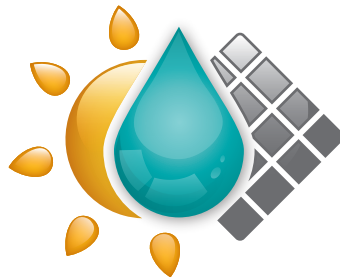




SYSTEMS AUTOMATION & MANAGEMENT PTY LTD.



GEYSERWORX®



Over 25 Years of Service Excellence in the Technology Industry.



www.geyserworx.com | www.sam.co.za



GEYSERWORX®

GeysorWorx® is a Patented (No. 2013/06616) micro-processor based product that utilises solar energy during the day to heat normal household or commercial geyser water. This is done without the use of a PV inverter or batteries and thus reduces the electrical running costs of the geyser system.

GEYSERWORX® SYSTEM OFFERING:

Basic System Includes:

- PV panels complete with mounting brackets and connecting wiring.
- Temperature sensor.
- GeysorWorx® controller unit.

Standard System Includes:

- Basic system plus wireless interface to clients PC.

Deluxe System Includes:

- Wifi remote networking hardware and router with internet web application and smart phone interface to allow for full monitoring and control of geyser conditions.

GeysorWorx® Optional Extras Include:

- Wireless networking allowing the user to configure and monitor the system, either using a web application for smart phones or internet accessible to view parameters and / or set the controller.
- Anode depletion indication.
- Water leak detection. (drip tray water detection)

GeysorWorx® Operation Modes

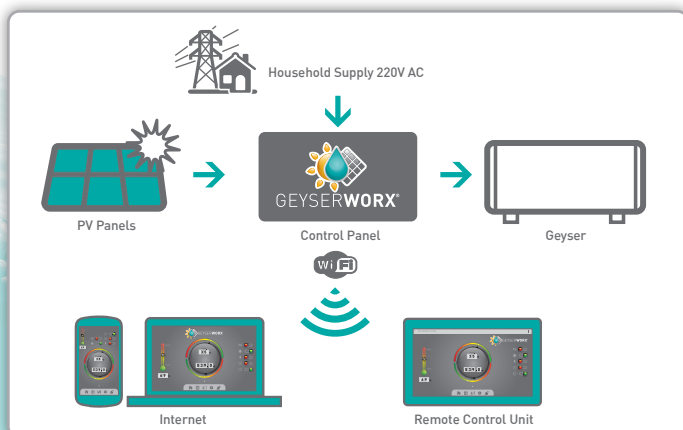
- Automatic Mode. (Basic System)
- Manual Mode. (Standard System)
- Holiday Mode. (Deluxe System)

GeysorWorx® Advantages:

- Save between 20% – 30% on electricity consumption.
- Easy and quick installation of the system. (+/- 4 hrs)
- Can use the existing geyser.
- No loading of the roof and roof trusses.
- No moving parts, thus no wear & tear.
- No modification of the plumbing.
- No drilling of holes in walls and / or ceiling and no ugly wiring on the wall.
- No glycerine or other heating medium that may contaminate the water.
- Not affected by calcium or any other minerals in the water.
- Use of internet / wireless technologies to manage and set the GeysorWorx® parameters.
- Uses modern technologies that allow for upgrades of the software and functionalities.
- 20 year OEM guarantee of the components supplied.

Compliance

- All wiring must be installed in accordance with all local regulations. (including power and signal cables)
- Power wiring must conform to the local electrical code. Use of a qualified contractor and approval by the local wiring inspector ensures compliance to this code.
- Circuit capacity limits are governed by the local regulations. Refer to these, and any other applicable local codes, to determine circuit capacities. Circuits connected to outlets should never exceed 15A load.
- The grounding system must be installed in accordance with the SABS Electrical Code, and any other applicable electrical codes. (to include: IEEE-142; Lightning Protection Institute Installation Code LPI-175; NFPA-78 (ANSI); IEEE Std. 142-1972; Code LPI-175)



Operating Voltage:	20 to 250V DC
Mains Voltage:	220 V AC, 50Hz
Control Circuit:	5 V DC
Geyser Element Rating:	1kW, 2kW, 3kW & 4kW
Geyser Temperature Control Range:	48 °C to 85 °C
Operating Ambient Temperature:	-10 °C to 55 °C
Temperature Display Range:	0 °C - 130°C
Earth Leakage Protection at:	25mA action time ≤ 0,1 second
Heat Failure - When Increase at a Rate of:	2 °C or less per hour.
Dry Heat Detection - Empty Cylinder:	Required
Temperature Tolerance:	< 2%
Temperature Differential Setting:	1°C
Switching Differential for the Element:	6°C
Temperature Probe Failure Detection:	Required
Temperature Probe Range for Geyser:	-30 °C to +130 °C
Isolate Both L + N When Element is in an Off State:	Required

FOR A OPTIMISED SYSTEM SOLUTION AND REAL INDUSTRY KNOW-HOW, USE SAM'S GEYSERWORX® SYSTEM.



HEAD OFFICE | GAUTENG | SOUTH AFRICA

13 -17 Rembrandt Str. | Petervale | Bryanston

P O Box 97757 | Petervale | 2151 | Z.A.

Tel. +27 (0)11 803 0570 | +27 (0)11 231 8900

Fax. +27 (0)11 803 3486

Email. info@sam.co.za | Web: www.sam.co.za

LOCAL AGENT: