



INTELLIFLO® VS+SVRS



INTELLIFLO® VS+SVRS ULTRA ENERGY EFFICIENT PUMP

The most valuable and responsible addition to any pool



pentairpool.com



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.



A MONUMENTAL ADVANCE IN ENERGY EFFICIENCY, SAFETY, SERVICE LIFE AND SILENT OPERATION



The IntelliFlo® vs+svrs Variable Speed Pump is the revolutionary way to reduce energy costs and provide the safest possible pool environment. This “intelligent” pump can cut the pool portion of utility bills up to 90%*, saving you hundreds of dollars per year and thousands over its life. On the safety front, this pump features a built-in Safety Vacuum Release System (SVRS) that senses drain blockage and automatically shuts the pump off to provide an important layer of protection against entrapment.

THE COSTLY DRAWBACKS OF TRADITIONAL PUMPS

Traditional pool pumps have offered a limited number of single-speed and two-speed designs. Their motor speeds are set and unchangeable. These set speeds are almost always higher than required, thereby overpowering the jobs they are assigned to do, which wastes energy. What’s more, these pumps rely on induction motors that are notorious energy hogs. In fact, even so-called “energy-efficient” pumps can cost more to operate than almost all other home appliances combined. Pump-related electric costs typically total hundreds of dollars per year—and often more than \$1,000 in areas with the highest energy rates.

With all this in mind, turn the page to learn about a revolutionary change in pump technology...and discover the most valuable and responsible addition you can make to your pool.

ENERGY STAR® Certified IntelliFlo vs+svrs pumps from Pentair meet strict energy efficiency criteria set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. These pumps save money, reduce energy use and protect the environment.



THE SAVINGS STORY

The IntelliFlo® vs+svrs Variable Speed Pump features an exclusive blend of technology innovations that enables you to slash pump-related utility costs by up to 90%*, saving hundreds of dollars each year... and thousands over the entire life of this revolutionary pump.

settings at your command. For virtually all applications, the optimum speed will be lower than the preset, unchangeable speed of older pumps. You exploit a fundamental pump law—slow down the pump and power consumption is reduced. A good analogy is your car: you get much better gas mileage at 30 mph than 90 mph.

The result of these combined innovations is a pump that often uses just a fraction of the horsepower of standard pumps, reducing energy use dramatically. This tremendous improvement in efficiency translates directly into impressive savings.

- **Advanced motor technology.** IntelliFlo pumps are the first to use exclusive permanent magnet motor technology (used in hybrid cars), a fundamentally more energy-efficient design compared to traditional induction motors.
- **Onboard intelligence with variable drive.** IntelliFlo pumps also include 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. There are eight individual, adjustable speed



SAVINGS SPECIFICS

Here are realistic estimates of annual savings when comparing a traditional energy-efficient (EE) single-speed, 2-horsepower pump to an IntelliFlo pump in a 20,000 gallon pool. Savings are calculated using a common run time of 12 hours.

- **At \$0.16/kWh estimated savings of up to \$1,500* per year.**
- **At \$0.20/kWh estimated savings of up to \$1,800* per year.**
- **At \$0.30/kWh estimated savings of up to \$2,700* per year.**

*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors.



ESTIMATE YOUR SAVINGS ONLINE

Estimate your savings based on the size of your pool, your current pump (or one you're considering), and local utility rates at www.pentairpool.com/pumpcalc.

AN IMPORTANT NOTE ABOUT UTILITY RATES

Posted rates and effective rates are not the same. Your base electric rate may be 10¢ per kilowatt hour (kWh) or less, but the true effective rate is much higher, since you must also take into account:

1. Added user fees and taxes (vary by state and provider).
2. In some states, rates increase substantially as a consumer uses additional electricity beyond a set baseline.
3. Many assess a surcharge per kWh during the summer when demand is higher.



SO SOPHISTICATED, IT'S SIMPLE

Programming the IntelliFlo pump is as easy as setting the stations on your car radio. With the pump running, simply press the speed button assigned to the operation you want to manage. Then, just press the "up" or "down" button to increase or decrease the speed setting between 1100 RPM and 3450 RPM. It's that simple to optimize water flow for any application.

Of course, your pool professional can help you 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.

Safety lock-out feature (password protected) prevents settings from being changed by anyone but you

Display indicates when SVRS mode is activated

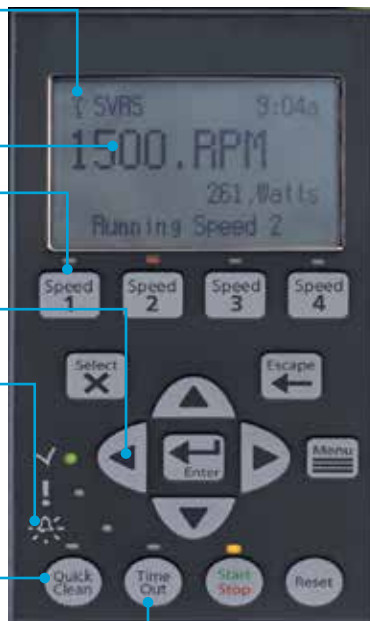
Function buttons to set speeds for separate operations—filtration cycles, spas, cleaners, water features and more

Arrow buttons used to navigate through menus and change settings

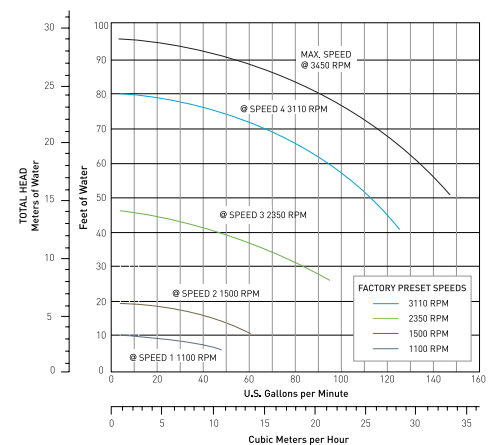
Alarm Status light alerts you of conditions that may need attention (messages appear on LED display)

Quick Clean button is used to start filter backwashing or vacuum cycles—at the optimum flow required

Time Out button allows you to interrupt programmed schedules, as needed, for a period you specify—schedules automatically resume after the "time out" period ends



Performance Curves



THE SAFETY MESSAGE

The IntelliFlo®^{VS+SVRS} Variable Speed Pump is the first pump with an integrated [Safety Vacuum Release System \(SVRS\)](#) which provides an important layer of entrapment protection. Its built-in controller and proprietary software detect blockage of the drain and automatically shut the pump off. The IntelliFlo pump meets ASME A112.19.17.2002 standards, thereby complying with new Federal legislation related to public pools (Virginia Graeme Baker Pool Safety Act), as well as a growing number of state and local statutes/codes for residential pools where entrapment protection measures are required.

OTHER INNOVATIVE FEATURES INCLUDE:

- Ability to set minimum and maximum speeds—the IntelliFlo pump will only operate within the ranges you set to help assure safer operation and long equipment life.
- Unlike other devices, the built-in SVRS protection with the IntelliFlo pump cannot be turned off.
- Password protected—security features prevent unauthorized personnel from changing the settings.
- For added safety, if the SVRS becomes disabled, the pump will not run.
- No SVRS calibration is required.

Clearly, the efficiency improvements with the IntelliFlo pump are revolutionary. Now add the layer of swimmer protection provided with an integrated Safety Vacuum Release System, and you know why the IntelliFlo^{VS+SVRS} pump is the most valuable and responsible addition you can make to your pool.



MORE REVOLUTIONARY PERFORMANCE ADVANTAGES

The quietest pool pump on the planet.

The exclusive permanent magnet motor so critical for energy savings is also a totally enclosed fan cooled (TEFC) design. This combination, along with running at a slower speed, is responsible for the IntelliFlo pump being the quietest pump you can install. At typical speeds you can barely hear it operating.

Longer life for faster, greater return on investment. The IntelliFlo pump's advanced motor produces far less heat and vibration than a traditional induction motor. This means less stress and wear on pump components. It also eases the strain on other equipment. The IntelliFlo pump also features built-in diagnostics that protect it from the most common causes of premature pump failure—loss of prime, overheating, freezing and voltage irregularities. This results in dramatically longer life and an even greater return on your investment.

Enhance performance of water quality systems.

By running at slower speeds for longer periods, the IntelliFlo pump makes other good things happen. It helps reduce algae formation when water is allowed to rest for long periods. It makes your filter more effective because it has more time to strip particles from water, plus small particles aren't forced through the filter media. Automatic chemical dispensers and chlorinators are more effective when water keeps moving, too.

As your poolscape changes, so will the IntelliFlo pump. With the IntelliFlo pump you can add equipment and features, or change them, without reducing pump performance and efficiency. Add a solar system, 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 or expands.

Ability to manage water features.

The IntelliFlo pump also gives you the ability to alter the performance of your water features. Add height to deck jets or fountains. Increase or decrease the flow to waterfalls or a vanishing edge. No other pump allows you to adjust these features on demand to change the sights and sounds of your poolscape with the push of a button.



ADDING IT ALL UP

With the revolutionary IntelliFlo pump you get:

- Dramatic energy cost savings potential.
- Better performance of water quality systems.
- Important layer of swimmer safety with integrated Safety Vacuum Release System.
- The ability to maintain energy cost savings as equipment and accessories change.
- Extraordinary pump life for even greater value.
- The quietest pool pump you can buy.

COMBINE YOUR INTELLIFLO[®] VS+SVRS VARIABLE SPEED PUMP WITH A PENTAIR CONTROL SYSTEM FOR EVEN GREATER CONVENIENCE



Combine an IntelliTouch[®], EasyTouch[®] or SunTouch[®] Control System with your IntelliFlo 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[®] Interface software is available to allow control access from your iPad[®], iPhone[®] or iPod touch[®] mobile digital device or Android[™] device.

NOTE: The IntelliFlo pump has been designed to operate specifically with Pentair control systems. To integrate the IntelliFlo pump with other manufacturers' controllers, an IntelliComm[®] II Controller must be purchased separately and installed properly.

See owner's manual for details.

START SAVING TODAY!

Visit www.pentairpool.com/pumpcalc and try our Pool Pump Energy Savings Calculator to determine how much you can save with an IntelliFlo pump. See your pool professional about this and other innovative and efficient products from Pentair.

AN ECO SELECT[®] BRAND PRODUCT

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 pools by choosing Eco Select branded products for your swimming pool.



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