8125 Bayberry Road
Jacksonville, FL 32256
info.usa@speck-pumps.com
www.usa.speck-pumps.com

Toll Free 800.223.8538
Telephone 904.739.2626
Facsimile 904.737.5261

Variable Frequency Drive Energy Savings Analysis

Project Name: Commercial Pool

Organization: Company Name Here
Contact: John Smith
Telephone: 904-555-1234
E-Mail: c@cmail.com

Address: 123 Main Street, Anywhere Fl

Date:

This energy savings calculation is an estimation only based on available data.

Actual savings may vary due to specific case factors.

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speck pumps
POOL PRODUCTS, INCORPORATED

EXISTING EQUIPMENT

Pump HP	7.5
Voltage	230
Amps	18
Rate kW/Hr ($)	$0.20
Hours per Day	24
Days per Year	365

kWh Consumed	4.1
Daily Expenditure	$20
Monthly Expenditure	$596
Yearly Expenditure	$7,253

ENERGY SAVINGS OPPORTUNITY

Maximum GMP	250
Operating GPM	180
Differential	28%
Maximum RPM	3500
Operating RPM	2520

kWh Consumed	1.5
Daily Expenditure	$7
Monthly Expenditure	$223
Yearly Expenditure	$2,707

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ECONOMIC SUMMARY

Annual Savings

Current Annual Expenditure	$7,253
Proposed Annual Expenditure	$2,707
Annual Savings	$4,546
Annual Energy Savings	63%

Project Costs

7.5 HP 3 Phase, 230V Nema 12 Outdoor Rated	$3,770
Wiring, Installation & Commissioning (estimated)	$500
Total Project Cost	$4,270

Effective Project Cost

Effective Payback (in months)	11
Savings Per Year	$4,546
Savings Over 10 Years after payback	$41,190

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ENERGY ANALYSIS

Energy Consumption

Current Consumption (in kWh) per Year	36,266
Proposed Consumption (in kWh) per Year	13,536

Electricity Demand Reduction

Total kW of Existing Equipment	4.1
Total kW of Recommended Equipment	1.5
Total Demand Reduction	2.6

ENVIRONMENTAL IMPACT

Total Energy Reduction (in kWh) per Year	22,730
Estimated CO2 Reduction (Metric Tons)	10

EQUIVALENT TO:

Gallons of Gasoline Consumed	1,167
Barrels of Oil Consumed	24
Trees Seedlings Grown Over 10 Years	267
Acres of US Forest	9

Source - U.S. EPA