-B
Capacity	150L	200L	300L
Element Rating	2kW	2kW	3kW
Operating Pressure	400kPa	400kPa	400kPa
Mass Empty	48kg	62kg	98kg
Water Connections (Bsp Male)	3/4	3/4	3/4
Water Connections (Bsp Female)	3/4	3/4	3/4
Dimension (L x H)	1070 x 596	1346 x 596	1940 x 630
Flat Plate Collector	SOL-PANEL-2B	SOL-PANEL-2.5	SOL-PANEL-2B
Number of Collectors	1	1	2
Collector Dimensions (L x B x H)	2m x 1m x 80mm	2m x 1.25m x 80mm	2m x 1m x 80mm
Mass Full	32	46	64
S Brackets (2 Per Box)	SOL-BRACKET-FP	SOL-BRACKET-FP	2 x SOL-BRACKET-FP
Glycol Sol-Pg-1	2L	3L	4L
Uv Solar Lagging	3 x 1.8 (25mm)	3 x 1.8 (25mm)	4 x 1.8 (25mm)
Bracket	SOL-BRCT-UN	SOL-BRCT-UN	SOL-BRCT-300
Expansion Relief Valve (15mm)	100kPa	100kPa	100kPa
22 Mm Vacuum Breakers	2 x KHN4-200CX	2 x KHN4-200CX	2 x KHN4-200CX
400kPa Pcv Multivalve	KHN3-214	KHN3-214	KHN3-214
Thermostatic Mixing Valve	KH6-320	KH6-320	KH6-320
7 Day Digital Water Heater Timer 20a	SOL-TIMER-1	SOL-TIMER-1	SOL-TIMER-1

### Product warranty

The period of warranty is from the date of installation providing that documented proof of installation is furnished, or alternatively from date of manufacture as determined from the serial plate code on the solar water heater.

One year on heating element and thermostat.

One year on the thermostatic mixing valve.

Two years on the safety valve and drain cock.

Five years on the inner cylinder, flange assembly plate and gasket, subject to water conditions equivalent to main metropolitan supply authorities.

Five years on solar vacuum tubes including the frame and manifold.

The warranty only applies to defects which have arisen solely due to faulty materials and workmanship during the manufacturing process.

The warranty on the installation is the responsibility of the installer.

### Maintenance recommendations

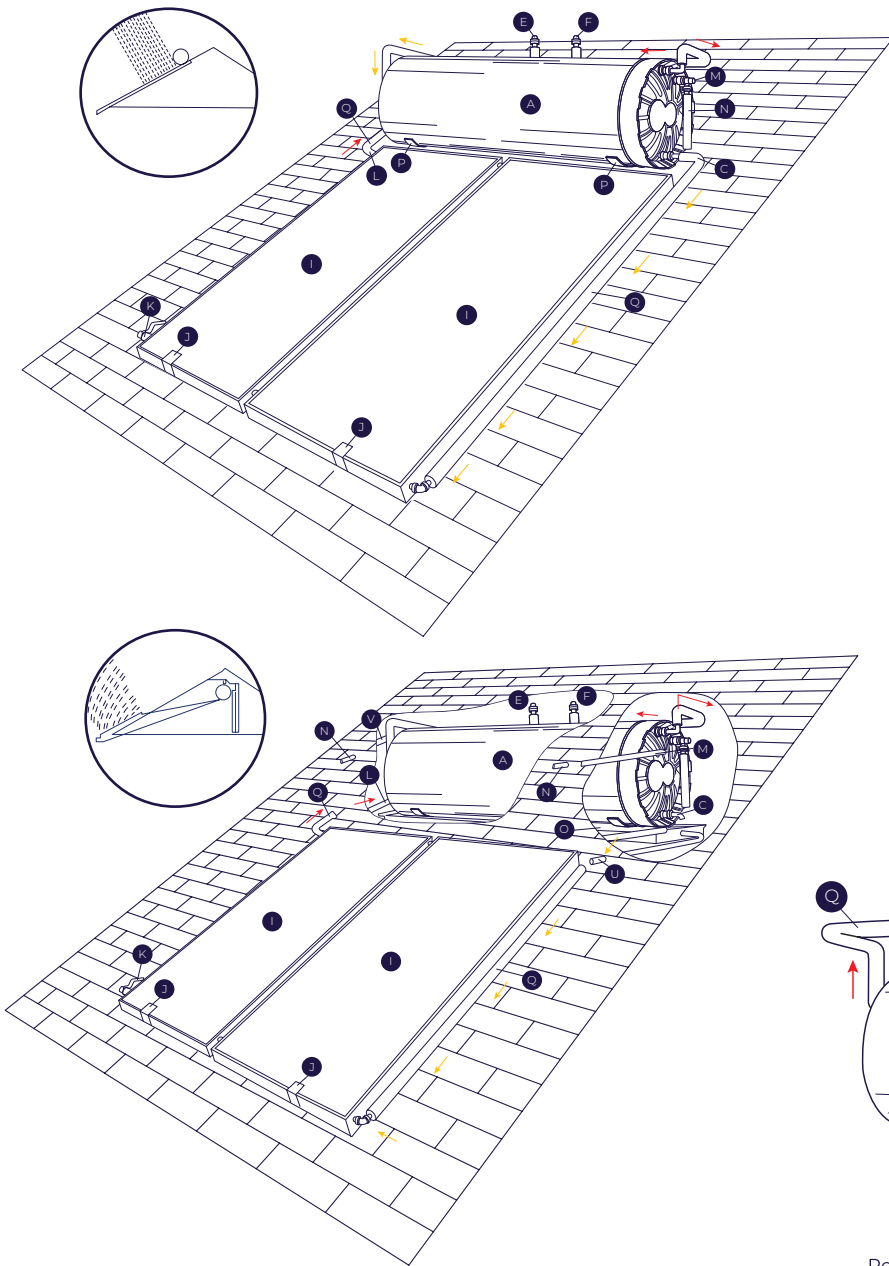
Service the system once a year.

Replace glycol every 2 years.

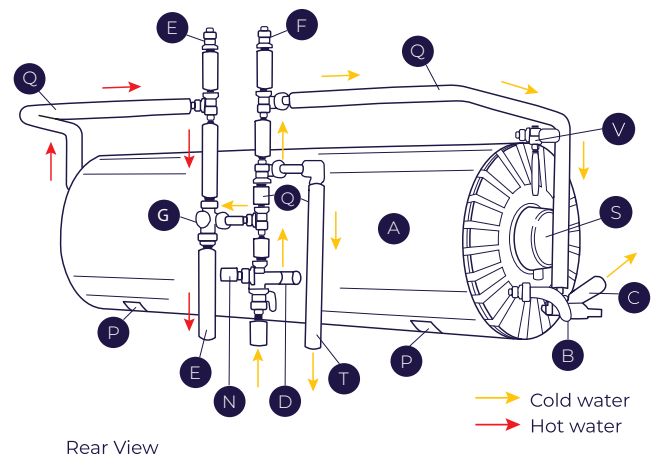
The water heater performance is dependant on the heat transfer fluid and therefore should be topped up if and when necessary.

Additional maintenance may be required due to area and usage.

# Installation diagram - Indirect close coupled thermosyphon method



- A Kwiksol indirect water heater, 400kPa
- B Drain cock
- C Cold water feed to solar collector panels
- D Multi pressure control valve, 400kPa
- E Vacuum breaker hot side
- F Vacuum breaker cold side
- G Thermostatic mixing valve
- H Hot water feed to taps (balanced pressure)
- I Solar collector panels
- J Roof mounting brackets for solar collector panel
- K Lever ball valve
- L Hot water feed to solar water heater
- M Safety valve, 400kPa
- N Expansion overflow pipe
- O Drip tray
- P Pitch roof support for solar water heater
- Q Thermal pipe lagging (R1 rating)
- R Service access to the 2nd anode
- S Electrical cover plate with isoator switch (IPX4 Rated)
- T Cold water feed to taps (balanced pressure)
- U 50mm Overflow from drip tray
- V Expansion valve 100kPa



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