

# Symbiont Service Corp.

**Go Green • Go GeoThermal**

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**Pool Heating • Air Conditioning**

**"One Company, One Call, Complete Comfort!"**

Lic. # CBC1258380, CAC035549, EC0002946, CPC1456477



## Pool Heating Comparison

Type	Performance	Green	Operation Cost	Durability Serviceable Life	Reliability Mechanical	Cost Effective	Cooling
<b>GeoThermal Well &amp; Lake (SYMBIONT)</b>	Excellent Constant comfortable 85F Pool and 104F Spa temperatures 12 months per year.	Excellent According to the US Department of Energy, states in 2005 a goal of 400,000 annual installations will save consumers over \$400 million per year in energy and reduce greenhouse gas emissions by over 1 million metric tons of carbon each year	Excellent EPA states, Geo Thermal can reduce energy consumption 25% to 75% compared to older or conventional systems.	Coastal - 20 years Inland - 20 years The DOE states, 95% of all Geo-thermal users would recommend a similar system.	Excellent SYMBIONT services their own products. Additionally, Geo-Thermal has fewer mechanical components and are sheltered from the elements - salt air and wind blown sand.	Excellent Typically a 70% to 80% savings compared to gas systems. According to the EPA, Geo-Thermal systems are the most energy-efficient, environmentally clean and cost effective systems available.	YES
<b>Gas</b>	Excellent	Poor	Poor Highly dependent on the price of Gas	Coastal - 2 to 4 years Inland - 6 to 8	Somewhat	Poor	NO
<b>Heat Pump, Air-Source*</b>	Somewhat Excessive overnight pool temperature swings due to poor nighttime air heat pump performance.	Somewhat	Somewhat however because of lower air temperatures at night, the system works overtime to keep pool temperatures at the desired level resulting in higher operation cost.	Coastal - 3 to 4 years Inland - 6 to 8 Because HP use the outside air to transfer heat they are very susceptible to the elements.	Somewhat however owner must rely on local contractor for service	Somewhat typically will need to replace the Heat Pumps 3 to 4 times during 20 year period.	YES Optional feature usually at an additional charge.
<b>Solar*</b>	Poor Not practical for year-round swimming.	Excellent	Somewhat usually because the system does not operate at night.	NA information is unavailable because of the multitude of manufacturers and wide variety of system designs	Somewhat	Somewhat usually because the system does not operate at night.	NO

\*To achieve consistent year round swimming an additional backup source of heat not affected by ambient air temperatures would be required.