

C= CHECK VALVE
 R= POOL RETURN
 F= FILTER
 P= FILTER PUMP
 S= SKIMMER
 V= 2 WAY JANDY VALVE
 T= CHLORINE TAB FEERER

CLEAN & CLEAR® PLUS

CARTRIDGE FILTER

Crystal clear water the easy way.

The Clean & Clear Plus Filter combines top-end filter performance with low maintenance. This dependable design uses special filter elements to strip tiny particles from your pool water, some as small as 20 microns (an average grain of beach sand is 1,000 microns). Our four-cartridge design provides maximum filter surface area to capture more dirt and extend time between cleanings. And cleaning is a snap—open the top, remove the cartridges, hose them off and the Clean & Clear Plus Filter is ready to go again.

We've optimized cartridge surface consistency to block and trap the maximum amount of solids. Plus we use the most durable materials to extend cartridge life. The Clean & Clear Plus Filter delivers commercial-grade performance that keeps pools clean and sparkling, day in and day out.



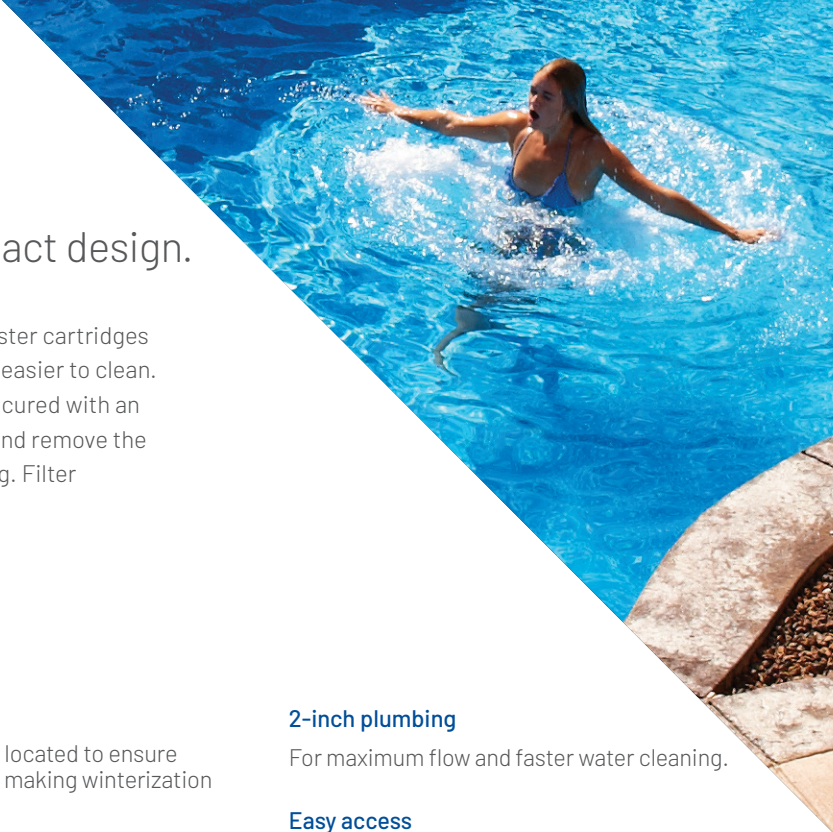
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CLEAN & CLEAR® PLUS CARTRIDGE FILTER

Four cartridges in a compact design.

Clean & Clear Plus Filters contain four polyester cartridges that hold enormous amounts of dirt, yet are easier to clean. The fiberglass-reinforced tank halves are secured with an innovative clamp ring—just loosen the ring and remove the top half for easy cartridge access and rinsing. Filter maintenance doesn't get any easier.



KEY FEATURES

Single-piece base and tank

Constructed of fiberglass-reinforced polypropylene for strength, corrosion resistance and stability for years of dependable service.

Four-cartridge design

Traps more dirt and extends time between cleanings.

1½-inch drain

Easy to access and located to ensure complete draining, making winterization fast and simple.

Internal air bleed

Continuous internal air bleed helps prevent air buildup to keep the filter operating at peak performance.

2-inch plumbing

For maximum flow and faster water cleaning.

Easy access

Clamp ring makes it quick and easy to remove and rinse cartridges and provides access to internal parts to speed service routines.

| Model Number | Filter Area Sq. Ft. | Vertical Clearance* | Filter Diameter | Flow Rate GPM ² Residential | Turnover Capacity-Res. (Gallons) | | |
|---------------------|---------------------|---------------------|-----------------|--|----------------------------------|---------|---------|
| | | | | | 8 hrs. | 10 hrs. | 12 hrs. |
| CCP240 | 240 | 56" | 21.5" | 90 | 43,200 | 54,000 | 64,800 |
| CCP320 ¹ | 320 | 62" | 21.5" | 120 | 57,600 | 72,000 | 86,400 |
| CCP420 ¹ | 420 | 68" | 21.5" | 150 | 72,000 | 90,000 | 108,000 |
| CCP520 ¹ | 520 | 74" | 21.5" | 150 | 72,000 | 90,000 | 108,000 |

¹Certified to NSF/ANSI Standard 50.

²Residential rate .375 GPM per sq. ft. of filter area.



The Clean & Clear Plus Cartridge Filter has earned the Eco Select® brand distinction as one of the greenest and most efficient choices from Pentair.

TRADEGRADE

The TradeGrade family of products is exclusively made for and sold by the world's most demanding pool professionals.

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INTELLIFLO® VSF

VARIABLE SPEED AND FLOW PUMP

Consistent flow control for the highest energy savings and ultimate system performance.



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GOOD THINGS HAPPEN WHEN YOU GO WITH THE FLOW.

The world's first variable speed *and* flow pump that delivers the highest available efficiency and peak performance.

The IntelliFlo® VSF Pump is the first to adjust to changes in flow conditions to maintain its preprogrammed flow rate. So, it runs optimally throughout the entire filtration cycle. It's like having cruise control for your pump.

WEF 6.9 THP 3.95 (011056)



UP TO 90%* ENERGY SAVINGS

Since the IntelliFlo VSF Pump is ultra energy efficient, you can experience increased energy savings, up to 90%, when compared to conventional single- or two-speed pumps.



*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.

TRADEGRADE

THE INTELLIFLO VSF PUMP IS PART OF THE TRADEGRADE FAMILY OF PRODUCTS—EXCLUSIVELY MADE FOR AND SOLD BY THE WORLD'S MOST DEMANDING POOL PROFESSIONALS.

TradeGrade products give consumers the confidence that their pool pro is recommending the very best equipment and providing unmatched expertise for installation, setup and servicing.

CONSISTENT PERFORMANCE BY DESIGN

- Filters get the right amount of flow to maintain water clarity.
- Laminars and water features perform more consistently.
- Equipment efficiency and service life increase.

Up to
90%*
energy savings

POTENTIAL SAVINGS WITH AN INTELLIFLO VSF VARIABLE SPEED AND FLOW PUMP

| Estimated pump savings per year* | Energy cost per kilowatt hour (kWh) | Estimated pump savings after five years |
|----------------------------------|-------------------------------------|---|
| up to \$1,500 | \$0.16 | up to \$7,500 |
| up to \$1,800 | \$0.20 | up to \$9,000 |
| up to \$2,700 | \$0.30 | up to \$13,500 |

ALL AROUND THE POOL, PRECISION PAYS.

ADJUSTS TO YOUR POOL'S UNIQUE NEEDS

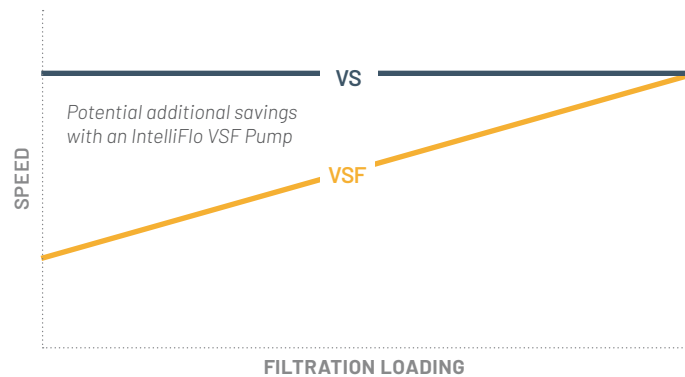
Every pool design is different, and conditions change, such as when filters accumulate debris over time. Other variable speed pumps require guesswork to set, and they don't adjust for flow changes. But, the IntelliFlo® VSF Pump does and always delivers just the right flow.

SET IT AND FORGET IT

Just set the desired flow rate, and the IntelliFlo VSF Pump will adjust as needed to maintain it. It's that simple. There's no more guesswork. Kick back and enjoy your pool while the IntelliFlo VSF Pump supplies consistent flow for peak performance.

ENERGY SAVINGS WITH FLOW CONTROL

Traditional variable speed pumps are set to run faster than needed early in the filtration cycle to compensate for flow reduction later as debris accumulates in the filter. The IntelliFlo VSF Pump adjusts flow throughout the cycle to minimize energy use.



Variable Speed:

RPM set high to maintain minimum flow

Variable Speed and Flow:

Increases speed as needed to maintain preset flow



Sparkling clean water

Always the right flow to maintain daily water turnover for optimum filtration.



Visual perfection

Always the right flow so laminars, waterfalls and negative edges look their best.



More efficient heating

Always the right flow for maximum heater efficiency.

PERFECTING FLOW

By itself or integrated with an automation system, rely on the IntelliFlo VSF Pump to consistently maintain your system's flow requirements, no matter the task.



*Always the right
flow for a better
pool experience
and lower costs.*

IT'S AN INTELLIFLO® PUMP WITH TRUSTED FAMILY TRADITIONS.

Pentair is the first brand to offer speed control and flow control in the same pump. And, the IntelliFlo VSF Pump is the most recent product in a long history of firsts. Innovations include: the first variable speed pool pump, the first variable flow pool pump, Safety Vacuum Release System (SVRS) technology and the first ENERGY STAR® Certified pool pump.



Smart technology for remarkable energy efficiency

Experience exceptional energy savings. IntelliFlo Pumps are installed in more pools worldwide and have saved more money than any other variable speed pump family.



Set it and forget it

The IntelliFlo VSF Pump maintains its set flow rate by responding to changing conditions. It's like cruise control for your pump.



One of the quietest pumps on the planet

When operating at low speed, it's so quiet you might not even know it's operating.



Automation compatible

Pairs seamlessly with Pentair's automation systems for the ultimate in convenient pool control on your schedule from anywhere in the world.



HOW QUIET IS THE
INTELLIFLO VSF PUMP?

Library
30 dB

IntelliFlo VSF Pump
45 dB

Moderate rainfall
50 dB

Dishwasher
60 dB

Single-speed pump**
67 dB

Car traffic
70 dB

Vacuum cleaner
70 dB

Alarm clock
70 dB

Lawnmower
106 dB

Decibels (dB)

**1.5-HP pool pump. Sources: American Speech-Language-Hearing Association, OSHA.

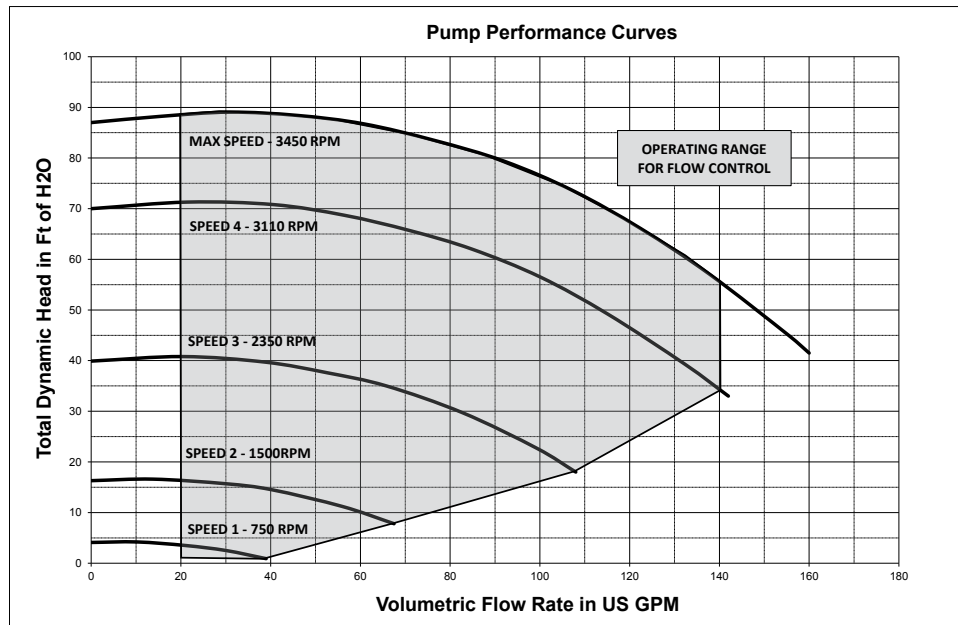
INTELLIFLO® VSF

VARIABLE SPEED AND FLOW PUMP



CONSISTENT FLOW CONTROL FOR THE HIGHEST ENERGY SAVINGS AND ULTIMATE SYSTEM PERFORMANCE.

PERFORMANCE CURVES



The IntelliFlo VSF Variable Speed and Flow Pump has earned the Eco Select® brand distinction as one of the greenest and most efficient choices from Pentair.

TRADEGRADE

The TradeGrade family of products is exclusively made for and sold by the world's most demanding pool professionals.



ENERGY STAR® Certified IntelliFlo VSF 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.

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