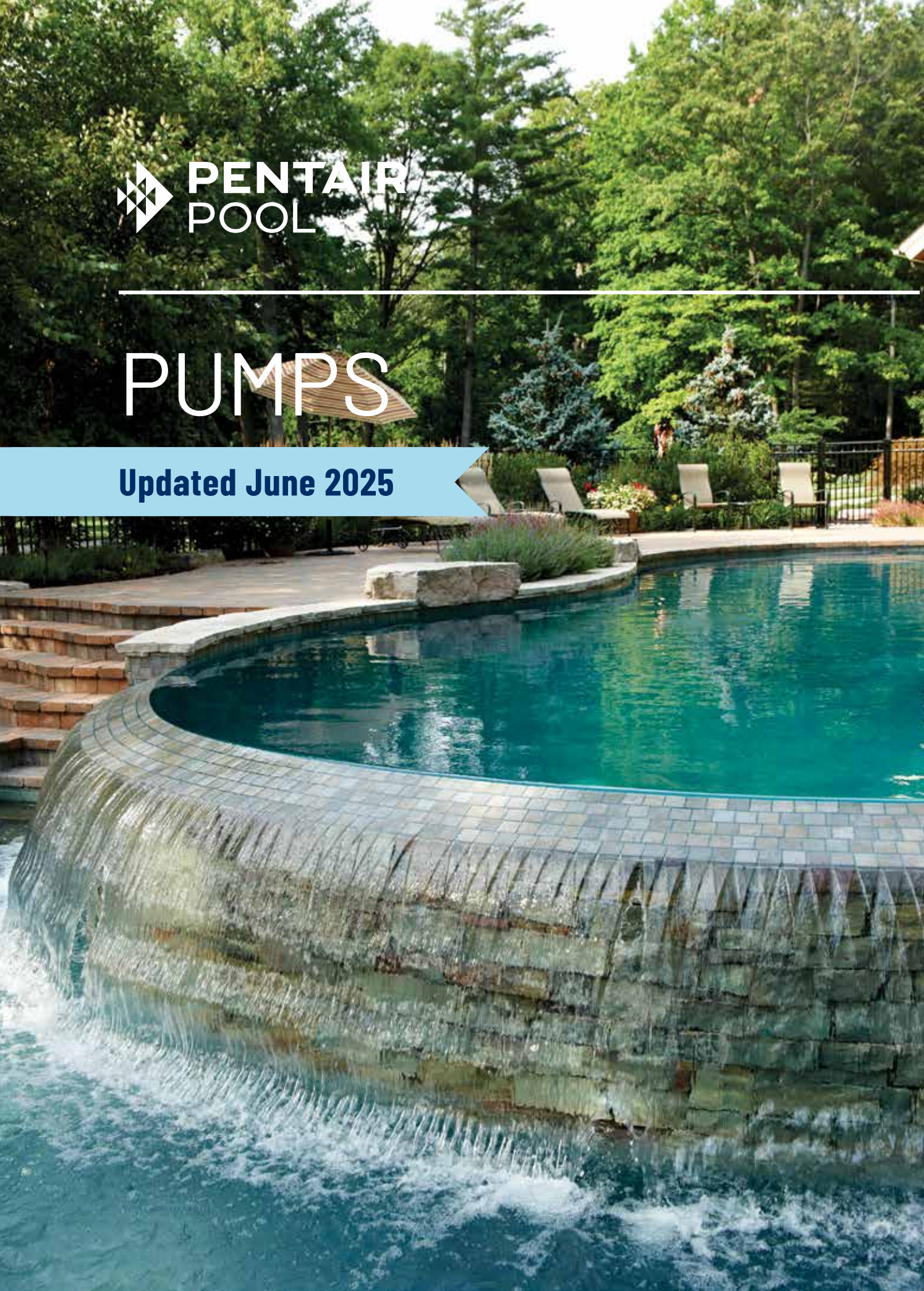




PUMPS

Updated June 2025



INTELLIFLO3® VSF

VARIABLE SPEED AND FLOW POOL PUMP

TRADEGRADE



Optional touchscreen for more flexible control.



IntelliFlo3 3.0 HP
Variable Speed & Flow Pump

IntelliFlo3 1.5 HP
Variable Speed & Flow Pump

Featured Highlights

- Proprietary flow technology maintains the pool's optimal flow
- Easy control via the Pentair Pool app or optional touchscreen
- Up to 90% energy savings*
- New motor, drive, and hydraulics
- Optional onboard automation
- Easy setup and remote updates



Pentair Pool app:
pool owners can access the
pool anytime, anywhere.



Pentair Pro app:
ability to control and
remotely monitor.

This pump combines true set-it-and forget-it patented flow technology paired with smart connectivity of the Pentair Pool app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliFlo3 pool pump—for your customers and for your business. Small pool or big, this pump is a simple, smart, worry-free way to give pool owners the effortless, inviting pool experience they expect.

Ordering Information

PART #	DESCRIPTION	THP	WEF	Maximum Input Voltage	Frequency	Full Load AMPS	Port Size (NPT)	Weight	Certification ³
INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP (3 HP MODEL)									
011075	IntelliFlo3 VSF 3.0 HP*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
011076	IntelliFlo3 VSF 3.0 HP with relay board*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
011077	IntelliFlo3 VSF 3.0 HP with touchscreen*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
011078	IntelliFlo3 VSF 3.0 HP with touchscreen and relay board*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP (1.5HP MODEL)									
011065	IntelliFlo3 VSF 1.5 HP*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
011066	IntelliFlo3 VSF 1.5 HP with relay board*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
011067	IntelliFlo3 VSF 1.5 HP with touchscreen*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
011068	IntelliFlo3 VSF 1.5 HP with touchscreen and relay board*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

*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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
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INTELLIFLO3® VSF

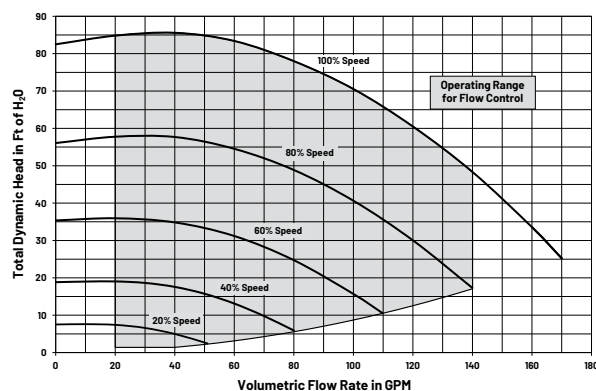
VARIABLE SPEED AND FLOW POOL PUMP (CONT'D)

Ordering Information

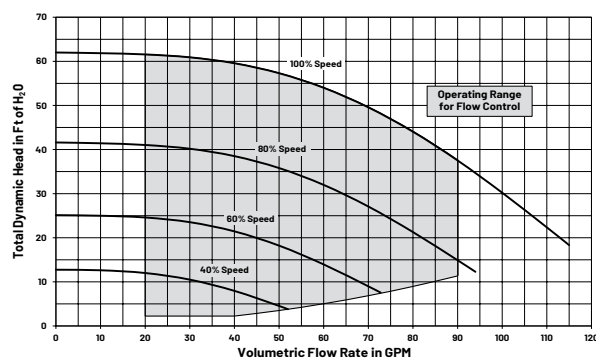
PART #	DESCRIPTION
INTELLIFLO3 ADD ONS	
356159Z	IntelliFlo3 VSF Universal Touchscreen Add On
356365Z	IntelliFlo3 VSF Optional Universal Relay Board Kit
358163Z	50 ft 2 Conductor Automation Cable
410009	2.5" Sweep Elbow Pump Kit
410029	3" Union Kit for 3 HP Pumps
351157	1-1/2" Internal Slip x 2" External Slip Union Kit for 1.5 HP Pumps (includes 2 unions)
357831Z	Retrofit Riser Base Kit for 1.5 HP Models—IntelliFlo and WhisperFlo Models
357832Z	Retrofit Riser Base Kit for 1.5 HP Models—IntelliPro, Max-E-Pro, and Challenger Models
357833Z	Retrofit Riser Base Kit for 3.0 HP Models—IntelliPro, Max-E-Pro, and Challenger Models

Dimensions and Performance

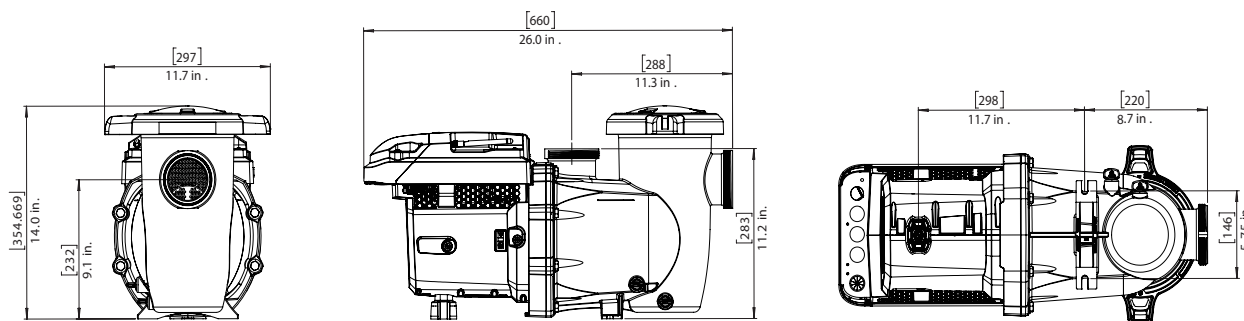
Pump Performance Curves (3 HP Models)



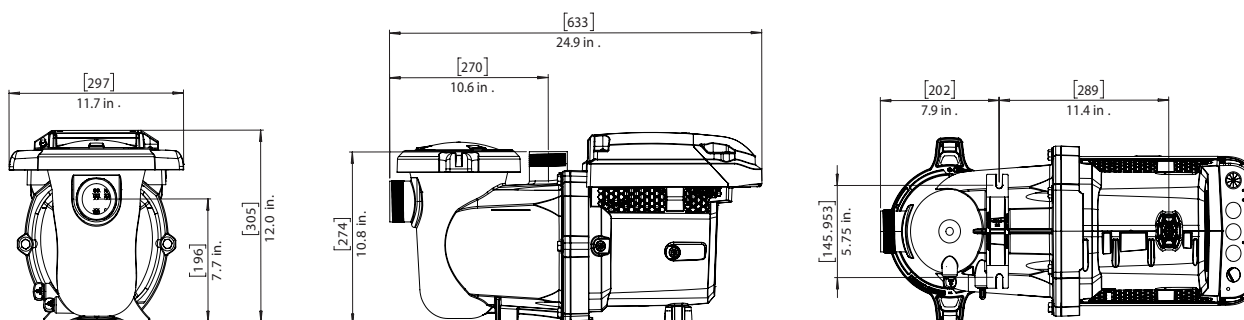
Pump Performance Curves (1.5 HP Models)



Pump Dimensions (3 HP Models)



Pump Dimensions (1.5 HP Models)



SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIFLO® VS+SVRS

HIGH PERFORMANCE PUMPS



IntelliFlo VS+SVRS
High Performance Pump

Patent Information: www.pentair.com/patents

IntelliFlo pumps combine variable speed technology, onboard digital intelligence and permanent magnet motors (used in hybrid cars) to reduce pump-related energy costs by up to 90%* compared to a single-speed pump. The IntelliFlo VS+SVRS pump includes a built-in Safety Vacuum Release System that detects drain blockage and automatically shuts the pump off.

Featured Highlights

- Ability to program exact pump speeds for specific operations – filtering, heating, cleaning, spa jets, water features, and more
- SVRS complies with Virginia Graeme Baker Safety Act
- Built-in diagnostics helps protect the IntelliFlo pump from the most common causes of premature failure by alerting of the issue – overheating, freezing, and voltage irregularities
- Includes priming protection. No SVRS calibrations needed. Built-in SVRS cannot be turned off
- Safety lock-out feature (password protected) prevents pump speed settings from being changed by unauthorized personnel
- Ability to set minimum and maximum speeds so pump will only operate within the ranges set to help assure suitable operation for a longer life
- Compatible with Pentair Automation Systems
- Compliant with the current ASME A112.19.17 Standard for Safety Vacuum Release Systems (SVRS)
- Operates seamlessly on 50 hz or 60 hz input power. Flow/speed are constant when operating on 50hz or 60 hz

Ordering Information

Product	Description	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
ENERGY EFFICIENT VARIABLE SPEED WITH SAFETY VACUUM RELEASE SYSTEM											
011057	IntelliFlo VS+SVRS	3.95	6.9	1.88	1.0	230	50/60	16.0	2" x 2"	53	UL ¹ , NSF ²
ACCESSORIES											
350122Z	Communication Cable - 50 ft. - Included with pump										2
356198	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit										1
UNIONS											
11201-0154	2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect)								Note: two required per pump (sold individually)		2

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

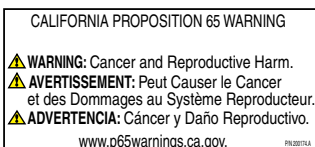
² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

• 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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

Refer to catalog page 25 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool Pumps.

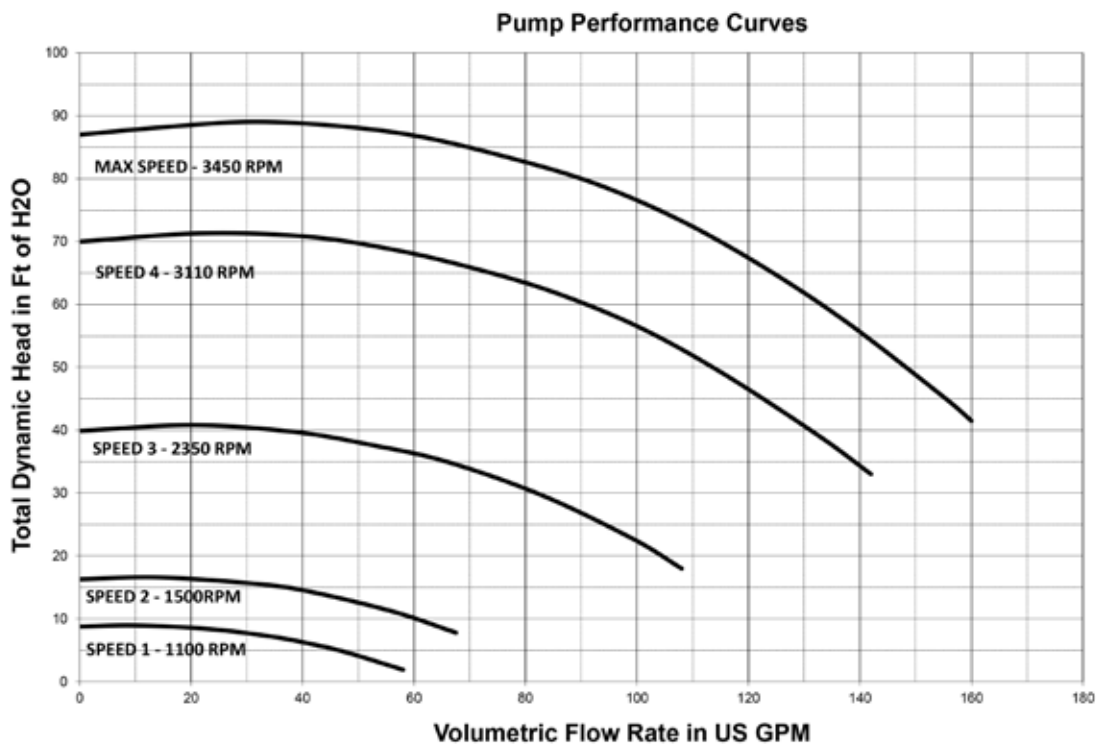


SEE PAGE 425 FOR REPLACEMENT PARTS

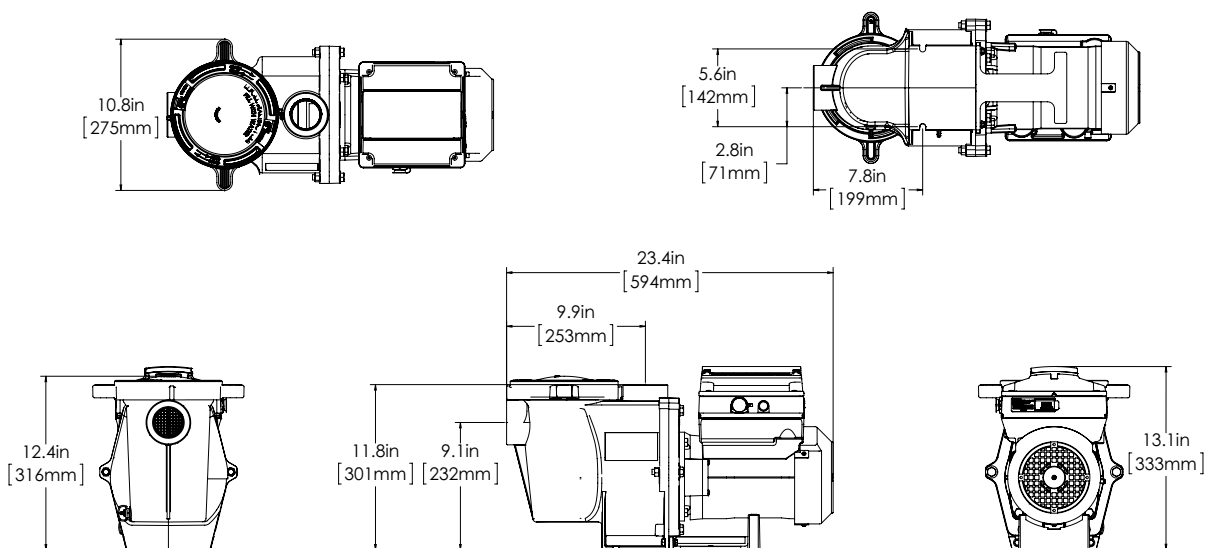
INTELLIFLO® VS+SVRS

HIGH PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance



Note: IntelliFlo VS+SVRS minimum speed is 1100 RPM



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SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIFLOXF® VSF

VARIABLE SPEED AND FLOW PUMP

TRADEGRADE



IntelliFloXF VSF
Variable Speed and Flow Pump

The IntelliFloXF VSF pump has built-in sensorless flow control that enables the pump to automatically adjust to changes in system conditions to maintain its programmed flow rate. With its available performance and efficiency, it is perfectly suited for large and feature-rich pools with high flow demand to power waterfalls, slides, negative edges, and more.

Featured Highlights

- Eight programmable speed or flow settings and built-in timer
- Rotatable keypad with optional wall mount kit (sold separately)
- Top-mounted field wiring compartment is easier to access and connect
- Totally enclosed fan-cooled design keeps motor shielded from the elements for extended life
- Menus are easier than ever to use
- Union connectors included for connecting directly to 2.5" or 3" plumbing
- Maintains system flow requirements
- Compatible with Pentair automation systems

Ordering Information

Product	Description	THP	WEF	HHF	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
INTELLIFLOXF VSF ENERGY EFFICIENT VARIABLE SPEED AND FLOW PUMP											
022056	IntelliFloXF VSF	3.95	5.6	2.10	1.0	230	50/60	16.0	2" x 2"	60	UL ¹ , NSF ²
ACCESSORIES											
400012	XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced.										
350122	Communication Cable - 50 ft. - Included with pump										2
356904Z	Keypad Relocation Kit										2
410009	2.5" Sweep Elbow Pump Kit										

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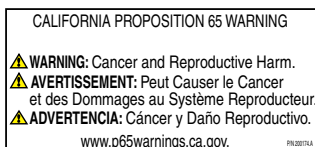
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Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

Patent Information: www.pentair.com/patents

Refer to catalog page 25 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to current NEC Standards for Pool Pumps.

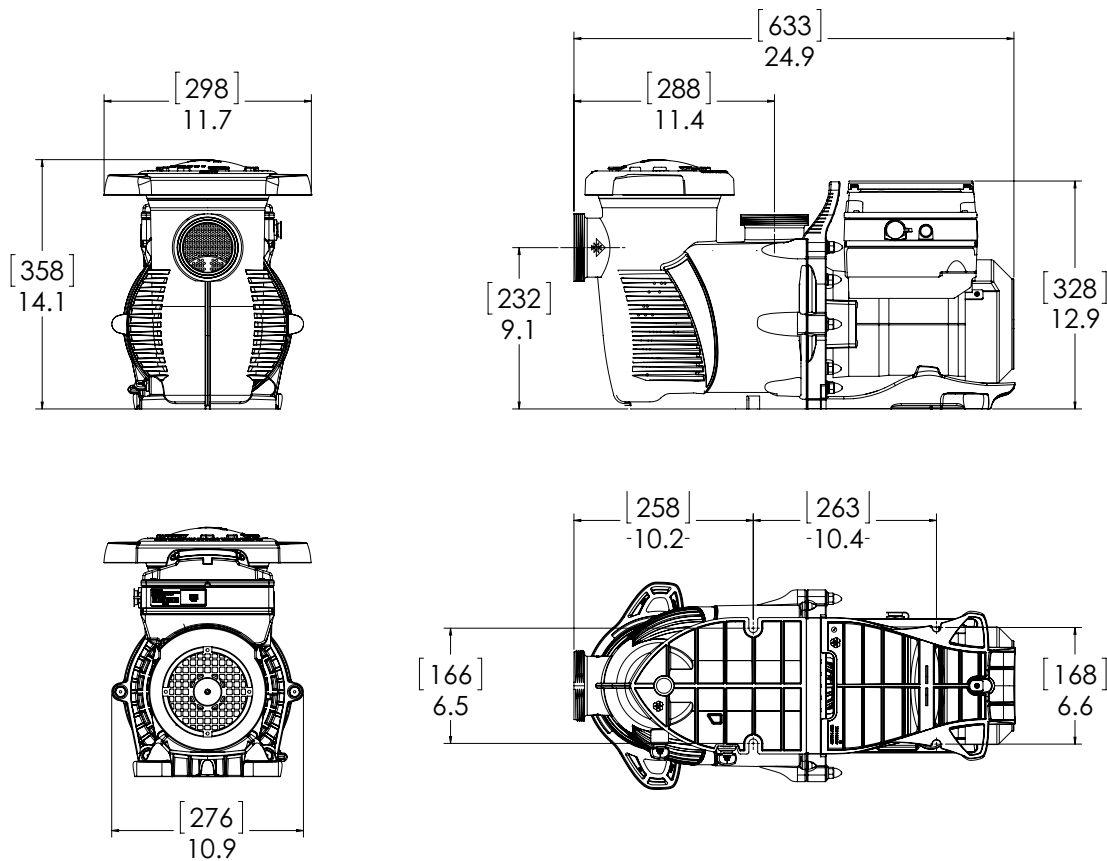
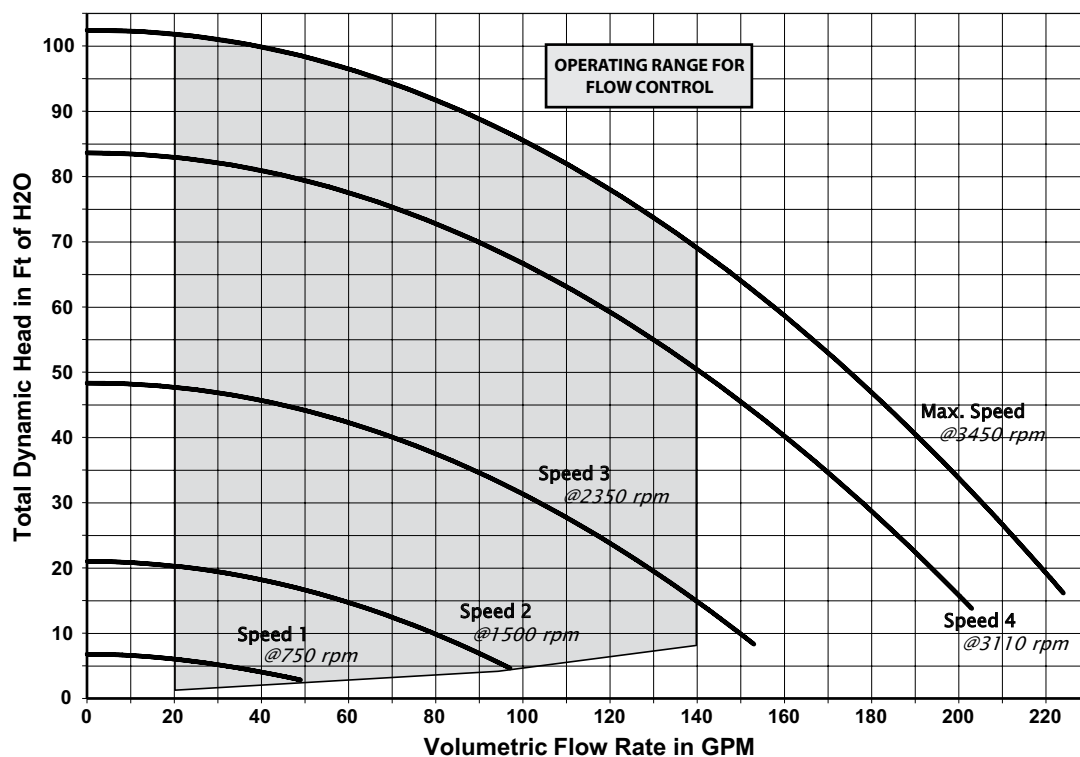


SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIFLOX[®] VSF

VARIABLE SPEED AND FLOW PUMP (CONT'D)

Dimensions and Performance



WHISPERFLOXF®

HIGH PERFORMANCE PUMPS

TRADEGRADE



WhisperFloXF Pump
shown with TEFC Motor

Developed using advanced engineering tools - CFD (Computational Fluid Dynamics) and FEA (Finite Element Analysis). The impeller design delivers high level of precision concentricity for efficiency.

Featured Highlights

- Drop-in replacement for all WhisperFlo® Pump models. Simple replacement for Challenger® Pumps.*
- Union connectors included for connecting directly to 2.5 in. or 3 in. plumbing
- Extra large, robust basket with smooth surface for easy debris removal
- Easy-carry handle; easily removable ergonomic lock ring; and see-through lid for easy basket inspection
- Three-Phase XF pumps are compatible with Pentair's Acu Drive XS VFDs

*Optional riser base for Challenger pump replacements. Part # 400012 available separately.

Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
COMMERCIAL SINGLE-SPEED TEFC												
022034	5	5	N/A	N/A	1.00	208-230	60	20.0-18.8	2.5" x 2.5" or 3" x 3"	67	UL ¹ , NSF ²	A
TEFC SINGLE-SPEED—NOT FOR SALE IN THE USA												
022032-INT	2	2.60	N/A	N/A	1.30	208-230	60	11.1-9.5	2.5" x 2.5" or 3" x 3"	57	UL ¹ , NSF ²	D
022033-INT	3	3.45	N/A	N/A	1.15	208-230	60	14.6-12.7	2.5" x 2.5" or 3" x 3"	61	UL ¹ , NSF ²	B
THREE-PHASE SUPER-DUTY												
022017	2	2.6	N/A	N/A	1.30	208-230/460	60	7.5-7.2/3.6	2.5" x 2.5" or 3" x 3"	60	UL ¹ , NSF ²	I
022018	3	3.25	N/A	N/A	1.15	208-230/460	60	9.8-9.4/4.7	2.5" x 2.5" or 3" x 3"	60	UL ¹ , NSF ²	H
022019	5	5.00	N/A	N/A	1.00	208-230/460	60	13.9-13.1/6.6	2.5" x 2.5" or 3" x 3"	72	UL ¹ , NSF ²	G
ACCESSORIES												
400012	XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced.											

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

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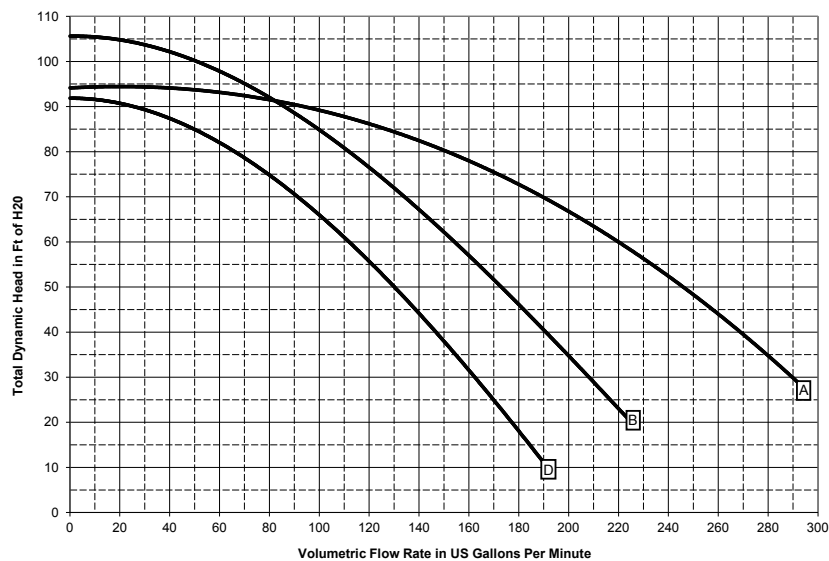
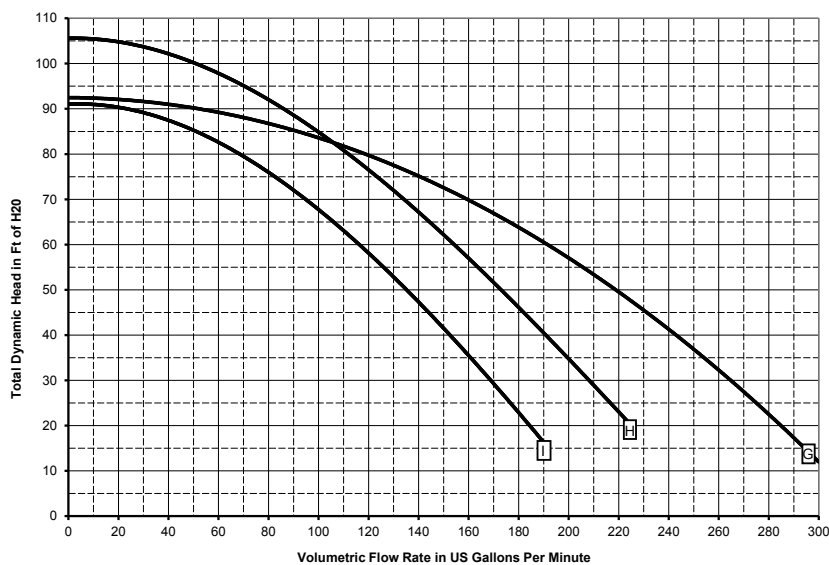
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PR201714

SEE PAGE 425 FOR REPLACEMENT PARTS

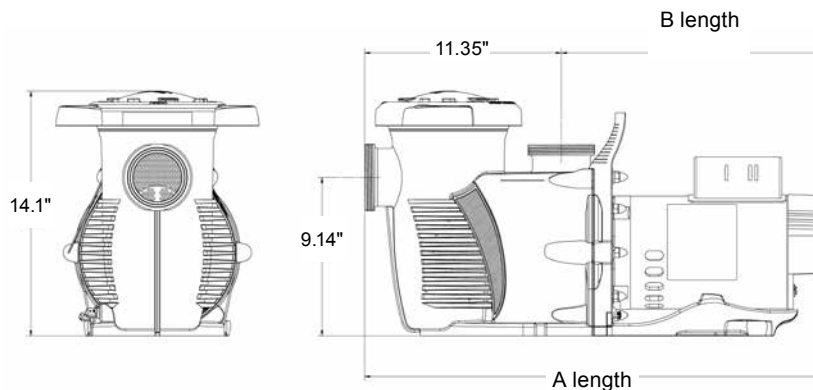
WHISPERFLOX[®]**HIGH PERFORMANCE PUMPS (CONT'D)****Dimensions and Performance****1 & 2-Speed
Performance
Curve****3 Phase
Performance
Curve**

B-VARYING LENGTH		
HP	TEFC	3-PH
2	13.05	12.35
3	13.65	13.05
5	14.55	13.88

A-VARYING LENGTH		
HP	TEFC	3-PH
2	24.4	23.7
3	25	24.4
5	25.9	25.23

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SEE PAGE 425 FOR REPLACEMENT PARTS

WHISPERFLO® VST

VARIABLE SPEED PUMP

TRADEGRADE



WhisperFlo VST
Variable Speed Pump

The WhisperFlo VST pump brings features and benefits that are just right for a pool owners' needs. Ideal for new and standard pool pump replacement for pools requiring up to a 2.0 HP pump for filtration, water features, and higher head applications.

Featured Highlights

- Variable speed technology can reduce energy costs up to 90%*
- Improved mechanical seal and totally enclosed fan-cooled (TEFC) motor to help withstand harsh temperatures and chemicals
- RS-485 connectivity for improved interface with automation systems and IoT devices for more flexibility
- Advanced onboard digital display and real-time, 24-hour clock
- Select from three programmable speeds plus an override to meet specific needs
- Adapts to 115V to 230V and 50hz or 60hz power with no special wiring or switching

Ordering Information

Product	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
WHISPERFLO VST VARIABLE SPEED										
011533	2.6	8.4	1.64	1.0	115/208-230V	50/60	13.9/11.1-10.1A	2" x 2"	45	UL ¹ , NSF ²

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

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*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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

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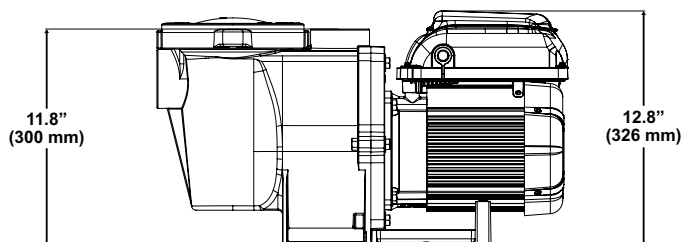
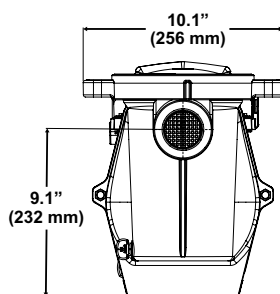
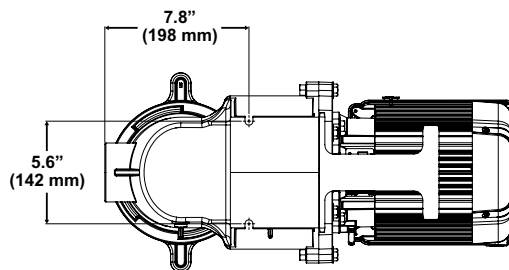
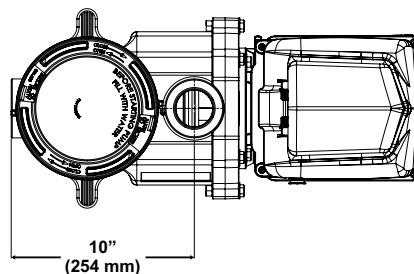
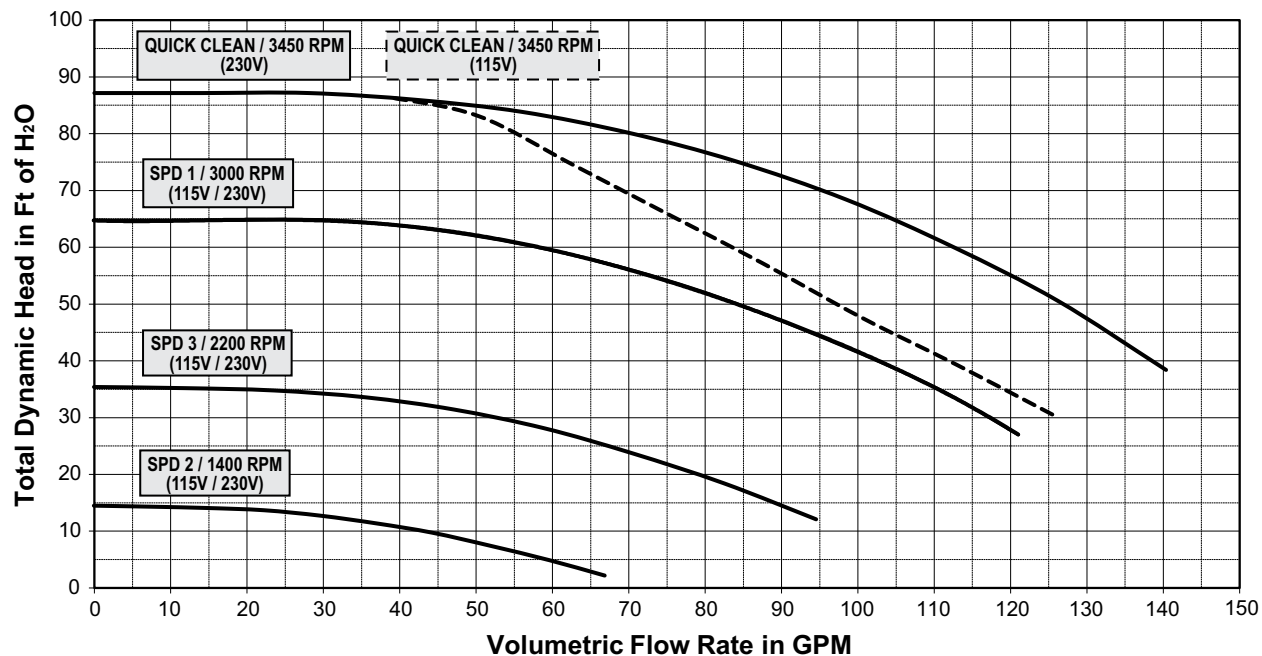
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SEE PAGE 425 FOR REPLACEMENT PARTS

WHISPERFLO® VST

VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance



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SEE PAGE 425 FOR REPLACEMENT PARTS

WHISPERFLO®

HIGH-PERFORMANCE PUMPS

TRADEGRADE



WhisperFlo Pump shown
with TEFC Motor

Featured Highlights

- Oversized strainer basket and volute—industry standard in pool pumps
- TEFC Motors available
- 2" NPT suction and discharge ports.
- Compatible with all cleaning systems, various filters and jet action spas
- Heavy-duty/durable construction is designed for long life
- Designed for residential and commercial applications

Robust thermoplastic with the Cam & Ramp™ See-Through Lid design. Self-priming, high flow with Funnel-Flo™ Diffusers. 2 in. suction and discharge ports. Motor features threaded shaft and durable commercial duty 56 frame motor.

Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
DOE COMPLIANT SINGLE-SPEED TEFC												
015583	N/A	1.1	3.4	0.69	1.00	115/208-230	60	10.5/5.4-5.4	2" x 2"	50	UL ¹ , NSF ²	E
ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA												
011512-INT	3/4	1.25	N/A	N/A	1.00	115/208-230	60	12.8/7.0-6.4	2" x 2"	44	UL ¹ , NSF ²	F
TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA												
011527-INT	1	1.65	N/A	N/A	1.00	115/208-230	60	15.1/8.5-7.7	2" x 2"	50	UL ¹ , NSF ²	G
011528-INT	1 1/2	2.21	N/A	N/A	1.00	208-230	60	10.3-9.1	2" x 2"	53	UL ¹ , NSF ²	H
011529-INT	2	2.60	N/A	N/A	1.00	208-230	60	11.7-10.3	2" x 2"	58	UL ¹ , NSF ²	I
011530-INT	3	3.45	N/A	N/A	1.00	208-230	60	14.6-12.7	2" x 2"	62	UL ¹ , NSF ²	J
THREE-PHASE SUPER-DUTY												
011641	1	1.65	2.9	1.10	1.65	208-230/460	60	4.9-4.5/2.3	2" x 2"	41	UL ¹ , NSF ²	G
011642	1.5	2.21	2.6	1.44	1.47	208-230/460	60	6.4-6.3/3.2	2" x 2"	43	UL ¹ , NSF ²	H
011643	2	2.60	2.5	1.61	1.30	208-230/460	60	7.5-7.2/3.6	2" x 2"	47	UL ¹ , NSF ²	I
011644	3	3.45	2.1	2.02	1.15	208-230/460	60	9.8-9.4/4.7	2" x 2"	52	UL ¹ , NSF ²	J
ACCESSORIES												
11201-0154	2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect) * Note: two required per pump (sold individually)											
357156	Cover/Lid, Chemical Resistant, CAM & RAMP											
356198	Chemical/Salt/Ozone/Resistant EPDM & SS Seal Quick Kit											

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

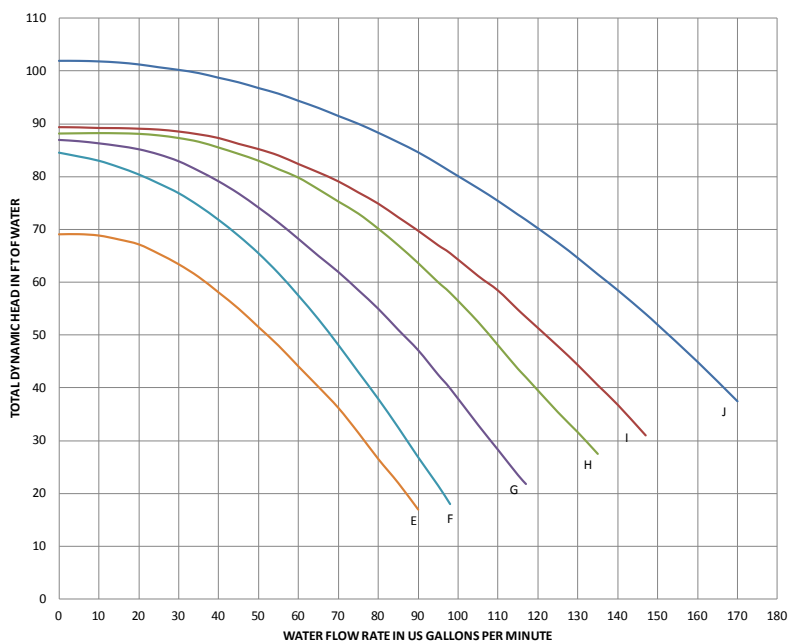
CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.
 ⚠ AVERTISSEMENT: Peut Causer le Cancer
 et des Dommages au Système Reproducteur.
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

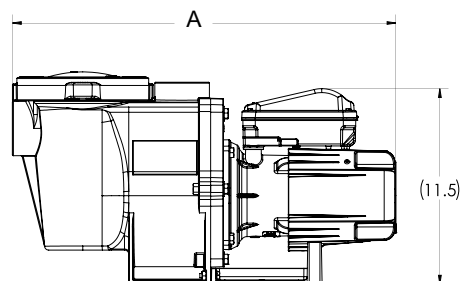
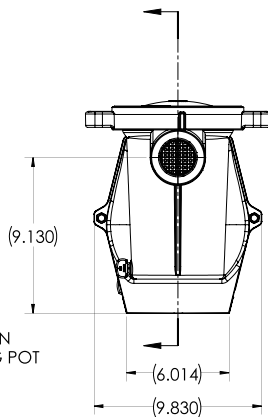
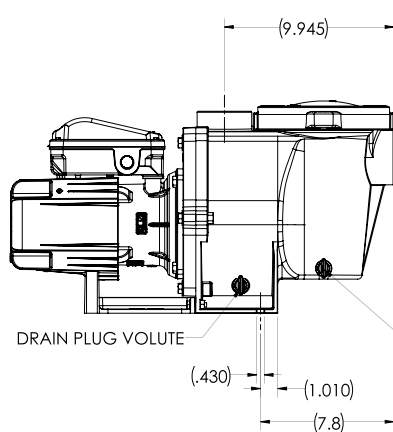
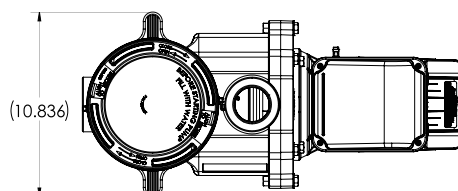
WHISPERFLO®

HIGH PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance



A- VARYING LENGTH				
HP	EE	TEFC	DOE Compliant	3-PH
0.5	24.41	—	—	—
0.75	24.41	—	—	—
1	—	21.71	—	21.5
1.1	—	—	22.5	—
1.5	—	22.16	—	21.5
2	—	22.51	—	21.81
3	—	23.21	—	22.61



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

SUPERFLO® VST

VARIABLE SPEED PUMP

TRADEGRADE



SuperFlo VST Variable Speed Pump

Featured Highlights

- TEFC motor, can adapt to 115V to 230V or 50hz or 60hz power with no special wiring or switching
- Improved mechanical seal for long, dependable performance
- Simple, easy-to-use digital control keypad with three programmable speeds, override capability, and a real-time, 24 hour clock
- Easy to access electrical connections for simple installation
- Ideal for new and standard pool pump replacement for pools requiring up to a 1.5 HP pump
- SuperFlo pumps by Pentair are a direct replacement for the Hayward® Super Pump®*

The SuperFlo VST Variable Speed Pump features sophisticated technology in a simple to operate pump. Designed for the practical pool owner, the SuperFlo VST pump has a dependable and robust Totally Enclosed Fan Cooled motor and can adapt to 115V to 230V and 50hz or 60hz power with no special wiring or switching.

Ordering Information

Product	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
SUPERFLO VST VARIABLE SPEED										
342002	2.2	9.0	1.08	1.0	115/208-230	50/60	13.6/8.0-7.1	1.5" x 1.5"	53	UL ¹ , NSF ²
ACCESSORIES										
356324Z	External Control Wiring Kit									
356197	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit (for pumps Mfg. before June 2019)									

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

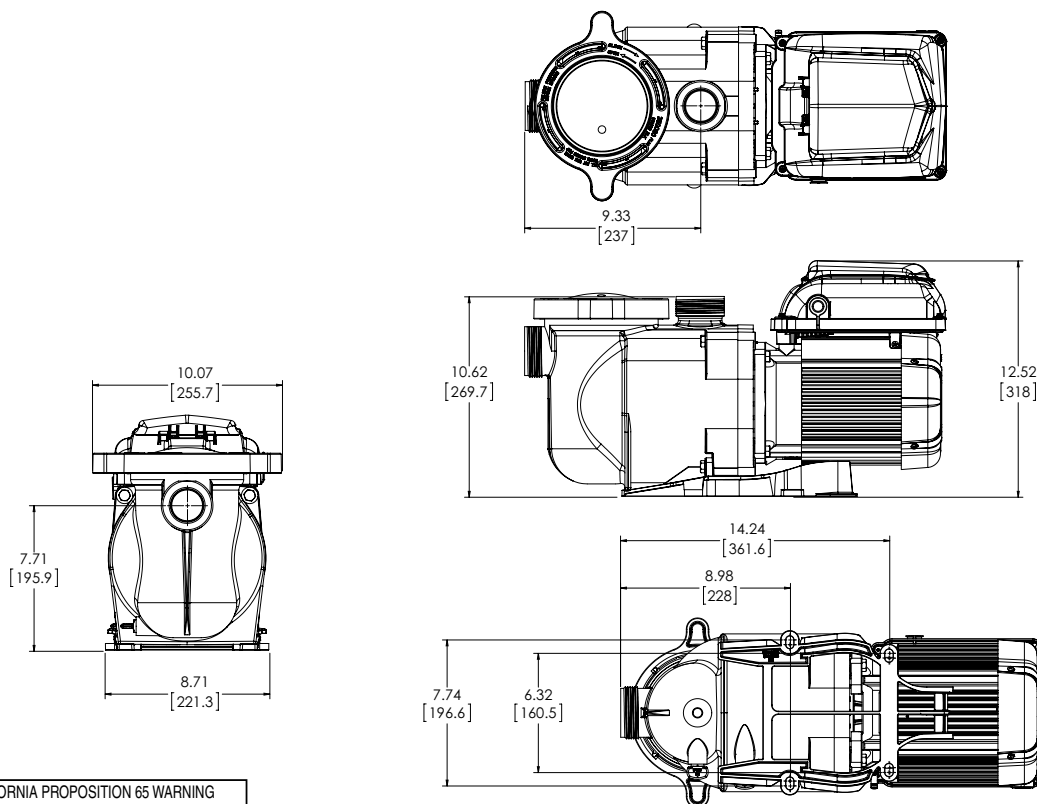
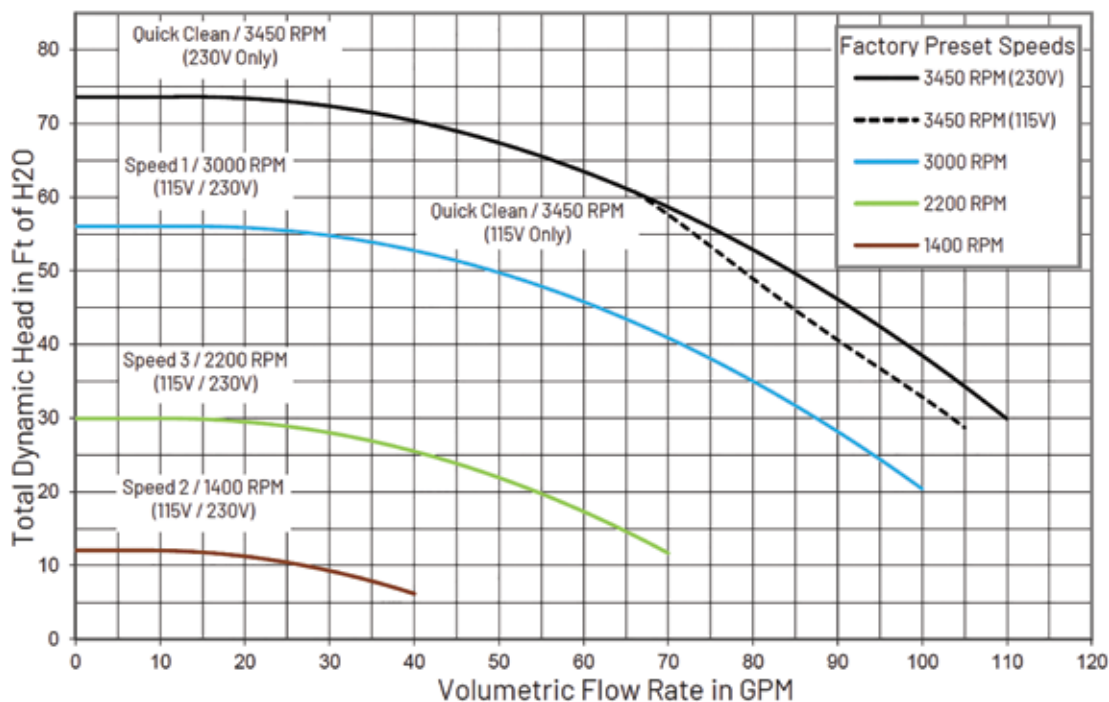
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

SUPERFLO® VST

VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING
 ⚠️ **WARNING:** Cancer and Reproductive Harm.
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 ⚠️ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
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SEE PAGE 425 FOR REPLACEMENT PARTS

SUPERFLO®

HIGH-PERFORMANCE PUMPS

TRADEGRADE



SuperFlo Pump

SuperFlo pumps feature thick walled body parts, a heavy-duty 56 square flange motor, and highly engineered hydraulics. SuperFlo pumps' silent running capability and small footprint allow it to easily drop into a compact equipment pad.

Featured Highlights

- SuperFlo pump by Pentair Aquatic Systems is a direct replacement for the Hayward® Super Pump® *
- Extremely quiet operation
- Unionized fittings included (1-1/2 in. internal slip and 2 in. external slip)
- Cam and Ramp™ Lid
- Heavy-duty, high service factor 56 square flange motor
- Integral volute and pot reduce hydraulic noise

Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
DOE COMPLIANT SINGLE-SPEED TEFC												
348190	N/A	1.1	3.6	0.63	1.00	115/208-230	60	10.5/5.4-5.4	1.5" x 1.5"	50	UL ¹ , NSF ²	B
ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA												
348022-INT	3/4	0.95	N/A	N/A	1.00	115/208-230	60	8.8/4.5-4.4	1.5" x 1.5"	44	UL ¹ , NSF ²	A
TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA												
348144-INT	1	1.65	N/A	N/A	1.00	115/208-230	60	15.1/8.5-7.7	1.5" x 1.5"	50	UL ¹ , NSF ²	C
348145-INT	1-1/2	2.21	N/A	N/A	1.00	208-230	60	10.3-9.1	1.5" x 1.5"	53	UL ¹ , NSF ²	D
348146-INT	2	2.60	N/A	N/A	1.00	208-230	60	11.7-10.3	1.5" x 1.5"	58	UL ¹ , NSF ²	E
ACCESSORIES												
351157	Union Kit – 1-1/2 in. Internal Slip x 2 in. External Slip (includes 2 unions as pictured above)											
356197	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit											

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

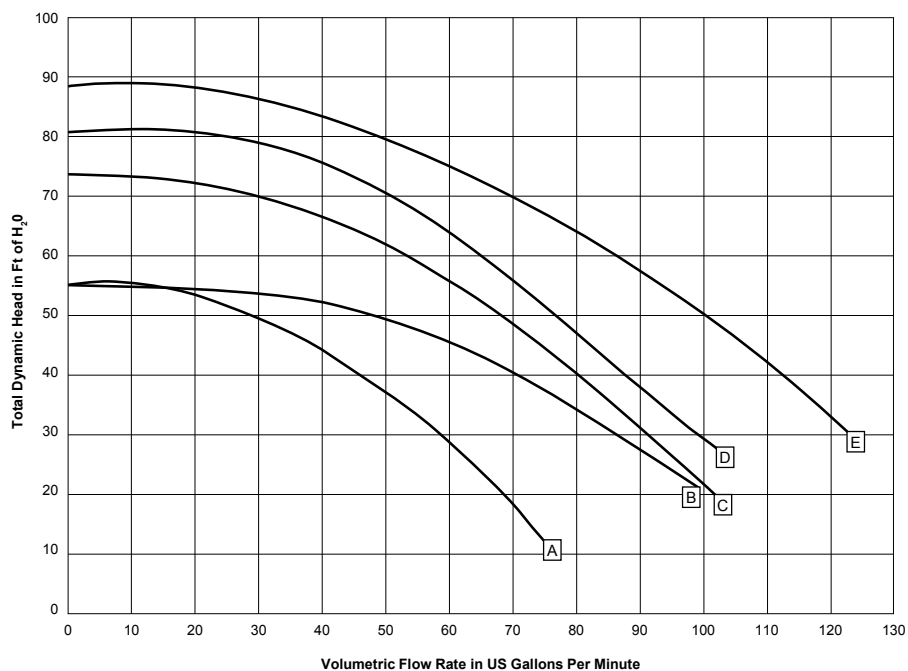
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* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

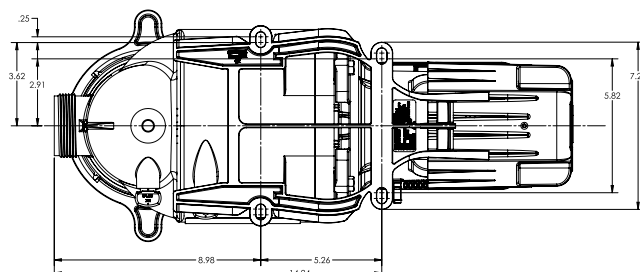
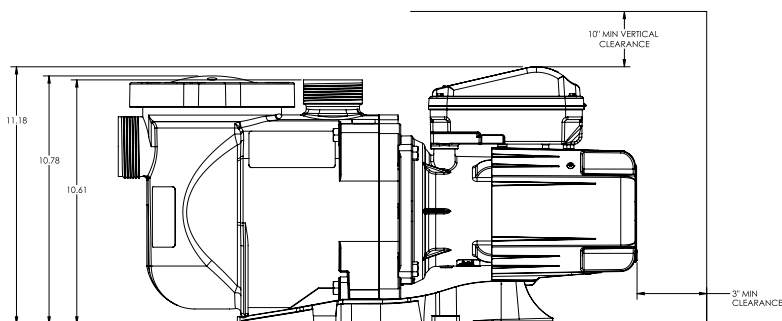
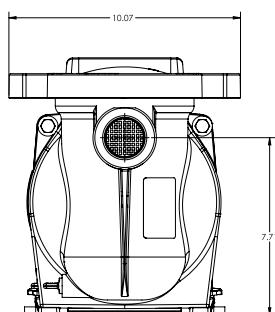
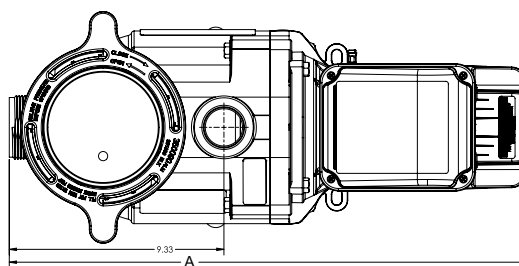
SUPERFLO®

HIGH PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance



A- VARYING LENGTH			
HP	EE	TEFC	DOE Compliant
0.5	24.64	—	—
0.75	24.64	—	—
1	—	22	—
1.1	—	—	22.55
1.5	—	22.45	—
2	—	22.9	—



SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIPRO3® VSF

VARIABLE SPEED AND FLOW POOL PUMP



TRADEGRADE



Optional touchscreen
for more flexible control.



Featured Highlights

- Proprietary flow technology maintains the pool's optimal flow
- Easy control via the Pentair Pool app or optional touchscreen
- Up to 90% energy savings*
- New motor, drive and hydraulics
- Optional onboard automation
- Easy setup and remote updates



IntelliPro3 3.0 HP
Variable Speed & Flow Pump

IntelliPro3 1.5 HP
Variable Speed & Flow Pump



Pentair Pool app:
pool owners can access the
pool anytime, anywhere.



Pentair Pro app:
ability to control and
remotely monitor.

This pump combines true set-it-and forget-it patented flow technology paired with smart connectivity of the Pentair Pool app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliPro3 pool pump—for your customers and for your business. Small pool or big, this pump is a simple, smart, worry-free way to give pool owners the effortless, inviting pool experience they expect.

Ordering Information

PART #	DESCRIPTION	THP	WEF	Maximum Input Voltage	Frequency	Full Load AMPS	Port Size (NPT)	Weight	Certification ³
INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP									
013075	IntelliPro3 VSF 3.0 HP*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
013076	IntelliPro3 VSF 3.0 HP with relay board*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
013077	IntelliPro3 VSF 3.0 HP with touchscreen*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
013078	IntelliPro3 VSF 3.0 HP with touchscreen and relay board*	3	7.1	208V–230V	50 Hz or 60 Hz	12.4–11.2 Amps	2" x 2" or 2.5" x 2.5" or (optional) 3" x 3"	55 lbs	UL ¹ , NSF ²
INTELLIFLO3 VARIABLE SPEED AND FLOW POOL PUMP WITH 1.5HP MODELS									
013065	IntelliPro3 VSF 1.5 HP*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
013066	IntelliPro3 VSF 1.5 HP with relay board*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
013067	IntelliPro3 VSF 1.5 HP with touchscreen*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²
013068	IntelliPro3 VSF 1.5 HP with touchscreen and relay board*	1.5	9.4	115/208–230V	50 Hz or 60 Hz	12/6.4–5.9 Amps	1.5" x 1.5" or 2" x 2"	48 lbs	UL ¹ , NSF ²

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

*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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

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www.p65warnings.ca.gov. P100111A

SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIPRO3® VSF (CONT'D)

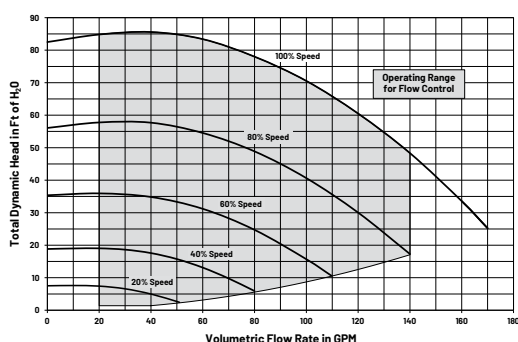
VARIABLE SPEED AND FLOW POOL PUMP

Ordering Information

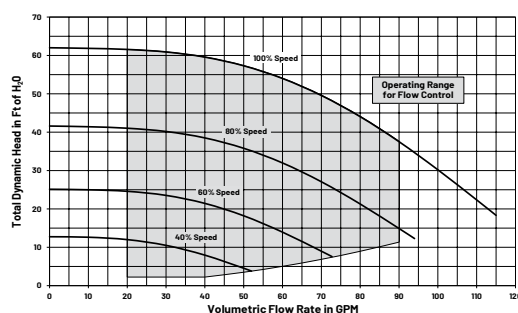
PART #	DESCRIPTION
INTELLIFLO3 ADD ONS	
356348Z	IntelliPro3 VSF Universal Touchscreen Add On
356365Z	IntelliPro3 VSF Optional Universal Relay Board Kit
358163Z	50 ft 2 Conductor Automation Cable
410009	2.5" Sweep Elbow Pump Kit
410029	3" Union Kit for 3 HP Pumps
351157	1-1/2" Internal Slip x 2" External Slip Union Kit for 1.5 HP Pumps (includes 2 unions)
357831Z	Retrofit Riser Base Kit for 1.5 HP Models—IntelliFlo and WhisperFlo Models
357832Z	Retrofit Riser Base Kit for 1.5 HP Models—IntelliPro, Max-E-Pro, and Challenger Models
357833Z	Retrofit Riser Base Kit for 3.0 HP Models—IntelliPro, Max-E-Pro, and Challenger Models

Dimensions and Performance

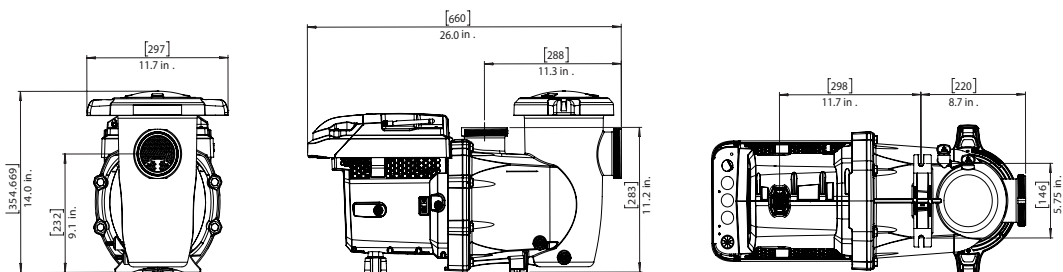
Pump Performance Curves (3 HP Models)



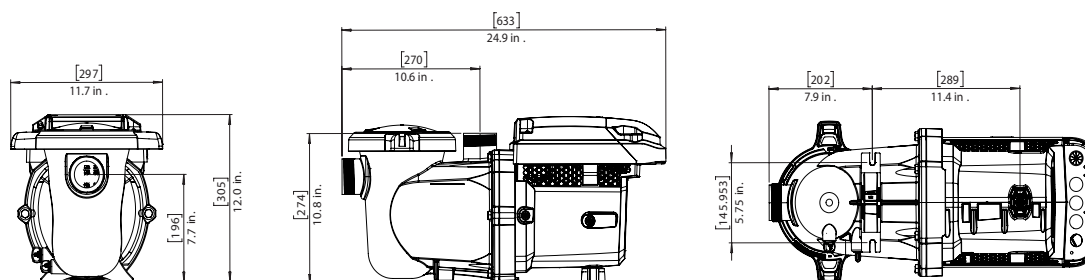
Pump Performance Curves (1.5 HP Models)



Pump Dimensions (3 HP Models)



Pump Dimensions (1.5 HP Models)



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SEE PAGE 425 FOR REPLACEMENT PARTS

INTELLIPRO® VS+SVRS

HIGH PERFORMANCE PUMPS



IntelliPro VS+SVRS
Variable Speed Pump

Patent Information: www.pentair.com/patents

IntelliPro pumps combine variable speed technology, onboard digital intelligence and permanent magnet motors (used in hybrid cars) to reduce pump-related energy costs by up to 90%.* compared to single-speed pumps. The IntelliPro VS+SVRS pump models include a built-in Safety Vacuum Release System that detects drain blockage and automatically shuts the pump off.

Featured Highlights

- Ability to program exact pump speeds for specific operations – filtering, heating, cleaning, spa jets, water features, and more
- SVRS complies with Virginia Graeme Baker Safety Act
- Built-in diagnostics helps protect the IntelliPro pump from the most common causes of premature failure – overheating, freezing, and voltage irregularities
- Includes priming protection. No SVRS calibrations needed. Built-in SVRS cannot be turned off
- Safety lock-out feature (password protected) prevents pump speed settings from being changed by unauthorized personnel
- Ability to set minimum and maximum speeds so pump will only operate within the ranges set to help assure suitable operation for a longer life
- Compatible with Pentair Automation Systems
- Compliant with the current ASME A112.19.17 standard for Safety Vacuum Release Systems (SVRS)

Ordering Information

Product	Description	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
INTELLIPRO VS+ SVRS VARIABLE SPEED WITH SAFETY VACUUM RELEASE SYSTEM											
013002	IntelliPro VS+SVRS	3.95	6.9	1.88	1.0	230	50/60	16.0	2" x 2"	53	UL ¹ , NSF ²
ACCESSORIES											
350122Z	Communication Cable - 50 ft. - Included with pump										2
356905Z	Optional Keypad Wall Mount Kit										
356196	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit										1
UNIONS											
11201-0154	2 in. x 2 in. Union (2 in. NPT male x 2 in. female NPT quick connect)							* Note: two required per pump (sold individually)			2

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

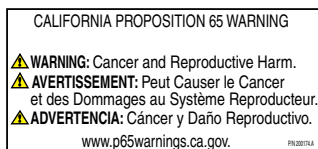
² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Note: Pump must be used with current collectors when installed on spas or hot tubs in Canada.

Refer to catalog page 25 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool 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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

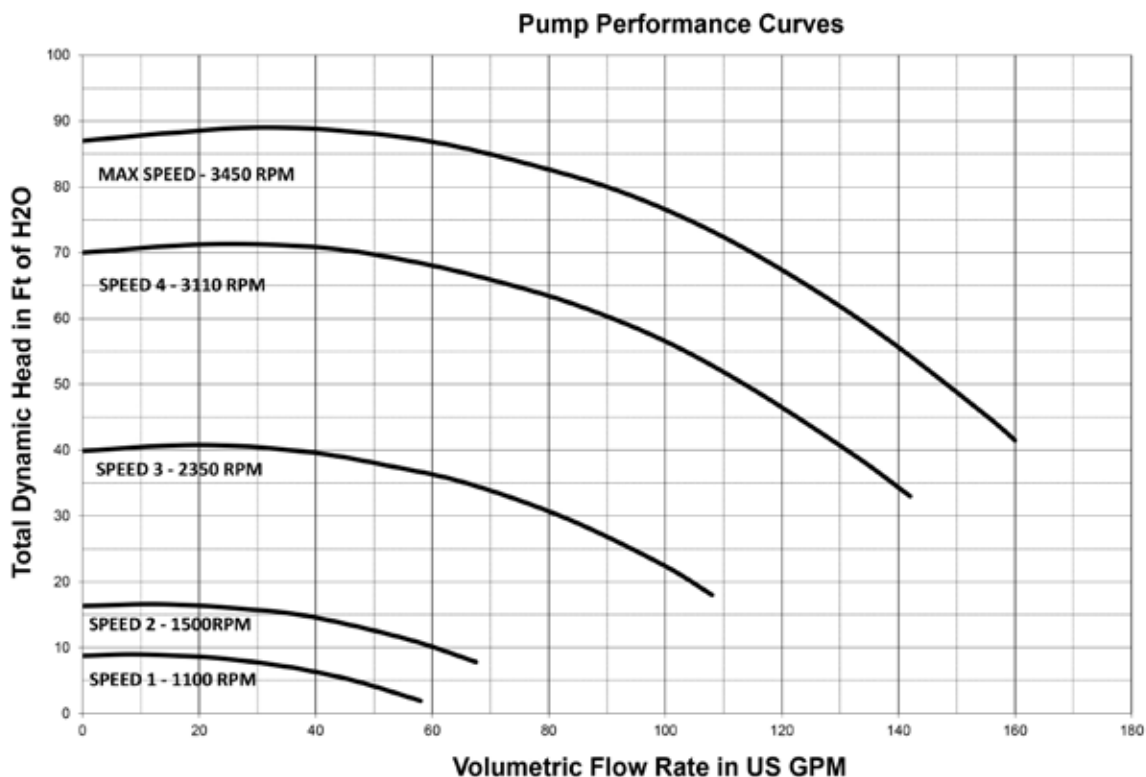


SEE PAGE 425 FOR REPLACEMENT PARTS

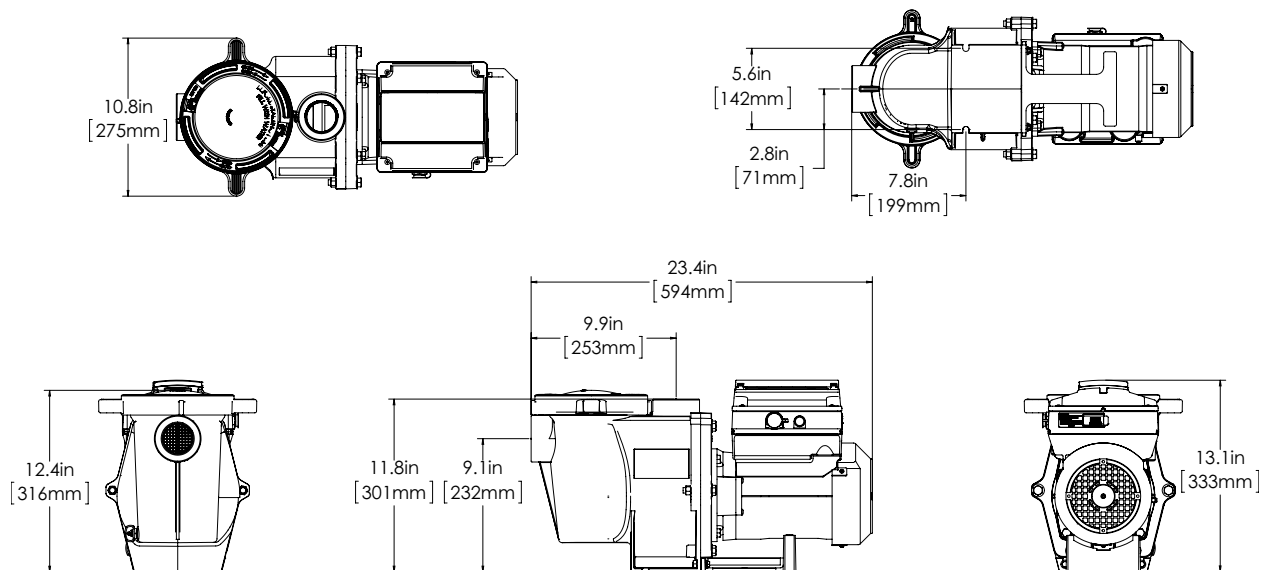
INTELLIPRO® VS+SVRS

HIGH-PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance



* IntelliPro VS+SVRS minimum speed is 1100 RPM



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SEE PAGE 425 FOR REPLACEMENT PARTS

MAX-E-PROXF[®]

HIGH PERFORMANCE PUMPS



TRADEGRADE

Max-E-ProXF Pump
shown with TEFC Motor

Developed using advanced engineering tools - CFD (Computational Fluid Dynamics) and FEA (Finite Element Analysis). The impeller design delivers a high level of precision concentricity for efficiency.

* Optional riser base for Challenger pump replacements, part #400012 available separately

Featured Highlights

- Totally Enclosed Fan Cooled (TEFC) motor
- Improved design
- 2" quick-disconnect plumbing union for faster disassembly and service
- 6", extra-large-capacity trap collects more debris
- Clear-view lid allows easy way to check for debris without lifting a finger
- Some models meet updated DOE minimum efficiency requirements

Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
COMMERCIAL SINGLE-SPEED TEFC												
023034	5	5	N/A	N/A	1.00	208-230	60	20.0-18.8	2.5" x 2.5" or 3" x 3"	67	UL ¹ , NSF ²	C
THREE-PHASE SUPER-DUTY												
023017	2	2.6	N/A	N/A	1.30	208-230/460	60	7.5-7.2/3.6	2.5" x 2.5" or 3" x 3"	60	UL ¹ , NSF ²	I
023018	3	3.25	N/A	N/A	1.15	208-230/460	60	9.8-9.4/4.7	2.5" x 2.5" or 3" x 3"	60	UL ¹ , NSF ²	H
023019	5	5.00	N/A	N/A	1.00	208-230/460	60	13.9-13.1/6.6	2.5" x 2.5" or 3" x 3"	72	UL ¹ , NSF ²	G
ACCESSORIES												
400012	XF Riser Base - Simplifies installation of XF-series pumps in applications where Challenger pumps are being replaced.											

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² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

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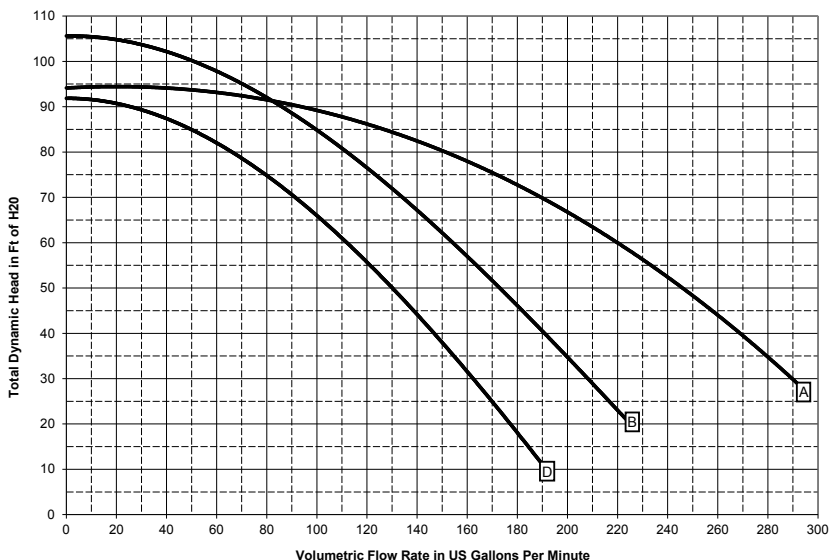
SEE PAGE 425 FOR REPLACEMENT PARTS

MAX-E-PROXF[®]

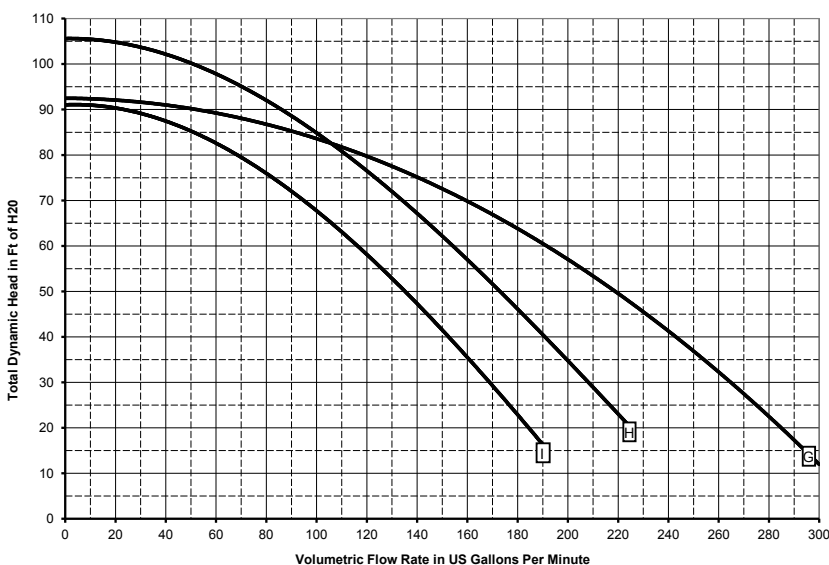
HIGH-PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance

1 & 2-Speed
Performance
Curve



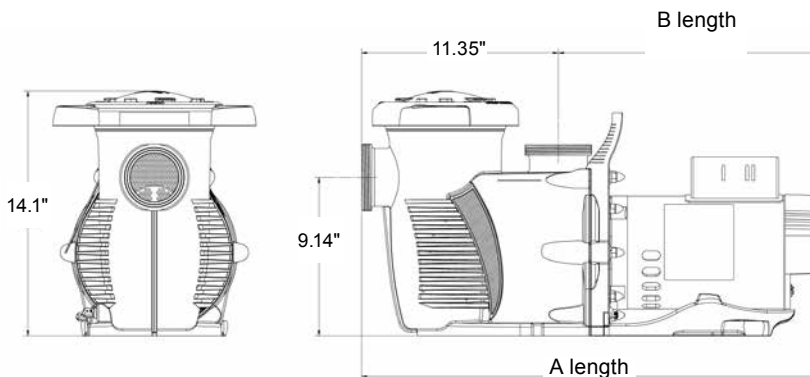
3 Phase
Performance
Curve



B-VARYING LENGTH		
HP	TEFC	3-PH
2	13.05	12.35
3	13.65	13.05

A-VARYING LENGTH		
HP	TEFC	3-PH
2	24.4	23.7
3	25	24.4

CALIFORNIA PROPOSITION 65 WARNING
 ⚠️ WARNING: Cancer and Reproductive Harm.
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 ⚠️ ADVERTENCIA: Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov



SEE PAGE 425 FOR REPLACEMENT PARTS

SUPERMAX® VS

VARIABLE SPEED PUMPS



TRADEGRADE



SuperMax VS
Variable Speed Pump

For pool owners who want to step-up to the energy and cost savings of variable speed technology, the SuperMax VS pump is a wise choice. SuperMax VS pump is engineered for easy installation, simple operation, and trouble-free service.

Featured Highlights

- Variable speed technology provides energy & costs savings *
- Ideal for standard pools requiring up to 1.5 hp pump
- 110/230V and 50/60 Hz capability
- Real-time clock with 24-hour memory retention
- Simple, intuitive user interface is easy to program and operate
- Easy to access electrical connections for simple installation
- Three operating speed settings plus override capability
- SuperMax pump by Pentair Aquatic Systems is a direct replacement for the Hayward® Super Pump® 4

Ordering Information

Product	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
SUPERMAX VS VARIABLE SPEED										
343001	2.2	9.0	1.08	1.0	115/208-230	50/60	13.6/8.0-7.1	1.5" x 1.5"	53	UL ¹ , NSF ²
ACCESSORIES										
356324Z	External Control Wiring Kit									
356197	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit (for pumps Mfg. before June 2019)								1	

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

⁴ Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

*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. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: Cancer and Reproductive Harm.

AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.

ADVERTENCIA: Cáncer y Daño Reproductivo.

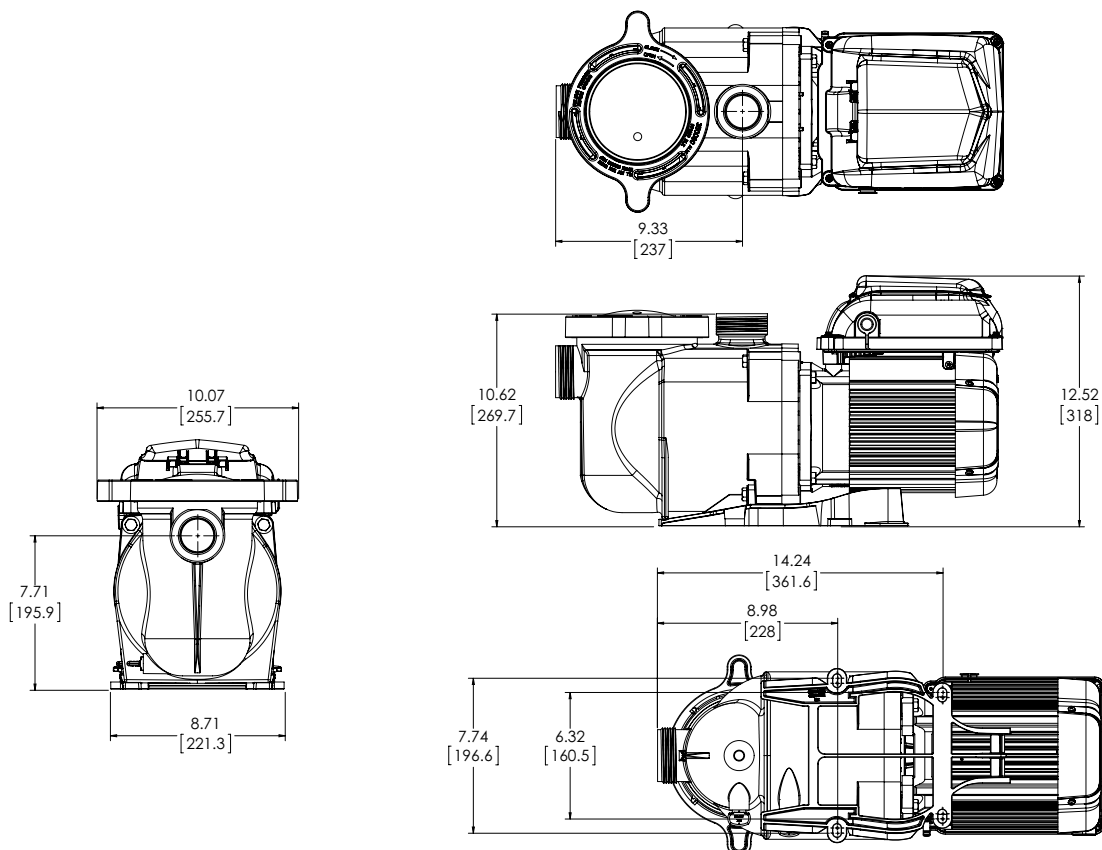
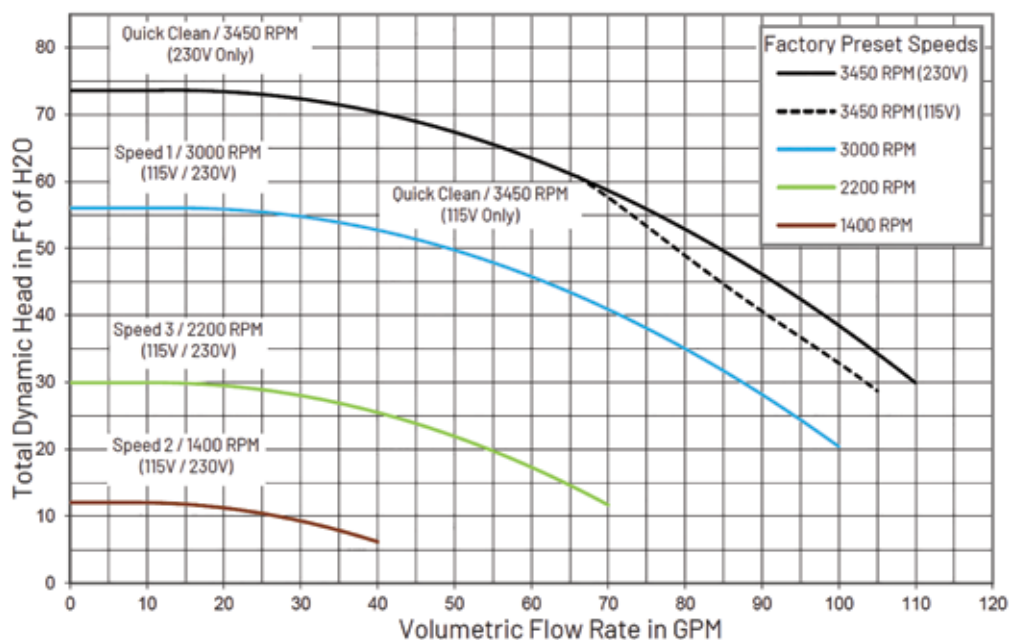
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SUPERMAX® VS

VARIABLE SPEED PUMPS (CONT'D)

Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

SUPERMAX®

HIGH PERFORMANCE PUMPS



TRADEGRADE



SuperMax Pump
shown with TEFC Motor

Featured Highlights

- SuperMax pump by Sta-Rite is a direct replacement for the Hayward® Super Pump® *
- Single and two-speed models ranging from 1/2 to 2-1/2 HP
- Cam and Ramp™ Lid locks and unlocks with a simple quarter turn
- Exterior thermoplastic resin withstands temperature extremes and delivers long life
- Unionized fittings included (1-1/2 in. internal slip and 2 in. external slip)

The SuperMax pump features a commercial grade, 56 square flange motor for top performance in residential swimming pools. Consumers enjoy its economical performance. Pool professionals benefit from its ease of installation and reliability.

Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
DOE COMPLIANT SINGLE-SPEED TEFC												
348191	N/A	1.1	3.6	0.63	1.00	115/208-230	60	10.5/5.4-5.4	1.5" x 1.5"	50	UL, NSF	B
ENERGY EFFICIENT SINGLE-SPEED - NOT FOR SALE IN THE USA												
PHK2E6D-101L-INT	3/4	0.95	N/A	N/A	1.00	115/208-230	60	8.8/4.5-4.4	1.5" x 1.5"	44	UL, NSF	A
TEFC SINGLE-SPEED - NOT FOR SALE IN THE USA												
348147-INT	1	1.65	N/A	N/A	1.00	115/208-230	60	15.1/8.5-7.7	1.5" x 1.5"	50	UL, NSF	C
348148-INT	1-1/2	2.21	N/A	N/A	1.00	208-230	60	10.3-9.1	1.5" x 1.5"	53	UL, NSF	D
348149-INT	2	2.60	N/A	N/A	1.00	208-230	60	11.7-10.3	1.5" x 1.5"	58	UL, NSF	E
ACCESSORIES												
351157	Union Kit – 1-1/2 in. Internal Slip x 2 in. External Slip - includes 2									1		
356197	Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit									1		

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

CALIFORNIA PROPOSITION 65 WARNING

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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
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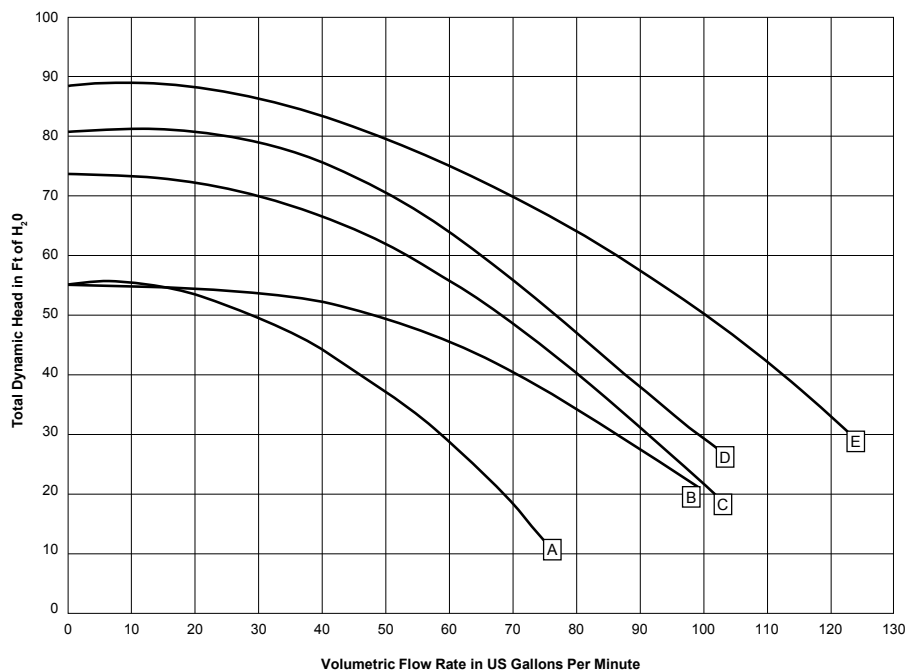
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SEE PAGE 425 FOR REPLACEMENT PARTS

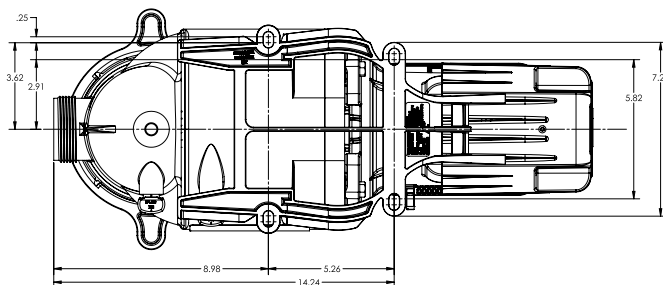
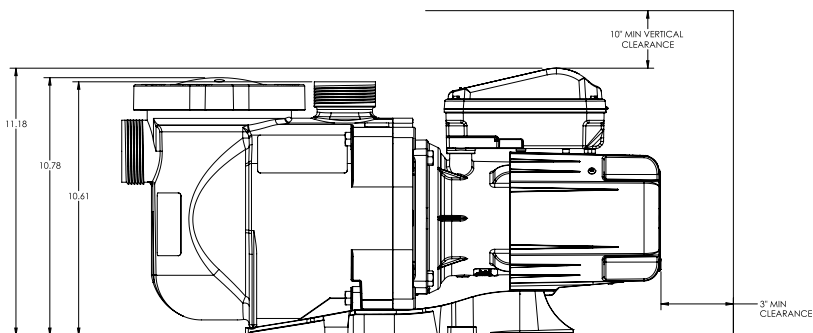
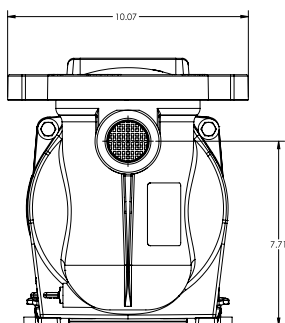
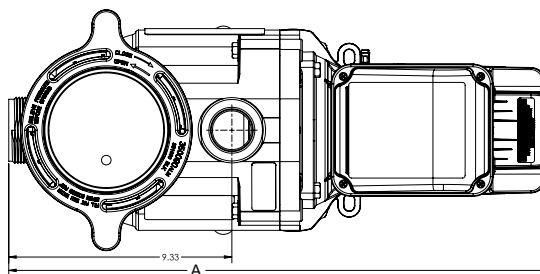
SUPERMAX®

HIGH-PERFORMANCE PUMPS (CONT'D)

Dimensions and Performance



A- VARYING LENGTH			
HP	EE	TEFC	DOE Compliant
0.5	24.64	—	—
0.75	24.64	—	—
1	—	22	—
1.1	—	—	22.55
1.5	—	22.45	—
2	—	22.9	—



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

WHISPERFLOXF[®] VS

COMMERCIAL VARIABLE SPEED PUMP

TRADEGRADE



WhisperFloXF VS Pump

WhisperfloXF pump is an economical, combined motor/drive solution for HMAC (hotel, motel, apartment, condominium) or large residential installations, providing sophisticated, energy-saving pump technology without the high costs typically associated with independent pump/external drive setups.

Featured Highlights

- Integrated 5HP motor/drive; no expensive external drive required
- Versatile power input capability; runs off a wide range of single- or three-phase power
- Speed or flow control for greater efficiency and pool performance*
- External control capability through automation systems or relays
- Intuitive programming and operation
- Meets commercial codes and agency requirements

Ordering Information

Product	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
WHISPERFLOXF VARIABLE SPEED										
022035	5.0	5.0	2.09	1.00	Single-Phase: 208-230/277-460 Three-Phase: 208-460	50/60	Single-Phase: 20-21/17-11 Three-Phase: 13-6	2.5" x 2.5" or 3" x 3"	95	UL ¹ , NSF ²
ACCESSORIES										
356324Z	RS-485 Automation Wiring Kit, 25 ft.									
400012	XF Riser Base - Simplifies installation of XF-series pumps in application where Challenger Pumps are being replaced.									

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

*When connected to Pentair's inline 4-20mA flowmeter for 3" plumbing (P/N 97014-4203KIT—sold separately), or similar 4-20mA flowmeters, this pump is capable of maintaining a constant flow based on the needs of your pool system. To connect the flowmeter and pump, the digital input cable provided in the External Control Wiring Kit (P/N 356324Z sold separately) is required.

CALIFORNIA PROPOSITION 65 WARNING

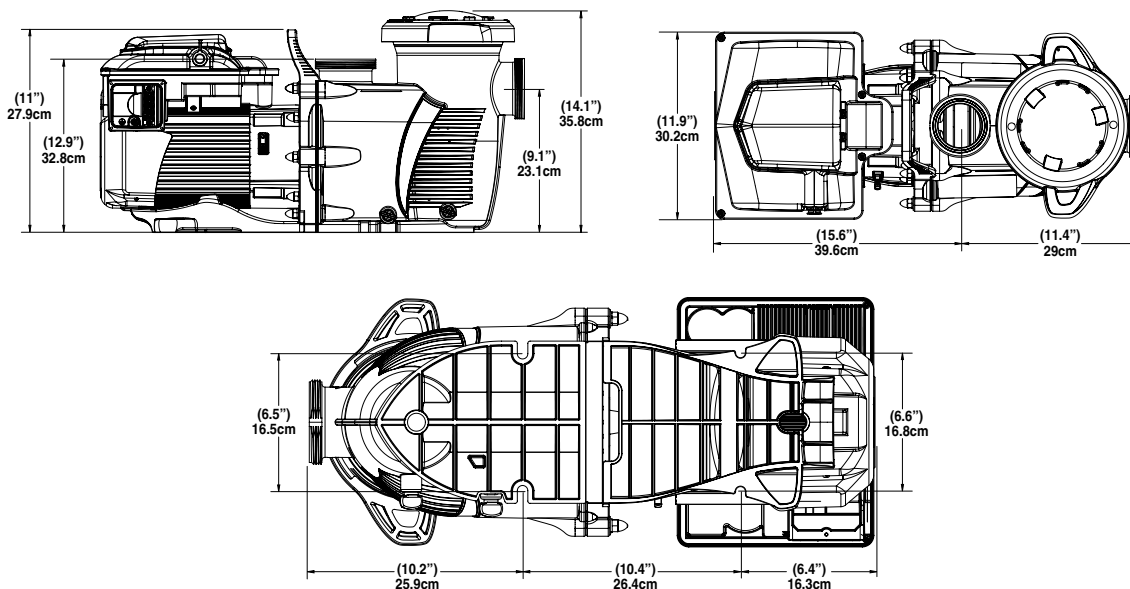
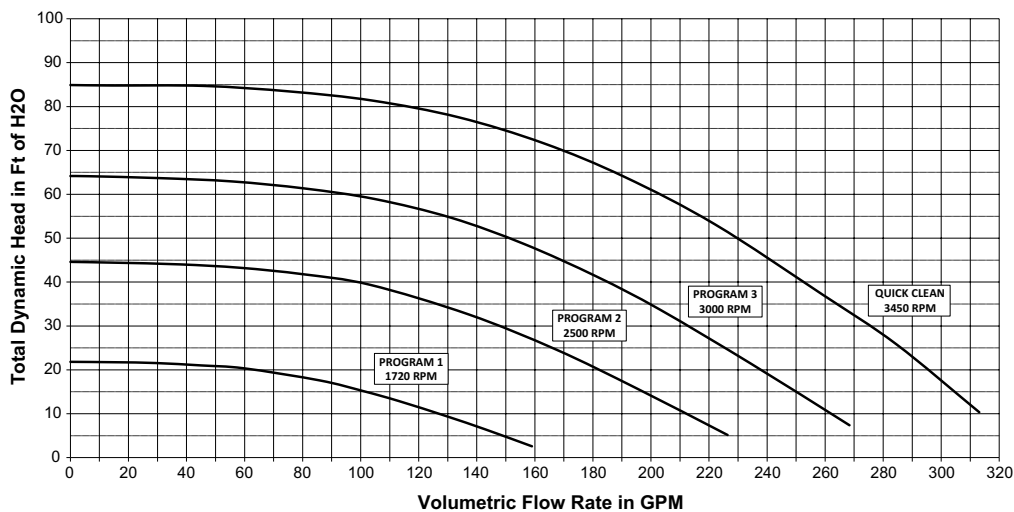
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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
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SEE PAGE 425 FOR REPLACEMENT PARTS

WHISPERFLOXF VS

COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

MAX-E-PROXF® VS

COMMERCIAL VARIABLE SPEED PUMP



TRADEGRADE



Max-E-ProXF VS Pump

Variable speed pump that runs on single-phase or three-phase power. It's economical, combined motor/drive solution for HMAc (hotel, motel, apartment, condominium) or large residential installations, providing sophisticated, energy-saving pump technology without the high costs typically associated with independent pump/external drive setups.

Featured Highlights

- Integrated 5HP motor/drive; no expensive external drive required
- Versatile power input capability; runs off a wide range of single- or three-phase power
- Speed or flow control for greater efficiency and pool performance*
- External control capability through automation systems or relays
- Intuitive programming and operation
- Meets commercial codes and agency requirements

Ordering Information

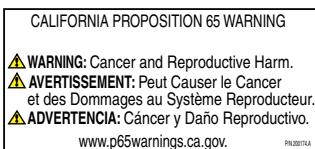
Product	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
MAX-E-PROXF VARIABLE SPEED										
023035	5.0	5.0	2.09	1.00	Single-Phase: 208-230/277-460 Three-Phase: 208-460	50/60	Single-Phase: 20-21/17-11 Three-Phase: 13-6	2.5" x 2.5" or 3" x 3"	95	UL ¹ , NSF ²
ACCESSORIES										
356324Z	RS-485 Automation Wiring Kit, 25 ft.									
400012	XF Riser Base - Simplifies installation of XF-series pumps in application where Challenger Pumps are being replaced.									

¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

*When connected to Pentair's inline 4-20mA flowmeter for 3" plumbing (P/N 97014-4203KIT—sold separately), or similar 4-20mA flowmeters, this pump is capable of maintaining a constant flow based on the needs of your pool system. To connect the flowmeter and pump, the digital input cable provided in the External Control Wiring Kit (P/N 356324Z sold separately) is required.

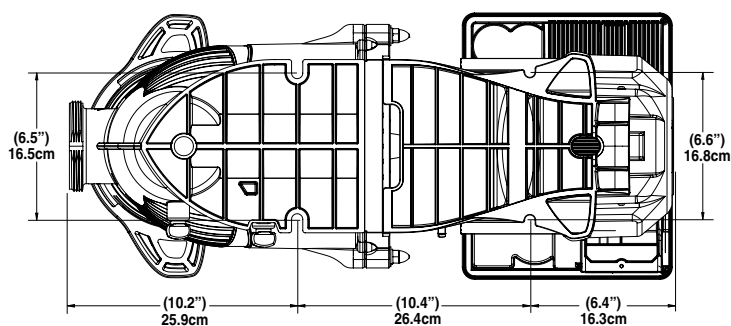
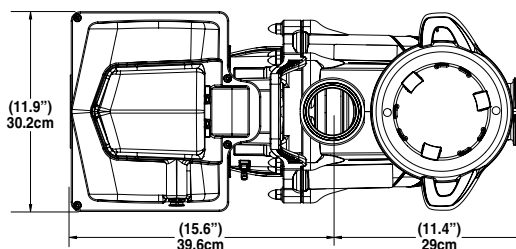
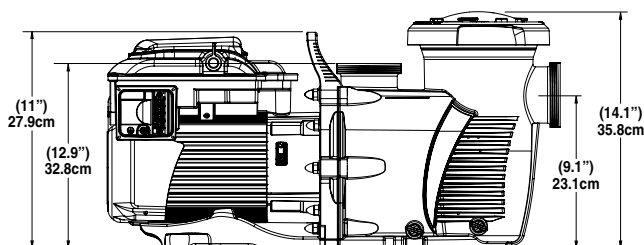
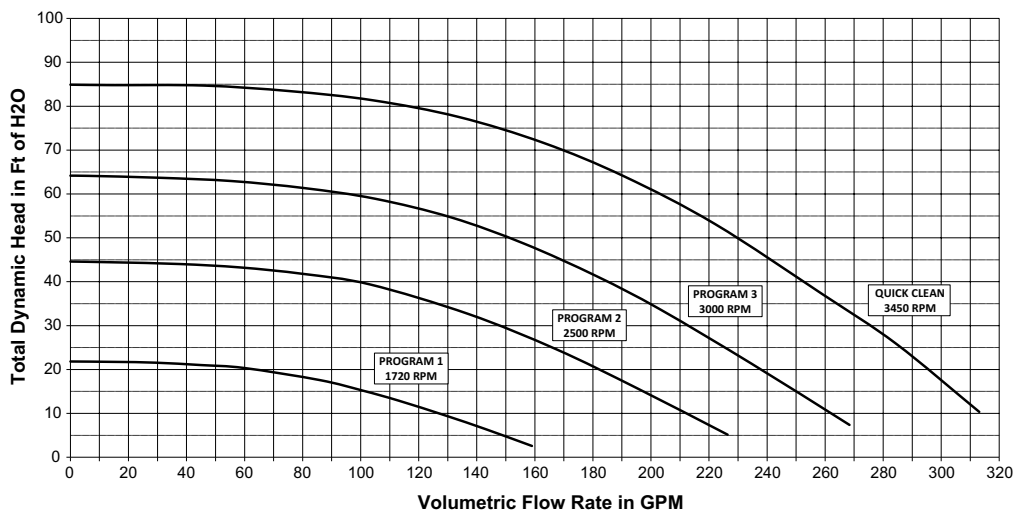


SEE PAGE 425 FOR REPLACEMENT PARTS

MAX-E-PROXF[®] VS

COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

COMMERCIAL ACU DRIVE™ XS

VARIABLE FREQUENCY DRIVE



Featured Highlights

- Save up to 60% or more on pump's electricity usage*
- "Right-size" your pump to the exact flow required
- Helps save energy with constant flow as the filters get dirty (with optional flow sensor)
- Off-hour flow management capability
- Does not blow corrosive filter-room air across the circuitry
- High efficiency up to 98% – adjusts drive input voltage for best efficiency point
- Eliminates need for motor starters
- Integrated disconnects, fusing and optional bypasses
- 2-step ramps (Soft Start Feature)
- Real-time clock for time based functions
- Great match for 3-phase models of EQ Series® Pumps
- Overload trip protection helps protect motor and Acu Drive XS VF Drive from Voltage Spikes and phase unbalance
- Can connect to an IntelliTouch® Automation System
- 3-year manufacturers warranty, Optional 6-year warranty available
- Optional: Factory Start-up upgrade available
- Indoor & Outdoor-rated enclosures
- One drive type for the full power range
- For use with 3 phase pumps only
- Acu Drive XS VF Drives with single phase input power available

The Acu Drive XS VF Drive offers built-in intelligence for increased performance in all aquatic pump applications. Specified for energy and cost savings, the Acu Drive XS VF Drive offers a fast return on investment. The Acu Drive XS VF Drive allows the pump to run at its most efficient point on the curve. Preventative maintenance costs may drop due to motor protection, motor soft start, and a significant decrease in water hammer protecting the shaft and impeller. Up to an additional 5% savings due to the Acu Drive XS VF Drive's ability to balance power phase and harmonic suppression. Built with powerful standard and optional features specifically designed for energy optimization, the Acu Drive XS VF Drive is perfectly matched with the full line of Pentair Commercial pumps.

CALIFORNIA PROPOSITION 65 WARNING

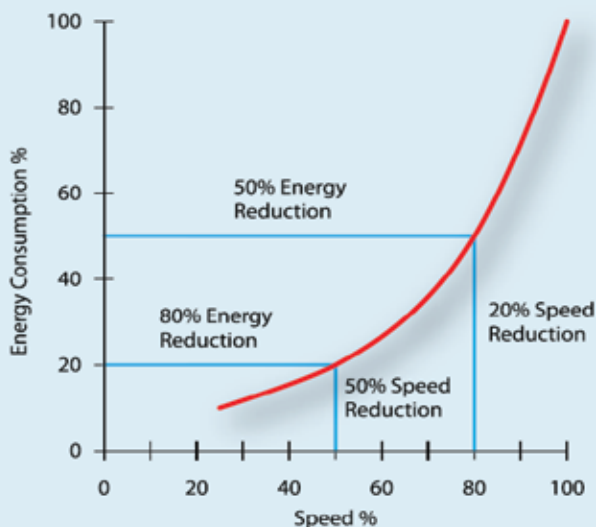
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Affinity Law

Significant Energy Savings are achieved with even a modest reduction in speed

Ideal Energy Consumption at Varying Speed



*Savings based on single speed pool pumps traditionally configured without VFD's, up to 20% larger than actual required flow and head pressure. 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.

COMMERCIAL ACU DRIVE™ XS

VARIABLE FREQUENCY DRIVE (CONT'D)

Ordering Information

3-PHASE INCLUDES FUSED DISCONNECT, BATTERY BACKUP, & PENTAIR SMART START*						
Horse Power (HP)	NEMA-12 RATED (IP 54/55)			NEMA-4X RATED (IP 66)		
	200-240 VAC	360-480 VAC	525-600 VAC	200-240 VAC	360-480 VAC	525-600 VAC
3	AD030X-2303-N12	AD030X-4603-N12	AD030X-5753-N12	AD030X-2303-N4X	AD030X-4603-N4X	AD030X-5753-N4X
5	AD050X-2303-N12	AD050X-4603-N12	AD050X-5753-N12	AD050X-2303-N4X	AD050X-4603-N4X	AD050X-5753-N4X
7-1/2	AD075X-2303-N12	AD075X-4603-N12	AD075X-5753-N12	AD075X-2303-N4X	AD075X-4603-N4X	AD075X-5753-N4X
10	AD100X-2303-N12	AD100X-4603-N12	AD100X-5753-N12	AD100X-2303-N4X	AD100X-4603-N4X	AD100X-5753-N4X
15	AD150X-2303-N12	AD150X-4603-N12	AD150X-5753-N12	AD150X-2303-N4X	AD150X-4603-N4X	AD150X-5753-N4X
20	AD200X-2303-N12	AD200X-4603-N12	AD200X-5753-N12	AD200X-2303-N4X	AD200X-4603-N4X	AD200X-5753-N4X
25	AD250X-2303-N12	AD250X-4603-N12	AD250X-5753-N12	AD250X-2303-N4X	AD250X-4603-N4X	AD250X-5753-N4X

SINGLE-PHASE INPUT DRIVES (FOR USE WITH 3-PHASE PUMPS ONLY)
INCLUDES STANDARD DISCONNECT ONLY (NO FUSES), BATTERY BACKUP, & PENTAIR SMART START*

Horse Power (HP)	NEMA-12 RATED (IP 54/55)	NEMA-4X RATED (IP 66)
	200-240 VAC	200-240 VAC
3	AD030X-2301-N12	AD030X-2301-N4X
5	AD050X-2301-N12	AD050X-2301-N4X
7-1/2	AD075X-2301-N12	AD075X-2301-N4X
10	AD100X-2301-N12	AD100X-2301-N4X
15 - 20	AD200X-2301-N12	AD200X-2301-N4X

For 30HP and higher - Please contact factory.

3-PHASE Units available with Optional Bypass Contactor mounted to common back plate. Please contact factory.

*Startup Services

CERTIFIED START-UP ASSISTANCE BY TRAINED TECHNICIANS IS AVAILABLE FOR PURCHASE WITH ALL ACU DRIVE VFD's.
USE PRODUCT NUMBERS AS FOLLOWS:

AD-SUFW01 Batch Startup for 4-6 standard drives (8 hr. onsite / day)

Optional Accessories and Warranties

"ENHANCED SERVICE WARRANTY - ON SITE"
INCLUDES PARTS, LABOR, TRAVEL AND ON-SITE WARRANTY REPAIR.
USE PRODUCT NUMBERS AS FOLLOWS:"

DURATION	200-240 VAC		360-480 VAC	
	3 HP & Below	5-25 HP	10 HP & Below	15-40 HP
6 YEARS	AD-EWW172	AD-EWW272	AD-EWW172	AD-EWW272

Flow Sensor Options

ACU DRIVE XS - FLOW SENSOR KITS					
Pipe Size (inches)	NEMA-12 RATED (IP 54/55)		NEMA-4X RATED (IP 66)		
	200-240 VAC	525-600 VAC	200-240 VAC	525-600 VAC	
2"	97014-4202KIT	Includes:	—	Includes:	
3"	97014-4203KIT	• Sch80 PVC Clamp-on Pipe Saddle.	97014BL-03KIT	• Sch80 PVC Clamp-on Pipe Saddle(3"-8").	
4"	97014-4204KIT	• 100 linear feet shielded signal wire.	97014BL-04KIT	• Iron Saddle (10"-14").	
6"	97016-4206KIT	• Strain relief connector.	97016BL-06KIT	• 100 linear feet shielded signal wire.	
8"	97016-4208KIT	Does <u>not</u> include separate wall-mount flow display.	97016BL-08KIT	• Strain relief connector.	
10"	—		97020BL-10KIT	Separate wall-mount flow display/transmitter.	
12"	—		97020BL-12KIT		
14"	—		97020BL-14KIT		

*Additional charges will apply if on-site start-up exceeds four hours (including round-trip travel) per Acu Drive XS Drive.

Other options and add-ons are available including "Bypass Contactors", and "Contact Motor Select" upgrades, and additional on-site technical training. For more information on these options, other sizes, or applications assistance call 1-800-831-7133.

Some pump motors (e.g. 230/460V versions) can be wired to accommodate multiple voltages. This is not true of VFDs. In order to ensure proper VFD selection, the actual pump motor input voltage must be consistent with the drives operating range as shown.

The Acu Drive VF Drive is recommended for use with all "High" or "Premium" efficiency motors and all motors that have Class F insulation or better. For all non-Class F motors, please contact the factory for proper selection of Acu Drive XS Drive and accessories.

Standard Acu Drive XS VF Drives can be returned within 12 months of invoice only if unused, in original packaging, and subject to a 35% restocking charge. Special drives are non-returnable.

Nema Rated 12 enclosure provides protection against dust, dirt and light splashing. Nema Rated 12 units may be used outdoors when sheltered from direct precipitation and sunlight.

Nema Rated 4X enclosure provides a degree of protection against solid foreign objects(windblown dust), water(rain, sleet, snow, splashing water, and hose directed water), and an additional level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.

CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.
⚠ AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.
⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov. PN000174

EQ SERIES®

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER

EQ Series TEFC Pump
with StrainerEQ Series Pump
without Strainer

Commercial Plastic pump built specifically for commercial and large residential pools. Pump features electrical and hydraulic designs that helps reduce wear and tear on critical moving parts, and is lightweight for ease of installation.

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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov P/N 200114

Featured Highlights

- Efficiency 3-phase motors
- Commercial grade, non-corrosive Plastic Parts for durability and long life
- Now available in TEFC and ODP 3-phase motor options
- Cam and Ramp™ See -Through Lid
- Self-priming with Hair and Lint Strainer
- Light weight
- 3-phase models compatible with Acu Drive™ XS VF Drive
- Drop-in replacement for C Series® and CSP Series™ Pumps
- Waterfall models great for low head, high flow applications
- Easy cleaning and serviceability
- 50 Hz models available -contact factory

Ordering Information

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ⁶	Port Size (ANSI Flange)	Motor Class	Carton Wt. (Lbs.)	Curve Key
NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITHOUT STRAINER - TEFC											
▶ 340608	EQKT-500	208-230/460	13.4-12.2/6.1	5	1.25	6.25	NSF ² , UL ⁷	6 in x 4 in	F	97	D
▶ 340609	EQKT-750	208-230/460	19.9-17.8/8.9	7.5	1.25	9.38	NSF ² , UL ⁷	6 in x 4 in	F	117	E
▶ 340610	EQKT-1000	208-230/460	26.4-23.5/11.7	10	1.25	12.50	NSF ² , UL ⁷	6 in x 4 in	F	163	F
▶ 340611	EQKT-1500	208-230/460	39.0-36.0/18.0	15	1.25	18.75	NSF ² , UL ⁸	6 in x 4 in	F	177	G
NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITHOUT STRAINER - 575 VOLT - ODP											
▶ 340148	EQK-500	575	5.1	5	1.15	5.75	NSF ²	6 in. x 4 in.	F	77	D
▶ 340149	EQK-750	575	7.2	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	F	87	E
▶ 340150	EQK-1000	575	10.2	10	1.15	11.50	NSF ²	6 in. x 4 in.	F	117	F
▶ 340151	EQK-1500	575	15.0	15	1.15	17.25	NSF ²	6 in. x 4 in.	F	132	G
PREMIUM EFFICIENCY SINGLE PHASE POOL PUMP WITH STRAINER - ODP											
▶ 340030	EQ-500	230	20.0	5	1.15	5.75	NSF ³ , ETL ⁵	6 in. x 4 in.	F	126	A
▶ 340032	EQ-750	230	30.4	7.5	1.15	8.63	NSF ³	6 in. x 4 in.	F	161	B
▶ 340238	EQ-1000	230	40.0	10	1.15	11.50	NSF ³	6 in. x 4 in.	F	160	C
NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - ODP											
▶ 340031	EQK-500	208-230/460	13.5-12.3/6.2	5	1.15	5.75	NSF ³	6 in. x 4 in.	F	106	D
▶ 340033	EQK-750	208-230/460	20.1-18.3/9.1	7.5	1.15	8.63	NSF ³	6 in. x 4 in.	F	116	E
▶ 340034	EQK-1000	208-230/460	27.0/26.2-13.1	10	1.15	11.50	NSF ³	6 in. x 4 in.	F	146	F
▶ 340035	EQK-1500	208-230/460	40.0-36.0/17.8	15	1.15	17.25	NSF ³	6 in. x 4 in.	F	161	G
NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - TEFC											
▶ 340604	EQKT-500	208-230/460	13.4-12.2/6.1	5	1.25	6.25	NSF ³ , UL ⁷	6 in x 4 in	F	127	D
▶ 340605	EQKT-750	208-230/460	19.9-17.8/8.9	7.5	1.25	9.38	NSF ³ , UL ⁷	6 in x 4 in	F	147	E
▶ 340606	EQKT-1000	208-230/460	26.4-23.5/11.7	10	1.25	12.50	NSF ³ , UL ⁷	6 in x 4 in	F	193	F
▶ 340607	EQKT-1500	208-230/460	39.0-36.0/18.0	15	1.25	18.75	NSF ³ , UL ⁸	6 in x 4 in	F	207	G

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

SEE PAGE 425 FOR REPLACEMENT PARTS

EQ SERIES®

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER (CONT'D)

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ⁶	Port Size (ANSI Flange)	Motor Class	Carton Wt. (Lbs.)	Curve Key
NEMA RATED PREMIUM EFFICIENCY THREE PHASE POOL PUMP WITH STRAINER - ODP - 575 VOLT											
▶ 340155	EQK-500	575	5.1	5	1.15	5.75	NSF ³	6 in. x 4 in.	F	106	D
▶ 340156	EQK-750	575	7.2	7.5	1.15	8.63	NSF ³	6 in. x 4 in.	F	116	E
▶ 340157	EQK-1000	575	10.2	10	1.15	11.50	NSF ³	6 in. x 4 in.	F	146	F
▶ 340159	EQK-1500	575	15.0	15	1.15	17.25	NSF ³	6 in. x 4 in.	F	161	G
HAIR AND LINT STRAINER WITH CAM AND RAMP LID, BASKET AND HARDWARE											
340013	EQ 6X6 Strainer						NSF ⁴	6 in. x 6 in.		33	J
EQ SERIES PUMP ACCESSORIES FLANGE ASSEMBLY KITS											
357262	Flange 4 in. w/ gasket and SS hardware ¹						(See images on next page)			20	
357263	Flange 6 in. w/ gasket and SS hardware ¹						(See images on next page)			23	
357212	Flange 6 in. w/ gasket and SS hardware. For use on EQ Pumps without Strainer.									23	

¹ Thermoplastic PVC socket style.

² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Non Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

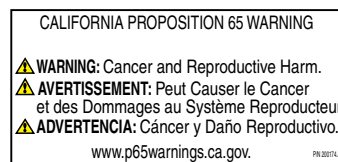
⁴ 'NSF' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

⁵ 'ETL' indicates that pump bears a specific ETL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools And Spas. (Enclosure 3).

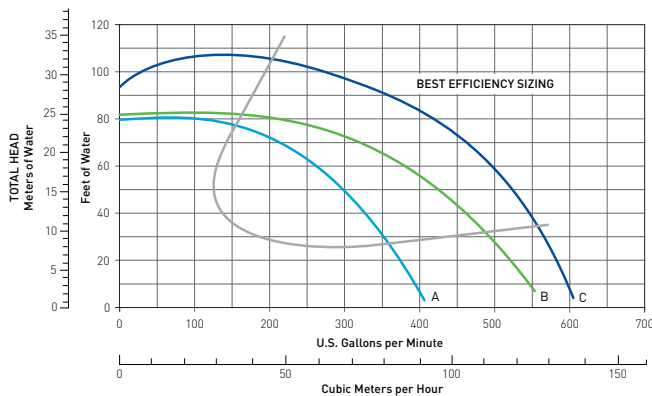
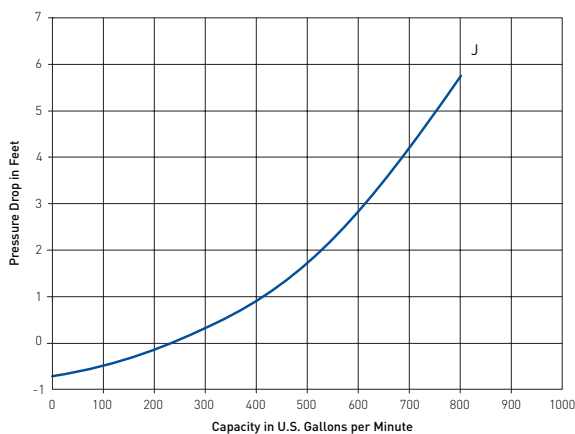
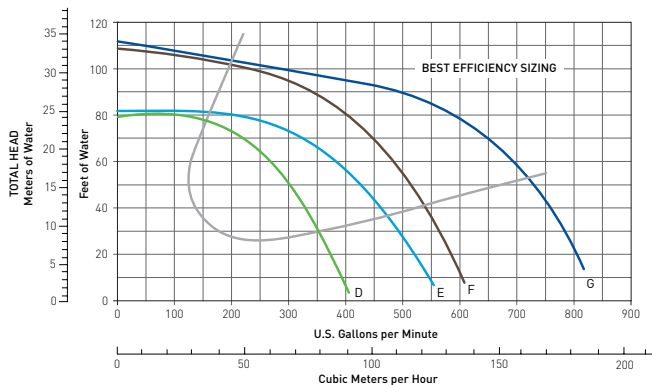
⁶ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

⁷ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

⁸ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps.



Dimensions and Performance - See next page.

EQ SERIES®**COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER (CONT'D)****Dimensions and Performance****Single Phase Pumps - EQ Models****EQ Strainer Only****Three Phase Pumps - EQK Models**

For detailed efficiency curves go to www.pentaircommercial.com

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

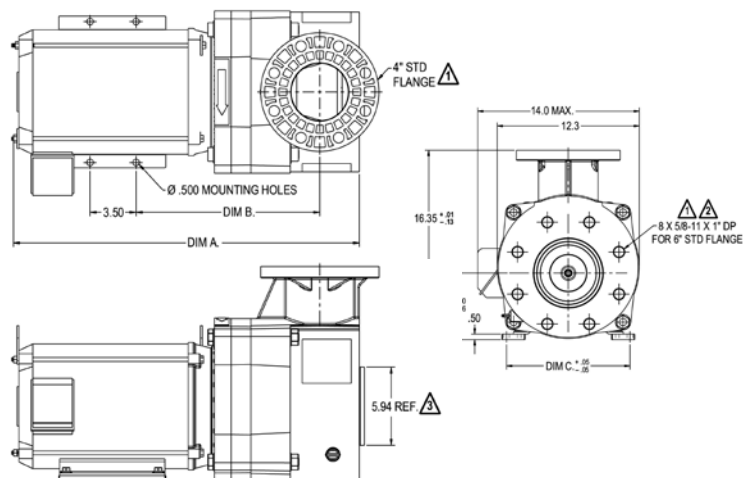
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EQ SERIES®

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER
(CONT'D)

Dimensions and Performance

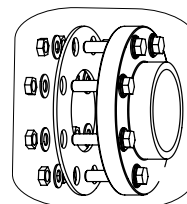
EQ Series Commercial Pump without Strainer



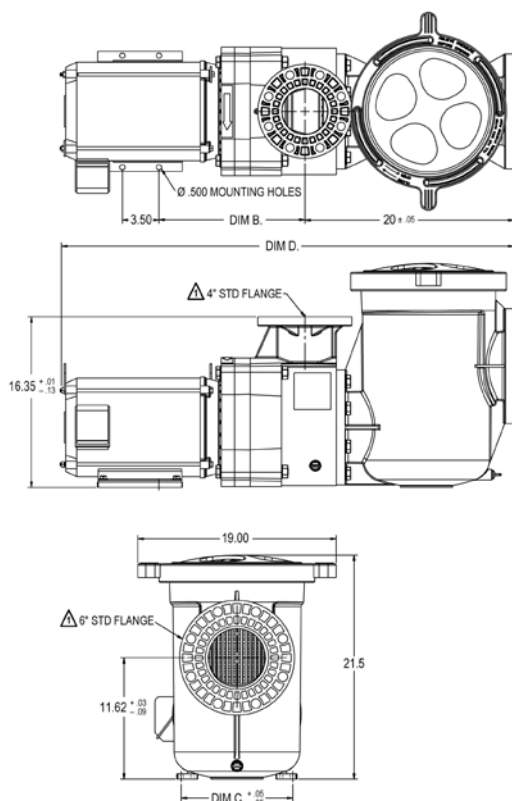
CALIFORNIA PROPOSITION 65 WARNING

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www.p65warnings.ca.gov

PR 200714A

EQ Series Pump
Flange Assembly Kit

EQ Series Commercial Pump with Strainer



Product No W/O Pot	Product No. W/ Pot	Dim A*	Dim B*	Dim C*	Dim D*
340014	340026	26.62	13.32	9.69	43.59
340017	340028	26.62	14.21	9.69	43.59
340019	340030	26.62	13.32	9.69	43.59
340021	340032	27.53	14.21	10.69	44.59
340237	340238	26.94	14.03	10.69	43.92
340016	340027	23.12	13.32	9.69	40.09
340018	340029	23.12	13.32	9.69	40.09
340020	340031	23.12	13.32	9.69	40.09
340022	340033	24.50	13.32	9.69	41.56
340023	340034	26.31	14.38	10.69	43.29
340024	340035	26.31	14.38	10.69	43.29
340148	340155	24.62	13.32	7.50	41.59
340149	340156	24.62	13.32	7.50	41.59
340150	340157	26.31	14.07	8.50	43.29
340151	340159	26.31	14.07	8.50	43.29
340608	340604	24.52	13.48	9.69	41.50
340609	340605	26.52	14.19	10.69	43.50
340610	340606	28.02	14.19	10.69	45.00
340611	340607	28.02	14.19	10.69	45.00
340086	340082	24.62	13.48	9.69	41.59
340085	340081	24.62	13.48	9.69	41.59
340084	340080	28.31	14.19	10.69	45.29
340083	340049	28.31	14.19	10.69	45.29
340048	340046	28.31	14.19	10.69	45.29
340047	340045	28.31	14.19	10.69	45.29

* This value may vary slightly depending upon manufacturer and motor design.

- ⚠ FASTENERS AND O-RING ARE INCLUDED WITH PENTAIR POOL PRODUCTS EQ 6X6 STRAINER TO CONNECT STRAINER DIRECTLY TO EQ SERIES PUMP. IF PUMP IS TO BE INSTALLED WITHOUT STRAINER MAKE BOTH CONNECTIONS PER NOTE 1.
- ⚠ USE ANSI CLASS 150 PLASTIC FLANGE AND 1/8 in. THICK CLASS 150 FULL FLANGE GASKET TO MAKE CONNECTION.
- ⚠ THIS DIAMETER FITS INSIDE 6 in. SCH 40 PIPE. DO NOT USE SCH 80 PIPE AS FINAL PIPE SIZE WHEN MAKING THIS FLANGE CONNECTION.

C SERIES®

COMMERCIAL BRONZE PUMPS



C Series Commercial Bronze Pump

Bronze volute and pot, coated cast iron foot, flanged connections, 6 in. suction, 4 in. discharge.

Featured Highlights

- Large commercial pump with s/s basket
- Easy serviceability
- All-bronze construction for strength and durability
- 6 in. suction and 4 in. discharge for maximum capabilities
- Heavy-gauge stainless steel strainer basket with an open area 5 times the area of the suction port
- Closed impeller for longer motor bearing life
- Heat-resistant seal capable of operation at up to 150°
- Available in single and three-phase, 50 and 60-Hertz models
- For 200-208v applications order 200-208v model pump

Ordering Information

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ²	Motor Class	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
NEMA RATED STANDARD EFFICIENCY THREE PHASE 220/440V											
► 011657	CHK-50	220/440	13.0/6.5	5	1.15	5.75	NSF ¹	F	6 in. x 4 in.	336	A
► 011658	CHK-75	220/440	18.4/9.2	7-1/2	1.15	8.63	NSF ¹	F	6 in. x 4 in.	349	B
► 011659	CHK-100	220/440	25.3/12.6	10	1.15	11.50	NSF ¹	B	6 in. x 4 in.	376	C
► 011660	CHK-150	220/440	37.5/18.8	15	1.15	17.25	NSF ¹	B	6 in. x 4 in.	398	D
► 011661	CHK-200	220/440	49.0/24.6	20	1.15	23.00	NSF ¹	F	6 in. x 4 in.	403	E

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
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 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

► This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

SEE PAGE 425 FOR REPLACEMENT PARTS

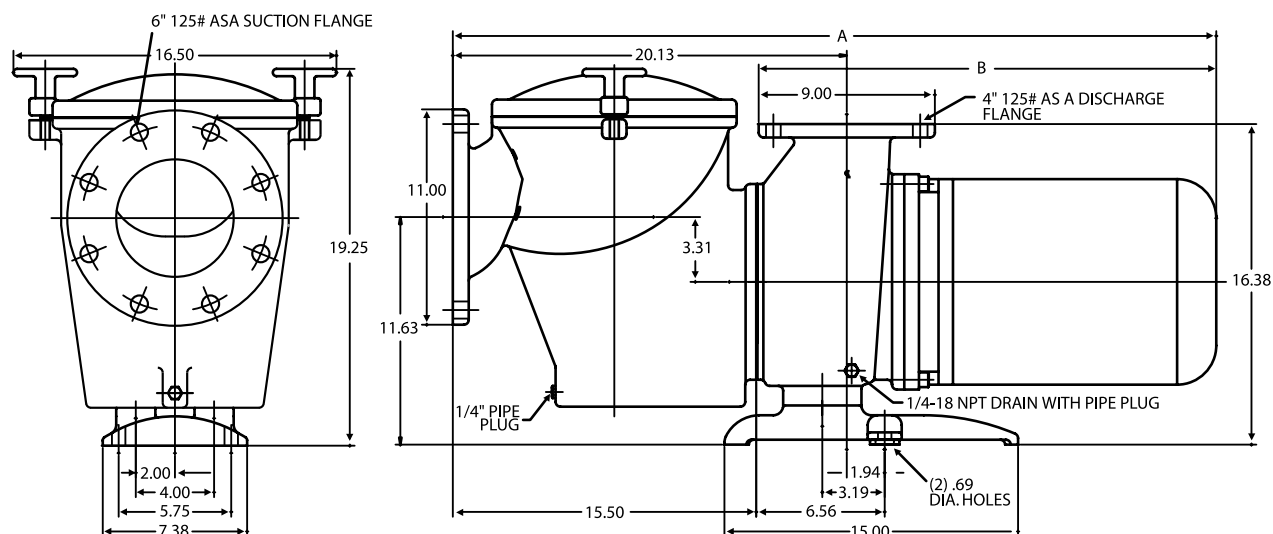
C SERIES®**COMMERCIAL BRONZE PUMPS (CONT'D) WITH HAIR AND LINT STRAINER**

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ²	Motor Class	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
NEMA RATED STANDARD EFFICIENCY THREE PHASE 575V											
▶ 347967	CHK-50	575	5.6	5	1.15	5.75	NSF ¹	F	6 in. x 4 in.	336	A
▶ 347935	CHK-200	575	19.5	20	1.15	23.00	NSF ¹	F	6 in. x 4 in.	406	E
NEMA RATED STANDARD EFFICIENCY THREE PHASE 380-415V- 50 HZ											
▶ 014884	CHKL-200	380-415	28.0-26.0	20	1.15	23.00	NSF ¹	F	6 in. x 4 in.	403	

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

¹ "NSF" indicates that pump has been certified to NSF/ANSI 50, the Standard for Equipment for swimming pools, spas, hot tubs and other recreational water features.

² Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

Dimensions and Performance

PUMP DIMENSIONS			
THREE-PHASE AMPS @ 220/440 & 380/415 V			
HP	AMPS	A	B
5	14	34.88	19.50
7.5	20	35.88	20.50
10	26	36.88	22.50
15	38	37.38	22.00
20	46	37.88	23.50

PUMP DIMENSIONS			
SINGLE-PHASE AMPS @ 230 VOLTS			
HP	AMPS	A	B
5	26	35.50	20.50
7.5	37	35.88	20.50

PUMP DIMENSIONS			
SINGLE-PHASE AMPS @ 200 VOLTS			
HP	AMPS	A	B
5	29	35.50	20.50
7.5	39.6	35.88	20.50

NOTES:

1. BOTH "A" AND "B" DIMENSIONS ARE APPROXIMATE IT DEPENDS ON MOTOR MANUFACTURER.

2. ALL DIMENSIONS ARE IN INCHES AND MAY VARY ± .25.

C SERIES®

COMMERCIAL BRONZE PUMPS (CONT'D) WITHOUT HAIR AND LINT STRAINER



C Series Commercial Bronze Pump
without Hair and Lint Strainer

Featured Highlights

- High-performance motors for maximum flow
- All-bronze construction for strength and durability
- 5 in. suction and 4 in. discharge for maximum capabilities
- Closed impeller for longer motor bearing life
- Heat-resistant seal capable of operation at up to 150°
- Available in single and three-phase, 50 and 60-hertz models
- For 200-208v applications order 200-208v model pump

Ordering Information

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ³	Motor Class	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
C SERIES & AURORA PUMP ACCESSORIES FLANGE ASSEMBLY KITS											
357260	Flange 5 in. w/ gasket and SS hardware ¹									22	
357262	Flange 4 in. w/ gasket and SS hardware ¹									20	
357263	Flange 6 in. w/ gasket and SS hardware ¹									23	

► This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

¹ Thermoplastic PVC socket style

² 'NSF(1)' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Non Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

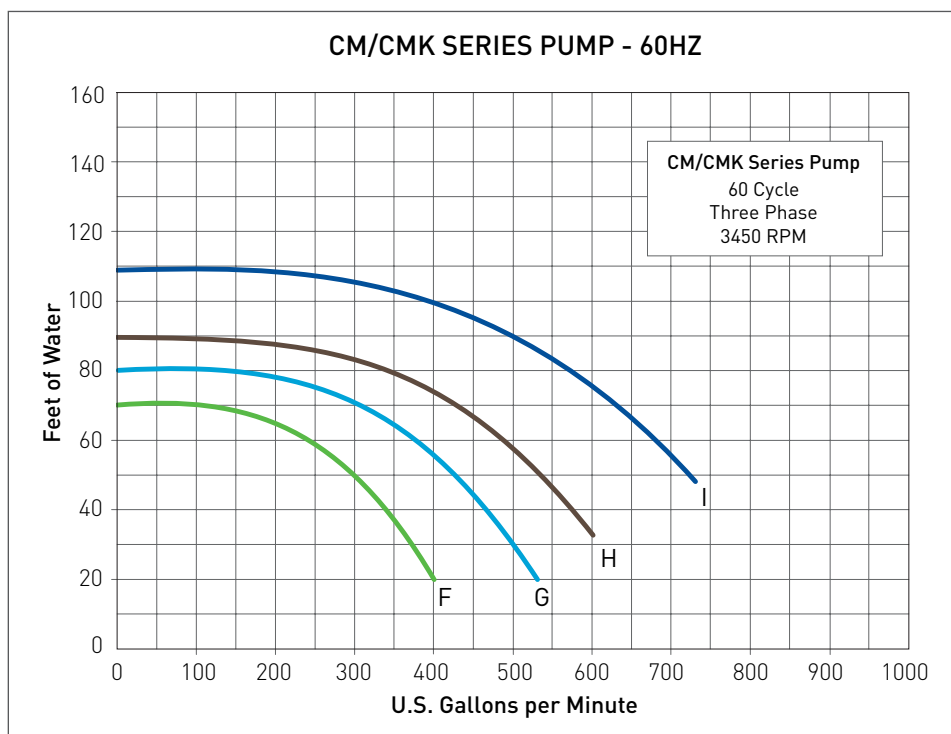
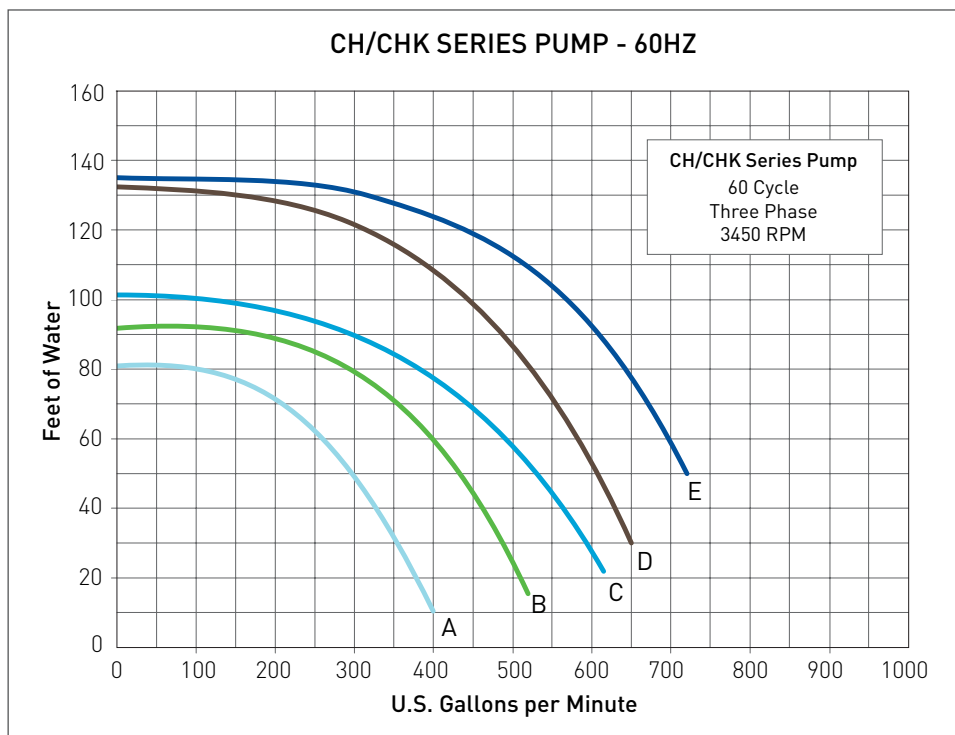
CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
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 et des Dommages au Système Reproducteur.
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

SEE PAGE 425 FOR REPLACEMENT PARTS

C SERIES®

COMMERCIAL BRONZE PUMPS (CONT'D) WITH HAIR AND LINT STRAINER

Dimensions and Performance

For detailed efficiency curves go to www.pentaircommercial.com

CALIFORNIA PROPOSITION 65 WARNING

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SEE PAGE 425 FOR REPLACEMENT PARTS

CSP/CCSP SERIES™

COMMERCIAL SELF-PRIMING PUMP



CALIFORNIA PROPOSITION 65 WARNING
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 ⚠️ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov PA 282514

CSP/CCSP Series
 Commercial Self-Priming
 Pump with PKG 184
 Strainer (sold separately)

Featured Highlights

- Especially designed for commercial and public swimming pools and spas, aquatic facilities, water parks, and fountain applications where high performance and self-priming are required
- Pump has enclosed bronze impeller and standard 6 in. x 4 in. A.N.S.I. rated flange connections
- The pump strainer (order separately) has capacity of 1,100 cubic inches. Both pump and strainer can be ordered with optional epoxy coated castings to provide additional performance and corrosion resistance

Ordering Information

Product	Voltage	Amps ¹	HP	SF	SFHP	Primary Listings and Certifications ⁴	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
NEMA RATED STANDARD EFFICIENCY SINGLE PHASE EPOXY COATED CAST IRON									
▶ CCSPHK-142	230	39	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	270	E
▶ CCSPHL-143	230	46	10	1.15	11.50	NSF ²	6 in. x 4 in.	275	F
NEMA RATED STANDARD EFFICIENCY THREE PHASE CAST IRON									
▶ CSPHK3-142	230/460	21.2-19.2/9.6	7-1/2	1.25	9.38	NSF ²	6 in. x 4 in.	265	A
▶ CSPHL3-143	230/460	27.6-24.4/12.2	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	B
▶ CSPHM3-144	230/460	44.2-40/20	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	C
▶ CSPHN3-145	230/460	55.3-50/25	20	1.25	25.00	NSF ²	6 in. x 4 in.	325	D
NEMA RATED STANDARD EFFICIENCY THREE PHASE CAST IRON - 200V⁶									
▶ CSPH2K3-142	200	22.1	7-1/2	1.15	8.63	NSF ²	6 in. x 4 in.	265	A
▶ CSPH2L3-143	200	28.1	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	B
▶ CSPH2M3-144	200	42.3	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	C
▶ CSPH2N3-145	200	57.3	20	1.25	25.00	NSF ²	6 in. x 4 in.	350	D
NEMA RATED STANDARD EFFICIENCY THREE PHASE EPOXY COATED CAST IRON									
▶ CCSPHK3-142	230/460	21.2-19.2/9.6	7-1/2	1.25	9.38	NSF ²	6 in. x 4 in.	265	E
▶ CCSPHL3-143	230/460	27.6-24.4/12.2	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	F
▶ CCSPHM3-144	230/460	44.2-40/20	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	G
▶ CCSPHN3-145	230/460	55.3-50/25	20	1.25	25.00	NSF ²	6 in. x 4 in.	325	H
NEMA RATED STANDARD EFFICIENCY THREE PHASE EPOXY COATED CAST IRON - 200 V⁶									
▶ CCSPH2K3-142	200	22.1	7-1/2	1.15	8.63	NSF ²	6 in. x 4 in.	265	E
▶ CCSPH2L3-143	200	28.1	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	F
▶ CCSPH2M3-144	200	42.3	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	G
▶ CCSPH2N3-145	200	57.3	20	1.25	25.00	NSF ²	6 in. x 4 in.	350	H
ACCESSORIES FOR CSP/CCSP SERIES									
PKG 184	Strainer for CSP/CCSP 6 in. ANSI flange (1,100 cu. in. capacity)					NSF ³	6 in. x 6 in.	180	I
PKG 184C	Same as PKG 184 Except Strainer is Epoxy Coated					NSF ³	6 in. x 6 in.	180	I
357262	Flange 4 in. w/ gasket and SS hardware ⁵							20	
357263	Flange 6 in. w/ gasket and SS hardware ⁵							23	

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

¹ Amp draw may vary depending on motor manufacturer.

² 'NSF(1)' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools And Spas.

³ 'NSF(2)' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

⁴ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

⁵ Thermoplastic PVC socket style.

⁶ For 208 volt applications, use 200v model options.

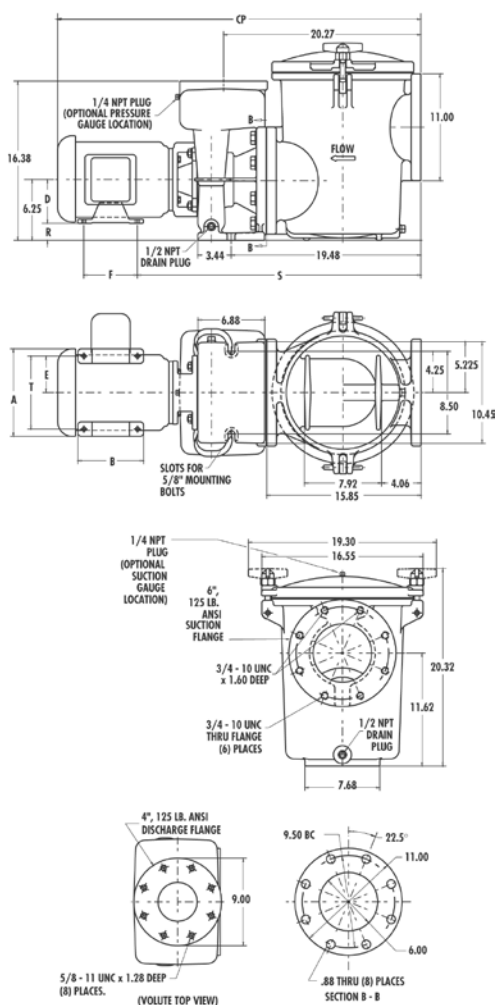
CSP/CCSP SERIES™

COMMERCIAL SELF-PRIMING PUMP (CONT'D)

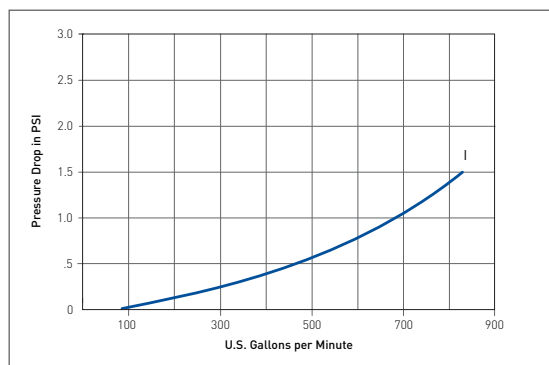
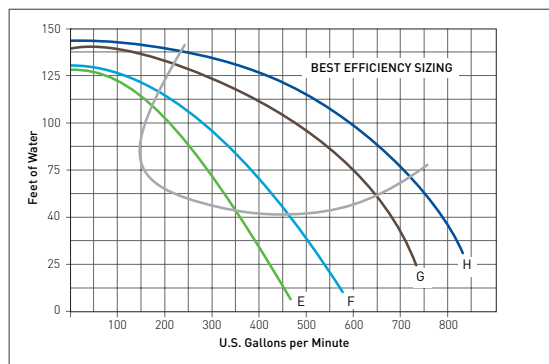
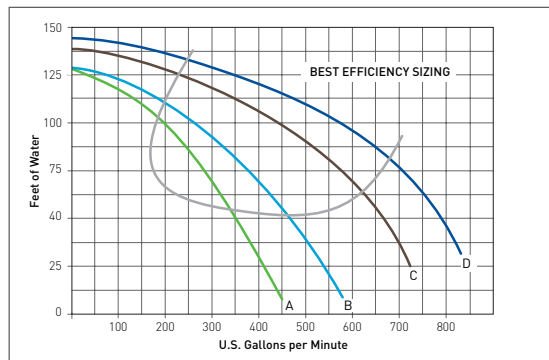
Featured Highlights

Options: CCSP Models feature special epoxy coated castings for maximum performance and corrosion resistance. 60 Hz T.E.F.C., 60 Hz premium efficiency, or 575 volt motors available. Inverter duty rated class F motors available for most models. Contact factory for details.

Note: Maximum ambient temperature for motor is 104°F (40°C). All pump motors require external overload protection (magnetic starter). Pump strainer must be ordered separately. Full load amps on motor model plate.



Dimensions and Performance



CALIFORNIA PROPOSITION 65 WARNING

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PH200714

Catalog Number	A	B	CP	D	E	F	R	S	T
CSPHK, CCSPHK	10.62	7.00	39.44	5.25	4.25	5.50	1.00	30.00	8.50
CSPHK3, CCSPHK3, CSPH2K3	9.00	6.75	40.31	4.50	3.75	5.50	1.75	29.13	7.50
CSPHL, CCSPHL	10.35	8.26	42.69	5.25	4.25	7.00	1.00	30.00	8.50
CSPHL3, CCSPHL3	10.62	7.00	41.00	5.25	4.25	5.50	1.00	30.00	8.50
CSPHM3, CCSPHM3	10.62	8.50	42.50	5.25	4.25	7.00	1.00	30.00	8.50
CSPH2L3, CSPH2M3	10.62	8.50	42.50	5.25	4.25	7.00	1.00	30.00	8.50
CSPHN3, CCSPHN3	12.50	10.80	46.75	6.25	5.00	8.20	0.00	31.62	10.00
CSPH2N3, CCSPH2N3	13.38	12.44	48.50	6.25	5.00	10.00	0.00	31.65	10.00

All dimensions shown in inches.

SEE PAGE 425 FOR REPLACEMENT PARTS

5CSP/5CCSP SERIES™

50 HERTZ COMMERCIAL SELF-PRIMING PUMP



5CSP/5CCSP Series Commercial Self-Priming Pump
with PKG 184 Strainer Pot (sold separately)

Featured Highlights

- Especially designed for commercial and public swimming pools and spas, aquatic facilities, water parks, and fountain applications where high performance and self-priming are required
- Pump has enclosed bronze impeller and standard 6 in. x 4 in. A.N.S.I. flange connections
- The pump strainer (order separately) has capacity of 1,100 cubic inches. Both pump and strainer can be ordered with optional epoxy coated castings to provide additional performance and corrosion resistance

• **Note: 50 hertz pumps cannot be used in North America.**

Ordering Information

Product	Voltage	Amps ¹	HP	SF	SFHP	Primary Listings and Certifications ³	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
SINGLE PHASE CAST IRON WITHOUT STRAINER- 50 HZ									
▶ 5CSPHJ-142	220-240	35.5-32.5	5	1.00	5		6 in. x 4 in.	270	A
▶ 5CSPHK-143	220-240	43.0-39.4	7-1/2	1.00	7-1/2		6 in. x 4 in.	280	B
THREE PHASE CAST IRON WITHOUT STRAINER- 50 HZ									
▶ 5CSPHJ3-142	220-240/380-415	13.0/6.9	5	1.00	5		6 in. x 4 in.	260	A
▶ 5CSPHK3-143	220-240/380-415	20.7-21.5/12.0/12.4	7-1/2	1.00	7-1/2		6 in. x 4 in.	270	B
▶ 5CSPHL3-144	220-240/380-415	27.0-27.5/15.6-15.9	10	1.00	10		6 in. x 4 in.	280	C
▶ 5CSPHM3-145	220-240/380-415	38.9-20.6	15	1.00	15		6 in. x 4 in.	300	D
THREE PHASE EPOXY COATED CAST IRON WITHOUT STRAINER - 50 HZ									
▶ 5CCSPHJ3-142	220-240/380-415	13.0/6.9	5	1.00	5		6 in. x 4 in.	260	A
▶ 5CCSPHK3-143	220-240/380-415	20.7-11.0	7-1/2	1.00	7-1/2		6 in. x 4 in.	270	B
▶ 5CCSPHL3-144	220-240/380-415	26.9-14.3	10	1.00	10		6 in. x 4 in.	280	C
▶ 5CCSPHM3-145	220-240/380-415	38.9-20.6	15	1.00	15		6 in. x 4 in.	300	D
ACCESSORIES FOR 5CSP/5CCSP SERIES									
PKG 184	Strainer for CSP/CCSP 6 in. ANSI flange (1,100 cu. in. capacity)					NSF ⁴	6 in. x 6 in.	180	I
PKG 184C	Same as PKG 184 Except Strainer is Epoxy Coated					NSF ⁴	6 in. x 6 in.	180	I
357262	Flange 4 in. w/ gasket and SS hardware ²							20	
357263	Flange 6 in. w/ gasket and SS hardware ²							23	

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

¹ Amp draw may vary depending on motor manufacturer. Full load amps on motor model plate.

² Thermoplastic PVC socket style.

³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

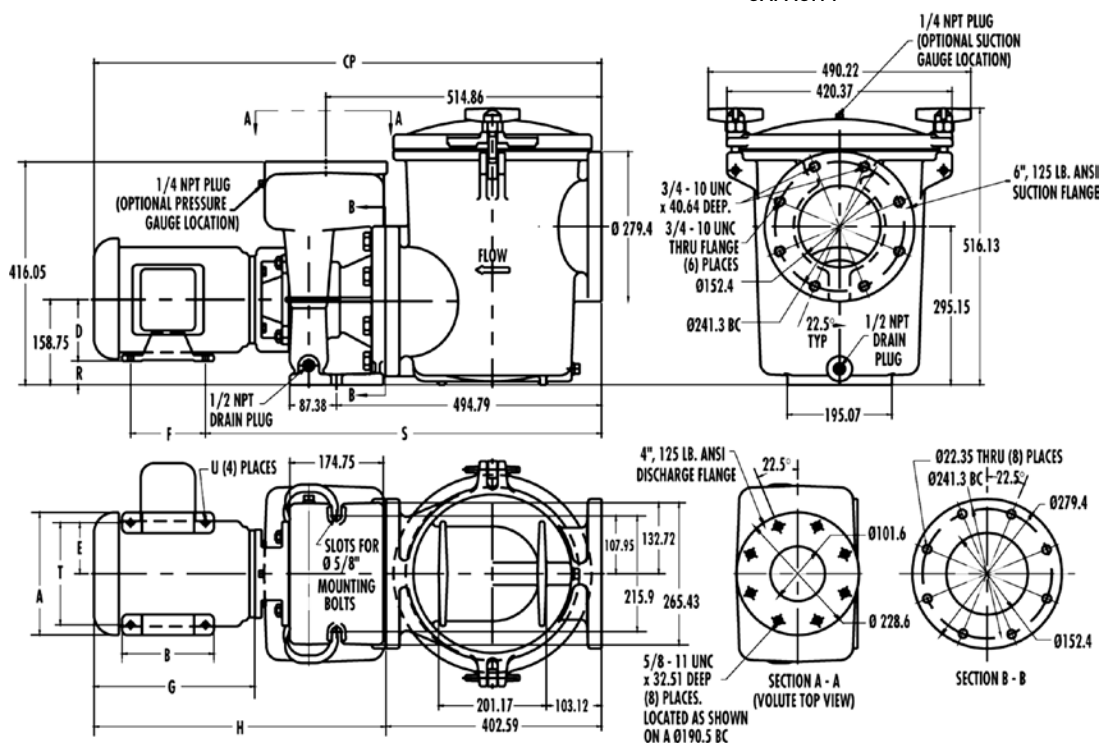
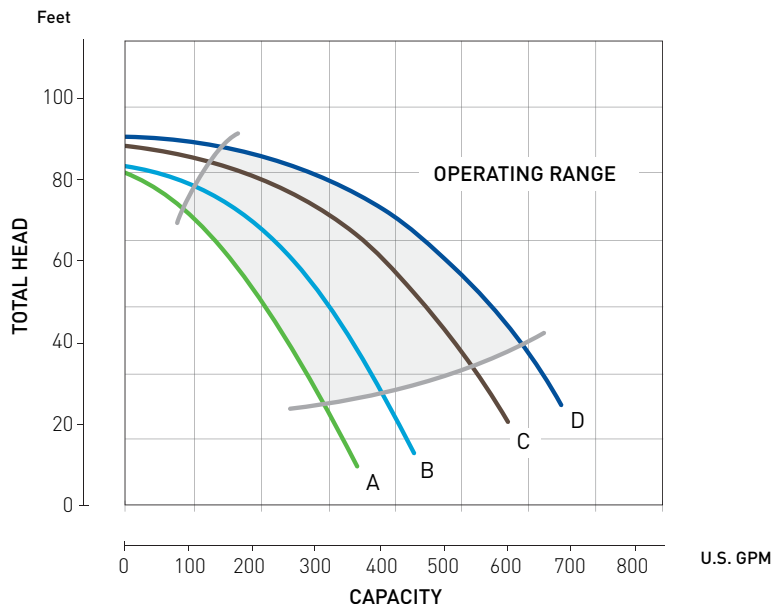
⁴ 'NSF(2)' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.

CALIFORNIA PROPOSITION 65 WARNING

⚠ **WARNING:** Cancer and Reproductive Harm.
 ⚠ **AVERTISSEMENT:** Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov

5CSP/5CCSP SERIES™**50 HERTZ COMMERCIAL SELF-PRIMING PUMP (CONT'D)****Dimensions and Performance**

CALIFORNIA PROPOSITION 65 WARNING
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www.p65warnings.ca.gov



Catalog Number	A	B	CP	D	E	F	R	S	T
5CSPHJ	269.75	177.8	1039.62	133.25	107.95	139.7	25.4	733.3	215.9
5CSPHK	269.75	215.9	1075.69	133.25	107.95	177.8	25.4	733.3	215.9
5CSPHJ3	228.6	171.45	988.82	133.25	95.25	139.7	44.45	734.06	190.5
5CSPHK3	269.75	177.8	1039.62	133.25	107.95	139.7	25.4	733.3	215.9
5CSPHL3	269.75	215.9	1075.69	133.25	107.95	177.8	25.4	733.3	215.9
5CSPHM3	317.5	274.32	1185.67	158.75	127.0	209.55	—	793.75	254.0

All dimensions shown in millimeters.

SEE PAGE 425 FOR REPLACEMENT PARTS

AURORA® 3800 SERIES AND 410 SERIES

END SUCTION AND SPLIT CASE PUMPS



3801

Featured Highlights

- Multiple configurations available
- Models to 100 ft. TDH
- Compatible with Acu Drive™ XS VF Drive
- Cast Iron Stainless Steel Fitted Models
- Flooded Suction applications
- Highly reliable performance
- NSF certified models available
- Various flow capabilities for all applications
- Epoxy Coating option available
- ODP and TEFC motors in Standard and Premium efficiency available
- PS Series In-line Strainers match up to most Aurora pumps.

Pentair now offers the Aurora 3800 Series End Suction and the 410 Series Split Case Pumps for commercial pools, spas, and other water applications. The 3800 and 410 Series are available in horizontal and vertical configurations in horsepower to 150 and flows to 8,000 GPM.

Ordering Information

Product	Description	Carton Wt. (Lbs.)
---------	-------------	-------------------

Please contact our factory (1-800-831-7133) for applications sizing, pricing, and availability.

AURORA PUMP ACCESSORIES FLANGE ASSEMBLY KITS		
357259	Flange 2-1/2 in. w/ gasket and SS hardware ¹	16
357260	Flange 5 in. w/ gasket and SS hardware ¹	22
357261	Flange 3 in. w/ gasket and SS hardware ¹	18
357262	Flange 4 in. w/ gasket and SS hardware ¹	20
357263	Flange 6 in. w/ gasket and SS hardware ¹	23

¹ Thermoplastic PVC socket style.

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www.p65warnings.ca.gov

SEE PAGE 425 FOR REPLACEMENT PARTS

HYDROBOOST® BOOSTER PUMP

PRESSURE-SIDE CLEANER PUMP

TRADEGRADE



HydroBoost Booster Pump

Featured Highlights

- Totally Enclosed Fan Cooled (TEFC) Motor to help reduce the chance of motor burnout
- Certified by ENERGY STAR®
- Quick installation
- Reliable operation
- THP: 0.8 WEF: 0.62

The HydroBoost Booster Pump provides high pressure water to your pressure side automatic pool cleaner. This booster pump is NOT self-priming and should not run unless the filter pump is running.

Ordering Information

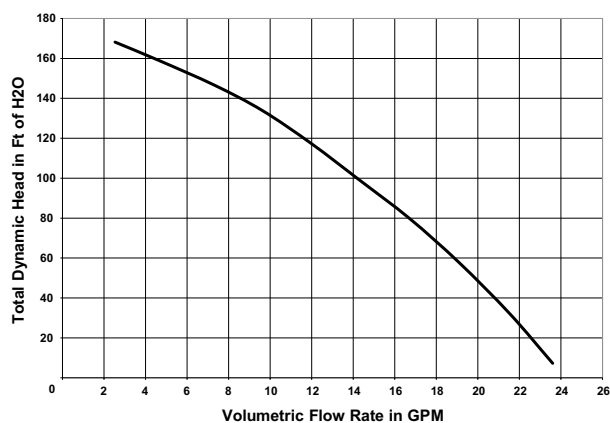
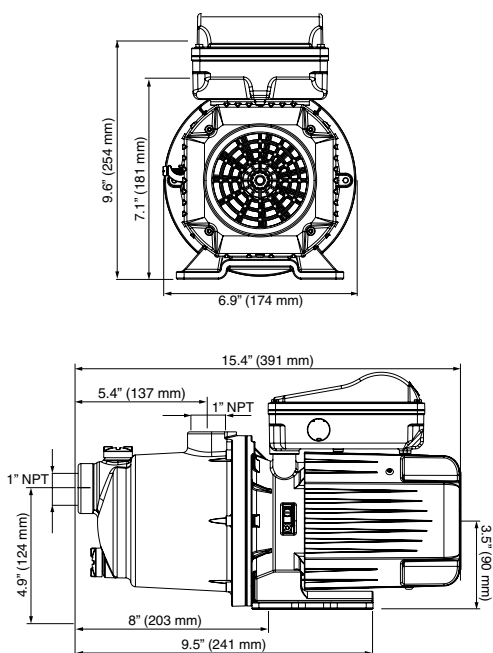
Product	Voltage	Full Load Amps	THP	WEF	Primary Listings and Certifications ²	Port Size (NPT)	Carton Wt. (Lbs.)
HYDROBOOST BOOSTER PUMP							
360526	115/230	9.0/4.5	0.8	0.62	UL ¹	1"	29.18
ACCESSORIES							
353040	Hose Kit (includes 3/4" - 1" Adapters (2); 6 ft. Hose (1))						

¹ 'UL' indicates that pump bears a specific UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools And Spas. (Enclosure 3).

² Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

• **Pumps and replacement motors that are single speed and one (1) Total HP or greater cannot be sold, offered for sale, or installed in a residential pool for filtration use in California, Title 20 CCR sections 1601-1609.**

Dimensions and Performance



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SEE PAGE 425 FOR REPLACEMENT PARTS

PCD-1000 SUBMERSIBLE PUMP

STAINLESS STEEL SUBMERSIBLE POOL SERVICE PUMP

Submersible Pool
Service Pump



Featured Highlights

- 115V, 60 Hz single phase, permanent split capacitor motor
- Automatic thermal overload protection
- Clog-resistant cast stainless steel impeller
- Accommodates water temperatures ranging from 32 degrees F to 130 degrees F
- Permanently lubricated ball bearings
- Equipped with 15-foot, 18/3 grounding type power cord
- Convenient top-mounted handle
- Rubber feet to reduce scratching
- Optional float switch included

The PCD-1000 submersible, portable, high capacity pump designed for use by the professional in draining pools and spas as well as for general purpose applications, now has improved flow rates, and stainless steel casing, suction strainer, impeller and shaft for greater corrosion resistance and longer service life.

The PCD-1000 can pump water down to 1-3/8 inches in depth. Debris and stones up to 3/4 inch are able to pass through the pump. It also features a 1-1/4 inch discharge port for faster draining. Discharge port adapters are included. Optional float switch included; switch stops pump when low water level reached. Remove float switch for constant run.



Adaptors included:

- 1-1/4 in. Female NPT Elbow
- 1-1/4 in. Male NPT to 1-1/2 in. Female NPT Adaptor



Optional
Float Switch
Included

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⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo.
www.p65warnings.ca.gov P122071A

Ordering Information

Product	Description	Voltage	Full Load Amps	HP	Carton Wt. (Lbs.)
STAINLESS STEEL SUBMERSIBLE WITH BRASS BASE					
▶ PCD-1000	Submersible Utility Pump	115	6.4	3/4	15
ACCESSORIES					
ZBR46760	Replacement Float Switch				

▶ This product either meets or is exempt from the DOE Dedicated Purpose Pool Pump regulation. This product will remain available after the DOE regulation takes effect in July 2021.

Dimensions and Performance

Model	HP	Motor Full Load (Amps)	RPM	Minimum Circuit Req.	Liquid Temperature Range	Switch Setting		Pumps Down To
						On	Off	
PCD-1000	3/4	6.4	3450	15 amps	32/130°F 0/54°C	12" 30 cm	6" 15.2 cm	1 3/8" 3.5 cm

Pump Performance TDH/GPM						Shut Off Head
TDH	5'	10'	15'	20'	25'	28
GPM	55	45.5	36.5	25	8.5	N/A

PARTS-PAKS™ AND ACCESSORIES

POINT-OF-SALE, STOCK ROOM, SERVICE VEHICLE

OVERHAUL KITS – Attractive, clamshell packaging contains recommended parts for seal/gasket servicing or complete overhaul of most swimming pool/spa pumps. Reduce the need for large parts inventories, protect parts from damage, and reduce paperwork.



Pump Model by HP				
Product	PE, P2R	PEA, P2RA	PR	PRA
SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings				
PP1010	1/3	1/3, 1/2		1/2
PP1011	1/2	3/4	1/2	3/4
PP1012			3/4	1
PP1014	3/4	1		
PP1016	1	1-1/2		
PP1017	2	2-1/2	2	2-1/2
PP1018	1-1/2	2		
PP1019	3			

Pump Model by HP			
Product	CH, LT, L1	LHA, LTA, L1A	PCD
SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings			
PP1080	1/6		
PP1081	1/3	1/2	
PP1082	1/2	3/4	
PP1682			1/2

Ordering Information

Pump Model by HP			
Product	P4E, P4R	P4EA, P4RA	MPRA, MPEA
SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings			
PP4010	3/4	1	
PP4011	1	1-1/2	
PP4012	1-1/2	2	
PP4013	2	2-1/2	
PP4014	3		
PP3010			3/4
PP3011			1
PP3012			1-1/2
PP3013			2

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Product	Description	Carton Wt. (Lbs.)
SEAL/GASKET KITS – Include shaft seal, gaskets, and O-rings		
PP1075	LH, LHA, LT, LTA, L1, L1A - All HP	
PP3000	MPRA, MPEA - All HP	
PP1000	PE, PEA, PR, PRA, P2R, P2RA (models with copper insert pre-1998) - All HP	
PP4000	P4E, P4EA, P4R, P4RA (models with copper insert pre-1998) - All HP	
PP1200	PE, PEA, P2R, P2RA (models without copper insert beginning 1998) - All HP	
PP4200	P4E, P4EA, P4R, P4RA (models without copper insert beginning 1998) - All HP	
TRAP LID KITS – Include trap lid and trap lid o-ring		
PP2075	PE, PEA, PR, PRA, P2R, P2RA (with 5 in. trap – standard) - ALL HP	
PP4075	P4E, P4EA, P4R, P4RA, MPR, MPE (with 6 in. trap – standard) - ALL HP	
PUMP CONNECTOR UNION HALF (WILL NOT FIT DJ OR TP SERIES PUMPS)		
PKG 188Z	2 in. Union x 2 in. Slip, 2 per Pkg.	1
PKG 189	2 in. Union x 2 in. FPT, 2 per Pkg.	1
77703-0100	2 in. Union x 1-1/2 in. FPT, 2 per Pkg.	1
77703-0101	2 in. Union x 1-1/2 in. Slip, 2 per Pkg.	1
PUMP BASE NOISE REDUCER		
17350-0008	Rubber Pump Base Pad for MPR, P4R, P4E, TPR, TPE Models	1
SEAL KIT - CHEMICAL/SALT/OZONE RESISTANT EPDM & SS SEALS		
356196	Seal Quick Kit Max-E-Pro / IntelliPro and VS Pumps Chemical/Salt/Ozone Resistant EPDM & SS	1
356197	Seal Quick Kit SuperFlo /SuperMax and VS Pumps Chemical/Salt/Ozone Resistant EPDM & SS	
356198	Seal Quick Kit WhisperFlo/IntelliFlo and VS Pumps Chemical/Salt/Ozone Resistant EPDM & SS	
356199	Seal Quick Kit Challenger Pumps Chemical/Salt/Ozone Resistant EPDM & SS	

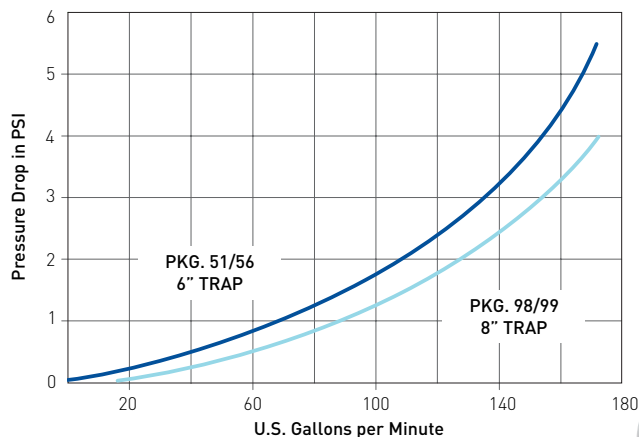
HAIR AND LINT STRAINER PACKAGES

STA-RITE

Ordering Information

Product	Description	Suction Port Size	Carton Wt. (Lbs.)
HAIR AND LINT STRAINER PACKAGES			
PKG 115	5 in. Trap with Basket (For Dura-Glas, Max-E-Glas and JWP Pumps)	1-1/2 in. NPT	5
PKG 51	6 in. Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	2 in. NPT	20
PKG 98	8 in. Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	3 in. NPT	40
PKG 161	6 in. PPO Resin Strainer (For P2R, PE Series, Dura-Glas and Max-E-Glas Pumps)	2 in. NPT	6
PKG 184	CSP Series Hair and Lint Strainer (1100 cu. in. capacity)	6 in. ANSI Flange	180
PKG 184C	CCSP Series Hair and Lint Strainer – Coated (1100 cu. in. capacity)	6 in. ANSI Flange	180

Dimensions and Performance



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PKG 98 - 8 in.

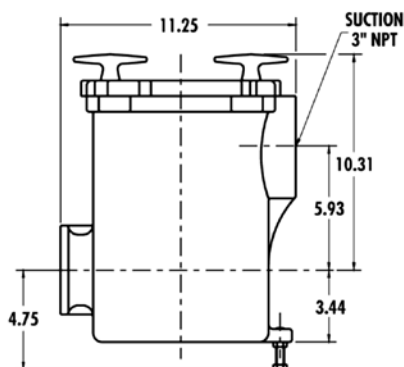


PKG 184 - 8 in.

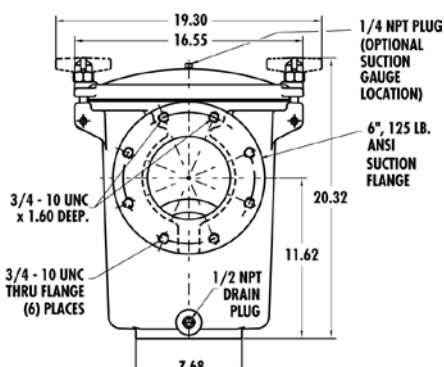


PKG 51 - 5 in. OR 6 in.

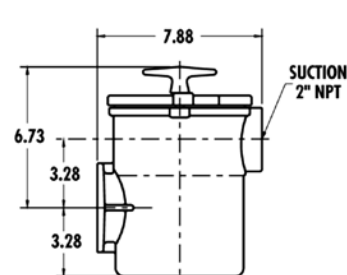
PKG 98 - 8 INCH TRAP



PK6 184/184C



PKG 51 - 6 INCH TRAP



SEE PAGE 425 FOR REPLACEMENT PARTS

CONVERSION REFERENCE CHARTS

**1 U.S. Gallon/Minute = 0.22712470704
Cubic Meter/Hour**

**1 U.S. Gallon/Minute = 0.83267418463
UK Gallon/Minute**

**1 Foot of Water/Head = 0.30487804878
Meter of Water/Head**

**1 Foot of Water/Head = 0.43352750193
Pound/Square Inch**

Pressure to Head Conversion

Feet of Water	Meters of Water	PSI
10	3.05	4.34
20	6.10	8.67
30	9.15	13.01
40	12.20	17.34
50	15.24	21.68
60	18.29	26.01
70	21.34	30.35
80	24.39	34.68
90	27.44	39.02
100	30.49	43.35
110	33.54	47.69
120	36.59	52.02
130	39.63	56.36
140	42.68	60.69
150	45.73	65.03

Volumetric Flow Rate Conversion

US Gallons per Minute	Cubic Meters per Hour	British Gallons per Minute
10	2.27	8.33
20	4.54	16.65
30	6.81	24.98
40	9.09	33.31
50	11.36	41.64
60	13.63	49.96
70	15.90	58.29
80	18.17	66.62
90	20.44	74.94
100	22.71	83.27
110	24.98	91.60
120	27.26	99.92
130	29.53	108.25
140	31.80	116.58
150	34.07	124.91
160	36.34	133.23
170	38.61	141.56
180	40.88	149.89
190	43.15	158.21
200	45.43	166.54
210	47.70	174.87
220	49.97	183.19
230	52.24	191.52
240	54.51	199.85
250	56.78	208.18
260	59.05	216.50
270	61.32	224.83
280	63.60	233.16
290	65.87	241.48
300	68.14	249.81
310	70.41	258.14
320	72.68	266.46
330	74.95	274.79
340	77.22	283.12
350	79.49	291.45
360	81.77	299.77
370	84.04	308.10
380	86.31	316.43
390	88.58	324.75
400	90.85	333.08

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