



*Reasons why  
**affinity**<sup>®</sup>  
motor/control  
should be your  
number one choice:*

- › Brushless Permanent Magnet Energy Efficient Product
- › Built-In Programmable User Interface with Timer
- › Easy Drop-In Installation-No Complex Wiring
- › Compliant with Pool Motor Energy Legislation
- › Designed for Quiet Operation
- › Freeze Sensor
- › Retrofits Most Pump Ratings Up to 3.5HP
- › TEFC Construction
- › Low Amp Design
- › Controller Enclosed to Protect Against Environmental Conditions
- › Retrofits to Existing Pump End and Pool Hydraulic System—No Re-Plumbing Involved

**Nidec**  
All for dreams

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VARIABLE SPEED POOL PUMP MOTOR & CONTROL

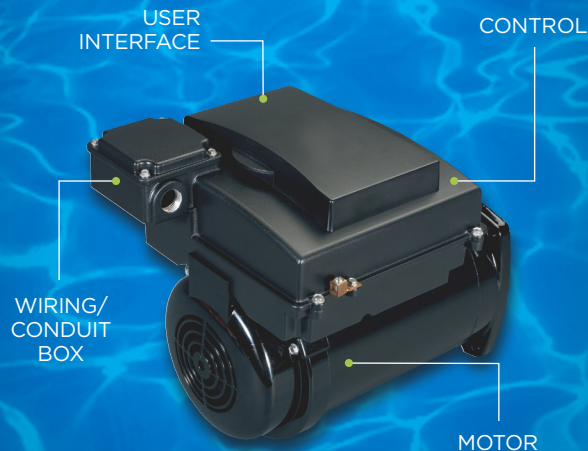
**affinity**<sup>®</sup>

Programmable Variable Speed  
Motor and Control



## About the Affinity® Motor/Control

The Affinity motor/control is a programmable, high efficiency pool pump motor designed to be an easy, drop-in field replacement that can be wired with minimal or no modifications. System control changes are not required.



## Energy Saving

Increased demand on the power grid, rising energy costs and environmental concerns have prompted many states to enact legislation requiring the use of more energy efficient pool motor products.

Unlike the traditional pool pump motor, the energy saving, easily programmable Affinity motor/control can reach efficiency levels of up to 90 percent and help reduce energy costs! Its brushless permanent magnet motor, control and user interface all work together to provide an efficient, easy-to-use alternative to existing induction motors. And, with an approximate one-year payback (depending on energy costs in your area) and continued savings throughout the life of the motor, Affinity motor/control is an excellent choice.

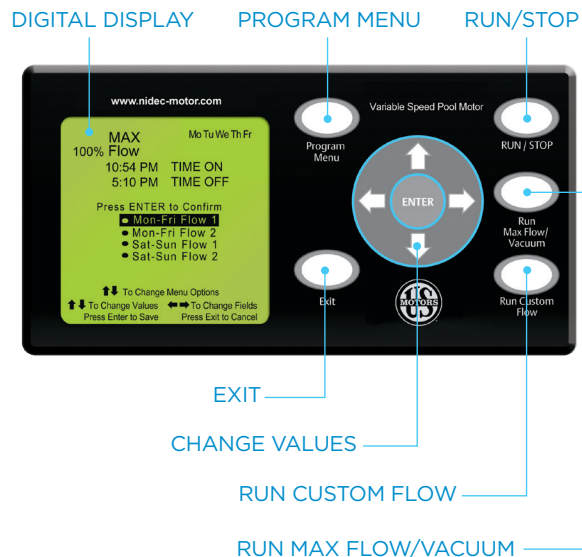
## Quick Installation

Affinity® motor/control uses a top-down visible terminal board with quick connect or screw head connections. Installation is easy. Simply bring in the two power leads to the terminal board and then attach the ground lead to the green ground screw located near the terminal board.

The Affinity motor/control comes in two sizes: First one, fits most pump ratings up to 3.0 HP (3.5 THP). Second one, fits most pump ratings up to 1.5 HP (2.4 THP).

## Easy to Program

Each Affinity motor/control is factory programmed for out-of-the-box functionality, or can be re-programmed for 2-3 different flow rates per day. In addition, by using the integrated User Interface, the motor can be programmed for up to four "custom flows" to run water features, cleaning spa jets and other pool features or accessories.



## Rugged Construction for Longer Life

Affinity® motor/control is a Totally Enclosed Fan Cooled (TEFC) motor. TEFC construction adds an important line of defense against motor failure because there are no ventilation openings. This design helps prevent the intrusion of rain, dust, bugs, rodents and other contaminants into the motor. The controller is mounted in an enclosure to help prevent damage from foreign contaminants.

## Freeze Sensor

The Affinity motor/control includes a freeze sensor mounted inside the control. If the control is enabled (on), the sensor will detect temperatures below 40 degrees Fahrenheit and run the motor on low speed 30 minutes on and 30 minutes off until the temperature rises above 40 degrees F.

## Designed for Quiet Operation

Because Affinity motor/control employs no switching mechanisms, motor noise is minimal, especially when the motor is programmed for low flow rates. The ability to program the Affinity motor/control for lower speed operation increases the efficiency of the pool's filtration process and minimizes the motor noise and the hydraulic sounds created by the pump.

## EZ-Comm™

The interface adapter marries the Affinity with the homeowners pool automation control system, giving the control system command over the Affinity Variable Speed Motor. The Affinity Variable Speed Motor comes standard with a RS-485 port and the interface adapter can be purchased separately.

**affinity®**  
Variable Speed Motor/Control