



Retrofit Domestic Solar Water Heating Systems

SOLARISE YOUR EXISTING GEYSER

Solarise is Proud to Present:

The Solaray Flat Plate Retrofit Systems

- ✓ Retrofit system- No bulky tank on roof
- ✓ Does not void any existing warranties on your geyser
- ✓ Retrofit capacity 100L - 300L
- ✓ 12V DC Circulating Pump with **Battery Back-Up**
- ✓ Intelligent Differential Controller
 - Shows Rand Value of Geyser Usage
 - **Allows the user to monitor geyser energy** use with detailed graphs on a computer
 - Timer functions with Boost function (for unscheduled heating) and **Holiday mode**
- ✓ Manufactured locally to the stringent requirements of the South African Climate



Designed by Industry Experts- The Most Elegant Solution to Domestic Water Heating

Is your home suitable for a retrofit system?

- ✓ **Do you have a North facing roof?**
 - Solar collectors need to face within 45 degrees of North for optimum performance
 - Optimum angle pitch of 10-30 degrees. Flat roofs would require a flat roof stand.
 - Geyser should be in close proximity (<6 meters)
- ✓ **Is your geyser relatively new and/or in good working condition?**
 - Capacity of your geyser sufficient for your needs?
- ✓ **Is your roof in good repair?**
 - Infestation may weaken roof supports, and repairs/reinforcement may be required prior to installation

If your answer is YES to these simple questions, then your home is perfect for a Retrofit Solar System!

In addition to Retrofit Kits, we also offer a full range of complete Solar Water Heating Systems.

Contact us Today! | 031 579 2043 | info@solarise-sa.com

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The SOLARISE Solaray TR Retrofit Solar Water Heaters

Direct system complete with circulating pump and differential temperature controller designed specifically for upgrading existing geysers.

- **High quality European designed flat plate solar panel**
- **Black Chrome selective coating fins on copper risers**
- **4 mm textured toughened glass covering increases heat capture**
- **Heat absorption greater than 97%**
- **Non corrosive backing panel**
- **Extruded anodised aluminium frame**
- **2.0 sqm and 1.25 sqm panels available**
- **Intelligent controller: protects against freezing, controls the geyser element, variable temperature set points, prevents element switch on at Eskom peak times and many more features.**

This Retrofit Kit was designed to effectively upgrade existing geyser to use solar power. The DN Solar panel has been extensively tested and used widely in many countries (such as Australia, Sweden and America). The textured glass design refracts incoming sunlight from any angle and increases the panel's efficiency. A reflective, thermally insulated material is placed behind the fins to ensure the heat is retained within the panel.

The DN Solar panels are ideally suited for a wide range of geyser sizes. From 100 Litre systems through to 300 Litre systems can be accommodated. In addition- multiple panels can be interconnected to form large volume Solar water heater systems for industrial/commercial applications.

Geyser heating element Timer control

The S21 controller has a real-time clock with battery backup that drives 2 separate timers. Each timer has a target temperature associated to it, allowing two separate profiles to be setup. The timers may even overlap if required.

Geyser cost indicator: The controller keeps track of the lengths of time that the geyser element is switched on, and expresses this as a Rand value- showing you how much your geyser is costing you every day! (Tariff rates can be customized).

Overheat Protection: System has maximum cut-off temperature setting to protect the geyser/tank from overheating.

Frost Protection: The system includes a frost protection mode to protect the collector from freezing in low temperatures.

Battery Back-Up: The controller and pump are powered through a back-up 12V battery pack that will ensure the operation of the system even during power-cuts.

The controller also provides two override functions

1. **Boost...** Pushing the boost button will force the element on to heat to preset temperature, and cancel once preset temperature is reached. Pushing the boost button again will also cancel the mode.
2. **Holiday...** Pushing the Holiday button will force the heating element off irrespective of the timer settings. The mode is cancelled by pressing the Holiday button again.

Panel Dimensions

DN100

Dimensions:	1250 x 1000 x 95mm
Weight:	23kg
Heating Capacity:	100L (Panel x 2 for 200L)

DN150

Dimensions:	2000 x 1000 x 95mm
Weight:	44kg
Heating Capacity:	150L (Panel x 2 for 300L)