

IntelliFlo® VS+SVRS

Intelligent Variable Speed Pump
By Pentair Pool Products®



*The most valuable
and responsible
addition to any pool*





A monumental



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.

advance in **energy efficiency,**
safety, service life and silent operation



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.



The Savings Story



IntelliFlo VS+SVRS 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.

- **Exclusive, 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 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 you can cut energy use dramatically. A good analogy is your car: you get much better mileage at 30 mph than 90 mph.

The result of these combined innovations is a pump that uses just a small fraction of the horsepower of a standard pump and just a fraction of the energy...about the same as an ordinary 100-watt light bulb. This tremendous improvement in efficiency translates directly into impressive savings.

Savings Specifics

Here are realistic estimates of annual savings when comparing a traditional energy-efficient (EE) single-speed, 2-horsepower pump to IntelliFlo in a 20,000 gallon pool. Savings are calculated using common run times of 6 and 12 hours.

- **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

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. Just click on our Pool Pump Energy Savings Calculator.

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.



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

Display indicator SVRS mode is activated.



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

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

So sophisticated, it's simple

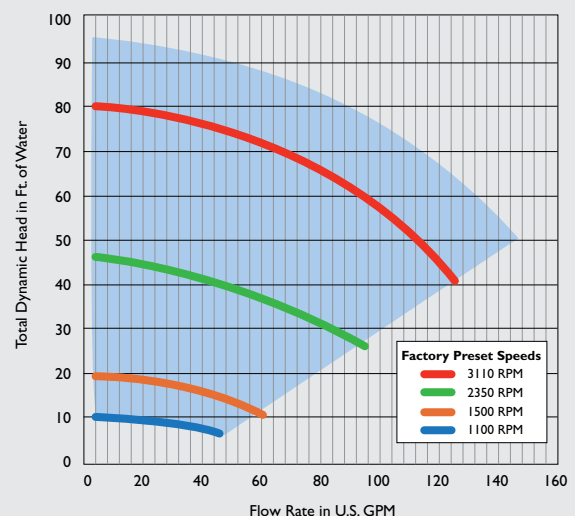
Programming IntelliFlo *vs+svrs* is as easy as setting the stations on your car radio. With the pump running, simply press the speed button assigned to the operation you want to manage. Then, just press the “up” or “down” button to increase or decrease the speed setting between 1100 RPM and 3450 RPM. 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.

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.

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.

Pump Performance Curves*



*NOTE: The chart above demonstrates performance rates at factory preset speeds of 1100 RPM, 1500 RPM, 2350 RPM and 3110 RPM. However, flow rates can also be custom programmed between the ranges of 1100 RPM and 3450 RPM as indicated by the blue tint.

The Safety Message

IntelliFlo $VS+SVRS$ 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. IntelliFlo $VS+SVRS$ 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 exclusive features include:

- Ability to set minimum and maximum speeds—IntelliFlo will only operate within the ranges you set to help assure safe operation and long equipment life.
- Unlike other devices, the built-in SVRS protection with IntelliFlo cannot be turned off.
- Safety lock-out feature (password-protected) prevents pump speed settings from being changed by anyone but you.
- For added safety, if the SVRS becomes disabled, the pump will not run.
- No SVRS calibration is required.

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



More Unique 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 is responsible for IntelliFlo being the quietest pump you can install. At typical speeds you can barely hear it operating.

Longer life for faster, greater return on investment. IntelliFlo pumps' 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. IntelliFlo 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. Combined, these features extend service life to further increase your return on investment.



Enhance performance of water quality systems. By running at slower speeds for longer periods, IntelliFlo *vs+svrs* 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 IntelliFlo. With IntelliFlo *vs+svrs* 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 or expands.

Unique ability to manage water features. IntelliFlo also gives you the unique 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 *vs+svrs* you get:

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



Combine your IntelliFlo pump with a Pentair Control System for even greater convenience

Combine an IntelliTouch®, EasyTouch® or SunTouch® control system with your IntelliFlo® VS+SVRS variable speed 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.



NOTE: IntelliFlo VS+SVRS pump has been designed to operate specifically with Pentair control systems. To integrate IntelliFlo VS+SVRS with other manufacturers' controllers, an IntelliComm® control must be purchased separately and installed properly. See owner's manual for details.

Visit www.pentairpool.com and use our Pool Pump Energy Savings Calculator to estimate how much you can save on utility costs by switching to IntelliFlo VS+SVRS.

Then call your pool professional to learn more about how the innovative, efficient, and reliable products and accessories from Pentair Pool Products® can make your pool experience more enjoyable than ever before. Also ask about all our Eco Select™ branded products—the most environmentally responsible choices available.

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