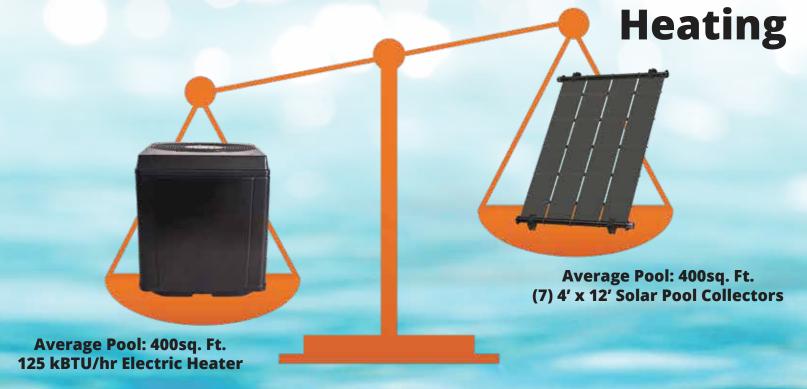
Heat Pump VS. Solar Pool



	Electric Heat Pump Costs	Solar Heating Savings		
Average Unit Cost including installation	\$4,800.00	\$6,500.00		
Electrical Connection Costs (30A-40A GFCI)	\$1,000-\$3,000	\$0.00 No Electrical Connection Required		
Average Annual Energy Consumption (\$0.12/kWh)	6,000kWh/\$720.00 \$720 Annual Sav			
Warranty	2 Year Full 5 Year Parts 7-12 Years			
Average Life Span	5-7 Years 25 Years			
Estimated Annual Carbon Imprint	5,520 lbs of Carbon PRODUCED	5,520 lbs of Carbon SAVED		





12 Year Warranty on Solar Pool v.s 12 Year Cost of Electric Heat Pump

*Based on 2,500 sqft Home in 2012

*Average bill does not account for cost of Pool Heating

Heat pumps will use around 5,000 watts or 5 kilowatts per hour per 100,000 BTU's. For a typical size 100,000 BTU heat pump, that's 5 kilowatts per hour / 300sq. ft. Pool

Electrical Rates	Average Monthly Bill	Add Heat Pump	Monthly Bill with Heated Pool	Average Annual Bill	Add Heat Pump	Annual Bill with Heated Pool
\$0.09 / kWh	\$ 92.07	\$ 81.00	\$ 173.07	\$ 1,104.39	\$ 486.00	\$ 1,590.39
\$0.10 / kWh	\$ 102.30	\$ 90.00	\$ 192.30	\$ 1,227.10	\$ 540.00	\$ 1,767.10
\$0.12 / kWh	\$ 122.76	\$ 99.00	\$ 221.76	\$ 1,472.52	\$ 648.00	\$ 2,120.52
\$0.14 / kWh	\$ 143.22	\$ 126.00	\$ 269.22	\$ 1,717.94	\$ 756.00	\$ 2,473.94
\$0.18 / kWh	\$ 184.14	\$ 162.00	\$ 346.14	\$ 2,208.78	\$ 972.00	\$ 3,180.78
\$0.20 / kWh	\$ 204.60	\$ 180.00	\$ 384.60	\$ 2,454.20	\$ 1,080.00	\$ 3,534.20
\$0.24 / kWh	\$ 245.52	\$ 216.00	\$ 461.52	\$ 2,945.04	\$ 1,296.00	\$ 4,241.04
\$0.28 / kWh	\$ 286.44	\$ 252.00	\$ 538.44	\$ 3,435.88	\$ 1,512.00	\$ 4,947.88
\$0.30 / kWh	\$ 306.90	\$ 270.00	\$ 576.90	\$ 3,681.30	\$ 1,620.00	\$ 5,301.30

2021 Average U.S. Electricity Retail Prices (cents per kWh) The national average is 11.18 cents per kilowatt hour. • 8.00 to 9.00 • 9.01 to 10.00 • 10.01 to 12.00 • 12.01 to 15.00 • 15.01 and Higher A Magen eco-Energy Company Source: U.S. Energy Information Administration; Electric Power Monthly: February 2022

Estimated Pool Heating Calculation for this Diagram: 6 Hours per Day (30kWh/Day = 900kWh/Month) 6 Months per Year (5,400kWh/Annual)

Electrical Rates	12 Year Solar Heating Savings
\$0.09 / kWh	\$ 5,832.00
\$0.10 / kWh	\$ 6,480.00
\$0.12 / kWh	\$ 7,776.00
\$0.14 / kWh	\$ 9,072.00
\$0.18 / kWh	\$ 11,664.00
\$0.20 / kWh	\$ 12,960.00
\$0.24 / kWh	\$ 15,552.00
\$0.28 / kWh	\$ 18,144.00
\$0.30 / kWh	\$ 19,440.00

