

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 from 30% 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. Fortunately, there is IntelliFlo® vs-3050, 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) in place of a traditional induction motor: Permanent magnet motors are fundamentally more energy efficient and typically account for "base energy savings" of 30%.
- 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 pre-set, unchangeable speeds of older pumps. Using slower speeds takes advantage of a fundamental pump law: by going slower, power consumption is reduced. In fact, when pump speeds are reduced by half, energy consumption is just one-eighth of what was previously used. The result is additional savings...potentially up to 90% compared to even so-called high efficiency single-speed, two-speed and multi-speed pumps.



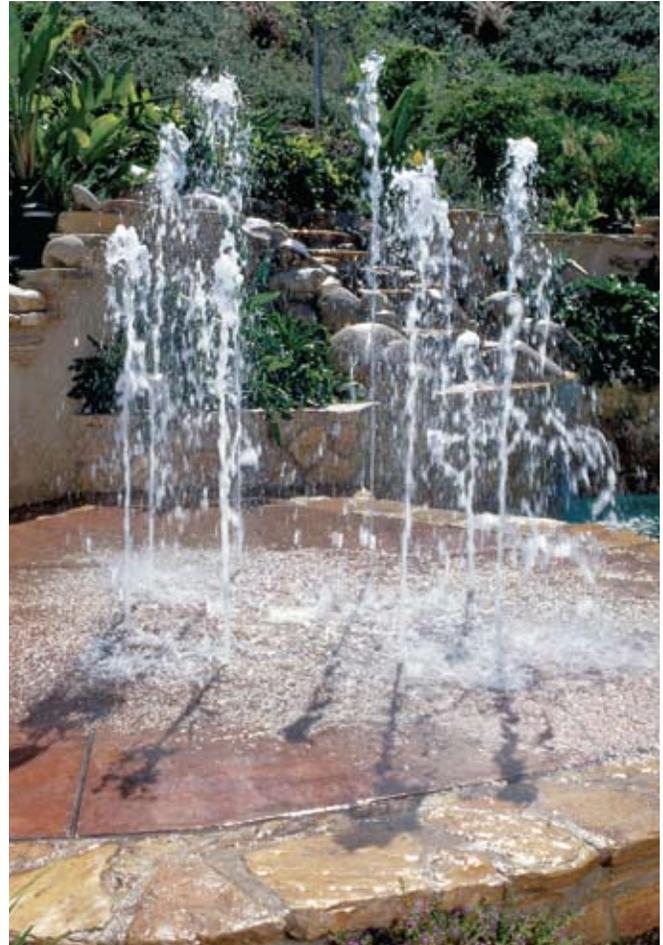
Other Advances Add More Value

Colossal energy savings is enough reason 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 and the fact that it is a totally enclosed fan cooled (TEFC) design, 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. The result is you can expect 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.



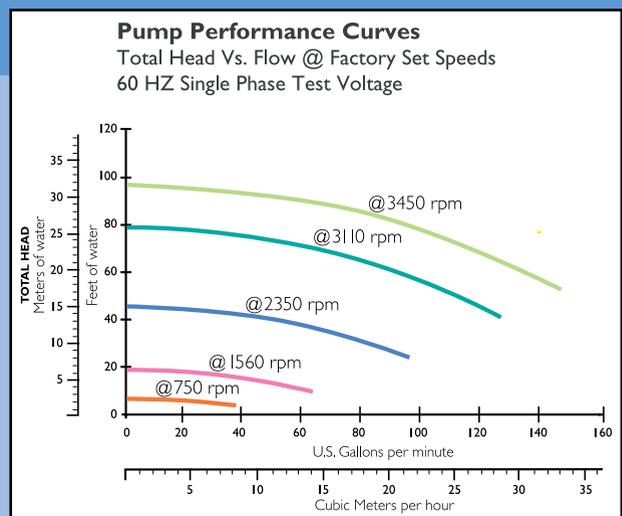
Four function buttons to set speeds for filtration cycles, spas, water features, and more

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 RPMs). Then, just press the “up” or “down” button to increase or decrease the speed setting between 400 RPMs and 3450 RPMs. 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.



How much is a 30% to 90% reduction worth to you?



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. Just click on our Pool Pump Energy Savings Calculator.

Pentair Water POOL PUMP ENERGY SAVINGS CALCULATOR

Discover just how much you can save in utility costs by switching from an energy-efficient (EE) pump to an IntelliFlo™ intelligent variable-speed pump. In the calculator below, choose:

1. Your pool size
2. Dollars per kilowatt hour (D/KWH) you pay for electricity
3. Horsepower (HP) of comparison pump
4. Hours each day a comparison pump would run

Then look below to see just how much you'll **SAVE!**

Enter Pool Size and Electric Rate

Enter Pool Size: Inset Utility Rate in Dollars per Kilowatt per Hour:

Source of your pool size* (30,000, 40,000, 50,000, 60,000, 70,000, 80,000, 90,000, 100,000)

Selected Energy Efficient (EE) Comparison Pump and Hours of Operation

Pump Horsepower: Hours/Day:

Energy Costs for Comparison Pump

Hourly	Monthly	Yearly	\$/Year
<i>Energy Consumption Based on Existing Operating Conditions</i>			
10	3.02	\$11.39	\$4108.04
<i>Energy Consumption Based on Minimum Suggested 1 Turn/Day</i>			
0.3	1	\$3.77	\$1376.20

Energy Costs for IntelliFlo or IntelliPro Pump

Hourly	Monthly	Yearly	\$/Year
<i>Energy Consumption Based on Minimum Suggested 1 Turn/Day</i>			
10	1	\$3.94	\$1426

ENERGY SAVINGS WITH INTELLIFLO OR INTELLIPRO PUMPS

	Hourly	Yearly	\$/Year
Savings based on comparative pump and hours of operation you selected		\$10.45	\$3861.75
Savings based on comparative pump you selected at suggested minimum of single turn per day		\$2.83	\$1031.80

*Calculator is based on system having an 80 foot of total head using an energy-efficient (EE) 1 HP pool pump. Savings is based on 30% flow rate gain.

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 Control Systems

For even greater convenience with push-button simplicity

Combine an IntelliTouch®, EasyTouch® or SunTouch® control system with your IntelliFlo® vs 3050 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.

An Eco Select™ Choice

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 products for your swimming pool.



Visit www.pentairpool.com and use our Pool Pump Energy Savings Calculator to determine how much you will save on utility costs by switching to IntelliFlo vs-3050.

Then call your pool professional to learn more about how the innovative, efficient, and reliable products and accessories of Pentair Water Pool and Spa® can make your pool experience more enjoyable than ever before.



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