

# IntelliFlo® VS-3050

Intelligent Variable Speed Pump  
By Pentair Pool Products®



*A monumental breakthrough in energy efficiency,  
extended service life and silent operation*



# Reduce energy use up to 90% and save hundreds per year



Traditional pool pumps are notorious energy hogs. In fact, it's not unusual for a pump to consume as much energy as all other home appliances combined...often more than \$100 per month in areas with the highest energy rates. Fortunately, there is the IntelliFlo® vs-3050 variable speed pump, a breakthrough innovation that's brimming with new technology to drastically reduce energy costs and provide many other benefits as well.

## Two Key Technology Innovations Drive Sensational Energy Savings

There are two reasons why IntelliFlo vs-3050 is able to slash energy use.

- First, IntelliFlo uses an exclusive permanent magnet motor (used in hybrid cars), a fundamentally more energy efficient design compared to traditional induction motors.
- Next, IntelliFlo includes a variable speed capability, along with digital controls and proprietary software that allow custom programming of optimum pump speeds for specific tasks—filtering, heating, cleaning, spa jets, waterfalls, etc. For virtually all applications, the optimum speed will be lower than the preset, unchangeable speeds of older pumps. Using slower speeds takes advantage of a fundamental pump law: by going slower, power consumption is reduced. The result is up to 90% in savings compared to even so-called high efficiency single-speed and two-speed pumps.



## Other Advances Add More Value

**Colossal energy savings is reason enough to install an IntelliFlo vs-3050 as fast as possible. But, there's more to this innovation story.**



- **The quietest pump on the planet:** Thanks to its permanent magnet motor; totally enclosed fan cooled (TEFC) design, and the fact that it runs at a lower speed, IntelliFlo is also the quietest pump ever built. At typical speeds you can barely notice it's operating.

- **Longer life further increases return on your investment:** IntelliFlo's permanent magnet motor produces far less heat and vibration than traditional induction motors. This not only results in less stress and wear on pump components, but on other equipment, too. Also, built-in diagnostics protect IntelliFlo vs-3050 from the most common causes of premature pump failure—overheating, freezing and voltage irregularities. This results in dramatically longer life and an even greater return on your investment.
- **As your poolscape changes, so will IntelliFlo:** With IntelliFlo you can add equipment and features, or change them, without reducing pump performance and efficiency. Add a solar system or water feature or change your filter. Just push a button to set the new, optimum speed to operate at the lowest energy use. Your savings are maintained even as your pool system changes.



- **Unique ability to manage water features:** Finally, consider IntelliFlo's unique ability to alter the performance of your water features. Want to add height to deck jets or fountains? Want to increase the water flow to waterfalls or a vanishing edge? Just increase or decrease pump speed with the touch of a button to adjust on demand. You manage the sights and sounds of your backyard retreat while driving energy costs down to new lows.



As you can see, IntelliFlo vs-3050 combines a number of technology innovations to slash utility costs and maximize service life, while assuring the most tranquil pool environment. When you invest in IntelliFlo today, you'll be rewarded for a lifetime.



Four function buttons to set speeds for filtration cycles, spas, water features and more

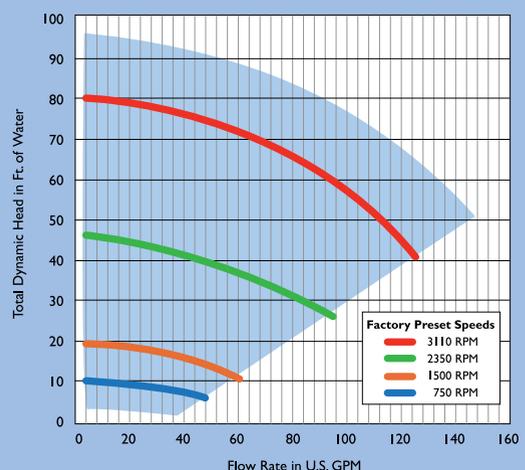
Speed adjustment buttons – you or your pool professional dial in the most efficient speed for each application

Alarm Status light – a sequence of blinks alerts you of conditions that may need attention

## So sophisticated, it's simple

Programming IntelliFlo vs-3050 is as easy as setting the stations on your car radio. With the pump running, simply press one of the four speed buttons to switch to the desired speed (factory settings are 750, 1500, 2350 and 3110 RPM). Then, just press the “up” or “down” button to increase or decrease the speed setting between 400 RPMs and 3450 RPM. It's that simple to optimize water flow for any application. Of course, your pool professional can make a simple calculation to determine the perfect speed settings. And remember, as you change or add equipment and features, speed settings can be quickly adjusted to ensure the lowest amount of energy is consumed.

## Pump Performance Curves



NOTE: The chart above demonstrates performance rates at factory preset speeds of 750 RPM, 1500 RPM, 2350 RPM and 3110 RPM. However, flow rates can also be custom programmed between the ranges of 400 RPM and 3450 RPM as indicated by the blue tint.

# Savings Specifics



Since the cost to operate your pool pump isn't itemized on your electric bill, you're probably wondering just how much an IntelliFlo could save. Here are realistic estimates when comparing a traditional energy efficient (EE), single-speed pump to IntelliFlo in a 20,000 gallon pool. Savings are calculated using 6 and 12 hours of operation, which represent common run times.



- At \$0.15/kwh estimated savings range from \$620 to \$1,360\* per year.
- At \$0.20/kwh estimated savings range from \$825 to \$1,810\* per year.
- At \$0.30/kwh estimated savings range from \$1,240 to \$2,710\* per year.

\*Savings may vary based on plumbing size and length, pump model, service factor and other hydraulic factors. However, as you can see, the savings with IntelliFlo can be dramatic and the return on investment almost immediate. Over the long life of the pump your savings can reach thousands of dollars.

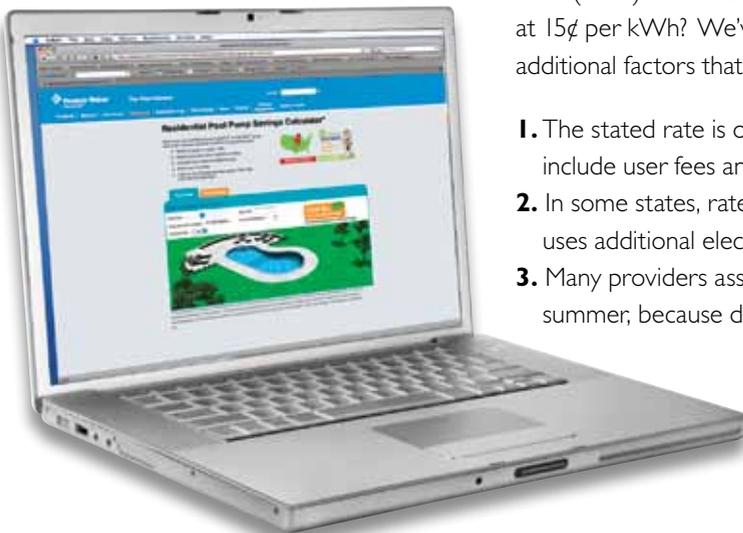
## Estimate Your Savings Online

If these comparisons don't match up with your local electric rates or pool size, you can estimate your savings online at [www.pentairpool.com/calculators](http://www.pentairpool.com/calculators). Just click on our Pool Pump Energy Savings Calculator.

### A note about utility rates

Posted rates and effective rates are not the same thing. Your base posted electricity rate may be 10¢ per kilowatt hour (kWh) or less. So why are we starting our calculations at 15¢ per kWh? We've taken into account the many additional factors that make your effective rate higher:

1. The stated rate is only for electricity used. It does not include user fees and taxes that vary by state and provider.
2. In some states, rates increase substantially as a consumer uses additional electricity beyond a set baseline.
3. Many providers assess a surcharge per kWh during the summer, because demand for electricity is higher.



# Automate with Pentair Water Pool and Spa® Control Systems

For even greater convenience with push-button simplicity

Combine an IntelliTouch®, EasyTouch® or SunTouch® control system with your IntelliFlo® vs-3050 pump to further enhance pool equipment performance and operating convenience. Now you can automate and adjust the sights and sounds of your water features while controlling the operation of all scheduled routines: filtration, cleaning, pool and landscape lights, spa operation, heating and more...with the push of a button. No need to memorize operating sequences, open and close valves, or reset time clocks and thermostats. It's all done for you automatically.

Plus, for the ultimate in convenience, indoor, spa-side and wireless remote control devices are also available. And now, new ScreenLogic® software is available to allow control access from your iPad®, iPhone® or iPod touch®\*.

NOTE: IntelliFlo vs-3050 pump has been designed to operate specifically with Pentair Water Pool and Spa® control systems. To integrate IntelliFlo vs-3050 with other manufacturers' controllers, an IntelliComm® or IntelliComm® II control must be purchased separately and installed properly. See owner's manual for details.

\*iPad®, iPhone® and iPod touch® are registered trademarks of Apple Inc.



## An Eco Select™ Brand Product

The Eco Select™ brand identifies our "greenest" and most efficient equipment choices. These products save energy, conserve water, eliminate noise, or otherwise contribute to a more environmentally responsible equipment system.



As the global leader in pool and spa equipment manufacturing, we strive to provide greener choices to our customers. We hope you'll join us in embracing more eco-friendly poolscapes by choosing Eco Select branded products for your swimming pool.

## Start Saving Today

Visit [www.pentairpool.com/calculators](http://www.pentairpool.com/calculators) and try our Pool Pump Energy Savings Calculator to determine how much you can save with IntelliFlo vs-3050. See your pool professional about this and other innovative and efficient products from Pentair Water Pool and Spa.



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