

# Geyser- W.I.S.E. features

- Replaces the conventional thermostat with a digital system.
- Digital water temperature reading/setting.
- Control your geyser from your palm with the controller.
- Convenient to operate.
- Microprocessor Intelligent Control.
- Quick and steady water temperature control.
- Power off memory timer.
- Earth leakage protection.
- High temperature cut out at 85 degrees centigrade
- Element failure detection.
- Leaking hot water pipe detection.
- Scale build-up detection.
- Probe failure detection.
- Load shifting capability to off peak periods.
- Real-time Clock
- Four daily programmable time settings, Mondays to Sundays.
- Battery backup on power failure.



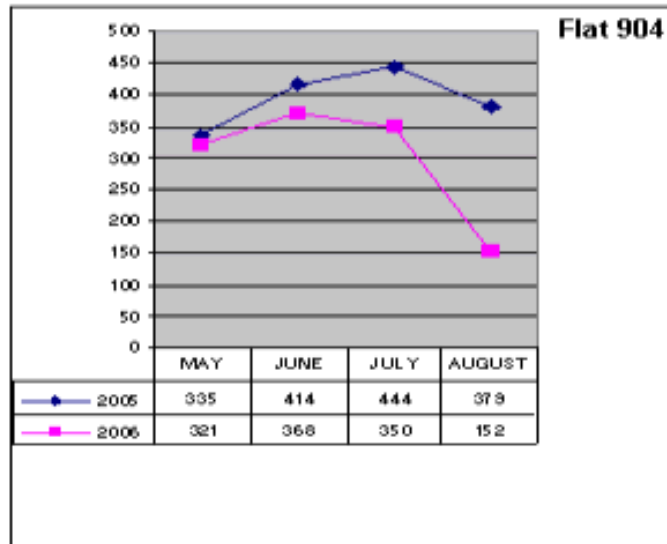
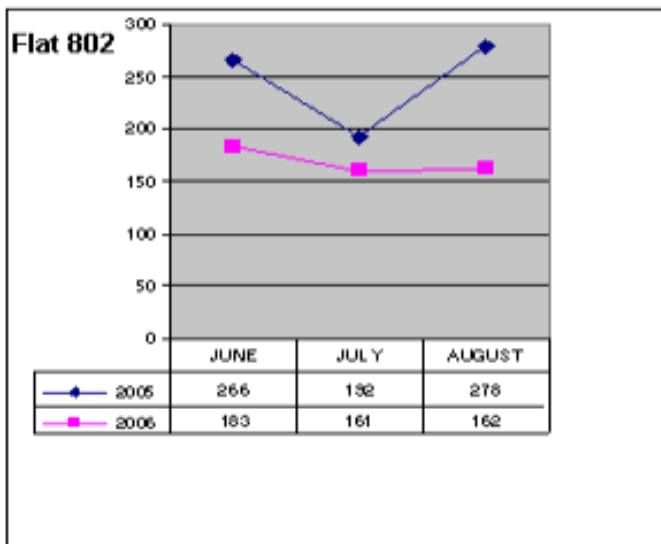
## Case Studies

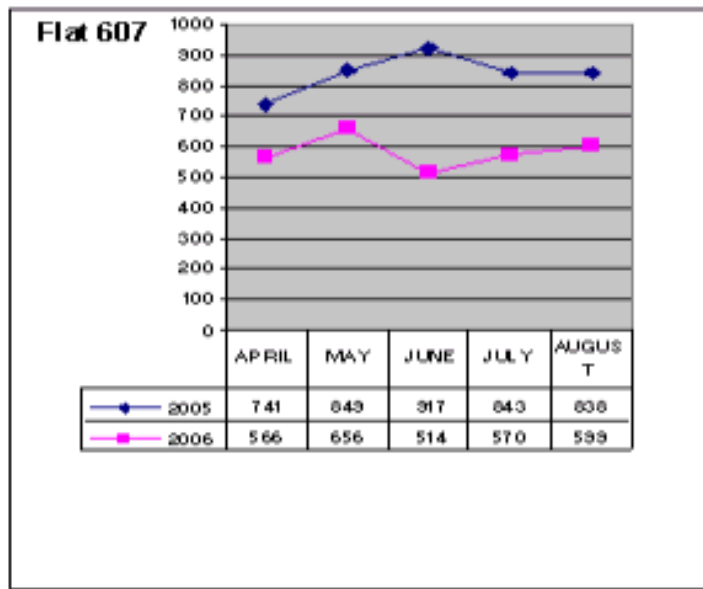
The graph shows the electricity consumption between 2 years.

After replacing the standard thermostats with the Geyser Wise® system, the heating elements were identified as being defective.

A total of 5999 Kwh was saved over a period of 37 months. This calculates to an average of 169 Kwh per flat per month.

Imagine that only 5% of all hot water cylinders are defective in South Africa. This will calculate to an average loss of 3.45 billion Kwh wasted every year. If one calculates this to the average cost of 0.46c per Kwh, the wastage will average to R164, 460,660! (Almost enough to build a small power station!)





## Technical

REPLACE CONVENTIONAL THERMOSTAT  
 TESTED BY SABS COMMERCIAL (PTY) LTD IN TERMS OF STANDARD IEC 60950

AVERAGE OPERATING VOLTAGE AC 220V / 50HZ

OPERATING VOLTAGE RANGE AC 160V TO 250V

MAXIMUM CURRENT 20 AMPERE

EARTH LEAKAGE PROTECTION 25mA, Action time  $\leq 0.1s$

TEMPERATURE DISPLAY 0 TO 99° C

TEMPERATURE SETTING RANGE 30 TO 75° C

MAXIMUM TEMPERATURE 85° C

BI-POLAR RELAY ISOLATE ELEMENT IN OFF POSITION

For safety reasons and to avoid any further damage the unit will display an error code and shut the system down under the following conditions

1. Earth Leakage
2. Element Failure
3. Overheating > 85°C
4. Sense Heat Failure e.g. scale build-up, leaking pipes
5. Probe Failure