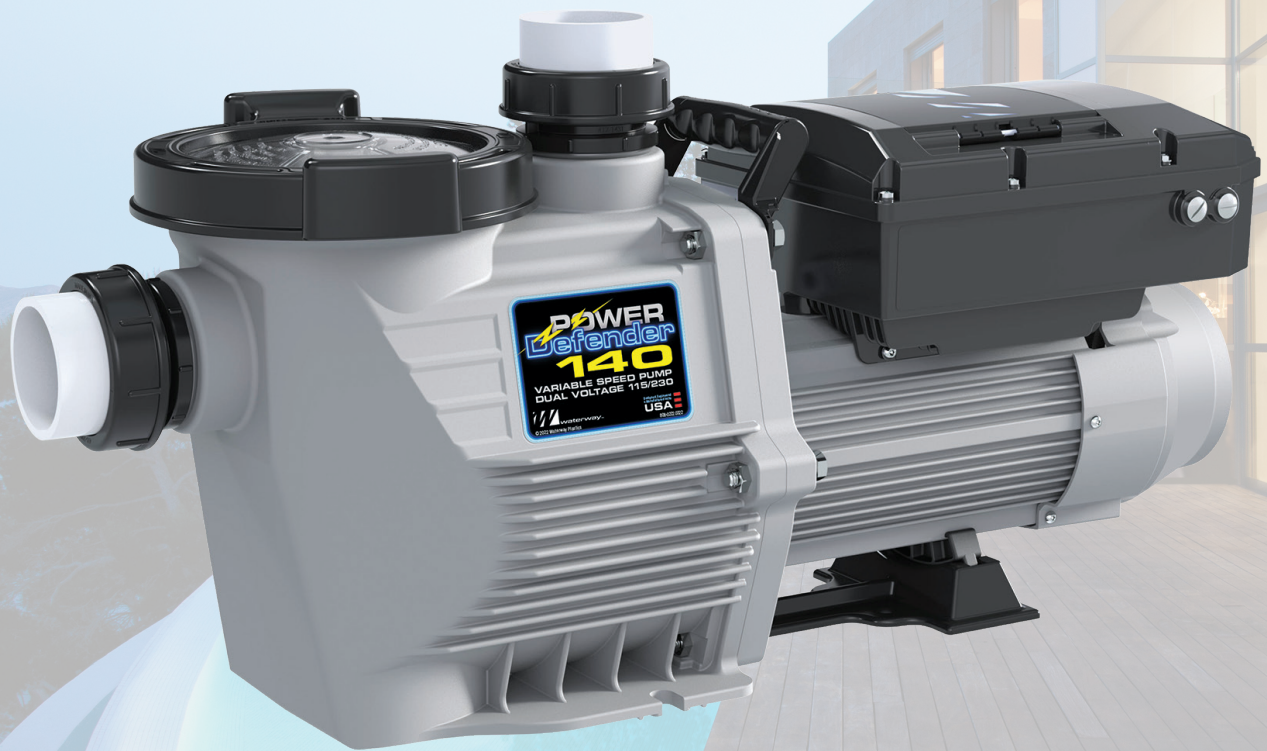




VARIABLE SPEED & D.O.E. COMPLIANT PUMPS



Designed, Engineered
& Manufactured in the
USA



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RULES & REGULATIONS

A new U.S. Department of Energy (DOE) regulations will go into effect on July 19, 2021. Dedicated Purpose Pool Pumps manufactured in or imported into the U.S. with a Hydraulic Horse Power of 2.5 or less (approximately less or equal to 5 HP) must meet the new minimum energy-efficiency standards including but not limited to Weighted Energy Factor (WEF) requirements.*

*Non-compliant pump should not be manufactured or imported after July 18, 2021. However, all pumps available in supply chain as of July 18 (at manufacturer warehouse, distribution, stores,...) can be still distributed, sold, whether they meet the new requirements or not.

Power Defender Variable Speed
Pumps are Energy Star Approved!



3.1

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VARIABLE SPEED PUMPS

Welcome to the Waterway Power Defender Variable Speed Pump Lineup. Our pumps boast maximum efficiency and outstanding performance, at a tremendous value. These American made pumps utilize state of the art energy saving technology, while providing quiet, quality filtration for your pool



SIMPLE SETUP & PROGRAMING:

- Factory Preset Option provides maximum energy savings while saving time at setup
- Fully programmable built-in timer and speed control for up to 7 different programs
- Convenient Quick Start guide located directly on controller lid
- User interface rotates to all four 90 deg positions for ease of access
- Onboard battery backup saves programming during power outages



AUTOMATION COMPATIBILITY:

- Operates seamlessly with Waterway Oasis Control system
- Connects with other leading pool controllers via relay control option



EFFICIENT, PERMANENT MAGNET MOTOR OPERATION:

- DOE and Energy Star compliant & qualifies for local energy rebates, where applicable
- Save up to 90% versus standard, single speed pump operation
- Energy saving low speed filtration dramatically reduces pump noise
- Improved system-wide hydraulics reduce wear on all pool equipment
- Longer filtration cycles produce cleaner water and better distribution of pool chemicals



EASY INSTALL:

- Dual voltage wiring options for 115V or 220V installations
- Built-in handle for easy transport
- Totally Enclosed Fan Cooled (TEFC) finned aluminum motor enclosure shields electrical components from moisture and debris



110

IN-GROUND SINGLE SPEED



PD-110

DESCRIPTION:

- One of the quietest motors in the industry
- 1.10 HP
- Direct drop-in replacement for Super Pump® / SuperFlo®
- 2" CPVC high temp fittings
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

Comes with base for IntelliFlo®



Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-110	4.110

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140

DUAL VOLTAGE IN-GROUND VARIABLE SPEED



PD-140

DESCRIPTION:

- 2" Plumbing
- Automatically Selects 115V / 230V
- 1.40 HP
- Freeze Protection
- Auxiliary Relay Option
- Dual Voltage
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

Comes with base for IntelliFlo®



ALSO AVAILABLE IN ABOVE GROUND

PD-140ABG



Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-140	9.58
PD-140ABG	10.295

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165

DUAL VOLTAGE IN-GROUND VARIABLE SPEED



PD-165

DESCRIPTION:

- 2" Plumbing
- Automatically Selects 115V / 230V
- 1.65 HP
- Freeze Protection
- Auxiliary Relay Option
- Dual Voltage
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

Comes with base for IntelliFlo®



VARIABLE SPEED PUMPS

Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-165	7.796

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225

IN-GROUND VARIABLE SPEED



DESCRIPTION:

- 2" Plumbing
- 2.25 HP
- Freeze Protection
- Auxiliary Relay Option
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

PD-225

Comes with base
for IntelliFlo®



VARIABLE SPEED PUMPS

Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-225	7.46

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270

IN-GROUND VARIABLE SPEED



PD-270

DESCRIPTION:

- 2" Plumbing
- 2.70 HP
- Freeze Protection
- Auxiliary Relay Option
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

Comes with base for IntelliFlo®



VARIABLE SPEED PUMPS

Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-270	7.253

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USA



COMING SOON!

350

IN-GROUND VARIABLE SPEED



PD-350

DESCRIPTION:

- 2" Plumbing
- 3.50 HP
- Freeze Protection
- Auxiliary Relay Option
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

Comes with base
for IntelliFlo®



VARIABLE SPEED PUMPS

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SVL270

IN-GROUND VARIABLE SPEED



PD-270A

DESCRIPTION:

- 2½" Plumbing
- 2.70 HP
- Freeze Protection
- Auxiliary Relay Option
- Silicon Carbide Viton Shaft Seals provide for superior wear and chemical resistance

VARIABLE SPEED PUMPS

Individual Model Number Covered by Basic Model	Weighted Energy Factor (WEF) in kilogallons per kilowatt-hour (kgal/kWh)
PD-270A	7.716

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BOOSTER

IN-GROUND



DESCRIPTION:

- Suitable for all swimming pool pressure cleaners
- Best replacement for any 3/4 HP booster pump
- Comes with a tall, versatile mounting base

3810430-XX

Individual Model Number
Covered by Basic Model

3810430-XX

Weighted Energy Factor (WEF) in
kilogallons per kilowatt-hour (kgal/kWh)

0.502

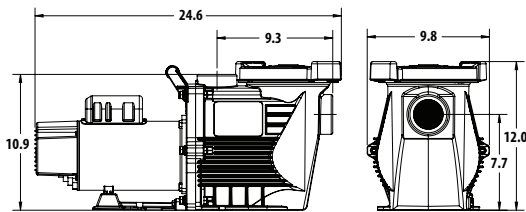
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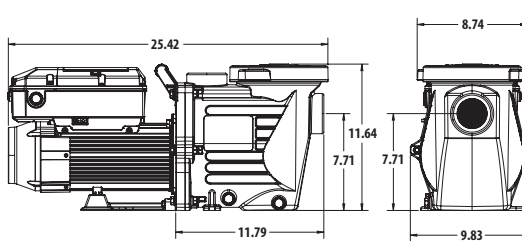


SCHEMATICS & PERFORMANCE CURVES

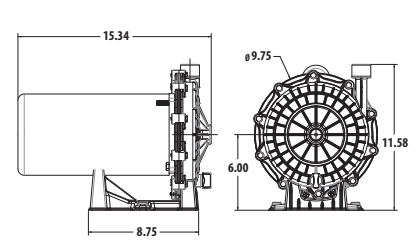
110



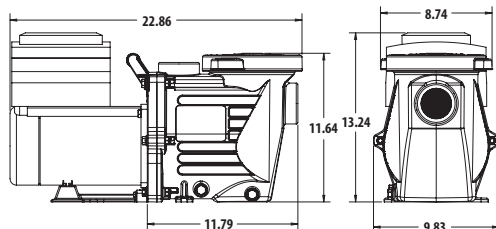
140



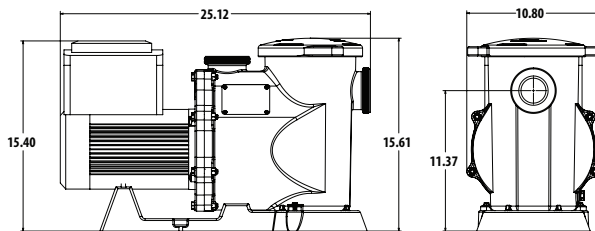
BOOSTER



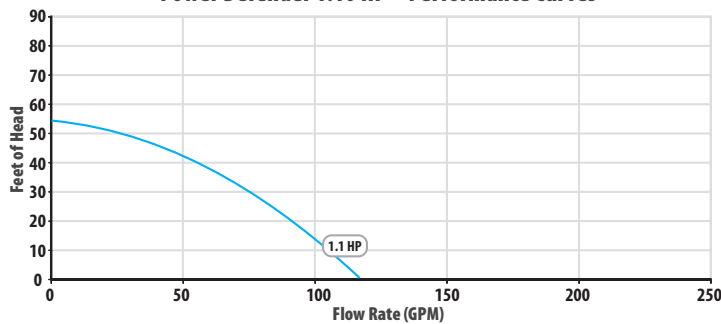
165, 225 & 270



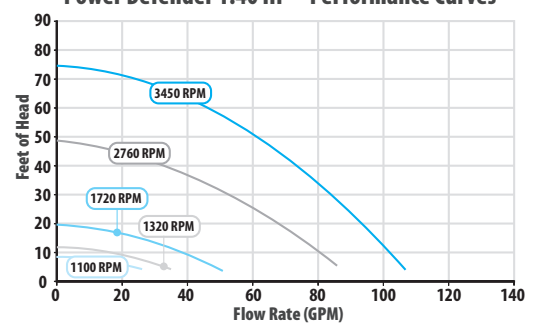
SVL270



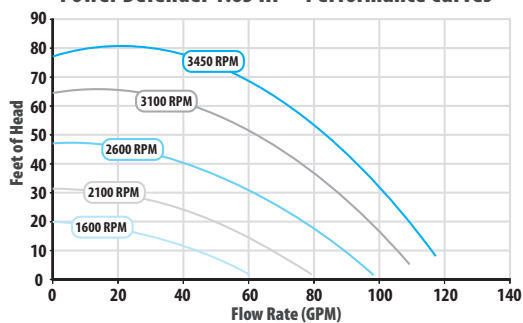
Power Defender 1.10 HP – Performance Curves



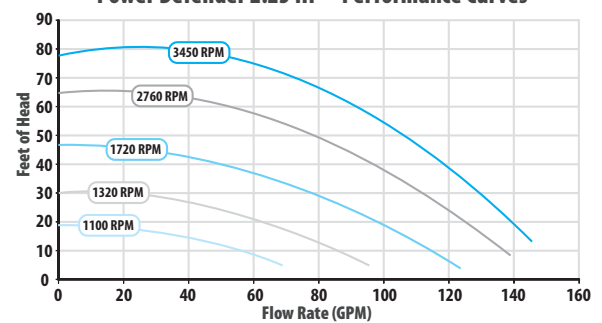
Power Defender 1.40 HP – Performance Curves



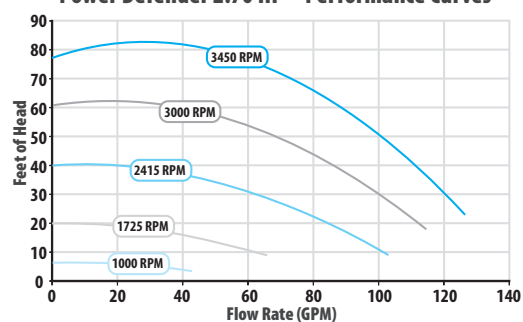
Power Defender 1.65 HP – Performance Curves



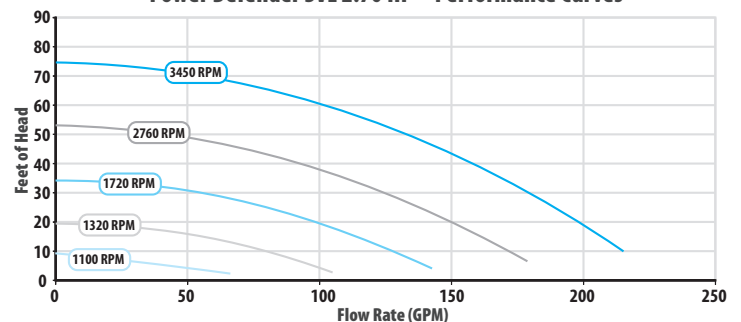
Power Defender 2.25 HP – Performance Curves



Power Defender 2.70 HP – Performance Curves



Power Defender SVL 2.70 HP – Performance Curves





Waterway's family owned, fully integrated USA facility brings together design, engineering, tooling, production, quality control, sales and service... delivering an extensive range of quality products from NSF approved white goods to pumps, filters, pool & spa control systems, and much more.

Since 1973, Waterway has provided excellence, integrity and confidence to the Pool, Spa and Whirlpool Bath industry... all at our 460,000 square foot facility in Oxnard, California.

Our enduring success is based on an unwavering dedication to these important principles:

- Listening to our customers.
- Bringing the very best in quality and innovation to market.
- Providing the industry's most responsive and caring customer service.

For over 45 years Waterway has continued our steadfast commitment to our exceptional standards and to you, our valued customers.



Designed, Engineered
& Manufactured in the
USA

Maximizing the energy efficiency of your Waterway Power Defender Variable Speed Pump starts with correct plumbing & fittings.

QUICK START GUIDE

Set Time of Day:

1. Press MENU/ENTER to show the settings menu and press MENU/ENTER again to enter the Standard Settings menu.
2. Press MENU/ENTER on the TIME OF DAY screen to edit the hour.
3. Adjust flashing value with the up or down symbol. Press MENU/ENTER to confirm new hour, then change minutes and AM/PM in the same way.
4. Press MENU/ENTER to save settings and return to Time of Day screen.
5. Return to the Standard Settings menu by pressing START/PAUSE.
6. If a custom flow schedule is not desired, press START/ PAUSE twice to exit the settings menu.

Set Daily Run Schedule:

1. Press MENU/ENTER to view the settings menu.
2. Press the up or down symbol to select Custom Settings and press MENU/ENTER to enter.
3. Press the up or down symbol to navigate the Timer 1-7 and press MENU/ENTER to edit the displayed Timer value.
4. Adjust flashing value with the up or down symbol and press MENU/ENTER to confirm and adjust next value.
5. Repeat steps 3 and 4 until all desired Timers, Durations, and Speeds are set. (Note: Setting the Duration to 0 deactivates the Timer)
6. Return to the Custom Settings menu by pressing START/PAUSE.
7. Press START/ PAUSE twice to return to normal operation mode.

Waterway TruSeal Diverter and Serviceable Check Valves

FEATURES:

- Unique manufacturing process called TruSeal results in a seal that never needs lubrication
- TruSeal Valves have deeper sockets than other valves providing better glue joint bonding
- The exclusive Click & Lock handle has 72 locking positions / points for virtually any setting desired
- Exclusive Flow Labels give your plumbing a professional look and more value
- Universal shaft spline pattern adapts to most actuators
- Made in the USA



Waterway Long Sweep Ells

FEATURES:

- Available in from 1.5" to as large 3"
- Available in both Slip x Slip or also Street Ells
- Utilizes more efficient hydraulics.





Waterway Plastics • 2200 E. Sturgis Road, Oxnard, California 93030
Phone 805.981.0262 • Fax 805.981.9403
www.waterwayplastics.com • waterway@waterwayplastics.com

Waterway Europe (NovaTech) • Londonstr. 14 97424 Schweinfurt/Germany
Phone 49 9721 299 100 • Fax 49 9721 299 200
www.waterwayeurope.com • info@waterwayeurope.com