

A.O.SMITH

Two-Speed Swimming Pool Pump Motors... The Affordable Energy Saver

Save Energy:

Common sense might tell you that if you reduce the speed of your swimming pool pump motor by one-half, the pump will pump half as much water while working half as hard. In fact, the pump will pump half the amount of water, but the load on the motor is reduced much, much faster or, more precisely, by the cube of the speed. Even though it takes twice as long to pump the same amount of water, the dramatic drop in the amount of horsepower required to do it saves a lot of electricity.

Best Value:

This is why an A. O. Smith two-speed, California compliant (Title 20), motor can save you big bucks on your energy costs. Add to that the savings you receive at installation versus a variable speed motor, and it is easy to see how a simple-to-operate A. O. Smith two-speed pool motor really is the affordable way to save money on your energy costs.

Save 20%:

The chart below shows a comparison between a typical A. O. Smith single-speed motor and its two-speed equivalent. In this example, the single-speed motor is running six hours per day, 365 days per year. The two-speed motor is running two hours per day on high speed and eight hours per day on low speed, 365 days per year. The electric rate is \$0.23 per kilowatt hour. Both motors pump the same amount of water daily, but the yearly savings using the two-speed motor is almost 22% or \$289.63.

Design Type	High Speed Amps (3450 rpm)	Daily High Speed Operation (Hours)*	Low Speed Amps (1725 RPM)	Daily Low Speed Operation (Hours)	Total Daily Hours of Operation	kWh per Day	kWh per Year	Cost per kWh	Annual Cost to Operate (\$)	Savings
Single Speed	11.5	6	0	0	6	15.87	5793	0.23	\$1,332.29	
Two Speed	11.0	2	4.0	8	10	12.42	4533		\$1,042.66	\$289.63



A.O.SMITH
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