

IntelliFlo[®] VF

Intelligent Variable Flow Pump



Simply the most valuable technology innovation in pool equipment history



You'll likely save thousands over the long life of this revolutionary innovation

To say the IntelliFlo® VF is a radically different—and superior—pool pump is a massive understatement. Here's why.

Traditional pool pumps have offered a limited number of single-speed or 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 and wasting energy. What's more, other pumps rely on induction motor technology, which is far less efficient. The result is that pumps are notorious energy hogs that cost hundreds—often more than \$1,000—per year to operate. In fact, in some areas of the country, laws are being passed to prevent future purchases of these “old school” pumps. IntelliFlo VF, by contrast, is sensationally energy efficient. It is the totally automatic, self-setting and self-adjusting, variable speed marvel with a micro-processor that determines and maintains the lowest amount of water flow for maximum performance and minimum energy use. It's also the first to use vastly more efficient permanent magnet motor technology (used in hybrid cars).

Slashing energy use from 30% to 90%

An exclusive blend of technology innovations are behind the monumental energy savings possible with IntelliFlo.

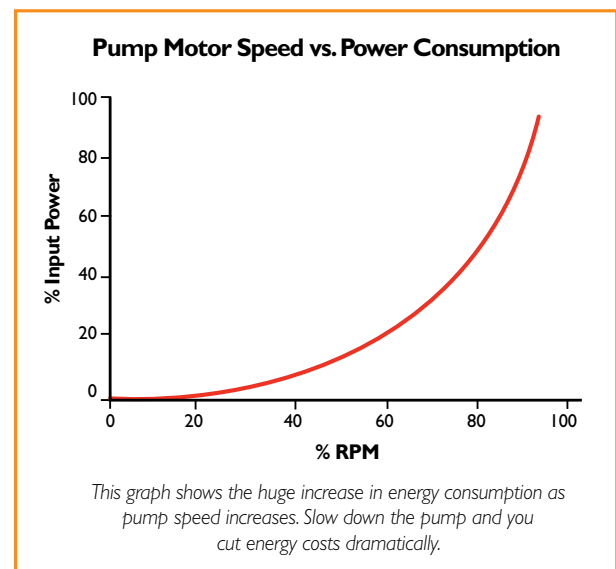
- As the first to use super-efficient permanent magnet motors, IntelliFlo typically reduces energy use by 30% compared to pumps with traditional induction motors.
- IntelliFlo also employs variable drive technology controlled by an onboard computer and sophisticated software to allow pinpoint programming, or totally automatic operation, to achieve and maintain optimum (typically lower) flow rates for further energy savings. IntelliFlo operates at an average of just 1/10th of a horsepower; using about 100 watts of energy...about the same as a light bulb. Exclusive, variable speed capability builds potential savings up to 90%.

The result is dramatically lower electricity expense—typically saving hundreds per year. It's not uncommon for savings to total more than \$1,000 per year—and savings of more than \$2,000 per year have been recorded. Over the multi-year life of IntelliFlo, the savings can be measured in the thousands. And yet, these tremendous savings are only part of the IntelliFlo story.



Why Slower is Better

The surprising secret to minimizing pump energy costs is to operate at the lowest flow rate needed to accomplish a job. It takes far less energy to move water slowly than quickly. Why? Because there's lower resistance in the filter, accessories and plumbing system. Even though a pump will work longer at a lower flow rate, this is far more efficient. In fact, reducing pump motor speed by half actually reduces the power needed to one-eighth of what's consumed at the higher speed. A good analogy is your car: you get much better gas mileage at 30 mph than at 90 mph. The same is true with pool pumps—run slower for efficiency (and many other good reasons, too).





How much is a 30% to 90% energy 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 \$621 to \$1,356 per year.
- At \$0.20/kwh estimated savings range from \$827 to \$1,808 per year.
- At \$0.30/kwh estimated savings range from \$1,241 to \$2,712 per year.

As you can see, the savings with IntelliFlo can be stunning and the return on investment almost immediate. Pool owners can save thousands of dollars over the life of a new IntelliFlo pump. Plus, you can expect dramatically longer service than with older, less efficient designs.

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.

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.

Enjoy a long list of exclusive “byproduct benefits,” too

Beyond achieving massive energy savings, IntelliFlo’s unique combination of technologies creates additional advantages not available with any other pump

Dramatically longer life.

Permanent magnet motors produce far less heat and vibration than traditional induction motors. The result is not only less stress and wear on pump components, but on other equipment, too. IntelliFlo’s motor is also a Totally Enclosed Fan Cooled (TEFC) design that provides exceptional protection from the elements. You can expect dramatically longer life for an even greater return on your investment.


Protects itself and your investment.

IntelliFlo also has built-in diagnostics that detect the most common causes of premature pump failure—loss of prime, overheating, freezing, and voltage irregularities—and corrective action is taken.

Quieter than a whisper.

IntelliFlo’s TEFC motor, combined with the ability to run at low speeds with little vibration, delivers nearly silent operation. It’s simply the quietest pump on the planet.





Enhance performance of water quality systems.

Since optimum pump speeds are typically lower than those pre-set on older pumps, IntelliFlo runs longer in most applications. And when water moves slower for longer periods, good things happen. It helps reduce the occurrence of algae that forms more easily when water is allowed to rest for long periods. It makes your filter more effective, because it has more time to strip particles from the water; plus small particles aren't forced through the filter media under unnecessarily high pressure. Automatic chemical dispensers and chlorinators are also more effective when water keeps moving.

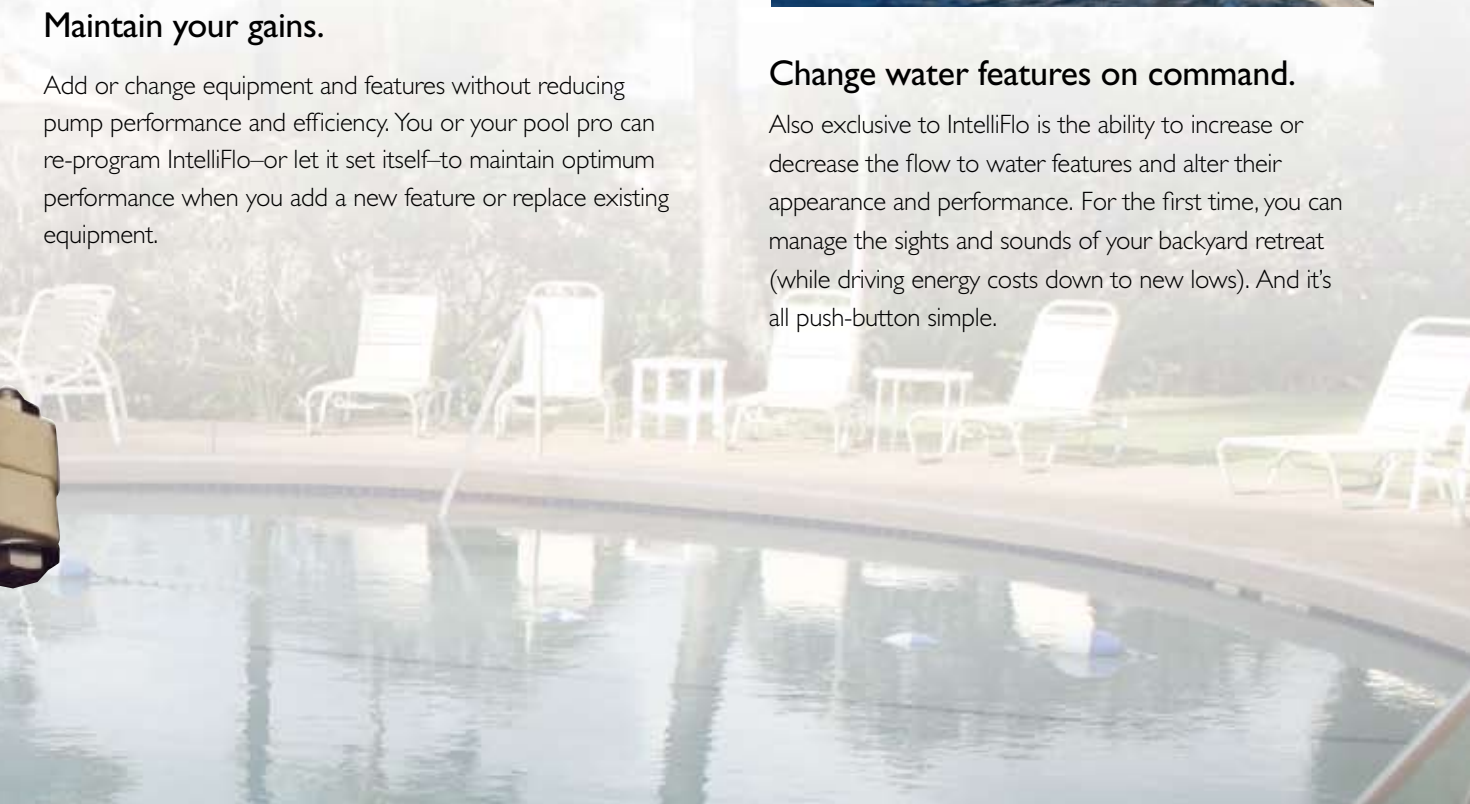
Maintain your gains.

Add or change equipment and features without reducing pump performance and efficiency. You or your pool pro can re-program IntelliFlo—or let it set itself—to maintain optimum performance when you add a new feature or replace existing equipment.



Change water features on command.

Also exclusive to IntelliFlo is the ability to increase or decrease the flow to water features and alter their appearance and performance. For the first time, you can manage the sights and sounds of your backyard retreat (while driving energy costs down to new lows). And it's all push-button simple.



In short, virtually everything works more effectively, with less wear and tear, when IntelliFlo is on the job. The energy savings are massive. Operating noise is virtually eliminated. Service life is dramatically increased. Filters and sanitizers work better. Your water features are adjustable. These are the many reasons why IntelliFlo is, without question, the single most valuable technology innovation in pool equipment history.

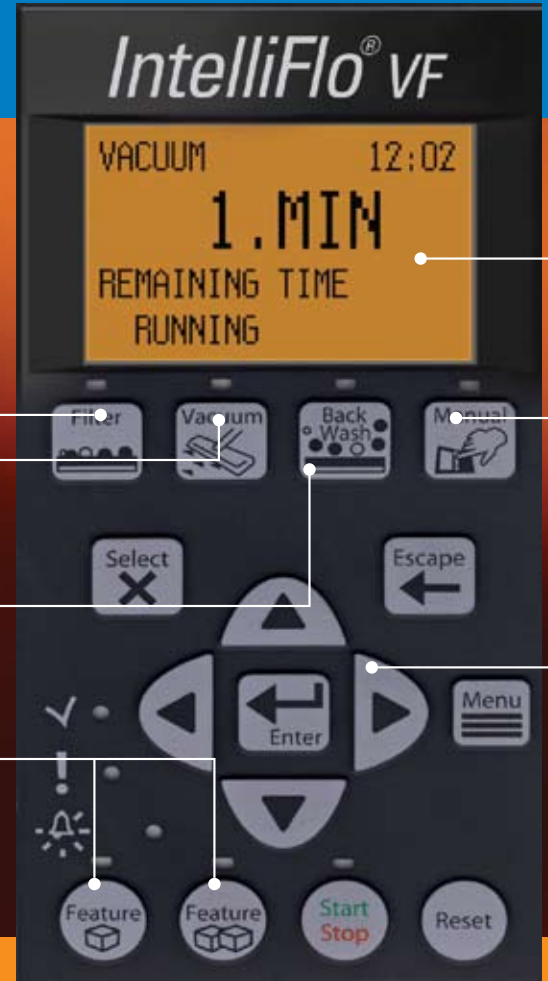
Getting to know IntelliFlo

In Filter Mode, IntelliFlo automatically calculates the required flow rate and controls motor speed to maintain constant flow

Vacuum Mode is used to start cleaning – at the optimum flow – at the push of a button

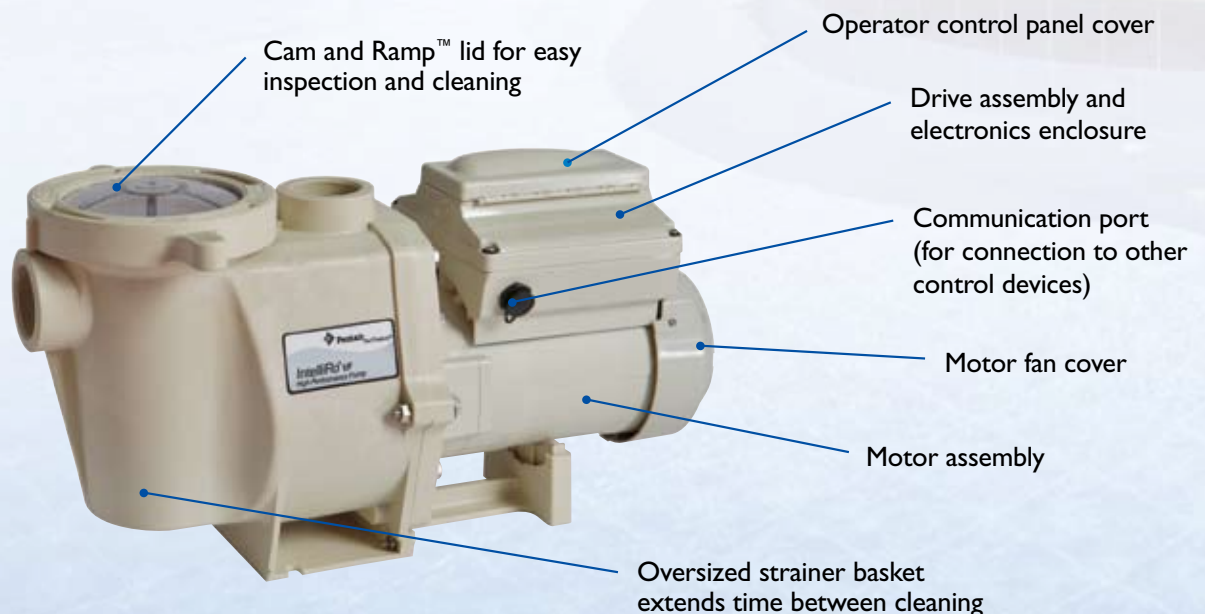
IntelliFlo will tell you when it's time to backwash your filter – then you just push a button

Feature buttons allow for programming specific pump schedules for spas, waterfalls and other water features



For all its technical sophistication, IntelliFlo is as simple to program and operate as an automatic lawn sprinkling system—even simpler if you let IntelliFlo program itself. For most installations, this is a "set it and forget it" proposition. But, remember, this pump adjusts as your systems or conditions change. And yet, for all its refinements, this is one industrial-strength workhorse that's been engineered for extra-long, trouble-free life.

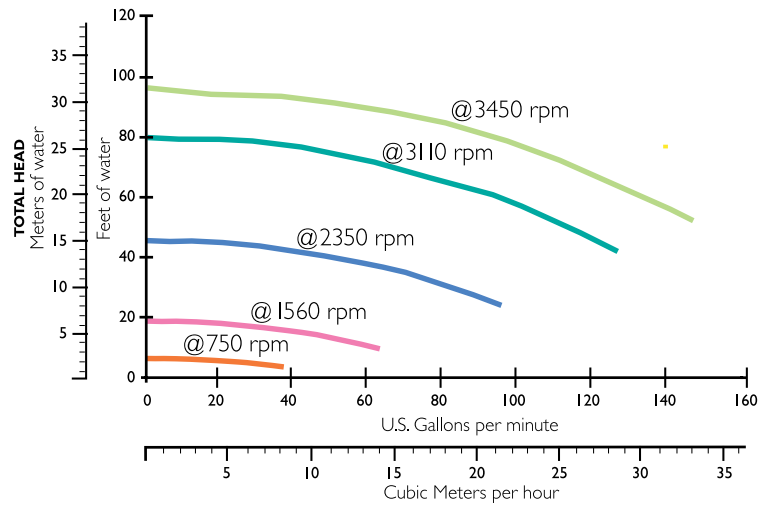
Programming IntelliFlo is push-button fast and easy. Simple menus lead you every step of the way.



- Displays inform you of run time, mode and current status
- Manual mode lets you override programs and run the pump using RPM or flow (GPM) settings you select
- Arrow buttons used to navigate through menus and change settings

Pump Performance Curves

Total Head Vs. Flow @ Factory Set Speeds
60 HZ Single Phase Test Voltage



The Media Agrees: IntelliFlo is Big News

From L.A. to New York, Phoenix to Fort Lauderdale, reporters are giving IntelliFlo pumps high visibility and high marks. To date, hundreds of stories have appeared in newspapers and newscasts around the country. Many reports include pool owner case

studies where the savings estimates have become savings reality. That's not only big news, but good news for any pool owner who wants big savings and is currently overpaying due to the fundamental inefficiency of a traditional pool pump.



Start Saving Today!

Call **1.800.374.4700** for more information.

Automate with IntelliTouch®

Pool and spa control system

Simple, flexible, expandable and truly intelligent

Take the work and worry out of scheduling and operating pool and spa heating, filtration, and cleaning cycles with IntelliTouch. You'll also get one-touch control over valves, pool lights, landscape lights, water features and your IntelliFlo® VF pump. IntelliTouch® is the most capable, yet simplest, automation system on the market today. It can be expanded quickly and economically and offers a host of exclusive features, including optional ScreenLogic® remote control devices with and without internet and e-mail access, video camera support, home lighting support, remote service monitoring, and more. For the ultimate in convenience and poolscape enjoyment, ask your pool professional about IntelliTouch today.



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 poolscape by choosing Eco Select products for your swimming pool.

Install IntelliFlo Today and Be Rewarded for a Lifetime

The most valuable investment you can make for your pool. That's what the pro's say about IntelliFlo. And, with all the byproduct benefits achieved by installing this new technology, many have also said, "Installing an IntelliFlo is an absolute no brainer." Contact your pool professional today to take the first step toward avoiding thousands in unnecessary utility costs while you enjoy a pool that operates more effectively and efficiently in so many other ways as well.

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