

INTRODUCING A NEW MOTOR THAT WILL MAXIMIZE ENERGY SAVINGS



imPower™

The pool industry's efficient solution.

INSTALL AN imPower™ PUMP MOTOR..

Maximize efficiency with imPower

Because of its axial flux brushless-DC, permanent-magnet design, the imPower motor is inherently more efficient than a conventional induction motor. The axial flux motor uses significantly less material and is lighter and more compact compared to a typical induction motor. An advanced electronic control allows the power to be easily controlled while maintaining a high efficiency level. The control allows the motor to operate at lower speeds, leading to a significant energy saving.

- Lower noise – virtually silent during filtering
- Increased reliability – Totally Enclosed Fan Cooled (TEFC) construction with high strength bearing system
- Low weight – 14lbs lighter than Marathon C1245 induction motor
- High efficiency over entire speed range (~80%@1.25 HP)



Permanent-magnets make imPower highly efficient across a wide speed range.

Simple, intuitive three-speed operation

imPower is designed to run at one of three speeds making it ideal for pumping applications. The affinity laws of hydraulics state that if you halve the speed of a motor, the power is reduced by a factor of eight. The lower speeds offered by imPower allows a pump to filter at a lower speed allowing a homeowner to take advantage of energy savings. The homeowner will continue to have the ability to run the motor at high speed for cleaning cycles or water features.

The speed control requires no electronic or programming knowledge, with the three speeds being preset at the factory. Just plug the motor in to a single speed timer, allowing it to operate at the low speed default setting after a brief priming cycle. Subsequent speed selections can be made using the buttons on the integrated topside interface. Alternatively, the imPower can also vary speeds automatically when connected to a two speed timer or via digital inputs from a variety of third party system controllers.

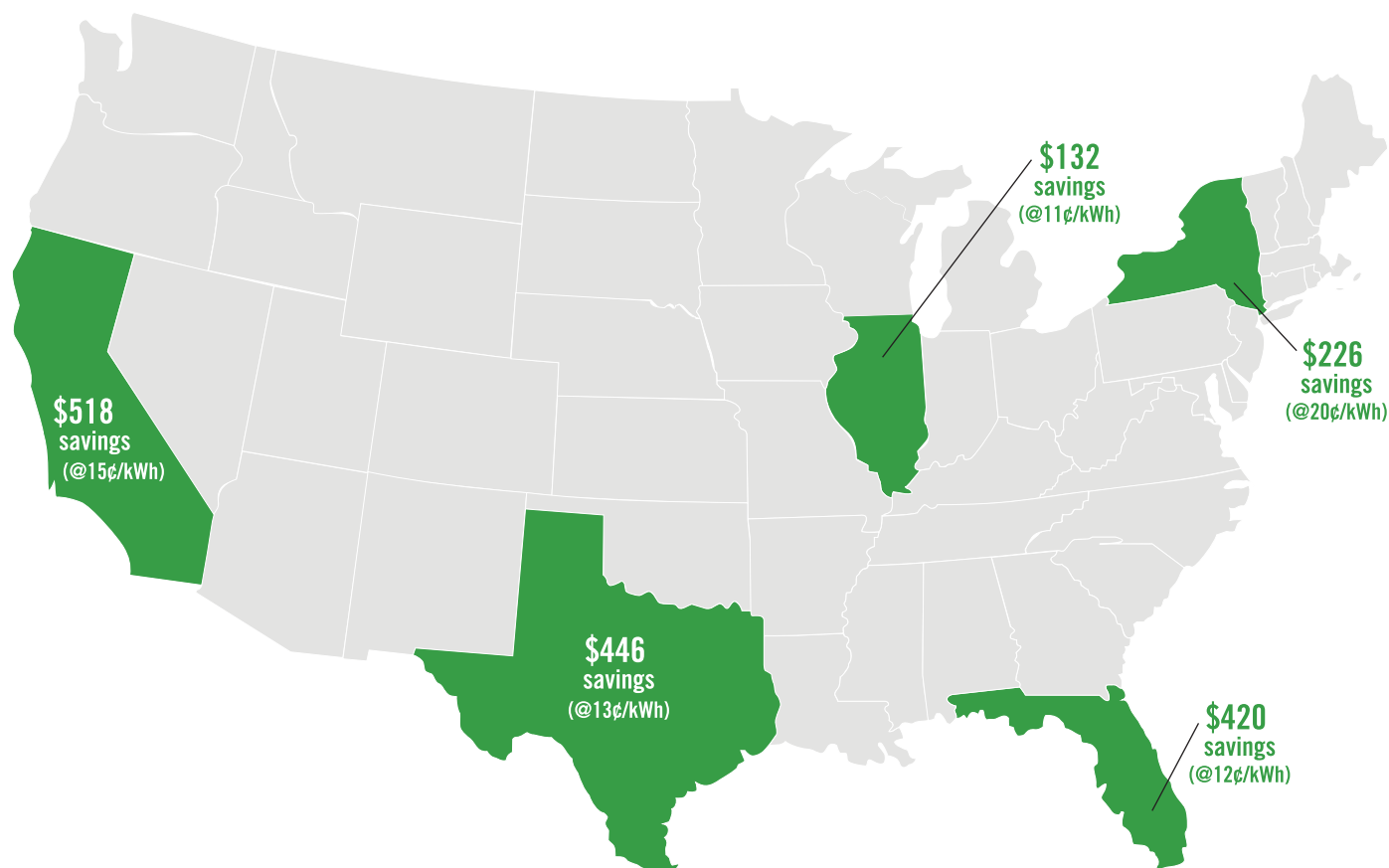


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AND SAVE BIG ON YOUR ENERGY BILL.

Energy saving possibilities

The following map illustrates achievable savings when replacing an equivalent induction motor with an imPower motor. The map assumes running both an induction motor and an imPower motor for 10 total hours per day. The induction motor runs at 10 hours per day on high speed versus the imPower motor running at 2 hours per day on high speed and 8 hours per day on low speed. The annual savings shown assumes a 12 month pool season for California, Texas, and Florida and a 4 month pool season for Illinois and New York.



Ease of installation

The imPower motor is designed to be a drop-in replacement for an induction motor. Here are three easy ways the imPower can be installed:

- 1) Directly to a power source and controlled by the homeowner/user selecting the speed using one of the three buttons on top.
- 2) Directly to an Intermatic timer (either 1 or 2 speed) which is set by a pool professional. If imPower is connected to a 1 speed timer, the motor will be turned on or off. If imPower is connected to a 2 speed timer, the motor can change speeds and be turned on or off.
- 3) Directly to a third party system controller which is set by a pool professional. The system controller is an electronic system which communicates to imPower using low voltage DC signals. The imPower motor will respond to the programs set by a pool professional.

Technical specifications

Output Power (max): 1.25 HP (3/4 HP full-rate or 1.0 HP up-rate)

Available Speeds: 3450, 2600, 1725 RPM

Voltage: 230V \pm 10%

Bearing System: Locked Ball Bearing

Motor Technology: Axial Flux Permanent-Magnet Brushless DC

Power Electronics: Integrated

Size: 10.8" Length x 5.5" Diameter Over Fins

TEFC Construction

Model	Pump Weight	Motor Weight	Total (lbs.)
Jandy ePump	24	42	65
Pentair Intelliflo	13	29	42
Marathon C1245	n/a	25	25
Marathon imPower	n/a	11	11

Weight Comparison Chart



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