

NEPTUNE®

Variable Speed Pool Pump Motor



Product Overview

One does not need to replace the entire pool pump to gain all the energy savings associated with variable speed. Upgrade any pool by installing the Neptune® Variable Speed Pool Pump Motor. The Neptune line is a totally enclosed finned aluminum product which provides greater environmental protection than open drip proof motors which can lead to a longer field life. This professional-grade product has a premium efficient design that can help reduce utility expenses associated with operating a swimming pool pump by up to 80% when utilizing the preprogrammed settings on the onboard user interface.

- Fully Compliant with Title 20 CEC requirements, Title 21 New York Regulation, and the proposed DOE Rule
- Premium efficient Brushless Permanent Magnet (BPM) motor

- Totally Enclosed Fan Cooled (TEFC) finned aluminum motor enclosure shields electrical components from moisture and debris
- Preprogrammed variable speed drive and on-board user interface – no complex wiring required
- Easy to install, direct replacement motor for any square flange or 56J mount pump motor -- no plumbing work required if keeping the current pump
- Dual Voltage 1.65 THP products
- Right-size your variable speed replacement motor to the existing pump with 1.65THP, 2.25THP, 2.70THP and 3.45THP products available



Product Features

- Capable of running at low speed setting resulting in ultra-quiet performance
- Finned aluminum frame provides an IPX5 rated enclosure for the electrical components which helps prevent moisture and debris ingress
- Simple top-down power connection wiring area
- Low voltage connections to pool control systems
- Active power factor correction reduces line current requirements to the motor
- GFCI compatible
- Premium powder coating paint to provide a long-lasting finish
- Total Horsepower (THP) Rated simplifies the process of finding the correct replacement motor
- UL1081 approvable, UL60730-1 approved, & CE conformance
- Intuitive & easy to operate user interface
- Built-in real-time clock with battery backup to ensure time settings are saved during most power outages
- Factory programmed for out-of-the-box energy savings functionality. Just set the time of day
- Up to seven program schedules per day allow for maximum functionality each day
- One touch Clean button which runs the motor at full speed, 3450 RPM, for 30 minutes to help quickly clean the pool
- Fully adjustable priming speed and priming time
- Low temperature monitor with adjustable settings
- Menu keypad lockout feature prevents tampering with optimized programming schedules
- On board auxiliary load relay for use with external pool accessory chlorine generator, pool heater, of pool cleaner
- Able to integrate with time clocks
- Able to connect with major pool automation systems



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Neptune Specs

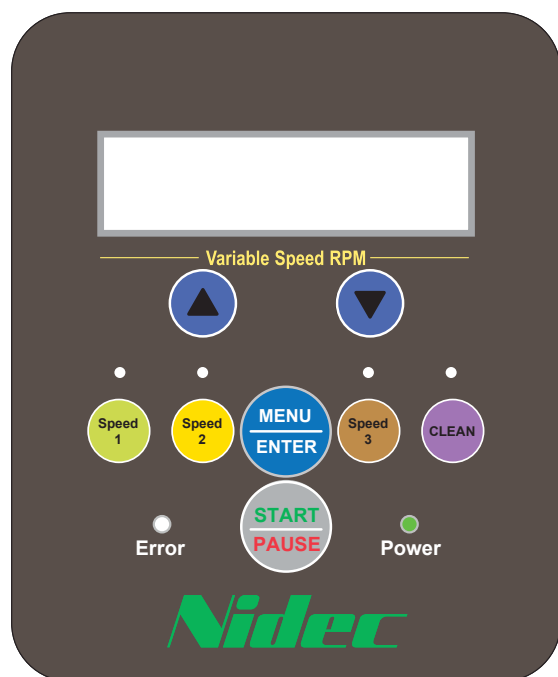
PREMIUM EFFICIENT, VARIABLE SPEED, SQUARE FLANGE, CATEGORY “S”

THP	RPM	Voltage	Freq	SF Amps	Efficiency	Power Factor Corrected	Catalog Number	Motor Frame	Length Less Shaft	Wgt.
1.65	600-3450	230/115	50/60	6.8/13.6	81%	Yes	NPTQ165	48Y	10.98	30
2.25	600-3450	230	50/60	9.5	81%	Yes	NPTQ225	48Y	10.98	35
2.7	600-3450	230	50/60	11.1	81%	Yes	NPTQ270	48Y	10.98	35
3.45	600-3450	230	50/60	11.1	85%	Yes	NPTQ345	48Y	10.98	37

PREMIUM EFFICIENT, VARIABLE SPEED, 56J MOUNTING, CATEGORY “J”

THP	RPM	Voltage	Freq	SF Amps	Efficiency	Power Factor Corrected	Catalog Number	Motor Frame	Length Less Shaft	Wgt.
1.65	600-3450	230/115	50/60	6.8/13.6	81%	Yes	NPTT165	56J	10.01	30
2.25	600-3450	230	50/60	9.5	81%	Yes	NPTT225	56J	10.01	35
2.7	600-3450	230	50/60	11.1	81%	Yes	NPTT270	56J	10.01	35
3.45	600-3450	230	50/60	11.1	85%	Yes	NPTT345	56J	10.01	37

Neptune Option User Interface



Simple & Intuitive Neptune User Interface

- Up to Seven On/Off Time & Speed schedules available. Preprogrammed with Three energy savings schedules.
- One-touch speed settings closely tie to the Proposed 2021 DOE Rule speed settings: Speed 1 = 1350 RPM, Speed 2 = 1725 RM & Speed 3 = 2760 RPM
- One-touch Clean button which runs the motor at 3450 RPM for 30 minutes
- Up and Down arrows allow for navigation through menu options and allow for one-touch +/- 10 RPM speed changes for fine tuning flow rates
- LCD screen displays three sets of data:
 - Time of Day with Present Speed
 - Present Operation and time remaining in this operation
 - Estimated power being consumed

For additional information, please refer to our Pool & Spa Motors Catalog or contact your Nidec Motor Corporation representative.

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www.usmotors.com/pool-spa
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