

The world's
best pool
pump is also
the greenest.



Rainbow Pool Products

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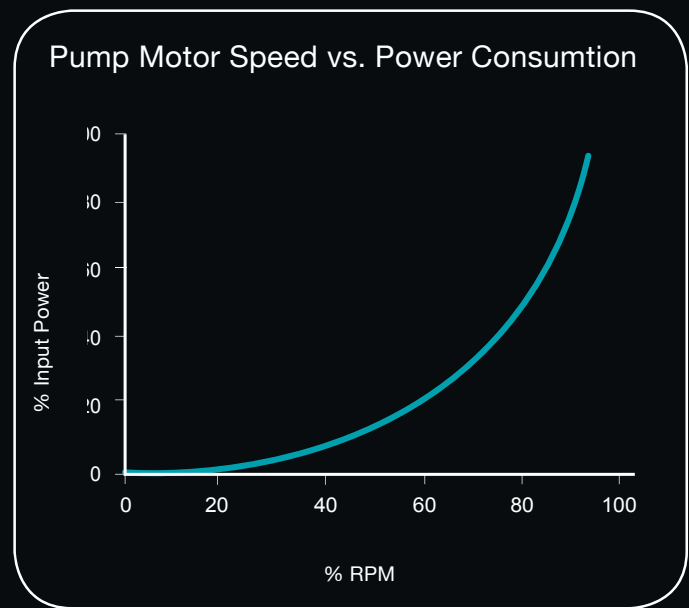
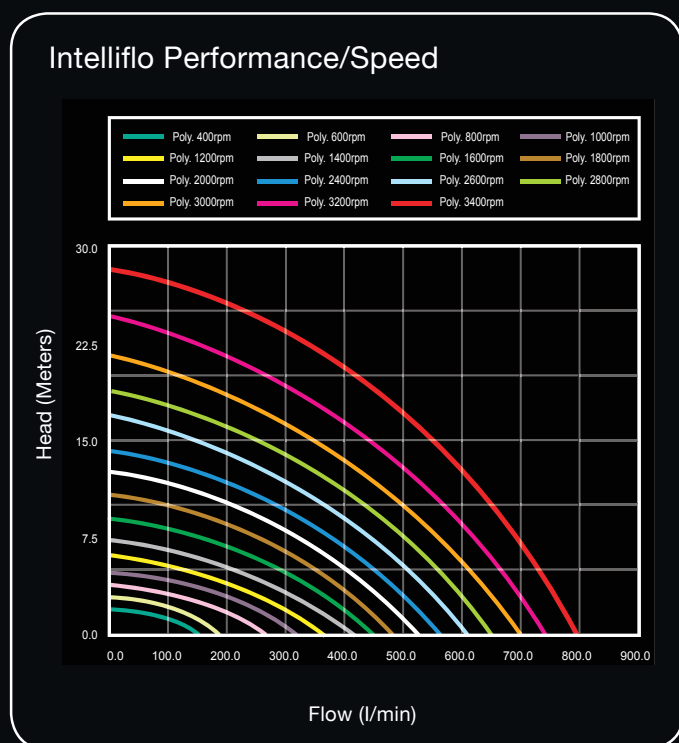
Pentair Water
Pool and Spa®

The IntelliFlo® VF is a radically different and superior pool pump.

Why Slower is Better

The secret to minimising 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, because there's lower resistance in the filter, accessories and plumbing system. So 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. Over the long life of this revolutionary pump you'll save thousands of dollars.

IntelliFlo® VF 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). The result is dramatically lower electricity expense - typically saving hundreds of dollars per year.



Slash Energy Use By 30% - 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.

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 also has a Totally Enclosed Fan Cooled (TEFC) design that provides exceptional protection from the elements. So you can expect dramatically longer life for an even greater return on your investment.

Cam & Ramp™ lid for easy inspection & cleaning

Oper



Communications port
(for connection to other control devices. Stay tuned – you will see these in the near future.)

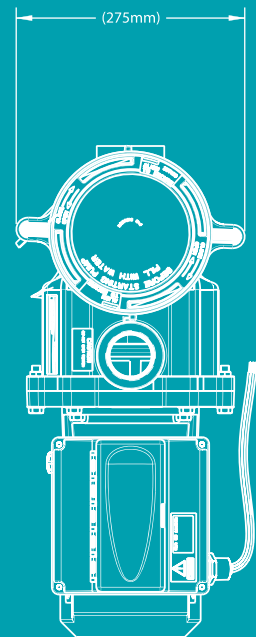
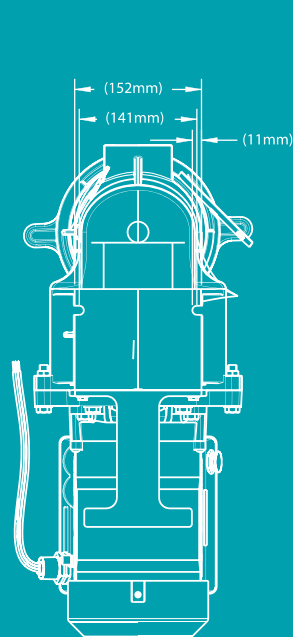
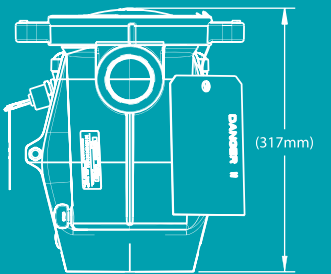
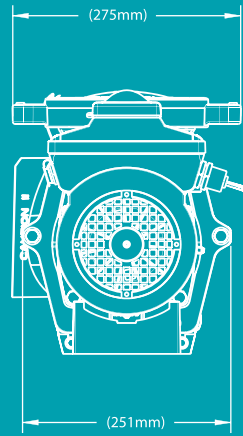
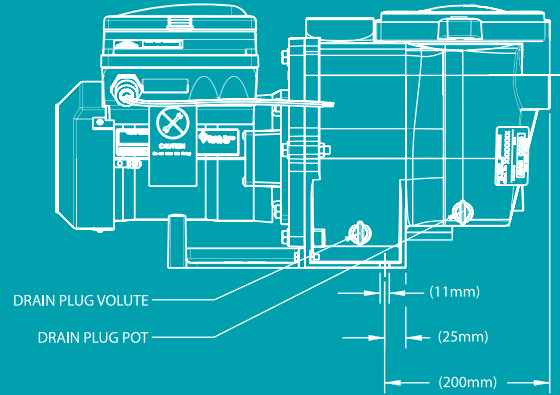
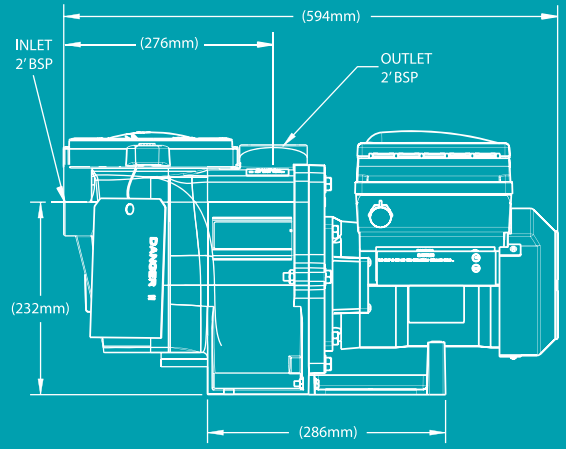
Oversized strainer basket extends time between cleaning

Motor control panel cover

Drive assembly and electronics enclosure

Motor fan cover

Motor assembly



Safe as.

Suction entrapment is a concern for any pool owner. To provide an additional layer of safety along with fencing, multiple suction points and covers, the Onga IntelliFlo® constantly measures flow rate. When it senses a sudden drop in flow rate, it knows that the suction has been blocked. It stops the motor to release the vacuum on whatever has been trapped. Nothing could be safer.

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.

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.

Maintain your gains.

With IntelliFlo® you can 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, even 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.



OPERATING CONDITIONS

Maximum working pressure	345kPa
Maximum water Temperature range	40°C
Ambient Temperature	50°C

Maximum Input Current	16Amp
Input Voltage	230V
Frequency	50-60Hz

MOTOR

Type	Permanent Magnet Synchronous Motor (PMSM) Totally Enclosed Fan Cooled (TEFC) Six-Pole
Speed RPM	High efficiency (3450 RPM 92% and 400 RPM 90%)
Phase	Single phase motor
Sound Pressure Level	7 – 50dBA depending on flow

Output	2.2kW (3 HP)
IP	X5
Bearing Type	6203-ZZ
Bearing Temperature Rating	120°C

SPECIFICATIONS

Component	Material
Pump Casing	40% Glass filled Polypropylene (PP)
Casing O-Ring (housing to Sealplate Seal)	Santoprene
Impeller	30% Glass filled Polypropylene (PPO)
Diffuser	40% Glass filled Polypropylene
Diffuser O-Ring	Buna Nitrile
Yoke	40% Glass filled Polypropylene
Drain Plug	40% Glass filled Polypropylene
Drain Plug O-Ring	Buna Nitrile
Motor Shaft	AISI 304 Stainless Steel
End Shield	Aluminium Alloy EN AB 46100
Basket	Polypropylene
Lid	PVC Clear
Clamp Ring	20% Glass filled Polypropylene
Lid O-Ring	Buna Nitrile 60 Synthetic Rubber
Barrel Union	ABS
Barrel union O-Rring	Nitrile
Mechanical Seal	Stationary Face: CERAMIC Rotating Face: Carbon SPRING: 18-8, S/S Flexible Bellows: Buna-Nitrile
Typical Energy Savings	Up to 90%
Safety Features	Dead Head Sensor Shutoff, Suction Blockage Sensor, Voltage Alerts, Current Alerts, Freeze Protection
Timer	Integral Clock and Timer
Field Wiring	230/240 Volt 60/50 Hertz
Motor	TEFC: Totally Enclosed Fan Cooled TEFM Permanent Magnet 3.2kW
Cord	H07RNF 3G 2.5mm, 1500mm
Material No.	IF3201100



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