

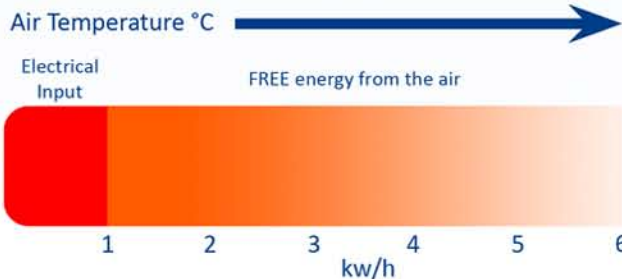
KEY BENEFITS TO USING SIRAC HOT WATER HEAT PUMPS

Our Heat Pump technology combines energy from ambient air temperatures with electric energy - without requiring the sun to shine.

Typically, your hot water usage will account for 43% of your electricity bill. Now you can save up to **70%** of this cost.

- > Fast hot water recovery at temperatures up to 60°C
- > Uses up to 70% less energy to heat water, freeing up power for other appliances and costing you less.
- > Quiet operation, with no unsightly solar collectors on the roof.
- > Compact and easy to install plug in system - operates with standard high pressure or low pressure geysers or storage cylinders.
- > Can be retro-fitted to existing geysers.
- > Can be used in conjunction with solar geysers.
- > Fully automatic control with adjustable water temperature setting.
- > Environmentally responsible - extremely energy efficient, with no Greenhouse Gas emissions.
- > Low maintainance, with extra long-lasting casing.

USING RENEWABLE ENERGY FROM THE AIR



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SIRAC



Domestic Hot Water Heat Pumps

SIRAC

Domestic Hot Water Heat Pumps



Mark of Approval



Specifically Designed
for South African conditions

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SIRAC

TAKE CONTROL OF THE HOT WATER IN YOUR HOME

Regulate your hot water consumption without having to climb into your attic

SIRAC Hot Water Heat Pumps are supplied with user-friendly wired remote controllers that allow quick and easy access to water temperature, running times and system diagnostics

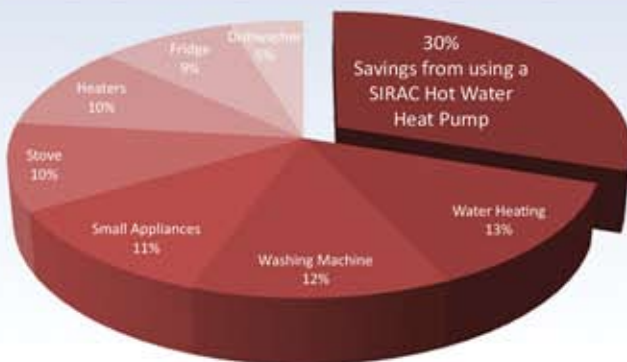


HEAT PUMPS PAY OFF

With a highly efficient SIRAC Hot Water Heat Pump, you can enjoy plentiful hot water throughout your home at a much reduced cost. They are affordable, reliable and their high efficiency keeps your electricity bill to a minimum.

Install a SIRAC Hot Water Heat Pump now and reap a return on your investment with a payback through energy savings in record time.

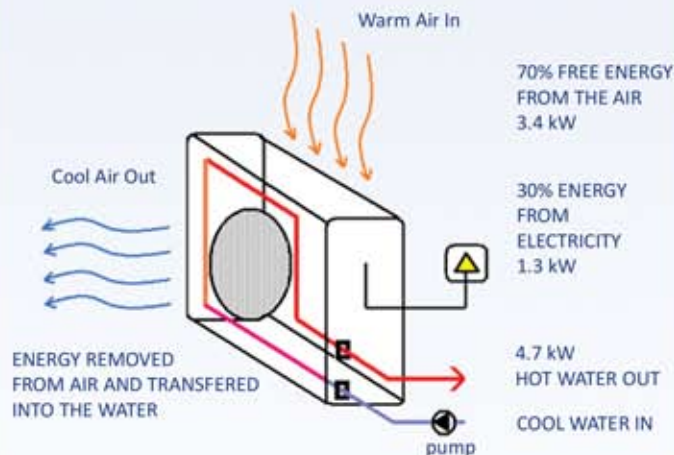
- > Save **70%** of energy usage on water heating
- > Protect against rises in electricity costs
- > Can operate at night on off-peak tariff



THE SIMPLE SCIENCE BEHIND HEAT PUMPS

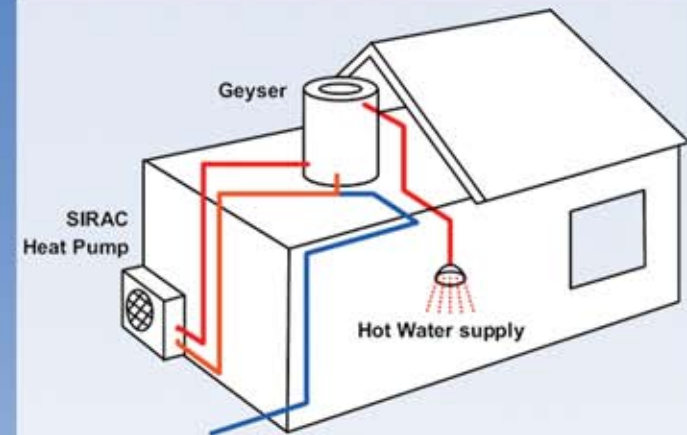
A heat pump is a highly efficient, cost effective method of heating water. It utilizes the sun's free energy by extracting heat from the sun-warmed air and transferring it efficiently to the water. Because the heat pump moves the free heat from the outside air to the water, rather than create heat (as a fossil fuel or electric resistance heater does); it can heat your geyser water for up to 70% less cost than these other less efficient methods.

Energy rich ambient air is drawn through the Evaporator coil by a fan. The refrigerant in the machine absorbs this free energy. It is then compressed and pumped to the Condenser by the Compressor. It is here that the energy is released into water as it passes through the machine. There is no direct contact between the air/water/refrigerant; all the heat transfer is conducted by a set of heat exchangers much like a car radiator.



As the ambient temperature changes, the heating output of a heat pump will vary. However, even when temperatures are cooler, the heat pump continues to transfer heat between air and water. SIRAC heat pumps are designed to operate between -15°C and 40°C ambient temperature. On a typical South African summer day, the heat pump will provide 4kW of heating with only 1kW of electrical input. By contrast electrical elements require 4kW of electrical energy to generate 4kW of heat energy.

TYPICAL HEAT PUMP INSTALLATION



One of the SIRAC heat pumps' greatest attributes; is its ease of installation. The product has been specifically designed for South African conditions. The installation is neat and compact. It does not rely on direct sunlight to offer great performance, so there is no need to clutter up your roof spaces or endure fluctuations in performance due to inclement weather.

TECHNICAL SPECIFICATIONS

| Model | LSQ010RC | LSQ015RC | LSQ02RC |
|-------------------------|-----------------|----------|---------|
| Heating Capacity (kW) | 3 | 4.7 | 6.5 |
| Power Input (kW) | 0.8 | 1.2 | 1.7 |
| COP | 3.75 | 3.9 | 3.8 |
| dB Rating | 47 | 47 | 49 |
| Running Amp | 3.5 | 6 | 8.2 |
| Power Supply | 230 VAC / 50 Hz | | |
| Heating Capacity (L/hr) | 85 | 110 | 150 |
| Unit Length (mm) | 780 | 930 | 960 |
| Unit Height (mm) | 500 | 550 | 550 |
| Unit Width (mm) | 260 | 280 | 450 |

* Heating Capacities are rated at 20°C ambient and 55°C hot water