

MGAC Pool Heater Replacement Option Details

Replacement Cost Comparison	2 Copper Fin (Current Config)	1 Aquis (New Design)
Cost Installed	\$100,000	\$170,000
Major Advantage	Upfront Cost	Efficiency
Energy Efficiency Rating	89%	97%
Equipment Cost	\$52,205	\$77,720
Annual Gas Consumption Cost	\$83,151	\$64,292
Annual Maintenance Cost	\$4,162	\$1,033
Heat Transfer Package Replacement Interval	5 Years (Heat Exchanger)	15 years (Heat Exchanger Plates)
Heater Replacement Interval	10 Years (Complete Replacement)	N/A
15 Year Comparison		
Heat Transfer Package Replacement Cost Total - Replace every 5-Years for Copper Fin solution (2 Units @ ~\$14k/Unit at that time)	\$28,000	\$2,021
Heater System Replacement - Full Replacement Needed every 10-Years for Copper Fin Solution	\$123,000	\$0
Maintenance Costs	\$68,104	\$16,903
Original Installation Costs	\$100,000	\$160,000
Total Non-Utilities Cost Est. - 15 Years	\$319,104	\$178,924
Gas Consumption Cost Est - 15 years	\$1,406,925	\$1,087,829
Total Cost Est. over 15 Years	\$1,726,029	\$1,266,753
Savings		
Non-Utilities Cost Savings		\$140,180
Gas Savings		\$319,096
Total Savings		\$459,276

Data Factors: MGAC Comp Pool

CA weather region
 80 degree pool water temp
 \$1.00 per therm cost
 Calculations are for year round, uncovered pool.
 Capital costs include applicable sales tax and shipping costs. Replacement parts assumes a 2% cost increase per year Replacement heater assumes a 1.5% cost increase per year
 Cost per therm assumes a 5% cost increase every five (5) years
 Annual maintenance labor and materials assumes a 5% cost increase every five (5) years.