

IntelliPro[®] VS+SVRS

Intelligent Variable Speed Pump
by Sta-Rite



*A monumental
advance in energy
efficiency and safety*





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.



Slash Costs By Hundreds Per Year. Enhance Pool Safety.



Meet the most valuable and responsible addition to your pool. The IntelliPro® vs+svrs Variable Speed Pump is the “intelligent” pump that can cut the pool portion of your utility bills by up to 90%*, saving you hundreds of dollars per year and thousands over its life. This revolutionary pump also 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. This is the revolutionary way to reduce energy costs and meet the desire for the safest possible pool.

Traditional Pumps Are Notorious Energy Hogs

Traditional pool pumps offer 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 renowned energy wasters.

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, read on to learn about a revolutionary change in pump technology.

ENERGY STAR® Certified IntelliPro 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 IntelliPro® 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%*.

- **Exclusive, advanced motor technology.**

IntelliPro 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.**

IntelliPro 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 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.



Savings Specifics

Here are realistic estimates of annual savings when comparing a traditional energy-efficient (EE) single-speed, 2-horsepower pump to an IntelliPro 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.staritepool.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 IntelliPro vs+svrs 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

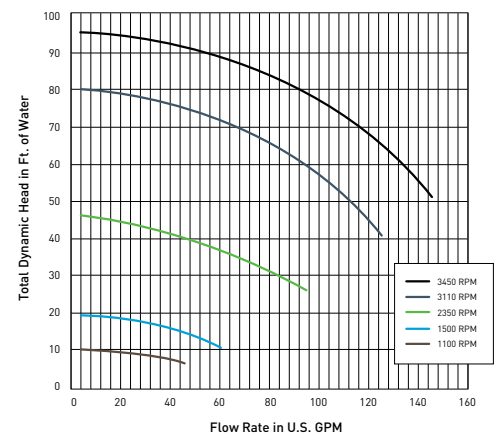
Alarm Status light alerts you of conditions that may need attention (messages appear on LED display)

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



More Superior Performance Advantages

The quietest pool pump available. The exclusive permanent magnet motor so critical for energy savings is also a totally enclosed fan cooled (TEFC) design. This, combined with running at a lower speed, is responsible for the IntelliPro vs+svrs pump being the quietest pump you can install. At typical speeds you can barely hear it operating.

A new standard for service life. The IntelliPro 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 IntelliPro pump also features built-in diagnostics that help protect it from the most common causes of premature pump failure—loss of prime, overheating, freezing and voltage irregularities. These features are engineered to deliver a remarkably long, trouble-free service life and multiply savings over its lifetime.

Maintain efficiency as your equipment changes. Because the IntelliPro pump allows you to change pump speeds, you can add equipment and features or change them without concern about losing your dramatic energy savings. Just push a button to set the new, optimum speed to operate at the lowest energy use.

Vary the sights and sounds of your poolscape. The IntelliPro 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. Just push a button to adjust as you desire.



Adding It All Up

With the revolutionary IntelliPro vs+svrs pump you get:

- Dramatic energy cost savings potential.
- Important layer of swimmer safety with integrated Safety Vacuum Release System.
- Engineered for exceptional service 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.

The IntelliPro vs+svrs pump may sound too good to be true. But, this revolutionary product is already delivering all of these benefits in thousands of pools. And that's why it is, in fact, the single best (and most responsible) investment you can make in your pool.

Add a Pentair Control System for even greater convenience



Combine an IntelliTouch®, EasyTouch® or SunTouch® Control System with your IntelliPro® 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. And now, new ScreenLogic® Interface software is available to allow control access from your iPad®, iPhone® or iPod touch® mobile digital device.

NOTE: The IntelliPro vs+svrs pump has been designed to operate specifically with Pentair control systems. To integrate the IntelliPro vs+svrs 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.staritepool.com/pumpcalc and try our Pool Pump Energy Savings Calculator to determine how much you can save with an IntelliPro vs+svrs pump. See your pool professional about this and other innovative and efficient products from Pentair.



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