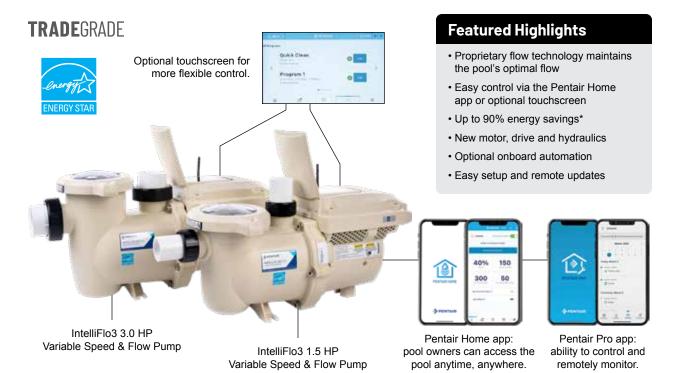


PUMPS

A LOT

INTELLIFLO3° VARIABLE SPEED AND FLOW POOL PUMP



This pump combines true set-it-and forget-it patented flow technology paired with smart connectivity of the Pentair Home app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliFlo3—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
			INTE	LLIFLO3 VARIABL	E SPEED AND F	LOW POOL PUN	1P		
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
	INTELLI	FLO3	VARIA	ABLE SPEED AND	FLOW POOL P	UMP WITH TOUC	CH SCREEN HMI		
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). 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.

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.

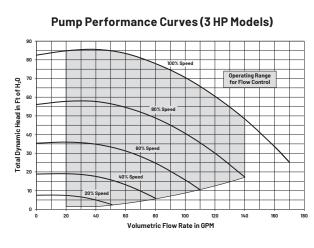
CALIFORNIA PROPOSITION 65 WARNING

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

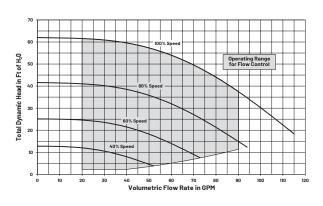
INTELLIFLO3° (CONT'D) VARIABLE SPEED AND FLOW POOL PUMP

Ordering Information

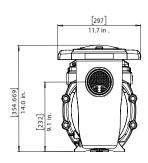
PART #	DESCRIPTION
	INTELLIFLO3 ADD ONS
356159Z	IntelliFlo3 VSF Universal Touchscreen Add On
356365Z	IntelliFlo3 VSF Optional Universal Relay Board Kit
358163Z	50 ft 2 Conductor Automation Cable
410009	2.5" Sweep Elbow Pump Kit
410029	3" Union Kit for 3 HP Pumps
351157	1-1/2" Internal Slip x 2" External 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

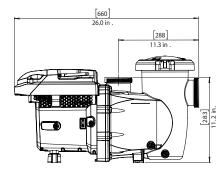


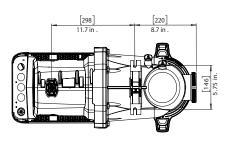
Dimensions and Performance Pump Performance Curves (1.5 HP Models)



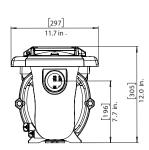
Pump Dimensions (3 HP Models)

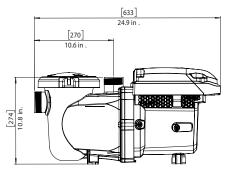


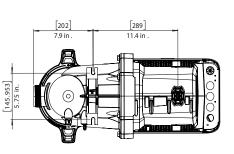




Pump Dimensions (1.5 HP Models)







See pages 497 & 642 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 digitial intelligence and permanent magnet motors (used in hybrid cars) to reduce pump-related energy costs by up to 90%*. 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
	Ξ	NERGY	EFFICIE	NT VARI	ABLE SPE	ED WITH S	SAFETY VACU	JUM RELEA	SE 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
					AC	CESSORI	ES				
521109	IntelliCom 2 - Rate	ed 9 - 30	V DC wit	h 4 inputs	;						1
350122Z	Communication C	able - 50	ft Inclu	ded with	pump						2
350250Z	SVRS KIT - Allows	s use of	discharge	check va	lves with S	/RS pump					1
356198	Chemical/Salt/Ozo	one Res	stant EPI	OM & SS	Seal Quick I	Kit					1
						UNIONS					
11201-0154	2 in. x 2 in. Union	(2 in. NP	T male x	2 in. fema	ale NPT quic	k connect)	Note: two req	uired per pur	mp (sold individu	ually)	2

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)

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.

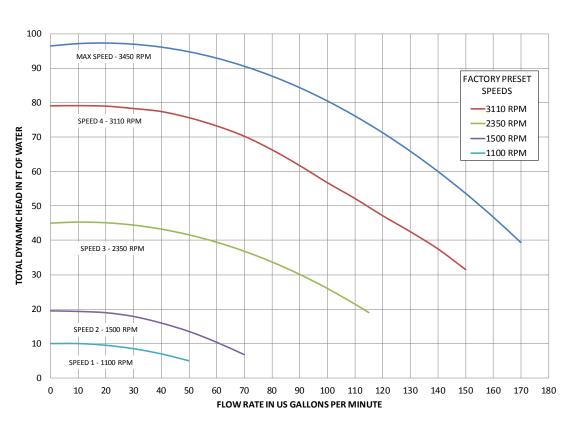
Refer to catalog page 45 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool Pumps.

CALIFORNIA PROPOSITION 65 WARNING

MARNING: Cancer and Reproductive Harm. AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur ADVERTENCIA: Cáncer y Daño Reproductivo.

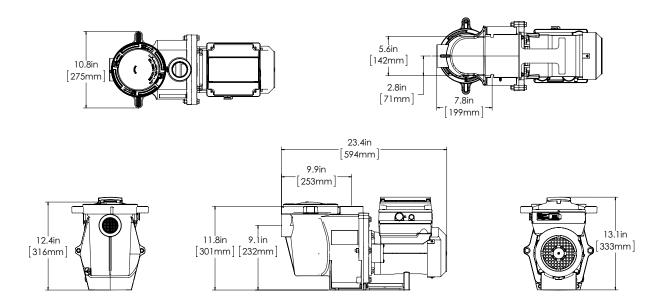
www.p65warnings.ca.gov.

INTELLIFLO° VS+SVRS HIGH PERFORMANCE PUMPS (CONT'D)



Dimensions and Performance

Note: IntelliFlo VS+SVRS minimum speed is 1100 RPM



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.

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

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 VFD's

Product	Rated HP	THP	WEF	ннр	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
						COMMER	CIAL 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	А
					TEF	C SINGLE-SF	PEED—NOT F	OR SALE IN TH	HE 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	В
						THRE	E-PHASE SU	PER-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	н
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
							ACCESSOR	IES				
400012	XF Rise	er Base	e - Sim	olifies ir	stallation	of XF-series pur	mps in application	ons where Challer	nger pumps are being rep	laced.		

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.

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Ordering Information

Dimensions and Performance

WHISPERFLOXF°

HIGH PERFORMANCE PUMPS (CONT'D)

1 & 2-Speed Performance Curve Total Dynamic Head in Ft of H20 А В D Volumetric Flow Rate in US Gallons Per Minute 3 Phase Performance Curve Total Dynamic Head in Ft of H20 Н ΙĪ. Volumetric Flow Rate in US Gallons Per Minute B length 11.35" **B-VARYING LENGTH** ΗP TEFC 3-PH 13.05 12.35 13.65 13.05 14.55 13.88 14.1 9.14' UUUU

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

A length

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 reduces energy cost 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

Prod	uct TH	IP W	EF I	HP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
					WF	IISPERFLO VST	VARIABLE S	PEED			
0115	33 2.	.6 8	3.4	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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- 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.

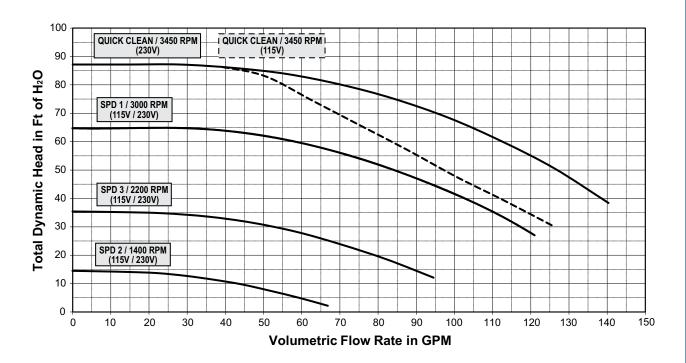
*Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

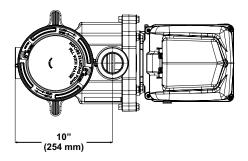
CALIFORNIA PROPOSITION 65 WARNING

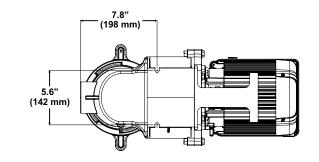
 WARNING: Cancer and Reproductive Harm.
 AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.
 ADVERTENCIA: Cáncer y Daño Reproductivo. www.p65warnings.ca.gov.

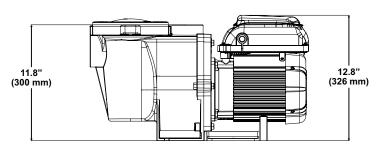
WHISPERFLO° VST VARIABLE SPEED PUMP (CONT'D)

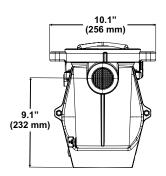
Dimensions and Performance











WHISPERFLO° HIGH PERFORMANCE PUMPS

TRADEGRADE



WhisperFlo Pump shown with TEFC Motor

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.

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

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Ordering Information

Product	Rated HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
						DOE COMPLIA	ANT 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	Е
				EN	ERGY EFF	ICIENT SINGL	E-SPEED - N	OT FOR SALE I	N THE USA			
011511-INT	1/2	0.95	N/A	N/A	1.00	115/208-230	60	8.8/4.5-4.4	2" x 2"	44	UL ¹ , NSF ²	Е
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-SPEE	D - NOT FOR	SALE IN THE U	JSA			
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	Н
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
				ENER	GY EFFICI	ENT 50 HZ SIN	IGLE-SPEED	- NOT FOR SAL	E IN THE USA			
347926-INT	1/2	0.55	N/A	N/A	1.10	240/120	50	7.5/15.0	2" x 2"	45	_	_
347927-INT	3/4	0.83	N/A	N/A	1.10	240/120	50	7.5/15.0	2" x 2"	45	_	—
347928-INT	1	1.10	N/A	N/A	1.10	240/120	50	6.9/13.8	2" x 2"	52	_	_
347929-INT	1 1/2	1.65	N/A	N/A	1.10	240	50	7.2	2" x 2"	52	_	_
347930-INT	2	2.20	N/A	N/A	1.10	240	50	9.4	2" x 2"	55	_	_
						THREE-F	PHASE SUPE	R-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	Н
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
						A	CCESSORIES	3				

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)

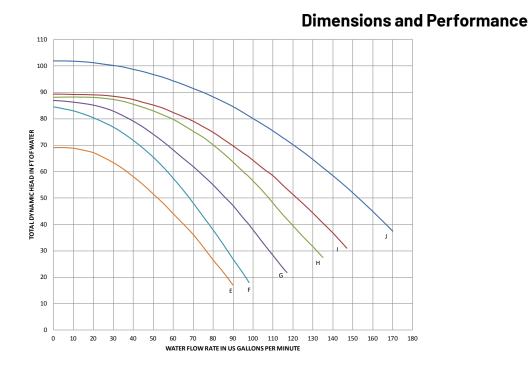
357156 Cover/Lid, Chemical Resistant, CAM & RAMP

356198 Chemical/Salt/Ozone/Resistant EPDM & SS Seal Quick Kit

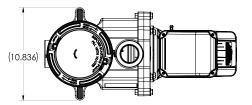
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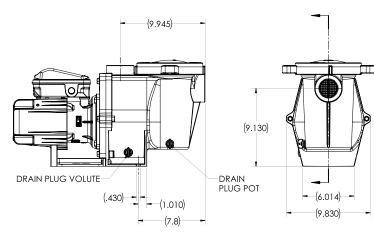
WHISPERFLO[®] HIGH PERFORMANCE PUMPS (CONT'D)



	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



A



(11.5)

SUPERFLO® VST VARIABLE SPEED PUMP

TRADEGRADE



SuperFlo VST Variable Speed 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 swiching.

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[®].

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 ADVERTENCIA: Cáncer y Daño Reproductivo. www.p65warnings.ca.gov.

Ordering Information

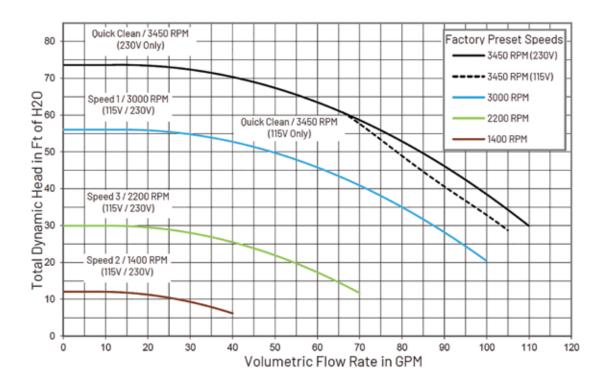
				Service						
Product	THP	WEF	HHP	Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
				SL	IPERFLO VST	VARIABLE S	PEED			
342002	2.2	9.0	1.08	1.0	115/208-230	50/60	13.6/8.0-7.1	1.5" x 1.5"	53	UL ¹ , NSF ²
					ACCES	SSORIES				
356324Z	External	Control W	/iring Kit							
250407	Chamina		na Daaiata			(fa a a	hafara luna 20	10)		

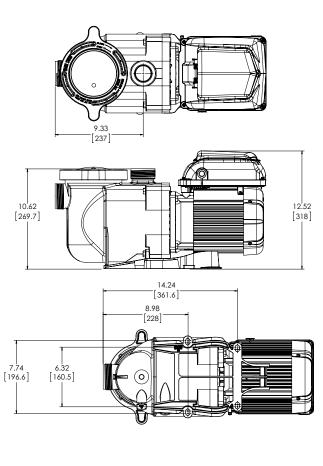
356197 Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit (for pumps Mfg. before June 2019)

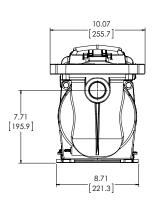
- ¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3). UL 60730 Compliant.
- ² 'NSF' indicates that pump bears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







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

	HP	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
					[DOE COMPLIA	NT 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	В
				EN	ERGY EFFI	CIENT SINGL	E-SPEED - N	OT FOR SALE I	IN THE USA			
348021-INT	1/2	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	А
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	А
					TEFC	SINGLE-SPEE	D - 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	С
348145-INT 1	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	Е
				ENER	GY EFFICIE	ENT 50 HZ SIN	GLE-SPEED	- NOT FOR SAI	LE IN THE USA			
340094-INT	1/2	0.55	N/A	N/A	1.10	240/120	50	7.5/15.0	1.5" x 1.5"	45	_	_
340095-INT	3/4	0.83	N/A	N/A	1.10	240/120	50	7.5/15.0	1.5" x 1.5"	45	_	_
340096-INT	1	1.10	N/A	N/A	1.10	240/120	50	6.9/13.8	1.5" x 1.5"	52	_	_
340097-INT 1	1 1/2	1.65	N/A	N/A	1.10	240	50	7.2	1.5" x 1.5"	52	_	_
340098-INT	2	2.20	N/A	N/A	1.10	240	50	9.4	1.5" x 1.5"	55	_	_

351157 Union Kit – 1-1/2 in. Internal Slip x 2 in. External Slip (includes 2 unions as pictured above)

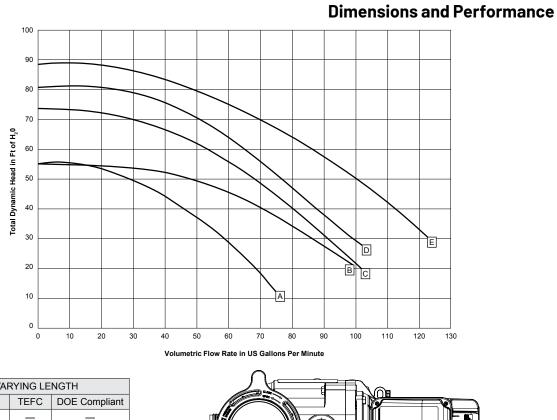
356197 Chemical/Salt/Ozone Resistant EPDM & SS Seal Quick Kit

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).

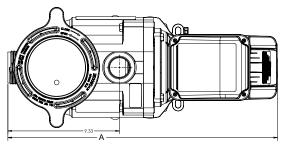
² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.

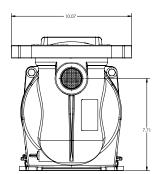
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt. * Hayward[®] and Super Pump[®] are registered trademarks of Hayward Industries, Inc.

SUPERFLO[®] HIGH PERFORMANCE PUMPS (CONT'D)



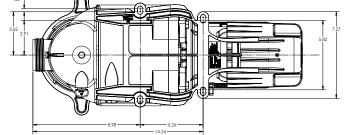
	A- VARYING LENGTH									
HP	EE	TEFC	DOE Compliant							
0.5	24.64	—	—							
0.75	24.64	_	—							
1	_	22	—							
1.1	_	_	22.55							
1.5	_	22.45	—							
2	—	22.9	—							





11,18	— 3° MIN CLEARANCE
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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. STA-RITE

INTELLIPR03° VARIABLE SPEED AND FLOW POOL PUMP



Variable Speed & Flow Pump

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 Home app. The proprietary combination of variable speed plus auto-regulated flow means all good things flow from the IntelliPro3-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
			INTE	LLIFLO3 VARIABL	E SPEED AND F	LOW POOL PUM	1P		
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
	INTELLI	FLO3	VARIA	ABLE SPEED AND	FLOW POOL P	UMP WITH TOUC	CH SCREEN HMI		
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).

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.

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.

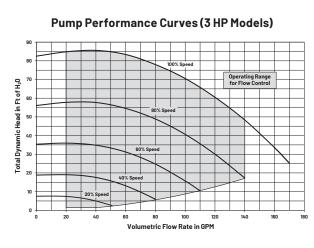
CALIFORNIA PROPOSITION 65 WARNING

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.

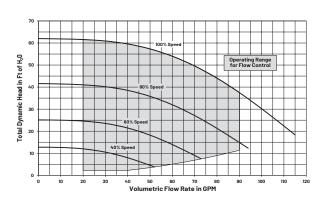
INTELLIPRO3° (CONT'D) VARIABLE SPEED AND FLOW POOL PUMP

Ordering Information

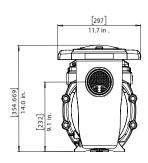
PART #	DESCRIPTION
	INTELLIFLO3 ADD ONS
356348Z	IntelliPro3 VSF Universal Touchscreen Add On
356365Z	IntelliPro3 VSF Optional Universal Relay Board Kit
358163Z	50 ft 2 Conductor Automation Cable
410009	2.5" Sweep Elbow Pump Kit
410029	3" Union Kit for 3 HP Pumps
351157	1-1/2" Internal Slip x 2" External 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

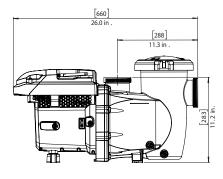


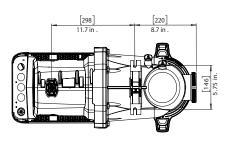
Dimensions and Performance Pump Performance Curves (1.5 HP Models)



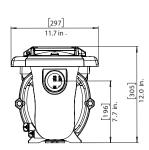
Pump Dimensions (3 HP Models)

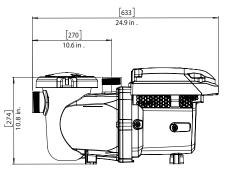


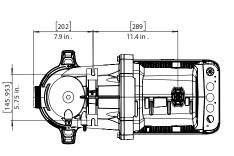




Pump Dimensions (1.5 HP Models)







See pages 522 & 643 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%.* The IntelliPro VS+SVRS pump models include a built-in Safety Vacuum Release System that detects drain blockage and automatically shuts the pump off.

CALIF	ORNIA PROPOSITION 65 WARNING
\land WARNII	NG: Cancer and Reproductive Harm.
	ISSEMENT: Peut Causer le Cancer
et des	Dommages au Système Reproducteur

ADVERTENCIA: Cáncer y Daño Reproductivo.

www.p65warnings.ca.gov.

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)

Ord	lering	Information	

Product	Description	THP	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
	INTE	ELLIPRC	VS+SV	'RS VAR	IABLE SPE	ED WITH S	SAFETY VACU	JUM RELEA	SE 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
					ACC	CESSORIE	S				
521109	IntelliCom 2 - Rated 9	telliCom 2 - Rated 9 - 30 V DC with 4 inputs									1
350122Z	Communication Cabl	e - 50 ft. ·	- Included	with pum	р						2
350250Z	SVRS KIT - Allows us	se of disc	harge che	ck valves	with SVRS p	ump					1
356905Z	Optional Keypad Wal	I Mount K	lit								
356196	Chemical/Salt/Ozone	Resistar	nt EPDM &	& SS Seal	I Quick Kit						1
					l	UNIONS					
11201-0154	2 in. x 2 in. Union (2 i	n. NPT m	ale x 2 in.	female N	IPT quick con	nect) * No	te: two required	per pump (so	d 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).

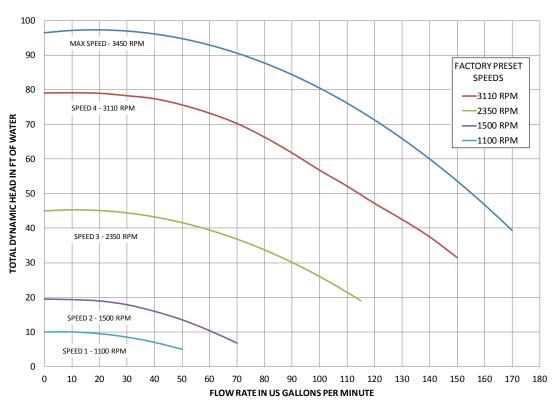
- ² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools Only.
- ³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

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

Refer to catalog page 45 for a selection of 2-Pole GFCI breakers which offer 6 milliamp personnel protection while meeting 2008 to Current NEC Standards for Pool Pumps.

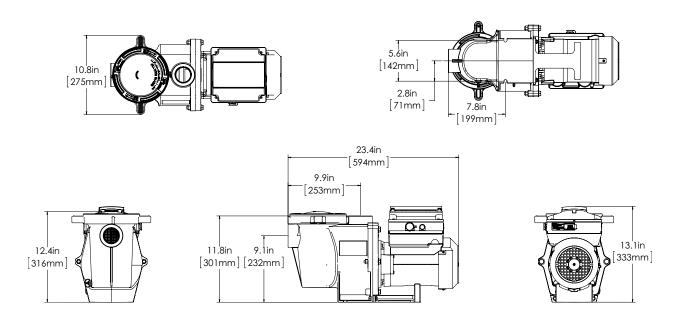
 Savings based on variable speed pump compared to a single-speed pump running 12 hours per day at an average of \$0.16 per kWh in a 20,000 gallon pool. Actual savings may vary based on local utility rates, pool size, pump run time, pump horsepower, pump rpm, plumbing size and length, pump model, service factor and other hydraulic factors. Individual Weighted Energy Factor (WEF) scores and savings may vary by model.

INTELLIPRO° VS+SVRS HIGH PERFORMANCE PUMPS (CONT'D)



Dimensions and Performance

* IntelliPro VS+SVRS minimum speed is 1100 RPM



MAX-E-PROXF° HIGH PERFORMANCE PUMPS





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 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

Product	Rated HP		WEF	ннр	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
						COMMERCI	AL SINGLE-S	PEED 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	С
					TEFC	SINGLE-SPEE	ED - NOT FOR	R SALE IN THE	EUSA			
023032-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	В
023033-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	А
						THREE-P	PHASE SUPE	R-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	Н
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
						A	CCESSORIE	S				
400012	XF Rise	r Base	- Sim	lifies in	stallation of)	(F-series numns	in applications	where Challend	per pumps are being repl	aced		

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).

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.

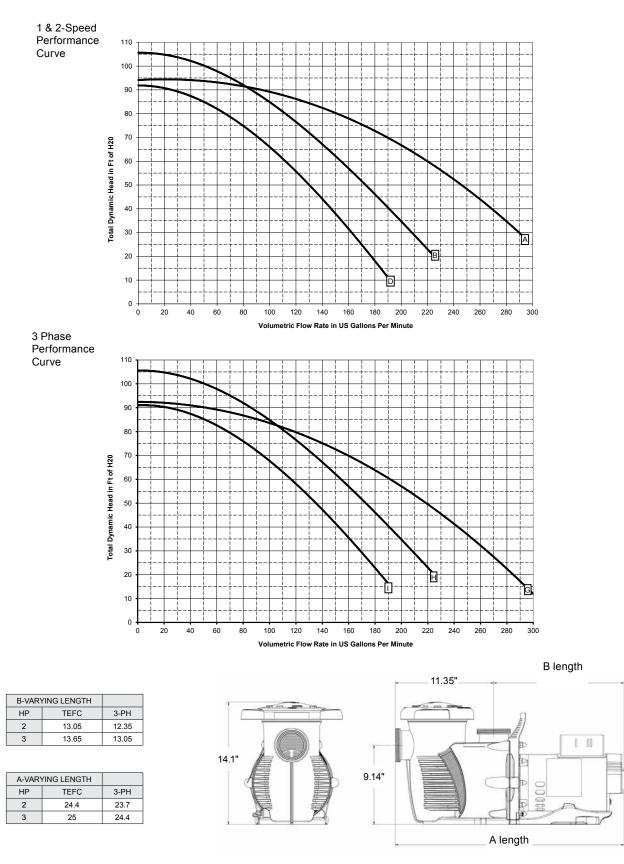
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

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.

Ordering Information

MAX-E-PROXF[®] HIGH PERFORMANCE PUMPS (CONT'D)



STA-RITE

MAX-E-PRO° HIGH-EFFICIENCY POOL/SPA PUMPS



Max-E-Pro Pump shown with TEFC Motor

PN200174

CALIFORNIA PROPOSITION 65 WARNING

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

- **Featured Highlights**
- Typical Installation Inground pools, pool/spa combinations, inground spas, fountains and water features
- Easy-to-Install 2 in. ports include external and internal threads for more plumbing options
- Impeller Manufactured with PPO Resin Withstands tough water environments
- EDPM Rubber Shaft Seal Stands up to harsh environments
- Self-lubricating Lid O-ring Does not require lubricant

P6 & 5P6R SERIES – High efficiency, low maintenance and maximum performance—all the features demanded by today's pool professionals. The Max-E-Pro pump has our new Quick-Lock[™] Trap Cover Ring and the 2 in. ports incorporate internal and external threads. Available in single- and two-speed models, with ratings from 1/2 to 3 HP. Built with quality construction using a durable one-piece pump housing constructed of industry leading glass-reinforced composite resin. Fast cleaning with a new Quick-Lock trap cover ring permits fast access to strainer basket. Large see-through lid makes it simple to check for debris. A strong, sturdy, specially-designed base dampens sound and vibration.

Ordering Information

Product	Rated HP	тнр	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
					DOE CC	MPLIANT SINC	GLE-SPEED T	EFC				
348185	N/A	1.1	3.5	0.65	1.00	115/208-230	60	10.5/5.4-5.4	2" x 2"	50	UL ¹ , NSF ²	В
			EN	ERGY	EFFICIENT	SINGLE-SPEE	D - NOT FOR	SALE IN THE	JSA			
P6E6C-204L-INT	1/2	0.95	N/A	N/A	1.00	115/208-230	60	11/5.5	2" x 2"	44	UL ¹ , NSF ²	А
P6E6D-205L-INT	3/4	1.25	N/A	N/A	1.00	115/208-230	60	13.8/6.9	2" x 2"	44	UL ¹ , NSF ²	С
				TE	FC SINGLE	-SPEED - NOT	FOR SALE IN	I THE USA				
348150-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	D
348151-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	Е
348152-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	F
348153-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	G
			ENER	GY EFF	ICIENT 50	HZ SINGLE-SP	EED - NOT FO	OR SALE IN TH	IE USA			
5P6R6D-209-INT	1/2	0.55	N/A	N/A	1.10	240/120	50	12.6/6.1	2" x 2"	45	—	I
5P6R6E-210-INT	3/4	0.83	N/A	N/A	1.10	240/120	50	15.4/7.7	2" x 2"	45	_	J
5P6R6F-211-INT	1	1.10	N/A	N/A	1.10	240/120	50	19.4/9.7	2" x 2"	52	—	К
5P6R6G-212-INT	1-1/2	1.65	N/A	N/A	1.10	240	50	10.5	2" x 2"	52	_	L
5P6R6H-213-INT	2	2.20	N/A	N/A	1.10	240	50	13.9	2" x 2"	55	_	М

MAX-E-PRO° HIGH-EFFICIENCY POOL/SPA PUMPS (CONT'D)

Ordering Information

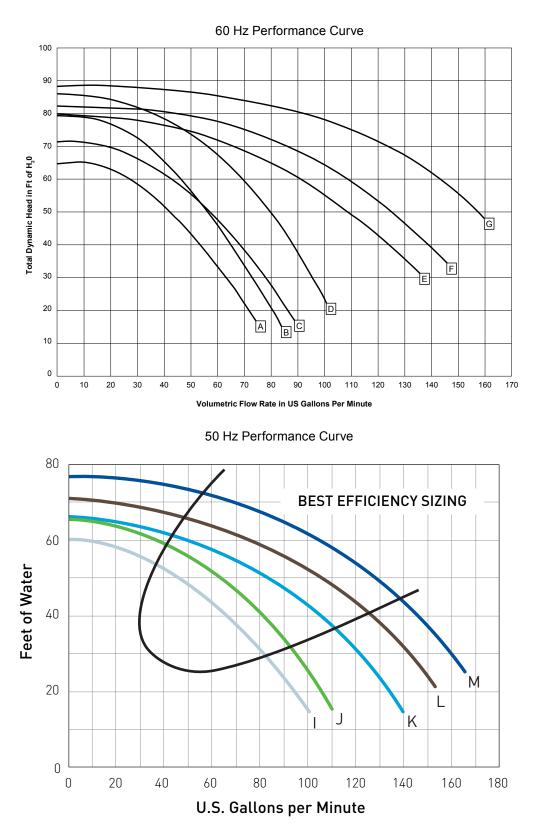
Product	Rated HP	тнр	WEF	ннр	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
						THREE-PHASE	SUPER-DUT	Y				
345076	1	1.65	*	*	1.65	208-230/460	60	4.9-4.5/2.3	2" x 2"	41	UL ¹ , NSF ²	D
345077	1-1/2	2.21	*	*	1.47	208-230/460	60	6.4-6.3/3.2	2" x 2"	43	UL ¹ , NSF ²	Е
345078	2	2.60	*	*	1.30	208-230/460	60	7.5-7.2/3.6	2" x 2"	47	UL ¹ , NSF ²	F
345079	3	3.45	*	*	1.15	208-230/460	60	9.8-9.4/4.7	2" x 2"	52	UL ¹ , NSF ²	G
				THREE	-PHASE \$	SINGLE-SPEED -	HIGH VOLTA	GE APPLICATI	ONS			
P6EA6D36-204	3/4	1.12	*	*	1.50	575	60	1.2	2" x 2"	37	NSF ²	С
P6EA6E36-205	1	1.4	*	*	1.40	575	60	1.5	2" x 2"	40	NSF ²	D
P6EA6F36-206	1-1/2	1.65	*	*	1.10	575	60	1.9	2" x 2"	41	NSF ²	Е
P6EA6G36-207	2	2	*	*	1.00	575	60	3.2	2" x 2"	45	NSF ²	F
P6E6H36-209	3	3.45	*	*	1.15	575	60	3.9	2" x 2"	52	NSF ²	G
			TH	HREE-	PHASE 50) HZ SINGLE-SPE	ED - NOT FO	R SALE IN THE	EUSA			
5P6R6D3-209-INT	3/4	0.95	N/A	N/A	1.27	220-240/380-415	50	3.6/2.1	2" x 2"	38	—	Ι
5P6R6E3-210-INT	1	1.25	N/A	N/A	1.25	220-240/380-415	50	4.0/2.3	2" x 2"	40	—	J
5P6R6F3-211-INT	1-1/2	1.65	N/A	N/A	1.10	220-240/380-415	50	5.2/3.0	2" x 2"	47	—	К
5P6R6G3-212-INT	2	2.2	N/A	N/A	1.10	220-240/380-415	50	6.6/3.8	2" x 2"	49	-	L
5P6R6H3-213-INT	3	3	N/A	N/A	1.10	220-240/380-415	50	8.0/4.7	2" x 2"	58	—	М
						ACCESS	ORIES					
77703-0100	2 in. Un	ion Ha	alf x 1-'	1/2 in. F	PT – Packa	age Of Two						
77703-0101	2 in. Un	ion Ha	alf x 1-1	1/2 in. S	lip – Packa	ge Of Two						
PKG 188Z	2 in. Un	ion Ha	alf x 2 i	n. Slip -	- Package (Of Two						
PKG 189	2 in. Un	ion Ha	alf x 2 i	n. FPT	– Package	Of Two						
356196	Chemic	al/Sal	t/Ozon	e Resis	tant EPDM	& SS Seal Quick Ki	t					

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).

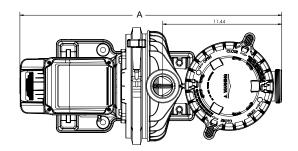
- ³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.
- ² 'NSF' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs.
- * WEF and HHP values will be updated at a date TBD. For product specific requests contact Pentair.

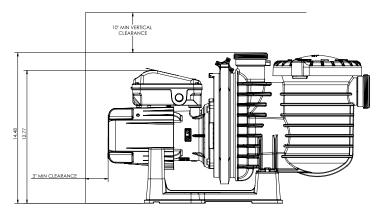
MAX-E-PRO° HIGH-EFFICIENCY POOL/SPA PUMPS (CONT'D)

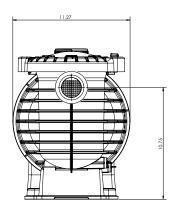
Dimensions and Performance

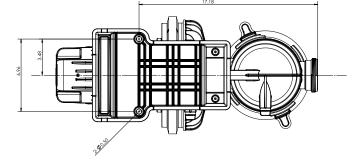


MAX-E-PRO° HIGH-EFFICIENCY POOL/SPA PUMPS (CONT'D)









	A-	VARYING LE	NGTH		
HP	STD EFF	EE	1PH TEFC	3PH	DOE COMPLIANT
0.5	26.92	—	—	—	—
0.75	26.92	—	_	—	—
1	27.29	28.45	25.03	24.76	—
1.1	—	—	_	—	25.18
1.5	28.92	28.45	25.48	24.76	—
2	28.92	29.08	25.93	25.17	_
3	28.92	29.08	26.53	25.87	_

SUPERMAX® VS VARIABLE SPEED PUMPS





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
					SUPERM	IAX VS VARIAE	BLE 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
						ACCESSORIE	S			
356324Z	Externa	al Control	l Wiring K	iit						
356197	Chemic	al/Salt/C	zone Res	sistant EPD	M & SS Seal Q	uick Kit (for pum	ps Mfg. before Ju	ne 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.

- 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.

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

*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

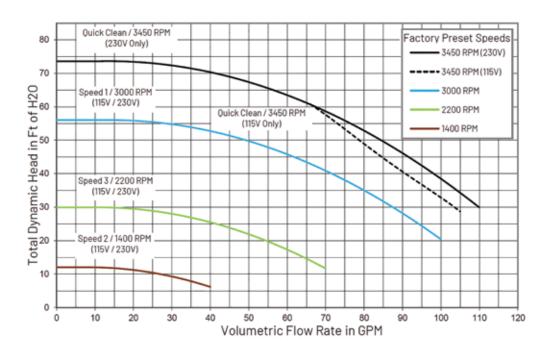
WARNING: Cancer and Reproductive Harm.

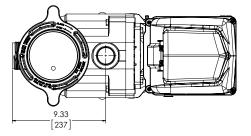
- AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.
- ADVERTENCIA: Cáncer y Daño Reproductivo.

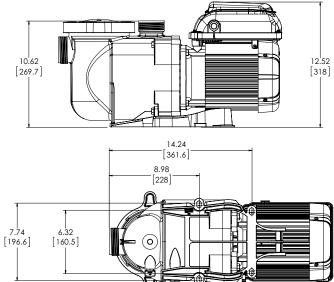
www.p65warnings.ca.gov.

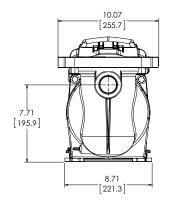
SUPERMAX° VS VARIABLE SPEED PUMPS (CONT'D)

Dimensions and Performance









PUMPS - INGROUND

SUPERMAX[®] HIGH PERFORMANCE PUMPS



shown with TEFC Motor

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

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)

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.

Product	Rated HP	THP	WEF	ннр	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³	Curve Key
					DOE COM	IPLIANT SING	LE-SPEED TI	EFC				
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	В
			ENER	GY EFI	FICIENT SI	NGLE-SPEED	- NOT FOR S	SALE IN THE	USA			
PHK2E6C-100L-INT	1/2	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	А
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	А
				TEFC	SINGLE-S	SPEED - NOT F	OR 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	С
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	Е
		ENI	ERGY	EFFIC	IENT 50 HZ	Z SINGLE-SPE	ED - NOT FO	R SALE IN TH	HE USA			
5PHK2E6C-100-INT	1/2	0.55	N/A	N/A	1.10	240/120	50	7.5/15.0	1.5" x 1.5"	45	—	—
5PHK2E6D-101-INT	3/4	0.83	N/A	N/A	1.10	240/120	50	7.5/15.0	1.5" x 1.5"	45	—	—
5PHK2E6E-102-INT	1	1.10	N/A	N/A	1.10	240/120	50	6.9/13.8	1.5" x 1.5"	52	_	_
5PHK2E6F-103-INT	1-1/2	1.65	N/A	N/A	1.10	240	50	7.2	1.5" x 1.5"	52	—	—
5PHK2E6G-104-INT	2	2.20	N/A	N/A	1.10	240	50	9.4	1.5" x 1.5"	55	_	_
						ACCESSOF	RIES					
351157	Union K	it – 1-1	l/2 in. I	nternal S	Slip x 2 in. E	xternal Slip - inc	ludes 2			1		
356197	Chemic	al/Salt	/Ozone	Resista	ant EPDM &	SS Seal Quick K	it			1		

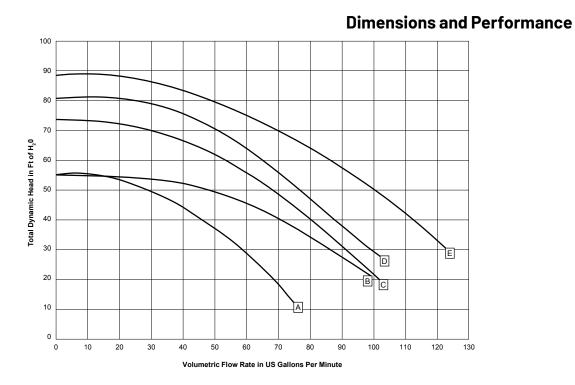
¹ 'UL' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool and Spa Pumps and to Canadian Standards CAN/CSA C22.2 No. 108-01 Liquid Pumps For Swimming Pools Only (Enclosure 3).

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

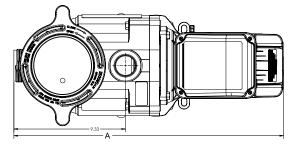
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

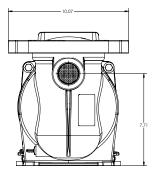
* Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.

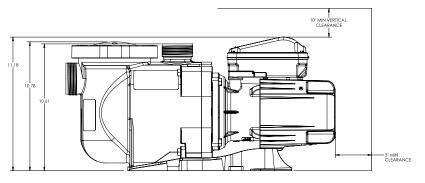
SUPERMAX® HIGH PERFORMANCE PUMPS (CONT'D)

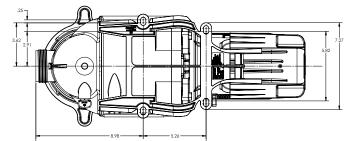


	A- VA	RYING LE	NGTH
HP	EE	TEFC	DOE Compliant
0.5	24.64	—	—
0.75	24.64	—	—
1	—	22	—
1.1	—	—	22.55
1.5	_	22.45	—
2	—	22.9	—









OPTIFLO° PUMP FOR ABOVEGROUND POOLS



OptiFlo Pump

OptiFlo pumps feature a revolutionary design that delivers dependable high flow performance. The OptiFlo pump features a 48 frame-thru bolt motor, easy access to change the discharge port position, service the impeller, and an innovative Cam and Ramp lid.

Featured Highlights

- · Large strainer basket
- Cam and Ramp[™] Lid lock
- See-through lid
- Unionized discharge port connection
- Easy to service
- User-friendly removable drain plugs
- · Metal base on motor
- Available with 3 ft. cord, with twist lock or standard plug

Ordering Information

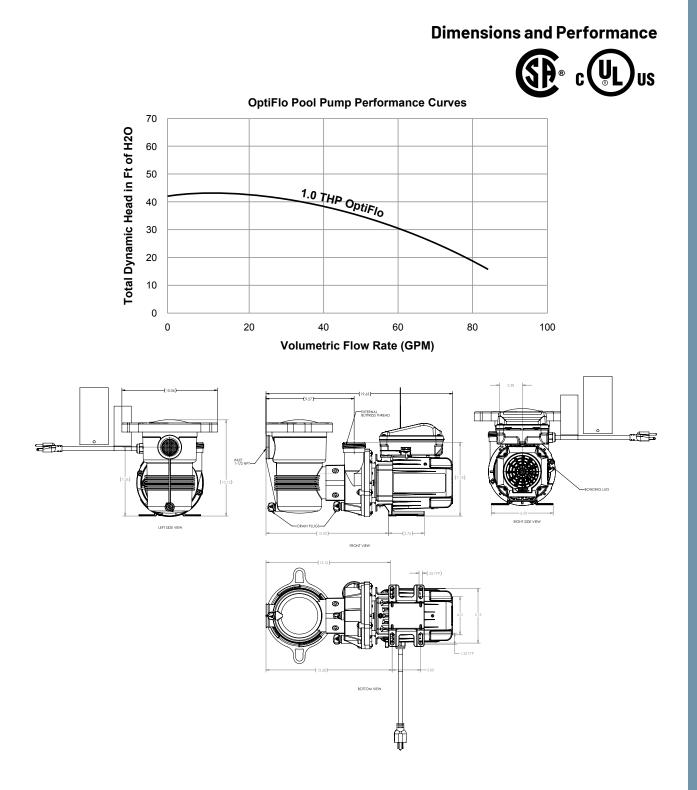
Product	Discharge	Voltage	Full load amps	HP	Cord	Pipe	Weight			
DOE COMPLIANT SINGLE-SPEED TEFC - CORD W/ STANDARD PLUG										
348196	Vertical	115	11.0	1	3' STD	1.5"	28.5			
348200	Horizontal	115	11.0	1	3' STD	1.5"	28.5			
DOE COMPLIANT SINGLE-SPEED TEFC - CORD W/ TWIST LOCK PLUG										
348195	Vertical	115	11.0	1	3' TWL	1.5"	28.5			
348199	Horizontal	115	11.0	1	3' TWL	1.5"	28.5			
DOE COMPLIANT SINGLE-SPEED TEFC - NO CORD										
348198	Vertical	115	11.0	1	None	1.5"	28.5			
348202	Horizontal	115	11.0	1	None	1.5"	28.5			
CSA SINGLE-SPEED TEFC - CORD W/ STANDARD PLUG - NOT FOR SALE IN THE USA										
348197	Vertical	115	11.0	1	25' STD	1.5"	28.5			
348201	Horizontal	115	11.0	1	25' STD	1.5"	28.5			
SINGLE-SPEED 230V - NO CORD - NOT FOR SALE IN THE USA										
340088	Vertical	230	4.6	3/4	None	1.5"	23.5			
340089	Vertical	230	6.0	1	None	1.5"	23.0			
340090	Vertical	230	8.0	1.5	None	1.5"	28.9			

Note: TWL = Twist Lock Cord, STD = Standard Cord

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.

OPTIFLO° PUMP FOR ABOVEGROUND POOLS (CONT'D)



STA-RITE® OPTIFLO® PUMP FOR ABOVEGROUND POOLS





Sta-Rite OptiFlo Pool Pump

Sta-Rite OptiFlo Pump high-flow performance supports a quieter operation. Constructed of Sta-Rite's rugged thermoplastic resin. Large 5-1/2 in. capacity trap and an all-weather, smooth-running motor.

Featured Highlights

- · User-friendly removable drain plugs
- Cam and Ramp[™] Lid lock
- Typical Installation Ideal for aboveground pools
- Years of Service Stands tough against temperature and weather extremes
- External Threads Discharge port features external threads for quick-connect unions

CALIFORNIA PROPOSITION 65 WARNING



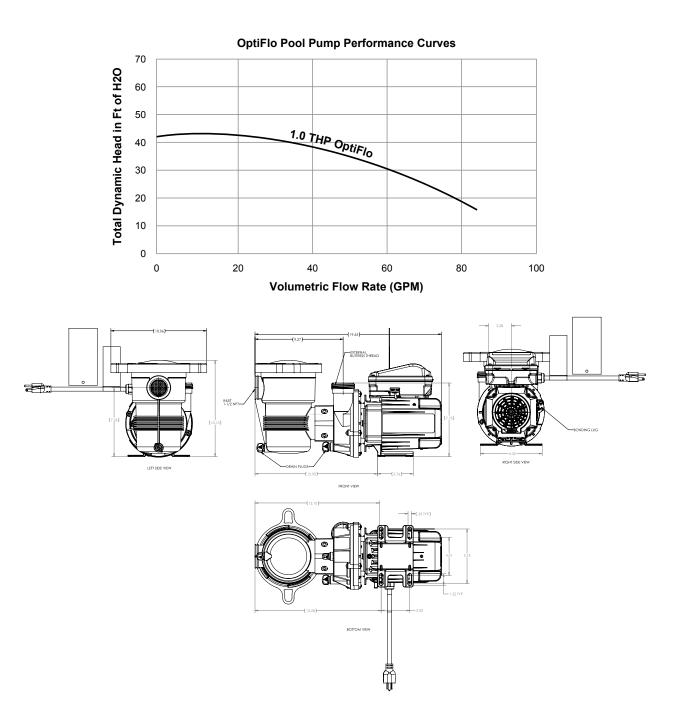
Ordering Information

Product	Discharge	Voltage	Full load amps	HP	Cord	Pipe	Weight		
DOE COMPLIANT SINGLE-SPEED TEFC - CORD W/ STANDARD PLUG									
348196SR	Vertical	115	11.0	1	3' STD	1.5"	28.5		
348200SR	Horizontal	115	11.0	1	3' STD	1.5"	28.5		
DOE COMPLIANT SINGLE-SPEED TEFC - CORD W/ TWIST LOCK PLUG									
348195SR	Vertical	115	11.0	1	3' TWL	1.5"	28.5		
348199SR	Horizontal	115	11.0	1	3' TWL	1.5"	28.5		
DOE COMPLIANT SINGLE-SPEED TEFC - NO CORD									
348198SR	Vertical	115	11.0	1	None	1.5"	28.5		
348202SR	Horizontal	115	11.0	1	None	1.5"	28.5		
CSA SINGLE-SPEED TEFC - CORD W/ STANDARD PLUG - NOT FOR SALE IN THE USA									
348197SR	Vertical	115	11.0	1	25' STD	1.5"	28.5		
348201SR	Horizontal	115	11.0	1	25' STD	1.5"	28.5		

STA-RITE[®] OPTIFLO[®] PUMP FOR ABOVEGROUND POOLS (CONT'D)

Dimensions and Performance





WHISPERFLOXF°VS COMMERCIAL VARIABLE SPEED PUMP

TRADEGRADE



WhisperFloXF VS Pump

It's economical, combined motor/drive solution for HMAC (hotel, motel, apartment, condominum) 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
					WHISPERFLOX	F 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	356324Z RS-485 Automation Wiring Kit, 25 ft.									

400012 XF Riser Base - Simplies installation of XF-series pumps in application where Challenger Pumps are being replaced.

*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.

'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.

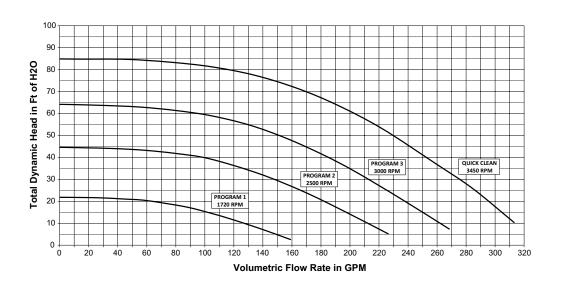
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

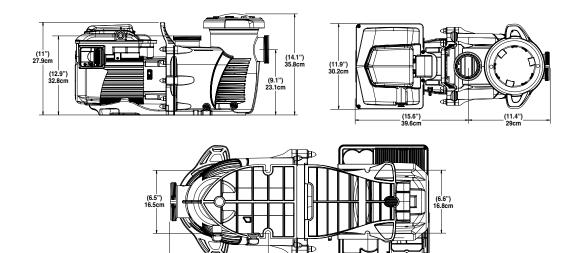
CALIFORNIA PROPOSITION 65 WARNING

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

WHISPERFLOXF VS COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance





See page 541 for replacement parts.

(10.4") 26.4cm (6.4") 16.3cm

-(10.2") 25.9cm

MAX-E-PROXF°VS COMMERCIAL VARIABLE SPEED PUMP



STA-RITE



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, condominum) 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	тнр	WEF	HHP	Service Factor	Voltage	Frequency	Current	Port Size	Weight	Certifications ³
					MAX-E-PROXF	VARIABLE S	PEED			
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	3324Z RS-485 Automation Wiring Kit, 25 ft.									

400012 XF Riser Base - Simplies installation of XF-series pumps in application where Challenger Pumps are being replaced.

*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.

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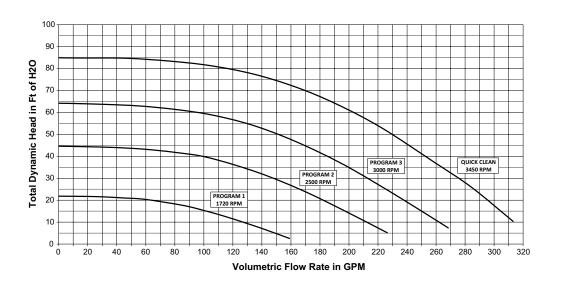
³ Product may have been evaluated to other state and local regulatory standards. Listing status may change. Always confirm status with appropriate agency if in doubt.

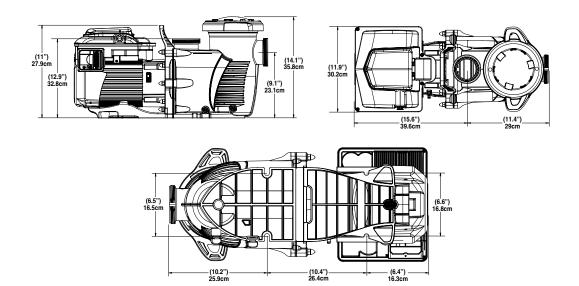
CALIFORNIA PROPOSITION 65 WARNING

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

MAX-E-PROXF[®]VS COMMERCIAL VARIABLE SPEED PUMP (CONT'D)

Dimensions and Performance





See page 541 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

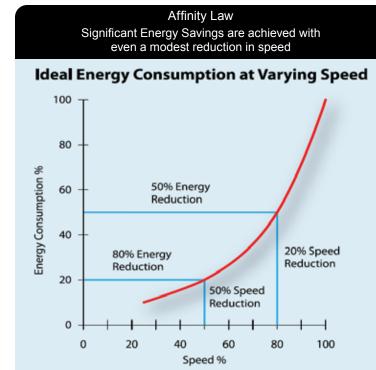
- Great match for 3-phase models of EQ Series[®] Pumps
- Overload trip protection helps protect motor and Acu Drive XS VF Drive from Voltage Spikes and phase unbalance
- Can connect to an IntelliTouch[®] Automation System
- 3-year manufacturers warranty, Optional 6-year warranty available
- Optional: 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

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





*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	N	EMA-12 RATED (IP 54/5	<u>i5)</u>	NEMA-4X RATED (IP 66)							
Power (HP)	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 INPU DARD DISCONNECT			'S ONLY) PENTAIR SMART STA	RT*					
Horse Power (HP)	N	EMA-12 RATED (IP 54/5 200-240 VAC	<u>55)</u>	<u>NEMA-4X RATED (IP 66)</u> 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						
	dhishas Dlassaas	toot footow.									

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

TECHNICIANS	TART-UP ASSISTANCE BY TRAINED IS AVAILABLE FOR PURCHASE WITH ALL ACU DRIVE VFD'S. DUCT NUMBERS AS FOLLOWS:
AD-STDSU01	Startup for single Drive (with or without Bypass Option)
AD-SUDW01	Batch Startup for 2-3 standard drives (4 hr. onsite / day)
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:"									
	200-24	40 VAC	360-48	O VAC					
DURATION	200-24 3 HP & Below	40 VAC 5–25 HP	360-48 10 HP & Below	0 VAC 15-40 HP					

Flow Sensor Options

ACU DRIVE XS - FLOW SENSOR KITS											
Pipe Size	NEMA-12 RATED (IP	<u>54/55)</u>	NEMA-4X RATED (IP 66)								
(inches) 200-240	VAC 525-	-600 VAC	200-240 VAC	525-600 VAC							
2" 97014-42	02KIT Includes:		—	Includes:							
3" 97014-42	• Sch80 PVC Clamp-	on Pipe Saddle.	97014BL-03KIT	 Sch80 PVC Clamp-on Pipe Saddle(3"-8"). 							
4" 97014-42	• 100 linear feet shiel	ded signal wire.	97014BL-04KIT	 Iron Saddle (10"-14"). 							
6" 97016-42			97016BL-06KIT	100 linear feet shielded signal wire.							
8" 97016-42	Does <u>not</u> include sepa flow display.	arate wall-mount	97016BL-08KIT	Strain relief connector.							
10" —	now alopidy.		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.

EO SERIES°

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER





EQ Series TEFC Pump with Strainer

EQ 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.

CALIFORNIA PROPOSITION 65 WARNING

MARNING: Cancer and Reproductive Harm.

- ▲ AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur. ▲ ADVERTENCIA: Cáncer y Daño Reproductivo.

www.p65warnings.ca.gov.

Ordering Information

Featured Highlights

- Efficiency 3-phase motors
- · Commercial grade, noncorrosive 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

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ⁶	Port Size (ANSI Flange)	Motor Class	Carton Wt.(Lbs.)	Curve Key
		PREMI	UM EFFICIENC	Y SIN	IGLE P	HASE P	OOL PUMP WITHOU	T STRAINER - (DDP		
> 340019	EQ-500	230	20.0	5	1.15	5.75	NSF ² , ETL ⁵	6 in. x 4 in.	F	97	А
▶ 340021	EQ-750	230	30.4	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	F	132	В
▶ 340237	EQ-1000	230	40.0	10	1.15	11.50	NSF ²	6 in. x 4 in.	F	125	С
	Ν	IEMA RATED	PREMIUM EFF	ICIE	NCY TH	IREE PH	IASE POOL PUMP W	ITHOUT STRAI	NER - ODP		
▶ 340020	EQK-500	208-230/460	13.5-12.3/6.2	5	1.15	5.75	NSF ²	6 in. x 4 in.	F	77	D
▶ 340022	EQK-750	208-230/460	20.4-18.2/9.1	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	F	87	Е
▶ 340023	EQK-1000	208-230/460	27.0/26.2-13.1	10	1.15	11.50	NSF ²	6 in. x 4 in.	F	117	F
340024	EQK-1500	208-230/460	40.0-38.0/18.8	15	1.15	17.25	NSF ²	6 in. x 4 in.	F	132	G
	Ν	EMA RATED	PREMIUM EFF	ICIEN	ICY TH	REE PH	ASE POOL PUMP W	ITHOUT STRAI	NER - 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			39.0-36.0/18.0	15	1.25	18.75	NSF ² , UL ⁸	6 in x 4 in	F	177	G
							POOL PUMP WITHO				
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
	50 500						POOL PUMP WITH			100	<u> </u>
> 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		40.0	10	1.15	11.50	NSF ³ PHASE POOL PUMP	6 in. x 4 in.	F	160	С
▶ 340031	EQK-500		13.5-12.3/6.2	5	1.15	5.75	NSF 3	6 in. x 4 in.	F	106	D
> 340031	EQK-500 EQK-750		20.1-18.3/9.1	7.5	1.15	8.63	NSF ³	6 in. x 4 in.	F	100	E
340033	EQK-1000		27.0/26.2-13.1	10	1.15	11.50	NSF ³	6 in. x 4 in.	F	146	F
▶ 340034	EQK-1000		40.0-36.0/17.8	15	1.15	17.25	NSF ³	6 in. x 4 in.	F	140	G
- 340033							PHASE POOL PUMP	•	-	101	9
▶ 340604	EQKT-500		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		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			26.4-23.5/11.7	10	1.25	12.50	NSF ³ . UL ⁷	6 in x 4 in	F	193	F
▶ 340607			39.0-36.0/18.0	15	1.25	18.75	NSF ³ . UL ⁸	6 in x 4 in	F	207	G
, 040001		200-200/400	00.0-00.0/10.0	10	1.20	10.75		5 III X 7 III		201	0

EQ SERIES[®]

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER

Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ⁶	Port Size (ANSI Flange)	Motor Class	Carton Wt. (Lbs.)	Curve Key
	NEM	A RATED PRE	MIUM EFFICI	ENCY	′ THRE	E PHAS	E 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
		SINGL	.E PHASE WA	ATER	FALL P	UMP WI	THOUT STRAINER - C	DDP - 1750 RPM			
340014	EQW-300	208-230	19.5/19.2	3	1.15	3.45	NSF ² , ETL ⁵	6 in. x 4 in.	F	97	Н
> 340017	EQW-500	208-230	23.0-20.1	5	1.25	6.25	NSF ² , ETL ⁵	6 in. x 4 in.	F	97	I.
	NEMA RAT	ED PREMIUM	EFFICIENCY	THR	EE PHA	ASE WA	TERFALL PUMP WITH	OUT STRAINER -	ODP - 1750) RPM	
340016	EQWK-300	208-230/460	8.4-7.8/3.9	3	1.15	3.45	NSF ²	6 in. x 4 in.	F	77	Н
> 340018	EQWK-500	208-230/460	13.8-13.0/6.5	5	1.25	6.25	NSF ²	6 in. x 4 in.	F	77	I.
		SIN	GLE PHASE	WATE	RFALL	PUMP	WITH STRAINER - OD	P - 1750 RPM			
▶ 340026	EQW-300	208/230	19.5/19.2	3	1.15	3.45	NSF ³ , ETL ⁵	6 in. x 4 in.	F	126	Н
▶ 340028	EQW-500	208-230	23.0/20.1	5	1.25	6.25	NSF ⁴ , ETL ⁵	6 in. x 4 in.	F	126	I
	NE	MA RATED PF	REMIUM EFFI	CIEN	CY TH	REE PH	ASE WATERFALL PUN	IP WITH STRAINE	R - ODP		
▶340027	EQWK-300	208-230/460	8.4-7.8/3.9	3	1.15	3.45	NSF ³	6 in. x 4 in.	F	106	Н
▶340029	EQWK-500	208-230/460	13.8-13.0/6.5	5	1.25	6.25	NSF ⁴	6 in. x 4 in.	F	106	I.
		HAIR AN	D LINT STRA	INER	WITH (CAM AN	D RAMP LID, BASKET	AND HARDWARE			
340013	EQ 6X6 Strair	ner					NSF ⁴	6 in. x 6 in.		33	J
			EQ SERIES	PUM	P ACC	ESSORI	ES FLANGE ASSEMB	LY KITS			
357262	Flange 4 in. w	/ gasket and SS	S hardware 1	(See i	mages	on next	page)			20	
357263	Flange 6 in. w	/ gasket and SS	6 hardware 1	(See i	mages	on next	page)			23	
357212	Flange 6 in. w	/ gasket and SS	Shardware. Fo	or use	on EQ	Pumps	without Strainer.			23	

See page 249 for an assortment of PS Series In-Line Strainers that work well with EQ Series pumps.

- 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.

CALIFORNIA PROPOSITION 65 WARNING

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

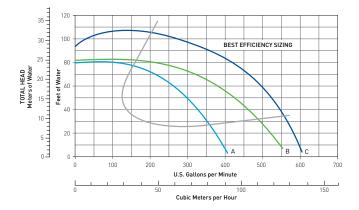
See pages 542–543 for replacement parts.

EQ SERIES°

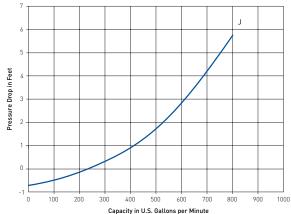
COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER (CONT'D)

Dimensions and Performance

Single Phase Pumps - EQ Models

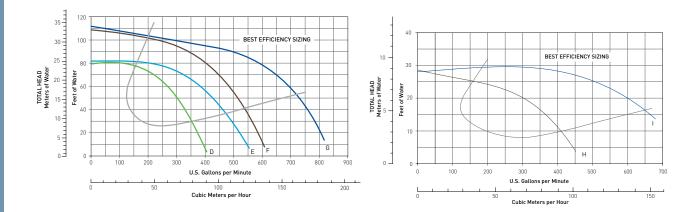


EQ Strainer Only



Three Phase Pumps - EQK Models

WaterFall Pumps - EQW & EQWK Models



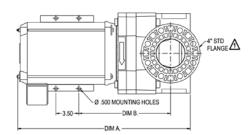
For detailed efficiency curves go to www.pentaircommercial.com

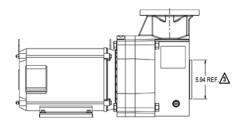
EQ SERIES°

COMMERCIAL PLASTIC PUMP WITH AND WITHOUT HAIR AND LINT STRAINER

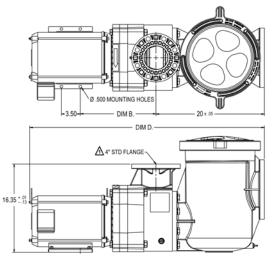
(CONT'D)

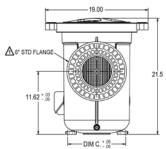
EQ Series Commercial Pump without Strainer





EQ Series Commercial Pump with Strainer

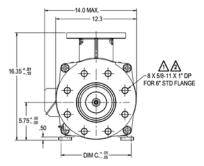




CONNECTION

Dimensions and Performance EQ Series Pump Flange Assembly Kit





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

A 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.

 \sim 10 eq series point, if point is 10 be installed without strainer make both connections per Note 1. \wedge 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

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.

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.

Ordering Information

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

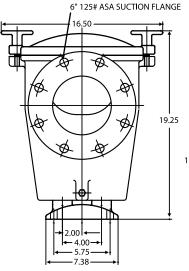
	-											
Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ²	Motor Class	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key	
NEMA RATED STANDARD EFFICIENCY SINGLE PHASE 230V												
011651	CM-50	230	24.0	5	1.15	5.75	NSF 1	В	6 in. x 4 in.	352	F	
011656	CH-50	230	24.0	5	1.15	5.75	NSF 1	В	6 in. x 4 in.	352	А	
347917	CM-75	230	37.0	7-1/2	1.15	8.63	NSF 1	В	6 in. x 4 in.	375	G	
347916	CH-75	230	37.0	7-1/2	1.15	8.63	NSF 1	В	6 in. x 4 in.	375	В	
▶ 347964	CM-100	230	51.0	10	1.15	11.50	NSF 1	В	6 in. x 4 in.	370	н	
▶ 347963	CH-100	230	51.0	10	1.15	11.50	NSF 1	В	6 in. x 4 in.	370	С	
			NEMA RA	TED STA	NDAR	D EFFIC	IENCY SINGLE PHASE	E 200 - 20	8V			
▶ 347938	CM-50	200-208	29.0	5	1.15	5.75	NSF 1	В	6 in. x 4 in.	322	F	
▶ 348001	CM-75	200-208	42.6	7-1/2	1.15	8.63	NSF 1	В	6 in. x 4 in.	375	G	
			NEMA RA	TED ST/	ANDAR	D EFFIC	IENCY THREE PHASE	200 - 20	8V			
▶ 347940	CMK-50	200-208	16.1	5	1.15	5.75	NSF 1	В	6 in. x 4 in.	346	F	
▶ 347941	CHK-50	200-208	16.1	5	1.15	5.75	NSF 1	В	6 in. x 4 in.	350	А	
▶ 347942	CMK-75	200-208	22.3	7-1/2	1.15	8.63	NSF 1	В	6 in. x 4 in.	346	G	
▶ 347943	CHK-75	200-208	22.3	7-1/2	1.15	8.63	NSF 1	В	6 in. x 4 in.	346	В	
▶ 347944	CMK-100	200-208	28.7	10	1.15	11.50	NSF 1	В	6 in. x 4 in.	370	Н	
▶ 347945	CHK-100	200-208	28.7	10	1.15	11.50	NSF 1	В	6 in. x 4 in.	356	С	
▶ 347948	CHK-200	200-208	54.0	20	1.15	23.00	NSF 1	F	6 in. x 4 in.	406	Е	
			NEMA RA	TED ST	ANDAF	RD EFFIC	CIENCY THREE PHASE	E 220/440)V			
011657	CHK-50	220/440	13.0/6.5	5	1.15	5.75	NSF 1	F	6 in. x 4 in.	336	А	
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	В	
011659	CHK-100	220/440	25.3/12.6	10	1.15	11.50	NSF 1	В	6 in. x 4 in.	376	С	
▶011660	CHK-150	220/440	37.5/18.8	15	1.15	17.25	NSF 1	В	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	Е	

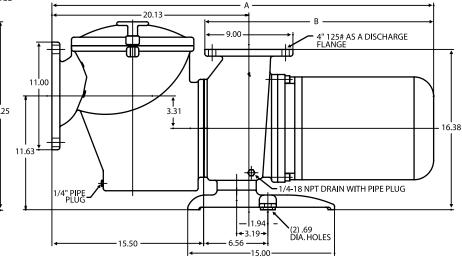
C SERIES°

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	А
▶ 347935	CHK-200	575	19.5	20	1.15	23.00	NSF 1	F	6 in. x 4 in.	406	Е
	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	

¹ "NSF" indicates that pump has bee 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.





PUMP DIMENSIONS								
THREE-PHASE AMPS @ 220/440 & 380/415 V								
AMPS	А	В						
14	34.88	19.50						
20	35.88	20.50						
26	36.88	22.50						
38	37.38	22.00						
20 46 37.88 23.50								
	E-PHASE 40 & 380 AMPS 14 20 26 38	E-PHASE AMPS @ 40 & 380/415 V AMPS A 14 34.88 20 35.88 26 36.88 38 37.38						

PUN	PUMP DIMENSIONS										
SINGLE-PHASE AMPS @ 230 VOLTS											
HP	AMPS	Α	В								
5	26	35.50	20.50								
7.5	37	35.88	20.50								

PUMP DIMENSIONS												
		SINGLE-PHASE AMPS @ 200 VOLTS										
		HP	AMPS	А	В							
		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.

See pages 544–545 for replacement parts.

Dimensions and Performance

C SERIES°

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



Bronze Pump without Hair and Lint Strainer

C Series Commercial

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

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▲ 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.

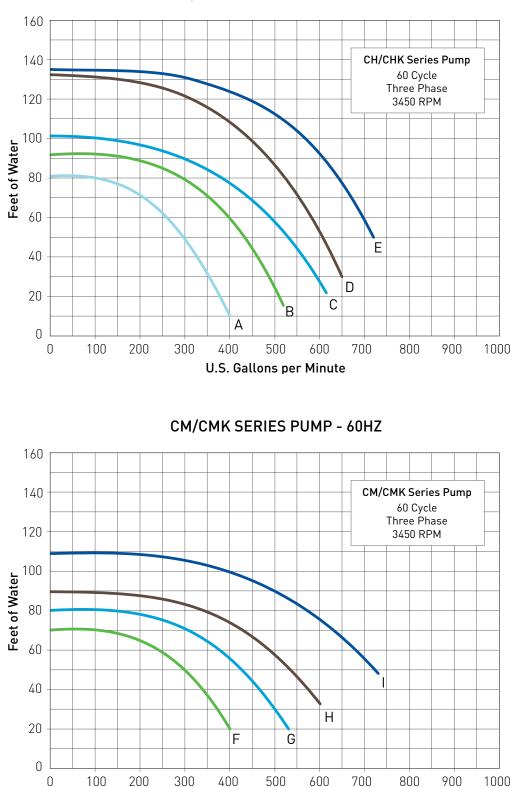
Product	Description	Voltage	Amps	HP	SF	SFHP	Primary Listings and Certifications ³	Motor Class	Port Size (ANSI Flange)	Carton Wt. (Lbs.)	Curve Key
			NEMA RA	TED ST	ANDAI	RD EFFI	CIENCY SINGLE PHASE	200-208	/		
> 347950	CH-50	200–208	29.0	5	1.15	5.75	NSF ²	В	5 in. x 4 in.	302	А
▶ 347961	CM-75	200–208	42.6	7-1/2	1.15	8.63	NSF ²	В	5 in. x 4 in.	315	G
		С	SERIES &	AUROF	RAPUN		ESSORIES FLANGE ASS	SEMBLY K	ITS		
357260	Flange 5 in. w/	gasket and S	SS hardwar	e ¹ for p	ump les	ss straine	er			22	
357262	Flange 4 in. w/ gasket and SS hardware 1 2										
357263	Flange 6 in. w/	Flange 6 in. w/ gasket and SS hardware 1									

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.

C SERIES°

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



CH/CHK SERIES PUMP - 60HZ

For detailed efficiency curves go to www.pentaircommercial.com

See pages 544–545 for replacement parts.

U.S. Gallons per Minute

CSP/CCSP SERIES[™]

COMMERCIAL SELF-PRIMING PUMP

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

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.

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	STAND	ARD EF	FICIENCY	SINGLE PHASE CAST	IRON		
CSPHK-142	230	39	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	270	А
CSPHL-143	230	46	10	1.15	11.50	NSF ²	6 in. x 4 in.	275	В
	NEM	IA RATED STAND	ARD EFF	-ICIENC	Y SINGLE	PHASE EPOXY COATE	D CAST IRON		
CCSPHK-142	230	39	7.5	1.15	8.63	NSF ²	6 in. x 4 in.	270	Е
CCSPHL-143	230	46	10	1.15	11.50	NSF ²	6 in. x 4 in.	275	F
		NEMA RATED) STANE	DARD EF	FICIENC	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	А
CSPHL3-143	230/460	27.6-24.4/12.2	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	В
CSPHM3-144	230/460	44.2-40/20	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	С
CSPHN3-145	230/460	55.3-50/25	20	1.25	25.00	NSF ²	6 in. x 4 in.	325	D
		NEMA RATED ST	ANDARI	DEFFICI	ENCY TH	REE PHASE CAST IRO	N - 200V ⁶		
CSPH2K3-142	200	22.1	7-1/2	1.15	8.63	NSF ²	6 in. x 4 in.	265	Α
CSPH2L3-143	200	28.1	10	1.25	12.50	NSF ²	6 in. x 4 in.	270	В
CSPH2M3-144	200	42.3	15	1.25	18.75	NSF ²	6 in. x 4 in.	280	С
CSPH2N3-145	200	57.3	20	1.25	25.00	NSF ²	6 in. x 4 in.	350	D
	NEM	A RATED STAND	ARD EF	FICIENC	Y THREE	PHASE EPOXY COATE	D 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	Н
	NEMA R	ATED STANDARD	EFFICIE	ENCY TH	IREE PHA	SE EPOXY COATED C	AST IRON - 200 V ⁶		
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	Н
			ACCES	SORIES	FOR CSP	CCSP SERIES			
PKG 184	Strainer for CS capacity)	P/CCSP 6 in. ANSI	flange (1	I,100 cu. i	n.	NSF ³	6 in. x 6 in.	180	I
PKG 184C	Same as PKG	184 Except Strainer	is Epox	y Coated		NSF ³	6 in. x 6 in.	180	I.
357262	Flange 4 in. w/	gasket and SS hard	dware ⁵					20	
357263	Flange 6 in. w/	gasket and SS hard	dware ⁵					23	

¹ Amp draw may vary depending on motor manufacturer.

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

- 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
- appropriate agency if in doubt.
- ³ 'NSF(2)' indicates that product bears a mark signifying evaluation to NSF Standard 50 For Materials and Components.
- ⁵ Thermoplastic PVC socket style.

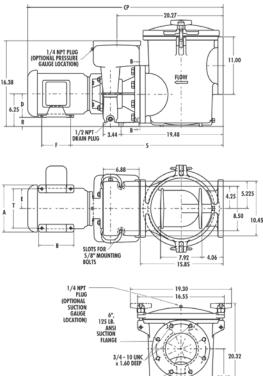
⁶ For 208 volt applications, use 200v model options.

CSP/CCSP SERIES[™] COMMERCIAL SELF-PRIMING PUMP (CONT'D)

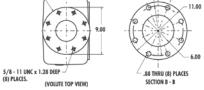
Featured Highlights

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.

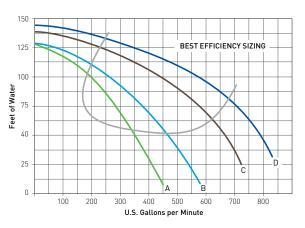
Note: Maximum ambient temperature for motor is 104°F (40°C). All pump motors require external overload protection (magnetic starter). Pump strainer must be ordered separately. Full load amps on motor model plate.

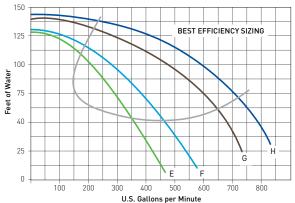


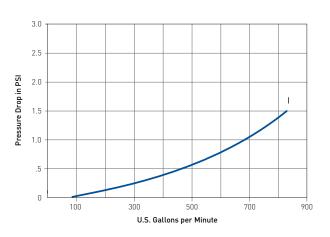




Dimensions and Performance







Catalog Number	Α	В	CP	D	Е	F	R	S	т
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.

5CSP/5CCSP SERIES[™]

50 HERTZ COMMERCIAL SELF-PRIMING PUMP





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

CALIFORNIA PROPOSITION 65 WARNING	
▲ WARNING: Cancer and Reproductive Harm. ▲ AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteu ▲ ADVERTENCIA: Cáncer y Daño Reproductivo www.p65warnings.ca.gov.	มr.). น

Ordering Information

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.

Product	Voltage	Amps ¹	HP	SF	SFHP	Primary Listings and Certifications ³	Port Size (ANSI Flange)	Carton Wt.(Lbs.)	Curve Key
		SINGLE	PHASE	CAST IR	ON WITH	HOUT STRAINER- 50 HZ			
▶ 5CSPHJ-142	220-240	35.5-32.5	5	1.00	5		6 in. x 4 in.	270	А
▶ 5CSPHK-143	220-240	43.0-39.4	7-1/2	1.00	7-1/2		6 in. x 4 in.	280	В
		THREE F	PHASE	CAST IR	ATIW NC	HOUT STRAINER- 50 HZ			
▶ 5CSPHJ3-142	220-240/380-415	13.0/6.9	5	1.00	5		6 in. x 4 in.	260	Α
▶ 5CSPHK3-143	220-240/380-415 2	20.7-21.5/12.0/12.4	7-1/2	1.00	7-1/2		6 in. x 4 in.	270	В
▶ 5CSPHL3-144	220-240/380-415	27.0-27.5/15.6- 15.9	10	1.00	10		6 in. x 4 in.	280	С
▶ 5CSPHM3-145	220-240/380-415	38.9-20.6	15	1.00	15		6 in. x 4 in.	300	D
	Т	HREE PHASE E	POXYC	COATED	CAST IR	ON WITHOUT STRAINER	R - 50 HZ		
▶ 5CCSPHJ3-142	220-240/380-415	13.0/6.9	5	1.00	5		6 in. x 4 in.	260	Α
► 5CCSPHK3-143	220-240/380-415	20.7-11.0	7-1/2	1.00	7-1/2		6 in. x 4 in.	270	В
▶ 5CCSPHL3-144	220-240/380-415	26.9-14.3	10	1.00	10		6 in. x 4 in.	280	С
► 5CCSPHM3-145	220-240/380-415	38.9-20.6	15	1.00	15		6 in. x 4 in.	300	D
		A	CCESS	ORIES F	OR 5CSI	P/5CCSP SERIES			
PKG 184	Strainer for CSP/ capacity)	CCSP 6 in. ANSI	lange (1	l,100 cu. ii	า.	NSF ⁴	6 in. x 6 in.	180	I
PKG 184C	Same as PKG 18	4 Except Strainer	is Epox	y Coated		NSF ⁴	6 in. x 6 in.	180	I
357262	Flange 4 in. w/ ga	asket and SS hard	ware 2					20	
357263	Flange 6 in. w/ ga	asket and SS hard	ware ²					23	

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

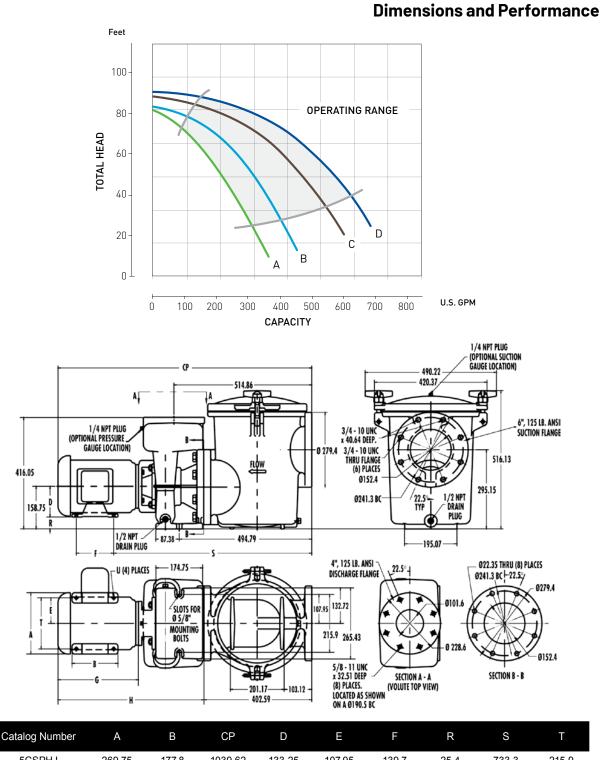
² Thermoplastic PVC socket style.

- 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.

See pages 278 for Hair and Lint Strainer Packages.

5CSP/5CCSP SERIES[™]

50 HERTZ COMMERCIAL SELF-PRIMING PUMP (CONT'D)



	A	D	0F	D	E		R	3	
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.

D-SERIES[™] CAST IRON SELF-PRIMING CENTRIFUGAL COMMERCIAL PUMP



CALIFORNIA PROPOSITION 65 WARNING WARNING: Cancer and Reproductive Harm. AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproductive. ADVERTENCIA: Cáncer y Daño Reproductivo. www.p65warnings.ca.gov.

Featured Highlights

- Especially designed for commercial applications where high performance and self-priming characteristics are desired
- These self-priming, high performance pumps are available in high head and medium head models, providing a complete range of performance characteristics
- Motors are open drip-proof, continuous duty rated 3450 RPM.

Orde	ering Information	

Product	Voltage	Amps ¹	HP	Primary Listings and Certifications ³	Port Size (NPT)	Carton Wt. (Lbs.)	Curve Key
		STAN	DARD EFFICIE	NCY THREE PHASE HIGH F	IEAD		
DHH3-169	230/460	8.6/4.3	3	NSF ²	1-1/2 in.	135	А
DMH3-171	230/460	8.6/4.3	3	NSF ²	2 in.	135	С
		STAND	ARD EFFICIEN	CY THREE PHASE MEDIUM	HEAD		
DHJ3-170	230/460	13.2/6.6	5	NSF ²	2 in.	178	В
DMJ3-172	230/460	13.2/6.6	5	NSF ²	2-1/2 in.	178	D

* 200 Volt models available. Contact factory for details.

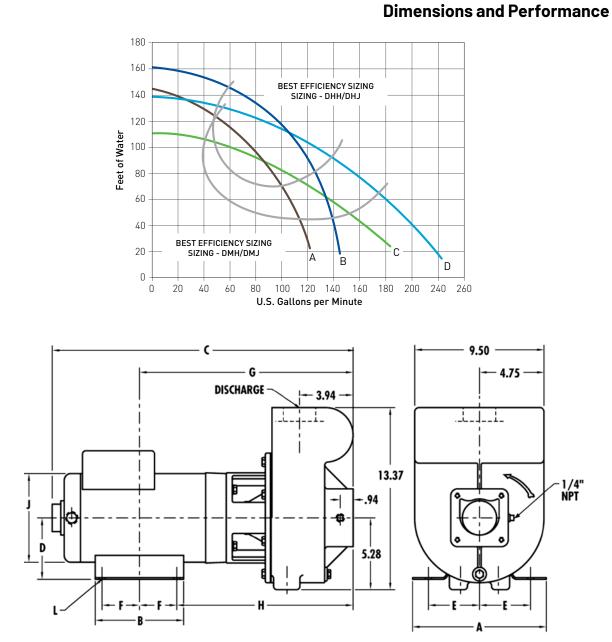
¹ Dimensions and Max Load Amps may vary per motor manufacturer.

² 'NSF(1)' indicates that pump bears a mark signifying evaluation to NSF Standard 50 For Self-Priming Centrifugal Pumps For Swimming Pools, Spas and Hot Tubs when installed with a NSF certified Hair and Lint Strainer. 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.

See page 278 for Hair and Lint Strainer Packages.

D-SERIES[™]

CAST IRON SELF-PRIMING CENTRIFUGAL COMMERCIAL PUMP (CONT'D)



Note: "L" mounting dimension: .44 Slot = 3/8 in. Bolt .34 Diameter = 5/16 in.

Catalog Number	HP	Discharge (NPT)	Α	В	C*	D	Е	F	G	н	J	L
DHH-169	3	1-1/2	8.75	6.50	21.37	4.50	3.75	2.25	15.21	12.96	6.51	.44 SLOT
DHH3-169	3	1-1/2	6.50	6.50	19.87	3.50	2.75	2.50	14.45	12.20	6.51	.34 DIA.
DHJ-170	5	2	8.75	6.50	22.12	4.50	3.75	2.75	15.71	12.96	6.51	.44 SLOT
DHJ3-172	5	2	8.75	6.50	21.62	4.50	3.75	2.25	15.21	12.96	6.50	.44 SLOT
DMH-171	3	2	8.75	6.50	21.37	4.50	3.75	2.25	15.21	12.96	6.51	.44 SLOT
DMH3-171	3	2	6.50	6.50	19.87	3.50	2.75	2.50	14.45	12.20	6.51	.34 DIA.
DMJ-172	5	2-1/2	8.75	6.50	22.12	4.50	3.75	2.75	15.71	12.96	6.51	.44 SLOT
DMJ3-172	5	2-1/2	8.75	6.50	21.62	4.50	3.75	2.25	15.21	12.96	6.50	.44 SLOT

AURORA° 3800 SERIES AND 410 SERIES

END SUCTION AND SPLIT CASE PUMPS



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's to 150 and flows to 8,000 GPM.

Ordering Information

ProductDescriptionCarton 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.

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. suersa

BERKELEY® B-SERIES CENTRIFUGAL COMMERCIAL PUMPS

Featured Highlights

Where a large volume of water is needed, in flooded suction applications, Berkeley brand pumps can accommodate almost any water-moving needs. For decades, Berkeley brand pumps have been well known for their water systems. Once recognized for only being affiliated with irrigation and water systems, Berkeley pumps are now available in many configurations to be used in the following applications:

- Water features
- · Water parks
- Aquaculture
- · Commercial pools and spas

The pumps included in the chart below show just a small sampling of the many pump sizes and designs that are available. In addition, we offer a wide range of gpm/head configurations; 1200, 1750, or 3450 rpm motors; 50 or 60 Hz; optional highefficiency motors; voltage, horsepower, and service factor options; lead-free bronze impellers; flange or threaded connection in many sizes; and packing or mechanical shaft seal design pumps. Flooded suction required. For a complete selection guide to help you size the pump(s) that fits your needs, call our customer service at 1-800-831-7133, or use the convenient Berkeley Electronic Catalog (BEC) located at www.berkeleypumps.com.



Berkeley B-Series

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.

Ordering Information CALL FOR QUOTE

Product	General Pump Design Model	HP	Best Operating Performance G.P.M.	Connection at X ft. of Head	RPM	Flange (inches)
			BERKELEY B-SERIES PUMPS			
B71943S	B3ZPMS	5 HP	350	40	1800	3 x 4
B71945S	B3ZPMS	7.5 HP	400	53	1800	3 x 4
B71947S	B3ZPMS	10 HP	500	60	1800	3 x 4
B71949S	B3ZPMS	15 HP	600	63	1800	3 x 4
B76775	B5EPHS	20 HP	950	60	1800	5 x 6
B76776	B5EPHS	25 HP	1050	65	1800	5 x 6
B75861	B4GPBHS	30 HP	1100	85	1800	4 x 6
B74945	B6JPBMS	40 HP	1500	80	1800	6 x 8
B76786	B8GPBMS	50 HP	2700	50	1800	8 x 10

Options: The above pumps have silicon bronze impellers, flanged connections, close-coupled, open drip-proof motors, and mechanical shaft seals. As mentioned in the text at the top of the page, many options are available. Please call our Customer Service at 800-831-7133 or try using the convenient "BEC" system at www.berkeleypumps.com.

• Berkeley pumps are not NSF approved.

HYDROBOOST[®] BOOSTER PUMP

PRESSURE-SIDE CLEANER PUMP

Featured Highlights

chance of motor burnout • Certified by ENERGY STAR®

Quick installation
Reliable operation
THP: 0.8 WEF: 0.62

• Totally Enclosed Fan Cooled (TEFC) Motor to help reduce the

TRADEGRADE

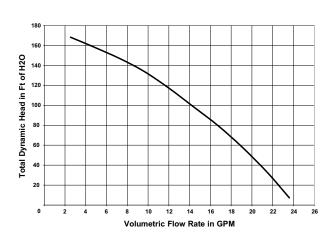


HydroBoost Booster Pump

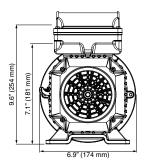
The HydroBoost Booster Pump provides high pressure water to your pressure side automatic pool cleaner. This booster pump is NOT self-priming and should not run unless the filter pump is running.

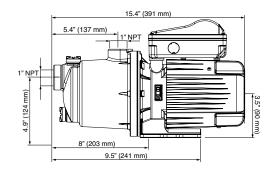
Ordering Information

Product	Voltage	Full Load Amps	THP	WEF	Primary Listings and Certifications ²	Port Size (NPT)	Carton Wt. (Lbs.)
			HYDR	OBOOST BO	OSTER PUMP		
360526	115/230	9.0/4.5	0.8	0.62	UL ¹	1"	29.18
ACCESSORIES							
353040	Hose Kit (inclu	udes 3/4" - 1" A	dapters (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 orgreater cannot be sold, offered for sale, or installed in a residential pool for filtration use in California, Title 20 CCR sections 1601-1609.





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www.p65warnings.ca.gov. PN200174A

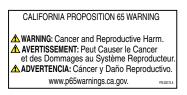
See page 552 for replacement parts.

BOOSTER PUMP PRESSURE-SIDE CLEANER PUMP

Featured Highlights

- · Use with all pressure-side pool cleaners
- · Hose and adapters included
- · Ideal for pressure-side Booster pump replacement

Combines ultimate performance with efficiency for pressure-side pool cleaner ease. The 3/4 HP booster pump is made from durable, corrosion-proof materials, and provides 50 psi at 12 GPM.



Booster Pump

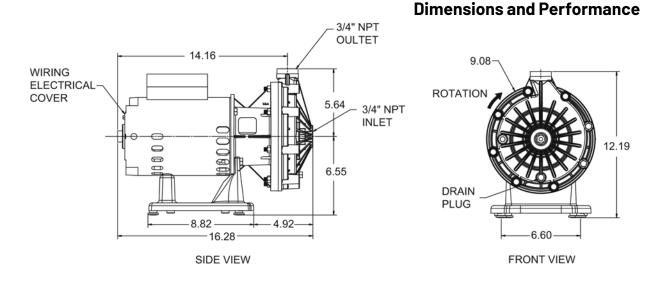


Ordering Information

Product	Voltage	Full Load Amps	HP	SF	SFHP	Primary Listings and Certifications ²	Port Size (NPT)	Carton Wt.(Lbs.)
		E	NERGY EFF	ICIENT S	SINGLE SF	PEED		
► LA01N	115/230	13.0/6.5	3/4	1.50	1.13	UL 1	3/4 in. x 3/4 in.	32
	ACCESSORIES							
353020	Booster Pump H	ose Kit						4
370239 Booster Pump Adapter Kit (4 hose adapters in a bag, no hose)								

¹ 'UL(2)' indicates that pump bears a UL mark signifying evaluation to U.S. Standards UL1081 for Permanently Connected Swimming Pool Pumps Only.

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.



See page 554 for replacement parts.

> 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.

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 ${\sf F}$ to 130 degrees ${\sf F}$
- · 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

CALIFORNIA PROPOSITION 65 WARNING

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.

▲ 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.

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

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						

Dimensions and Performance

		Motor		Minimum	Liquid	Switch	Setting	Pumps
Model	HP	Full Load (Amps)	RPM	Circuit Req.	Temperature Range	On	Off	Down To
PCD-1000	3/4	6.4	3450	15 amps	32/130°F 0/54°C	12" 30 cm	6" 15.2 cm	1¾" 3.5 cm

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

276

> 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.

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.

Orderina	Information
or a crimy	

		Pump Mod	<u>lel by HP</u>	
Product	PE, P2R	PEA, P2RA	PR	PRA
SE/		T KITS – Incl kets, and O-r		seal,
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			

CALIFORNIA PROPOSITION 65 WARNING	

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et des Dommages au Système Reproducteur. ADVERTENCIA: Cáncer y Daño Reproductivo.

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	Pump Model by HP			
Product	CH, LT, L1	LHA, LTA, L1A	PCD	
SEAL/GA	SKET KITS gaskets, a	6 – Include sł nd O-rings	aft seal,	
PP1080	1/6			
PP1081	1/3	1/2		
PP1082	1/2	3/4		
PP1682			1/2	

	Pump Model by HP			
Product	P4E, P4R	P4EA, P4RA	MPRA, MPEA	
-	GASKET KI eal, gaskets			
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	

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



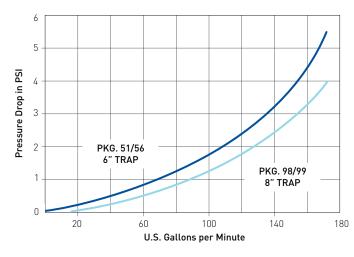
Ordering Information

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 56	6 in. Bronze 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 76	Cast Iron Flange for Remote Trap Install	3 in. NPT	4
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
PKG 73	3 in. Suction Flange (For C, CC, and D Series Pumps)		
PKG 72	2.5 in. Suction Flange (For C, CC, and D Series Pumps)		
PKG 52	1.5 in. Suction Flange (For C, CC, and D Series Pumps)		
PKG 53	1.5 in. Suction Flange (For C, CC, and D Series Pumps)		

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. PN 200174.
 - www.p65warnings.ca.gov.

Dimensions and Performance







PKG 76

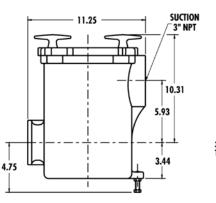




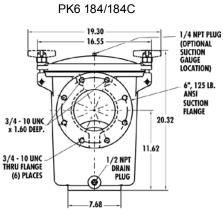
PKG 184 - 8 in.

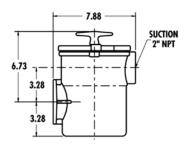
PKG 51 - 5 in. OR 6 in.

PKG 51/56 - 6 INCH TRAP



PKG 98/99 - 8 INCH TRAP





PS SERIES[™] IN-LINE STRAINER

FOR COMMERCIAL SERIES PUMPS

Featured Highlights

- · Designed for hydraulic performance
- · Clear lid with easy access allows for simple visibility of debris
- · Extra large stainless steel strainer basket
- 50 psi rating
- · NSF certified

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.



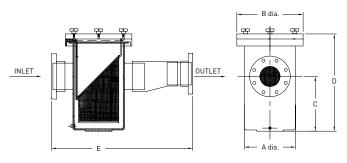
PS Series In-Line Strainer

The Commercial PS Series In-Line Strainers from Pentair are designed for ease of installation and hydraulic efficiencies in commercial aquatics applications. In three standard sizes and with the addition of eccentric reducers PS Series strainers fit with almost any plumbing configuration. The design of the PS Series accommodates the high-flow performance in a variety of applications. ANSI flange bolt pattern allows for ease of installation and peace of mind.

Ordering Information

								-	
Product	Description	Flang	<u>e Size</u>	Typical Max. Flow	Α	В	С	D	Е
		Inlet (suction)	Outlet (pump)	(GPM)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)
	PS SERIES 6 INCH SUCTION								
PS6X6	Straight	6 in.	6 in.	540	12-3/4	16-1/2	13-5/8	25-1/2	23-5/8
PS6X5E	Eccentric Reducing	6 in.	5 in.	540	12-3/4	16-1/2	13-5/8	25-1/2	35-1/4
PS6x4E	Eccentric Reducing	6 in.	4 in.	540	12-3/4	16-1/2	13-5/8	25-1/2	32-7/8
PS6X3E	Eccentric Reducing	6 in.	3 in.	540	12-3/4	16-1/2	13-5/8	25-1/2	38
PS SERIES 8 INCH SUCTION									
PS8X8	Straight	8 in.	8 in.	930	12-3/4	16-1/2	13-5/8	25-1/2	23-3/8
PS8X6E	Eccentric Reducing	8 in.	6 in.	930	12-3/4	16-1/2	13-5/8	25-1/2	35-7/8
PS8X5E	Eccentric Reducing	8 in.	5 in.	930	12-3/4	16-1/2	13-5/8	25-1/2	43-1/2
PS8X4E	Eccentric Reducing	8 in.	4 in.	930	12-3/4	16-1/2	13-5/8	25-1/2	41-1/4
			PS SERIE	ES 10 INCH SUCTIO	N				
PS10X10	Straight	10 in.	10 in.	1470	12-3/4	16-1/2	20-5/8	32-1/2	24-1/2
PS10X8E	Eccentric Reducing	10 in.	8 in.	1470	12-3/4	16-1/2	20-5/8	32-1/2	38-3/4
PS10X6E	Eccentric Reducing	10 in.	6 in.	1470	12-3/4	16-1/2	20-5/8	32-1/2	47
PS10X5E	Eccentric Reducing	10 in.	5 in.	1470	12-3/4	16-1/2	20-5/8	32-1/2	54-1/2
				BASKETS					
67150	PS6 and PS8 Basket								

67152 PS10 Basket



Dimensions and Performance

- 1. Select inlet size based on size of suction pipe. Use chart above to determine Typical Max. Flow in pipe size based on flow velocity of 6 fps.
- 2. Select strainer outlet size to match pump inlet where practical.
- 3. Also available with custom flange sizes. Call factory for more information.

CONVERSION REFERENCE CHARTS

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