

Cabarrus Health Alliance
Pump Identification

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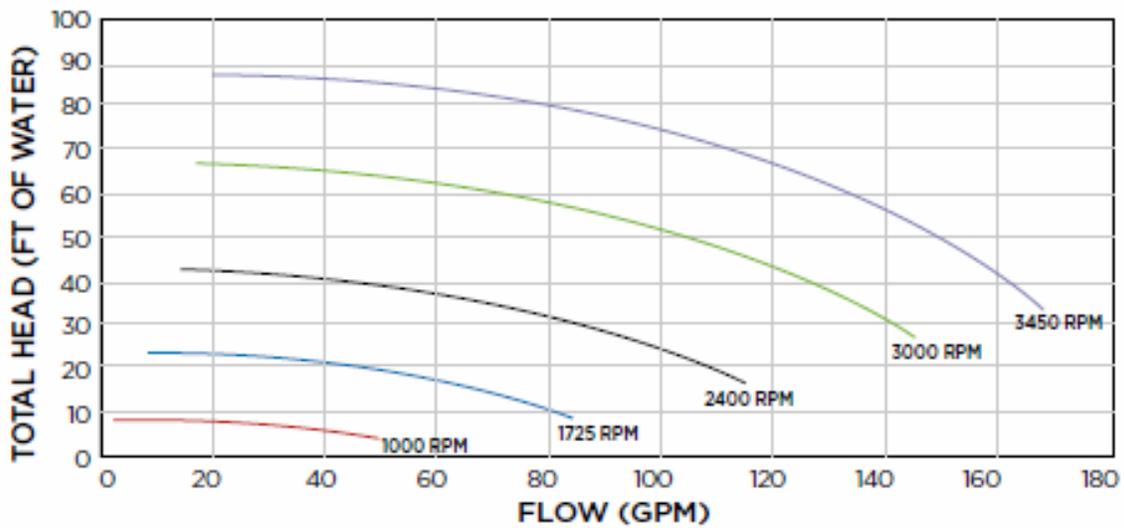
** This document does not take the place of manufacturer specifications from the manufacturer website. This document is a tool to assist in pump curve and maximum flow identification. **

Hayward EcoStar and EcoStar C

Hayward	EcoStar - or - EcoStar C EcoStar + SVRS - or - EcoStar C + SVRS	
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Part Number	Description	Speed Range	Voltage
HCP3400VSP	EcoStar C	600-3450 RPM	230V Single Phase
HCP3400VSPVR	EcoStar C SVRS	1000-3450 RPM	230V Single Phase

ECOSTAR C PERFORMANCE DATA



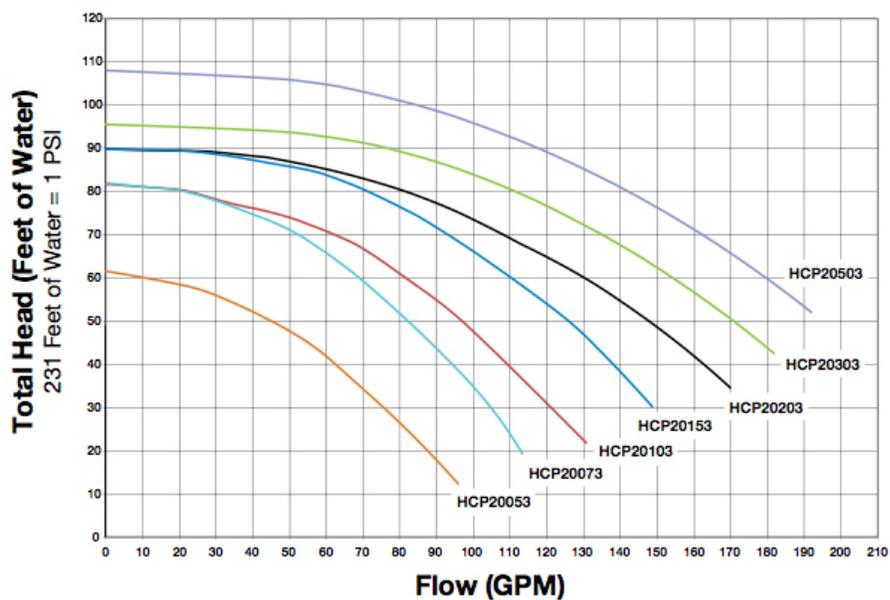
EcoStar C runs efficiently in all of these ranges.

Hayward HCP 2000 Series



TECHNICAL SPECIFICATIONS

PART NUMBER	RATED H.P.	VOLTAGE	AMPS	HZ	UNION CONNECTIONS	CARTON WEIGHT (LBS.)	PUMP OUTPUT (GPM) VS. TOTAL RESISTANCE TO FLOW PER FT OF HEAD									
							20	30	40	50	60	70	80	90	100	
HCP20053	0.5	208-230/460 3-Phase	3.8-3.6/1.8	50/60	2" x 2.5"	41.0	87	76	62	44	14	—	—	—	—	
HCP20073	0.75	208-230/460 3-Phase	5-4.6/2.3	50/60	2" x 2.5"	49.0	104	95	85	71	53	23	—	—		
HCP20103	1	208-230/460 3-Phase	6.4-5.8/2.9	50/60	2" x 2.5"	49.0	131	122	110	97	82	60	16	—		
HCP20153	1.5	208-230/460 3-Phase	6.8-7/3.5	50/60	2" x 2.5"	49.0	150	148	140	126	112	94	70	—		
HCP20203	2	208-230/460 3-Phase	8-8.4/4.2	50/60	2" x 2.5"	49.0	170	170	162	148	130	110	80	26		
HCP20303	3	208-230/460 3-Phase	10.8-11.4/5.7	50/60	2" x 2.5"	49.0	190	190	186	174	155	138	114	72		
HCP20503	5	208-230/460 3-Phase	13.4/6.7	60	2" x 2.5"	65.0	200	200	200	193	182	167	150	126	75	

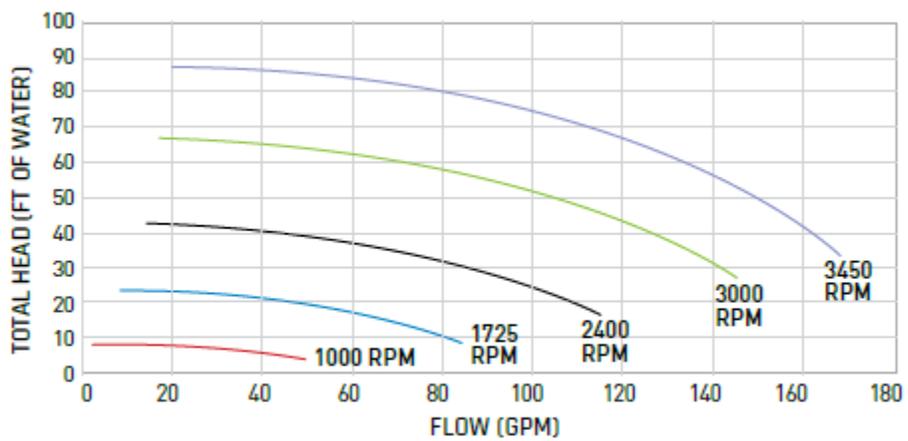


Hayward HCP 2500 Series



TECHNICAL SPECIFICATIONS				
PART NUMBER	DESCRIPTION	SPEED RANGE	VOLTAGE	CARTON QUANTITY
HCP2500VSP	TriStar® VS C	600-3450 RPM	230V Single Phase	1
HCP2500VSPVR	TriStar VS C SVRS	1000-3450 RPM	230V Single Phase	1

PERFORMANCE DATA



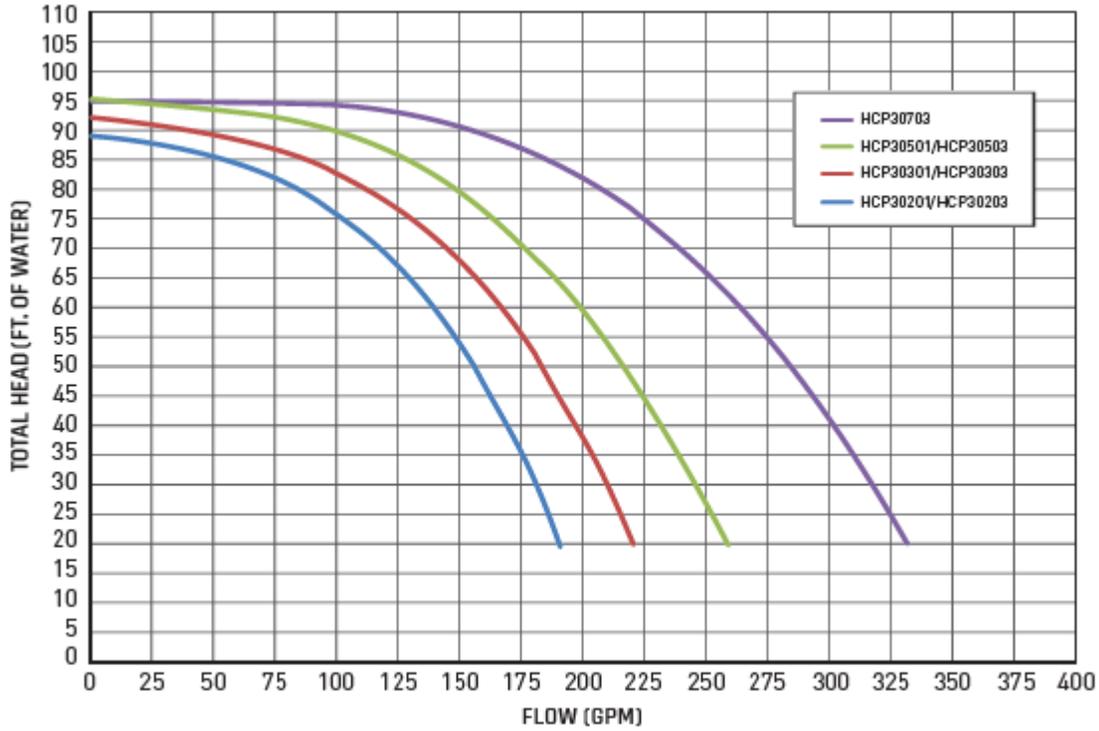
TriStar VS C runs efficiently in all of these ranges.

Hayward HCP 3000 Series

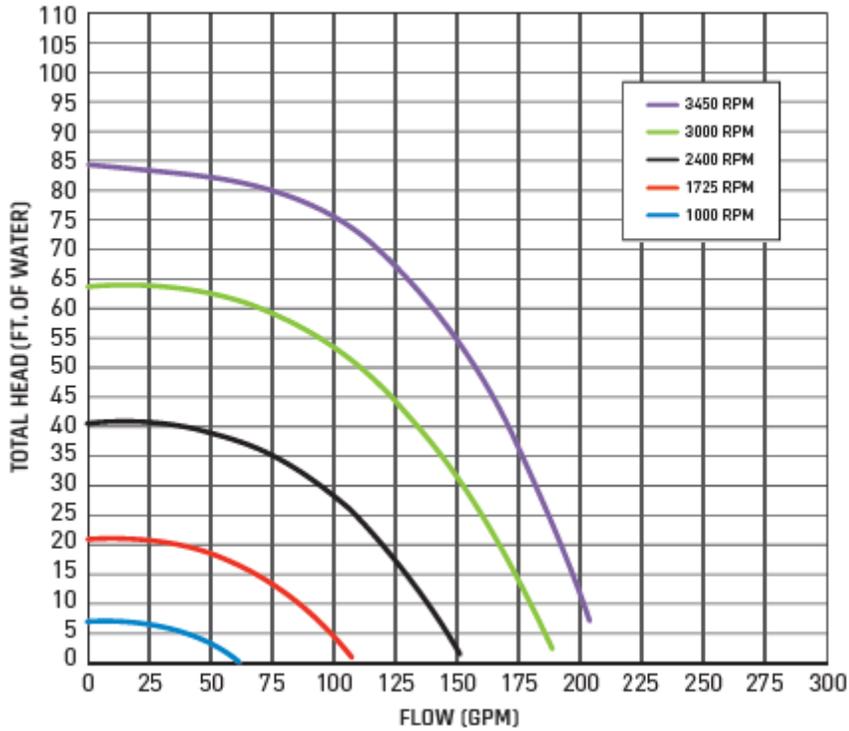


Part Number	HP	PUMP OUTPUT (GPM) VS. TOTAL RESISTANCE TO FLOW (PER FT OF HEAD)					
		40	50	60	70	80	90
		Flow Rate (GPM)					
HCP30201 / HCP30203	2.0	165	150	135	115	80	—
HCP30301 / HCP30303	3.0	200	185	160	140	100	—
HCP30501 / HCP30503	5.0	230	215	195	165	140	11
HCP30703	7.0	335	310	280	260	225	18

HCP 3000 SERIES PERFORMANCE DATA 60HZ (SINGLE- AND 3-PHASE MODELS)



HCP3020VSP PERFORMANCE DATA

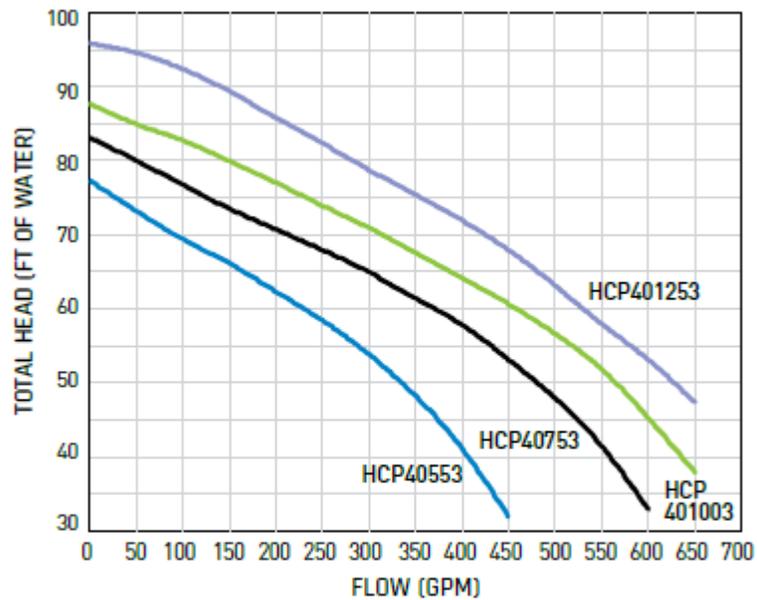


Hayward HCP 4000 Series



Pump Model	HP
HCP40553 (HCP55)	5.5
HCP40753 (HCP75)	7.5
HCP401003 (HCP100)	10
HCP401253 (HCP125)	12.5

HCP SERIES PERFORMANCE DATA



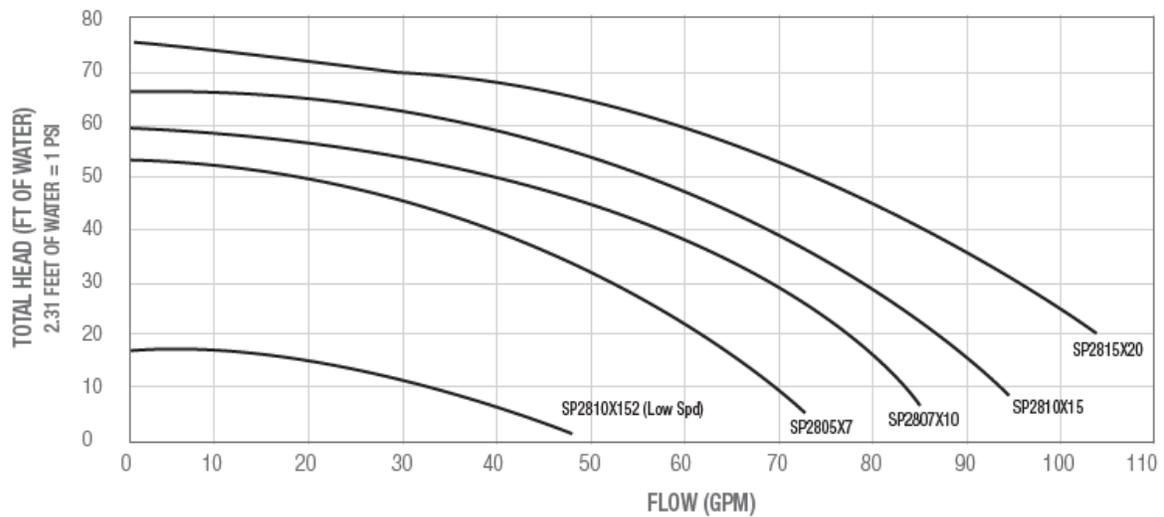
All motors: Certified to UL 1004, IP 55 protection, insulation class F. 60 hz., 3.550 RPM

Hayward Max-Flo



SPECIFICATIONS								
MODEL NUMBER	TOTAL H.P.	RATED H.P.	SERVICE FACTOR	VOLTAGE	PIPE SIZE	DIM "A"	CTN. QTY	CTN. WEIGHT
Standard Efficiency Max Rated Single-Speed								
SP2805X7	0.75	¾	1.0	115/230	1-½"	14"	1	30 lbs.
SP2807X10	1.1	1	1.0	115/230	1-½"	14-¾"	1	33 lbs.
SP2810X15	1.5	1-½"	1.0	115/230	1-½"	15-½"	1	38 lbs.
SP2815X20	2.0	2	1.0	115/230	1-½"	16"	1	44 lbs.
Standard Efficiency Max Rated Dual-Speed								
SP2810X152	1.5	1-½"	1.0	230	1-½"	13-¾"	1	41 lbs.

MAXFLO PERFORMANCE DATA

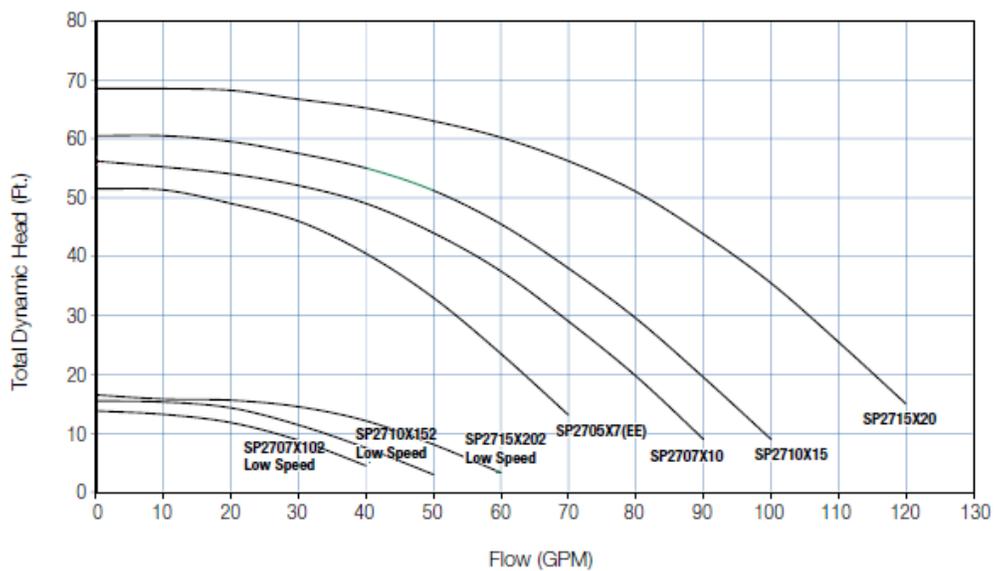


Hayward MaxFlo II



MODEL NUMBER	TOTAL H.P.	MAX-RATED H.P.	SERVICE FACTOR	VOLTAGE	PIPE SIZE	DIMENSION "A"	CTN. QTY	CTN WEIGHT
ENERGY EFFICIENCY MAX RATED SINGLE-SPEED								
SP2705X7EE	0.95	3/4	1.27	115/208-230	2"	13-3/4"	1	34 lbs
STANDARD EFFICIENCY MAX RATED SINGLE-SPEED								
SP2705X7	0.95	3/4	1.27	115/208-230	2"	13-3/4"	1	34 lbs
SP2707X10	1.25	1	1.25	115/208-230	2"	14-1/4"	1	37 lbs
SP2710X15	1.65	1-1/2	1.1	115/208-230	2"	15-1/2"	1	42 lbs
SP2715X20	2.10	2.0	1.05	115/208-230	2"	15-1/2"	1	45 lbs
STANDARD EFFICIENCY MAX RATED DUAL-SPEED								
SP2707X102	1.25	1	1.25	230	2"	15"	1	41 lbs
SP2710X152	1.65	1-1/2	1.1	230	2"	15-1/2"	1	43 lbs
	2.10	2.0	1.05	230	2"	16"	1	46 lbs

Performance Curves – Max-Flo II (Improved) Pump



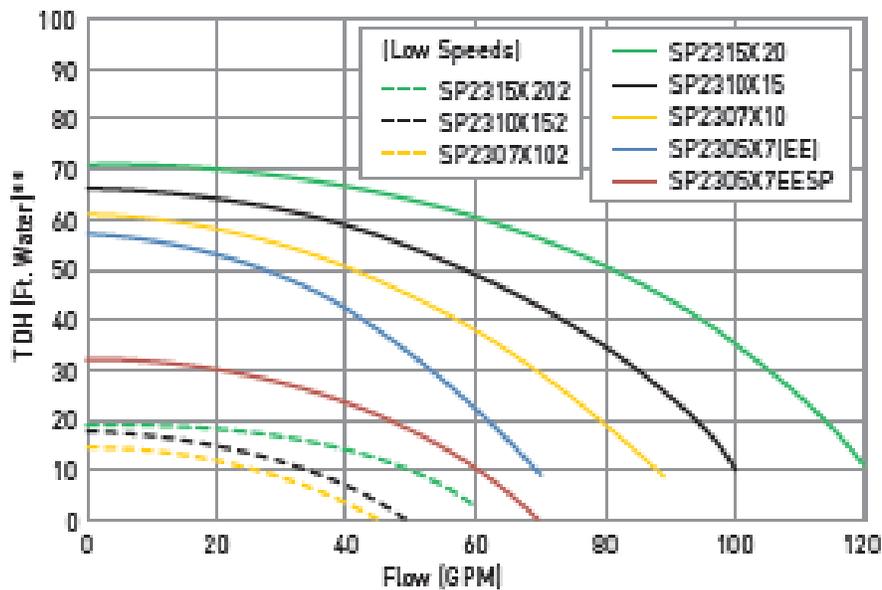
Hayward MaxFlo XL



SPECIFICATIONS

MODEL NUMBER	TOTAL H.P.	RATED H.P.	SERVICE FACTOR	VOLTAGE	UNION CONNECTIONS	DIM. "A"	CTN. QTY.	CTN. WEIGHT
Energy Efficient Max Rated Single-Speed								
SP2305X7EESP*	0.95	¾	1.27	115/208-230	1W"x 2"	13W"	1	34 lbs.
SP2305X7EE	0.95	¾	1.27	115/208-230	1W"x 2"	13W"	1	34 lbs.
Standard Efficient Max Rated Single-Speed								
SP2305X7	0.95	¾	1.27	115/208-230	1W"x 2"	13W"	1	34 lbs.
SP2307X10	1.25	1	1.25	115/208-230	1W"x 2"	14W"	1	37 lbs.
SP2310X15	1.65	1½	1.1	115/208-230	1W"x 2"	15W"	1	42 lbs.
SP2315X20	2.10	2	1.05	115/208-230	1W"x 2"	15W"	1	45 lbs.
Energy Efficient Max Rated Dual-Speed								
SP2307X102*	1.25	1	1.25	230	1W"x 2"	15"	1	41 lbs.
SP2310X152*	1.65	1½	1.1	230	1W"x 2"	15W"	1	43 lbs.
SP2315X202*	2.10	2	1.05	230	1W"x 2"	16"	1	46 lbs.

MAXFLO XL MEDIUM HEAD PUMPS

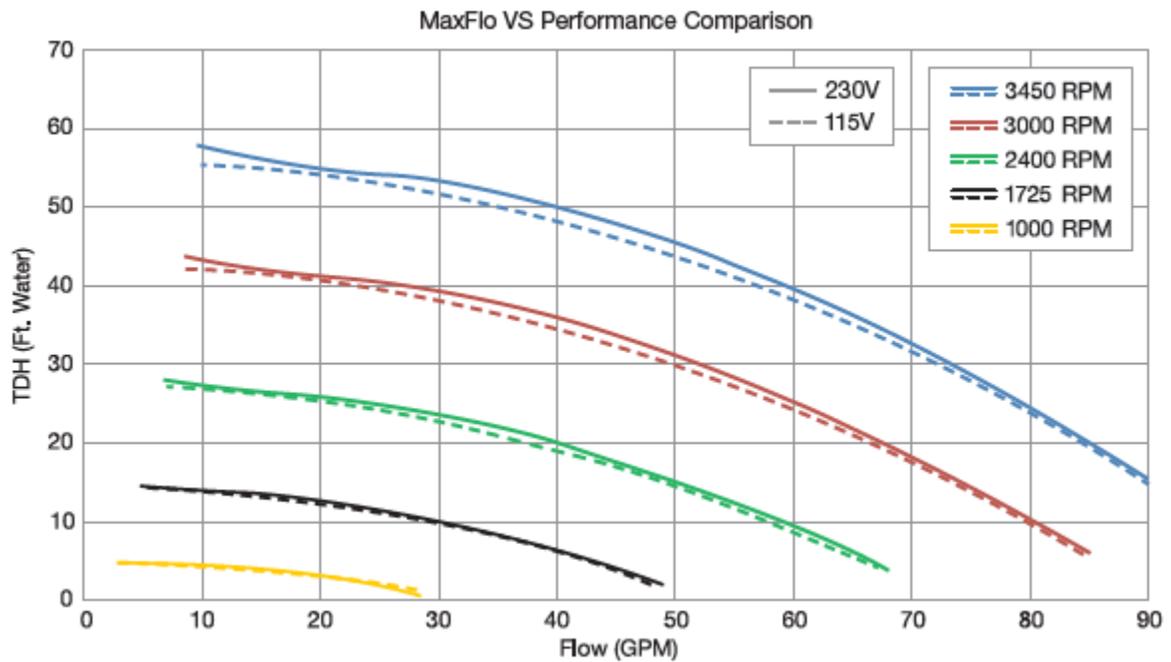


Hayward MaxFlo VS



SPECIFICATIONS

MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD® AUTOMATION	TOTAL HP	VOLTAGE
SP2303V5P	•	•	•	1.65	230V Single Phase
SP23115V5P*	•	•	•	0.85	115V Single Phase



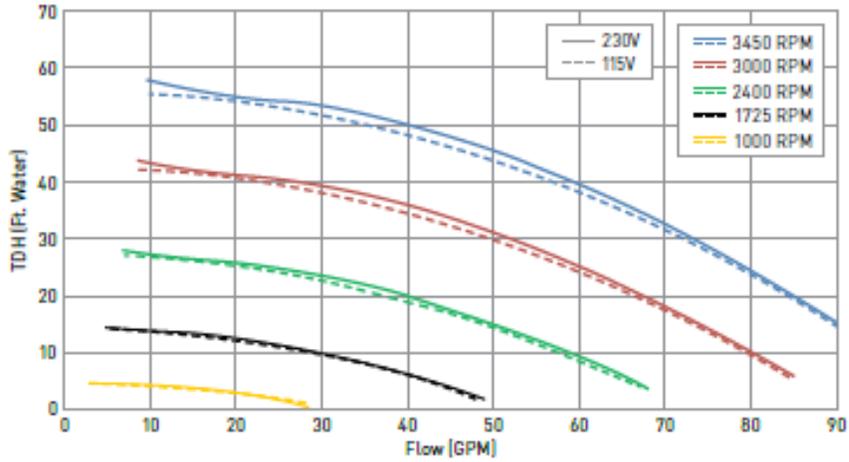
Hayward MaxFlo VS 500



SPECIFICATIONS

MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD® AUTOMATION	TOTAL HP	VOLTAGE
SP23520VSP	•	•	•	1.65	230V Single Phase
SP23510VSP*	•	•		0.85	115V Single Phase

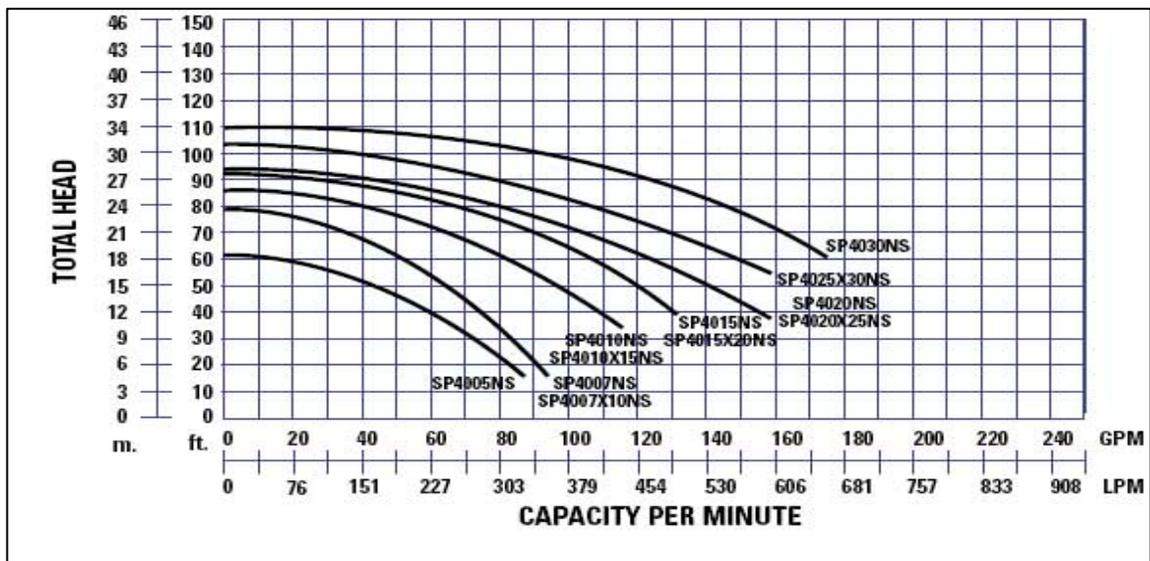
MAXFLO VS 500 PERFORMANCE COMPARISON



Hayward Northstar

Hayward	Northstar SP4025X30NS – 3 hp SP4030NS – 3 hp	
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Pump Model	HP
SP4005NS	½
SP4007NS	¾
SP4007x10NS	1
SP4010NS	1
SP4010x15NS	1 ½
SP4015NS	1 ½
SP4015x20NS	2
SP4020NS	2
SP4020x25NS	2 ½
SP4025x30NS	3
SP4030NS	3



Hayward RS Series



Pump Model	Pump Output (GPM) vs. Total Resistance to Flow (Feet of Head)								
	5 ft (low sp)	10 ft (low sp)	15 ft (low sp)	40 ft	50 ft	60 ft	70 ft	80 ft	90 ft
RS750	-	-	-	78	67	56	38	-	-
RS1000 / RS1502	47	45	32	96	87	73	60	36	-
RS1500 / RS2002	65	57	42	118	107	94	79	60	18
RS2000 / RS2502	71	61	48	138	125	112	96	75	43
RS2500	-	-	-	161	150	137	123	106	84
RS3000	-	-	-	161	150	137	123	106	84

Hayward Super Pump



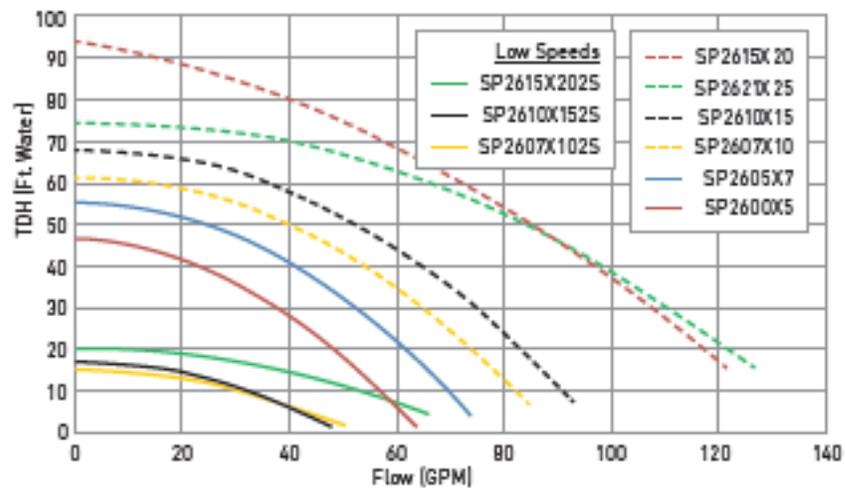
SPECIFICATIONS

MODEL NUMBER	HORSEPOWER			PIPE SIZE	DIMENSION "A"
	TOTAL HP	HP	SERVICE FACTOR		
Standard Efficient Max-Rated Single Speed					
SP2600X5	0.60	½	1.20	1½ In	13 ¼ In / 337 mm
SP2605X7	0.75	¾	1.00	1½ In	13 ⅞ In / 352 mm
SP2607X10	1.10	1	1.10	1½ In	14 ¼ In / 362 mm
SP2610X15	1.50	1½	1.00	1½ In	15 ⅞ In / 391 mm
SP2615X20	2.00	2	1.00	2 In	15 ⅞ In / 403 mm
SP2621X25	2.50	2½	1.00	2 In	16 ⅞ In / 416 mm

Standard Efficient Max-Rated Dual Speed

SP2607X102S	1.00	1	1.00	2 In	13 In / 330 mm
SP2610X152S	1.50	1½	1.00	2 In	13 ¾ In / 349 mm
SP2615X202S	2.00	2	1.00	2 In	14 ¼ In / 362 mm

SUPER PUMP FLOW VS. TOTAL HEAD



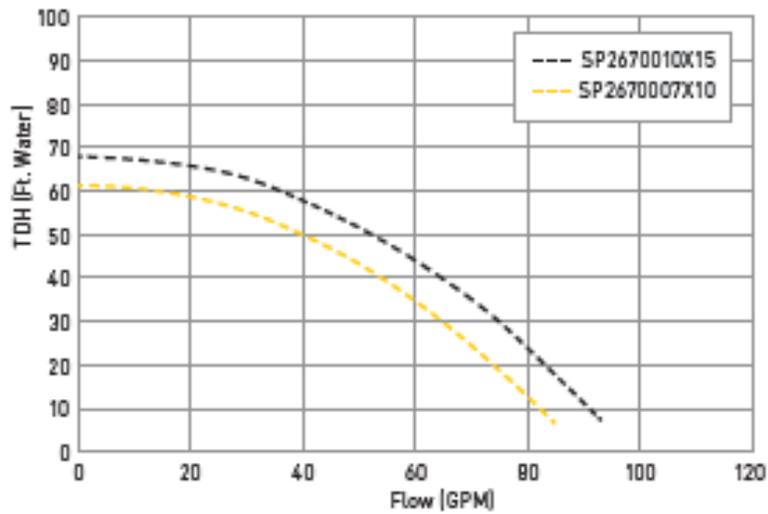
Hayward Super Pump 700



SPECIFICATIONS

MODEL NUMBER	HORSEPOWER			PORT SIZE	DIMENSION "A"	WARRANTY
	TOTAL HP	RATED HP	SERVICE FACTOR			
Standard Efficient Max-Rated Single Speed						
SP2670007X10	1.10	1	1.10	1½ In	14¼ In	2 years
SP2670010X15	1.50	1½	1.00	1½ In	15½ In	2 years

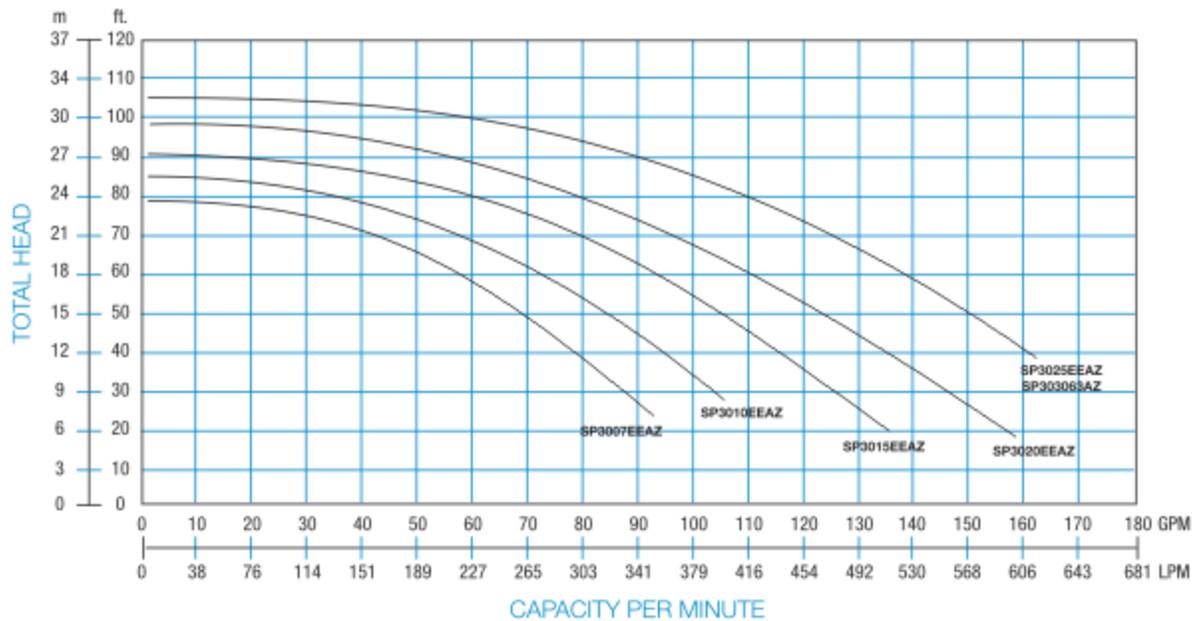
SUPER PUMP 700 FLOW VS. TOTAL HEAD



Hayward Super Pump II – Full Rated



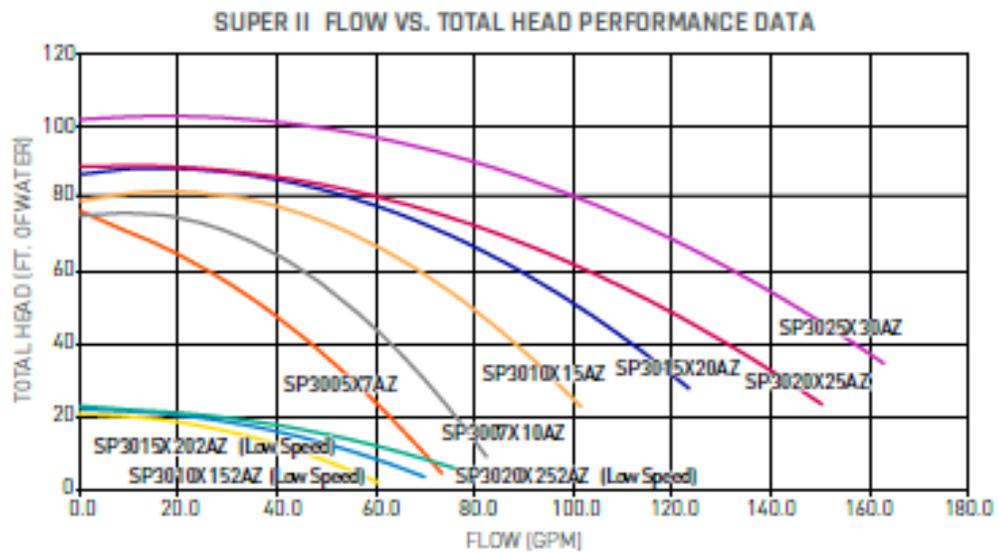
MODEL	Total HP	Full Rate HP	Service Factor	Voltage	Pipe Size	DIM "A"
SP3007EECA	1.13	$\frac{3}{4}$	1.50	115/230	2"	15 $\frac{1}{4}$ "
SP3010EEAZ	1.50	1	1.50	115/230	2"	15 $\frac{1}{4}$ "
SP3015EEAZ	2.00	1 $\frac{1}{2}$	1.33	115/230	2"	16 $\frac{1}{8}$ "
SP3020EEAZ	2.50	2	1.25	230	2"	16 $\frac{3}{8}$ "
SP3025EEAZ	3.45	3	1.15	230	2"	17 $\frac{3}{4}$ "
SP303063AZ*	3.45	3	1.15	230/460	2"	14 $\frac{1}{2}$ "



Hayward Super Pump II – Max Rated



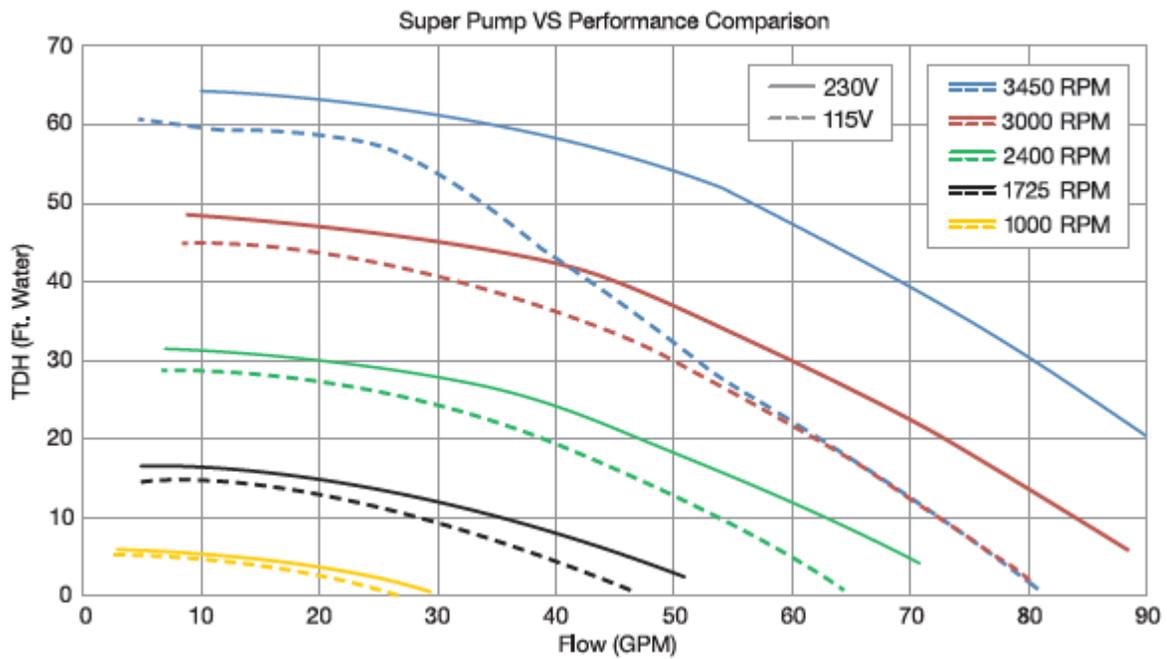
SPECIFICATIONS								
MODEL	MOTOR POWER					PORT SIZE Inches	DIMENSION "A"	
	Total HP	Rated HP	Service Factor	KW	Voltage		Inches	mm
MAX RATED SINGLE-SPEED								
SP3005X7AZ	0.75	¾	1.00	0.56	115/230	1 ½	14 ½	359
SP3007X10AZ	1.10	1	1.10	0.82	115/230	1 ½	14 ½	368
SP3007X10AZ2	1.10	1	1.10	0.82	115/230	2	14 ½	368
SP3010X15AZ	1.50	1 ½	1.00	1.12	115/230	2	15 ¾	397
SP3015X20AZ	2.00	2	1.00	1.49	115/230	2	16 ¾	422
SP3020X25AZ	2.50	2 ½	1.00	1.87	230	2	16 ¾	422
SP3025X30AZ	3.45	3	1.15	2.57	230	2	17 ¾	451
MAX RATED DUAL-SPEED								
SP3010X152AZ	1.50	1 ½	1.00	1.12	230	2	14	356
SP3015X202AZ	2.00	2	1.00	1.49	230	2	14 ½	368
SP3020X252AZ	2.50	2 ½	1.00	1.87	230	2	17 ½	445



Hayward Super Pump VS



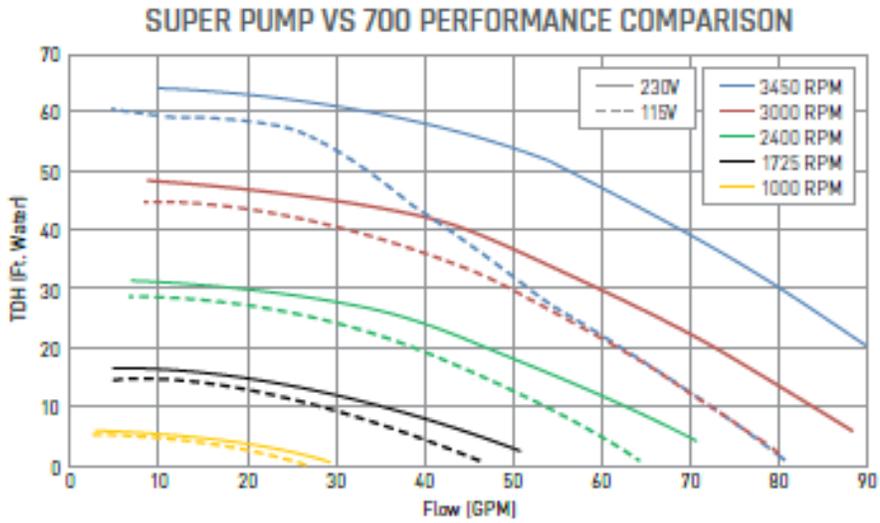
Pump Model	HP
SP2603VSP	1.65 (230V Single Phase)
SP26115VSP	0.85 (115V Single Phase)



Hayward Super Pump VS 700



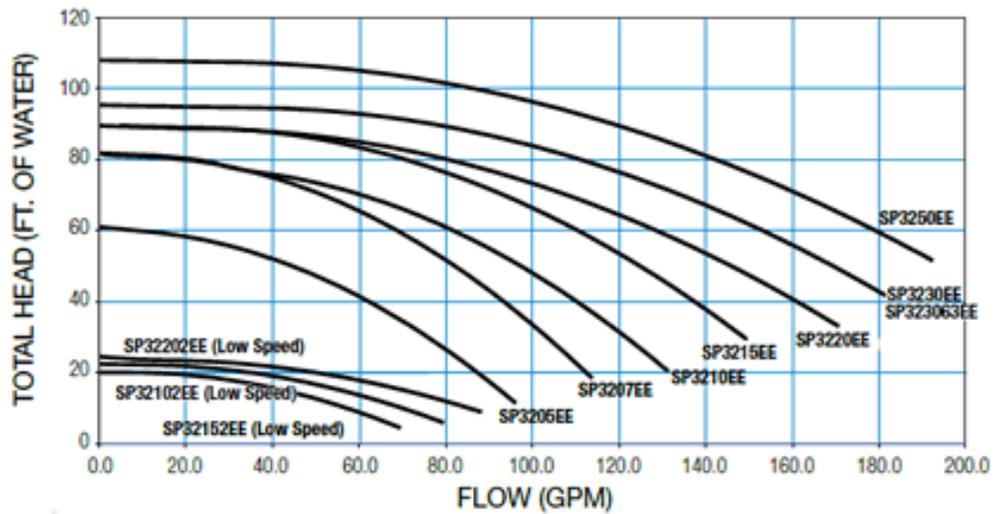
SPECIFICATIONS						
MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD [®] AUTOMATION	TOTAL HP	VOLTAGE	WARRANTY
SP2670020VSP	•	•	•	1.65	230V Single Phase	3 years
SP2670010VSP	•	•		0.85	115V Single Phase	3 years



Hayward Tristar Full Rate



SINGLE SPEED MODELS	TOTAL HP	FULL RATE HP	SERVICE FACTOR	VOLTS	PORT SIZE	DIMENSION "A"
SP3205EE	0.99	½	1.98	115/208-230	2" / 2½"	13¾"
SP3207EE	1.39	¾	1.85	115/208-230	2" / 2½"	13¾"
SP3210EE	1.85	1	1.85	115/208-230	2" / 2½"	14¾"
SP3215EE	2.40	1½	1.60	115/208-230	2" / 2½"	14¾"
SP3220EE	2.70	2	1.35	208-230	2" / 2½"	14¾"
SP3230EE	3.60	3	1.20	208-230	2" / 2½"	17 ¼"
SP3250EE	5.0	5	1.00	208-230	2" / 2½"	17 ¼"
2 – SPEED MODELS	TOTAL HP	FULL RATE HP	SERVICE FACTOR	VOLTS	PORT SIZE	DIMENSION "A"
SP32102EE	1.85	1	1.85	208-230	2" / 2½"	14¾"
SP32152EE	2.40	1½	1.60	208-230	2" / 2½"	14¾"
SP32202EE	2.70	2	1.35	208-230	2" / 2½"	14¾"

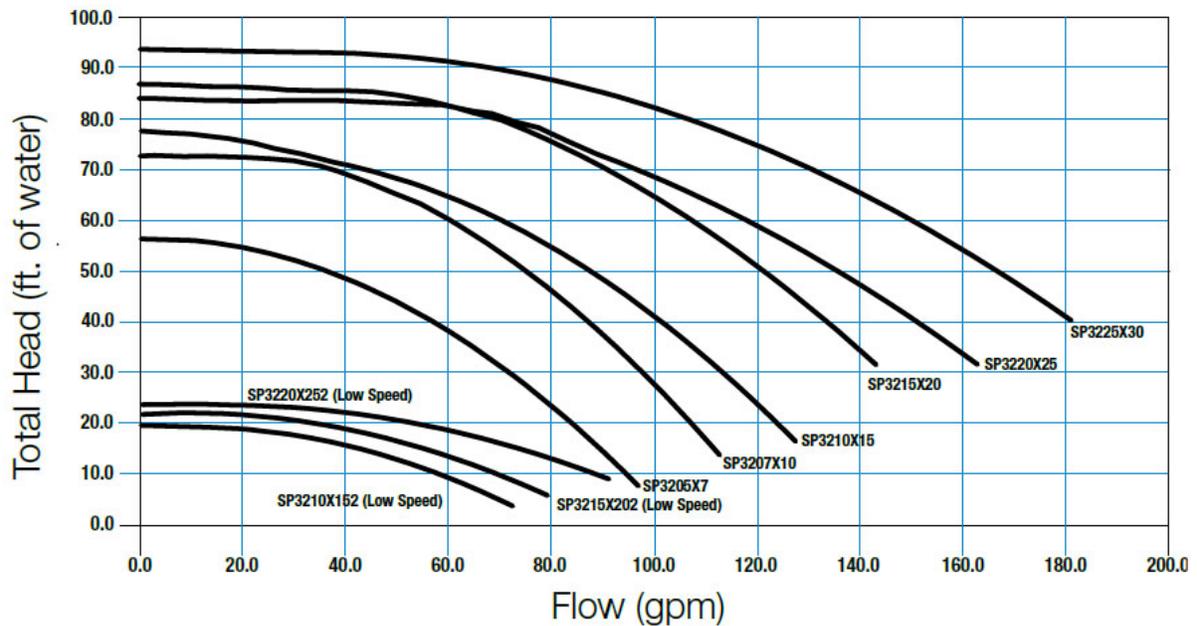


Hayward Tristar Max Rate



MAX RATE MODELS	TOTAL HP	MAX RATE HP	SERVICE FACTOR	VOLTAGE	PIPE SIZE	DIMENSION "A"
SP3205X7	0.94	0.75	1.25	115/230	2 x 2 1/2"	13 3/8"
SP3207X10	1.25	1	1.25	115/230	2 x 2 1/2"	13 7/8"
SP3210X15	1.65	1.5	1.10	115/230	2 x 2 1/2"	13 7/8"
SP3215X20	2.20	2	1.10	115/230	2 x 2 1/2"	15 1/8"
SP3220X25	2.60	2.5	1.04	230	2 x 2 1/2"	14 7/8"
SP3225X30	3.45	3	1.15	230	2 x 2 1/2"	15 5/8"
DUAL-SPEED MAX RATE MODELS	TOTAL HP	MAX RATE HP	SERVICE FACTOR	VOLTAGE	PIPE SIZE	DIMENSION "A"
SP3210X152	1.85	1.5	1.73	230	2 x 2 1/2"	14 5/8"
SP3215X202	2.40	2	1.20	230	2 x 2 1/2"	14 7/8"
SP3220X252	2.70	2.5	1.08	230	2 x 2 1/2"	14 7/8"

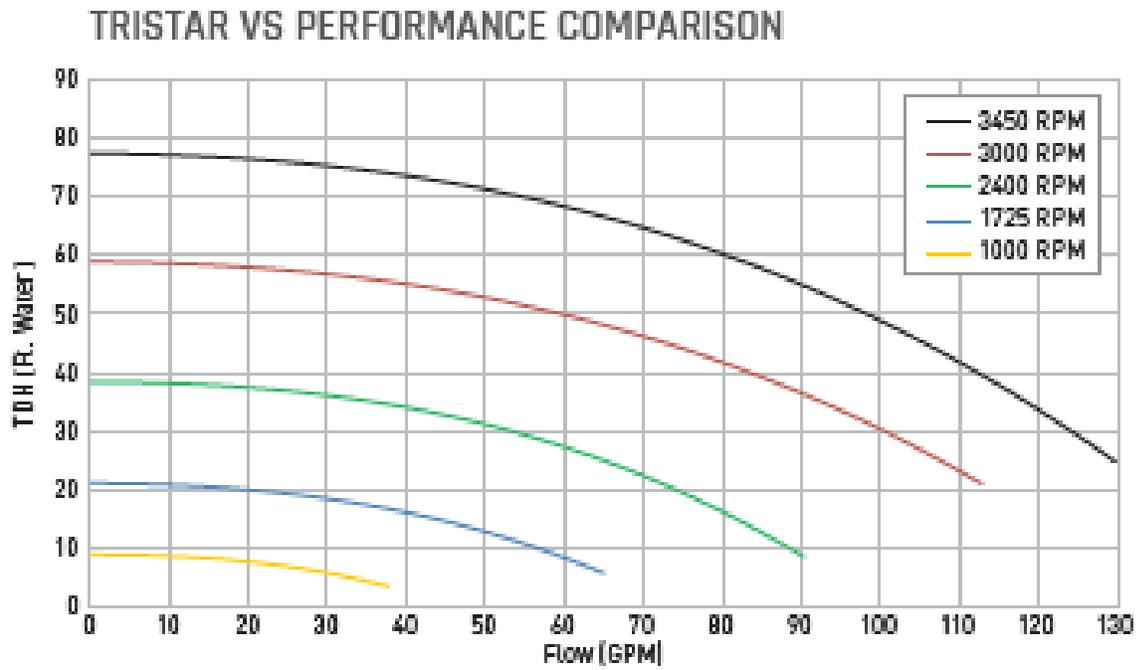
TriStar Standard Efficient Flow vs. Total Head



Hayward TriStar VS 900



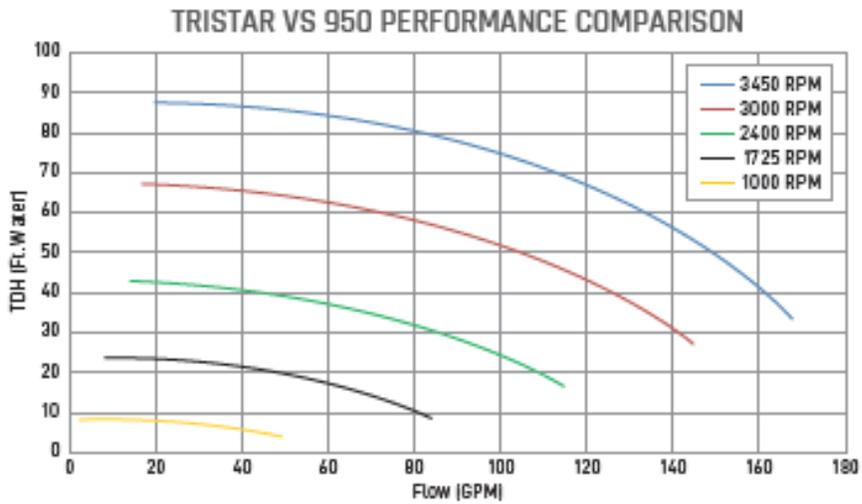
Pump Model	HP
SP3202VSP	1.85
SP3202VSPND	1.85



Hayward TriStar VS 950



SPECIFICATIONS								
MODEL NUMBER	STAND ALONE	RELAY CONTROL	HAYWARD® AUTOMATION	TOTAL HP	VOLTS	SPEED RANGE	UNION CONNECTIONS	WARRANTY
SP32950VSP	•	•	•	2.70	230V	600-3450 RPM	2" x 2.5"	4 years



Jandy ePump



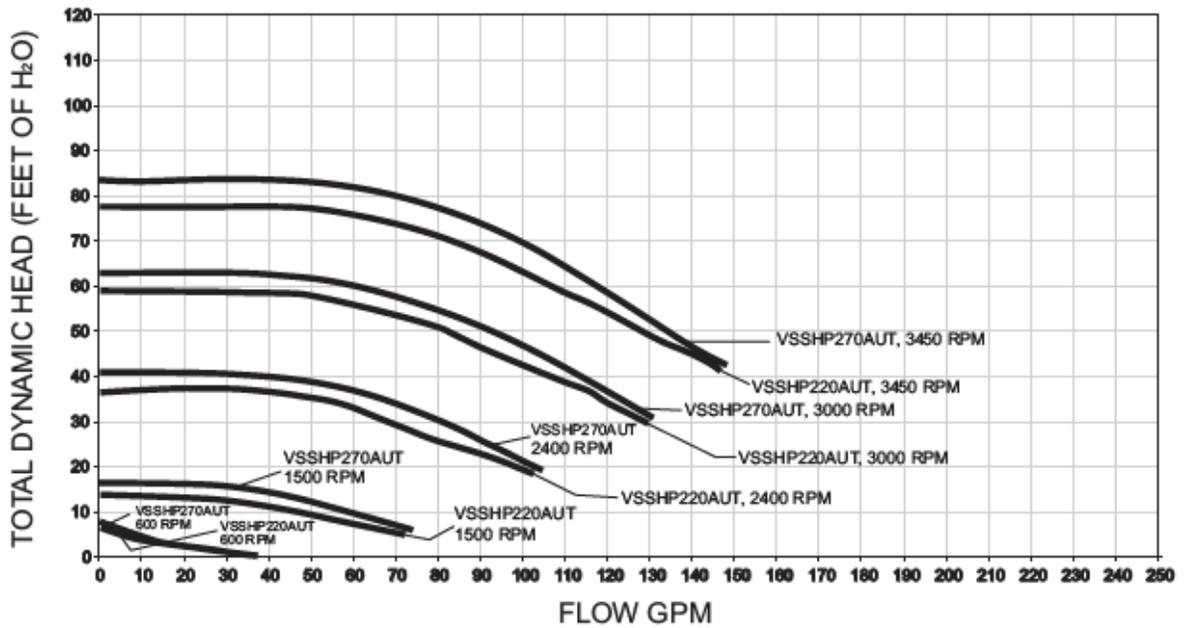
SPECIFICATIONS

Standard ePump part numbers and specs

Model No.	Horse-power	Voltage	Watts	Recommended Pipe Size	Carton Weight	Overall Length 'A'
VSSH220AUT	0.25-2.2	208-230VAC	2,100 W	2½-3"	71.5 lbs	33½"
VSSH270AUT	0.25-2.7	208-230VAC	2,300 W	2½-3"	71.5 lbs	33½"
JEP2.0SVRS	0.25-2.7	208-230VAC	2,300 W	2½-3"	71.5 lbs	33½"

PERFORMANCE

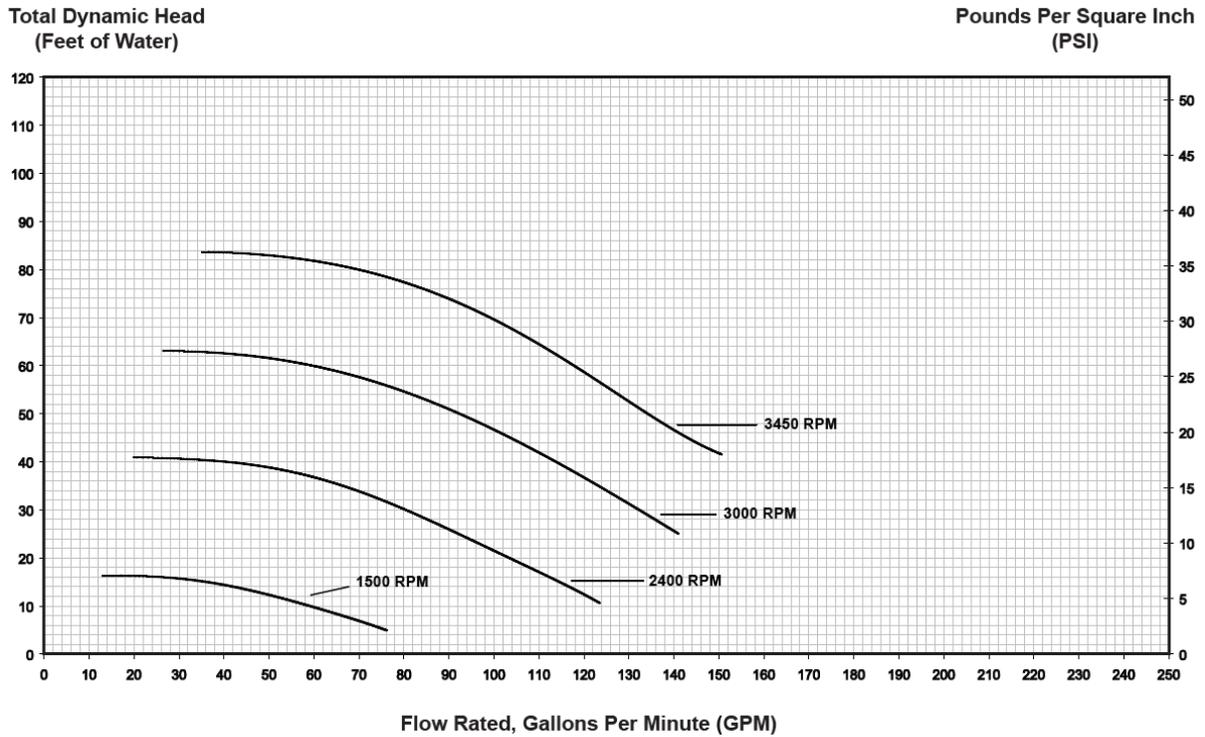
ePUMP PERFORMANCE CURVES



Jandy ePump + SVRS



Model No.	Horse Power	Voltage	Watts	Recommended Pipe Size	Carton weight	Overall Length 'A'
JEP2.0SVRS	0.25-2.7	208-230VAC	2,300W	2½-3"	71.5 lbs	33½"

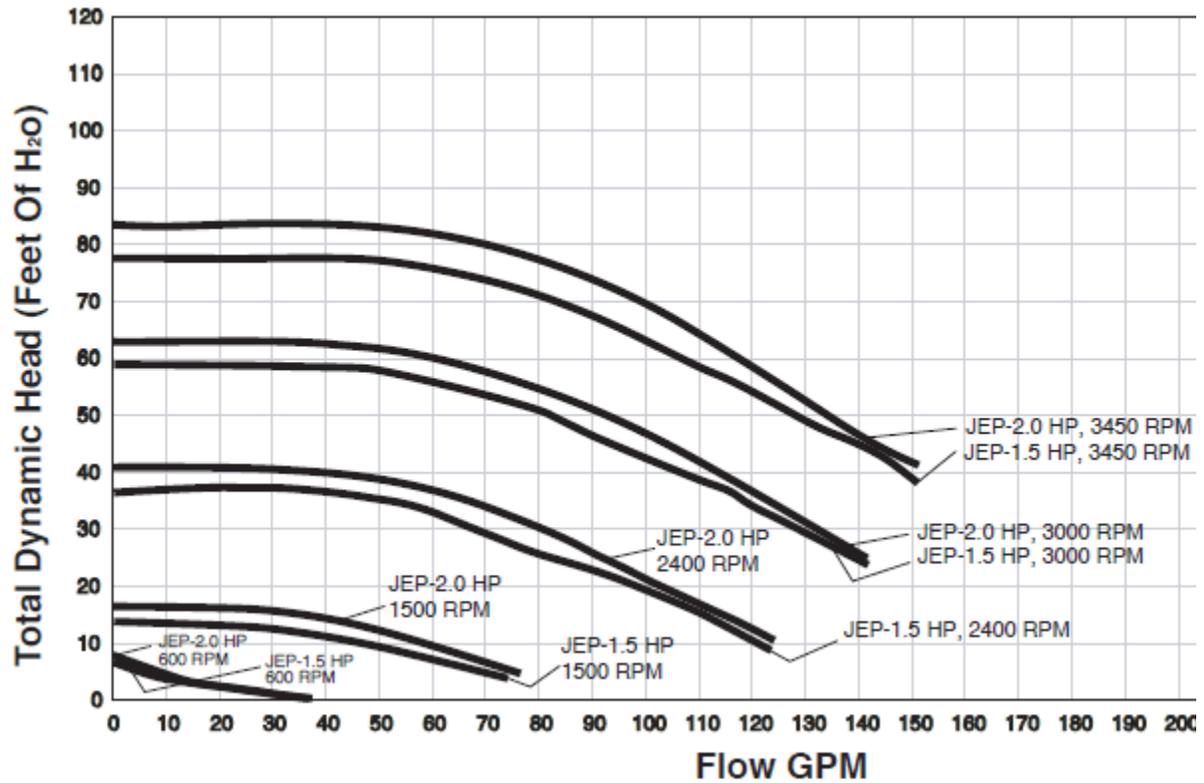


Jandy E Pump Variable-Speed



Model No.	Horse-power	Voltage	Watts	Recommended Pipe Size	Carton Weight	Overall Length 'A'
VSSH220AUT	0.25-2.2	208-230VAC	2,100W	2 1/2"-3"	71.5 lbs	33 1/2"
VSSH270AUT	0.25-2.7	208-230VAC	2,300W	2 1/2"-3"	71.5 lbs	33 1/2"
JEP2.0SVRS	0.25-2.7	208-230VAC	2,300W	2 1/2"-3"	71.5 lbs	33 1/2"

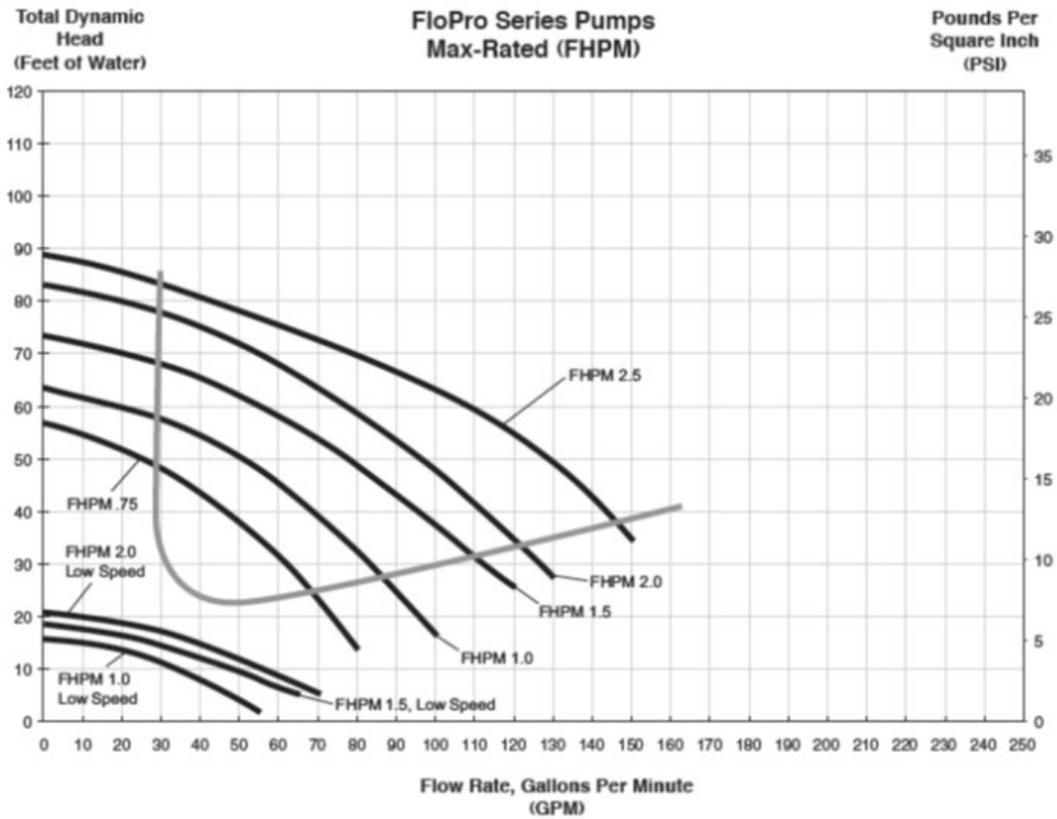
JEP Performance Curves



Jandy FloPro



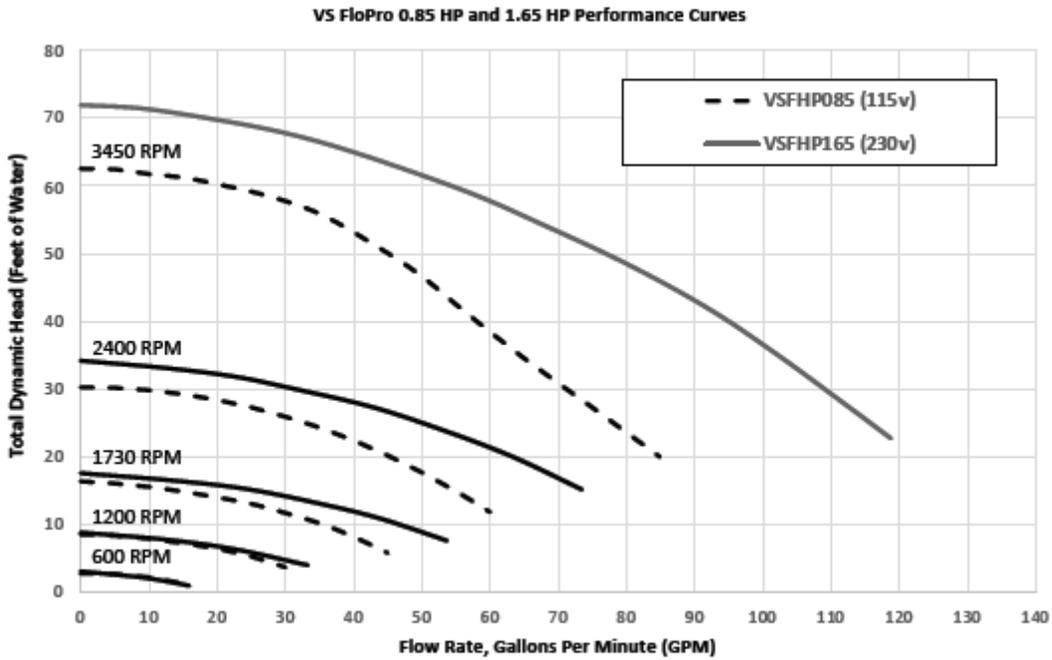
Pump Model	HP
FHPM .75	¾
FHPM 1.0	1
FHPM 1.5	1 ½
FHPM 2.0	2
FHPM 2.5	2 ½



Jandy FloPro VS 1.65 HP



Model No.	Total Horse-power	Voltage	Max Watts	Recommended Pipe Size"	Carton Weight	Overall Length
VSFHP165JEP	1.65	230VAC	1,600 W	1½–2½"	46 lbs	25 ½"
VSFHP165AUT ¹	1.65	230VAC	1,600 W	1½–2½"	46 lbs	25 ½"

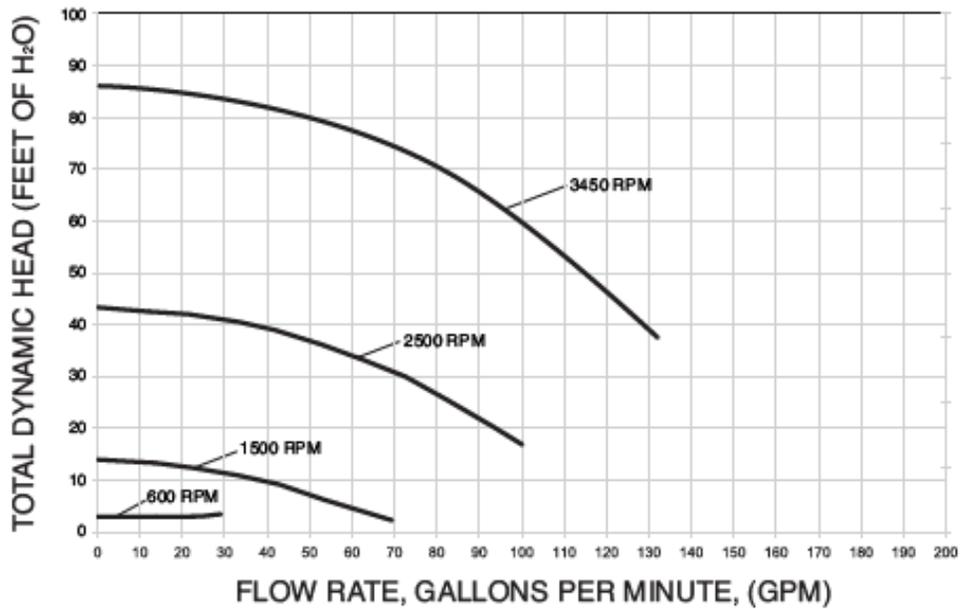


Jandy FloPro VS 2.7 HP



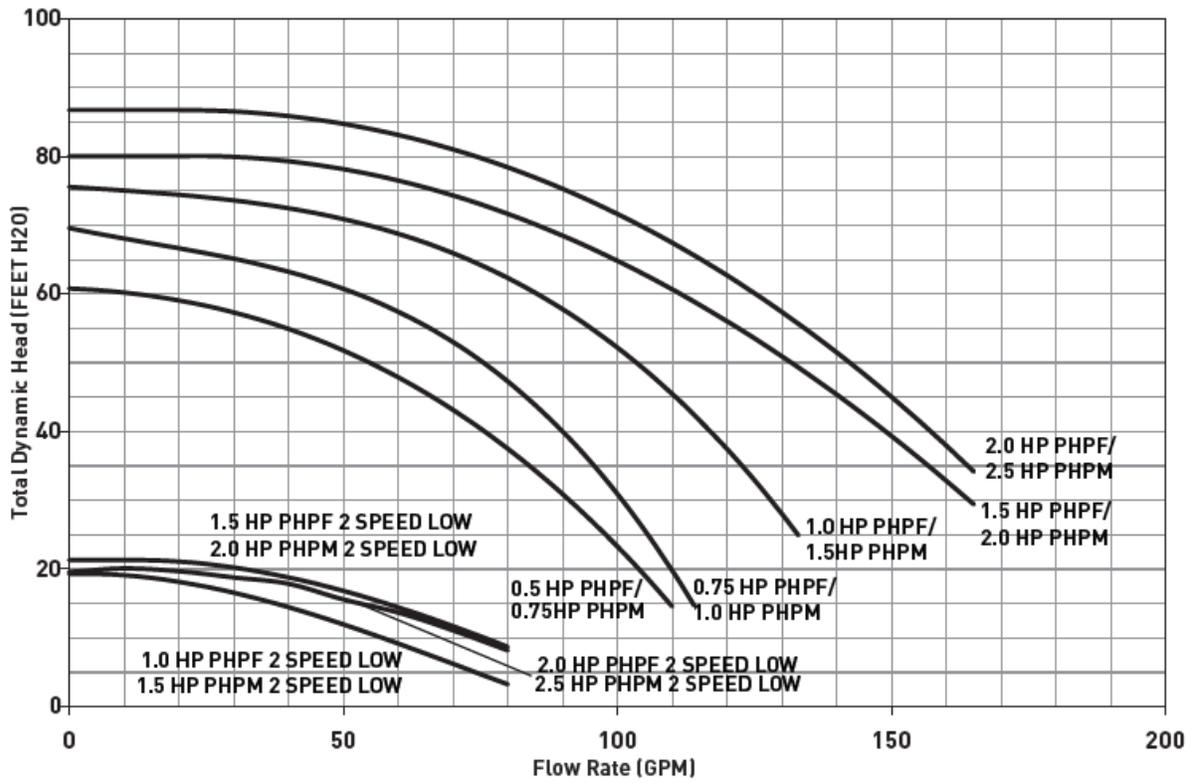
Model No.	Total Horse-power	Voltage	Max Watts	Recommended Pipe Size†	Carton Weight	Overall Length
VSFHP270JEP	2.7	208-230 VAC	2,400W	2½-3"	56.0 lbs	27½"
VSFHP270AUT*	2.70	208-230 VAC	2,400W	2½-3"	56.0 lbs	27½"

VSFHP270 PERFORMANCE CURVES



Jandy Plus HP

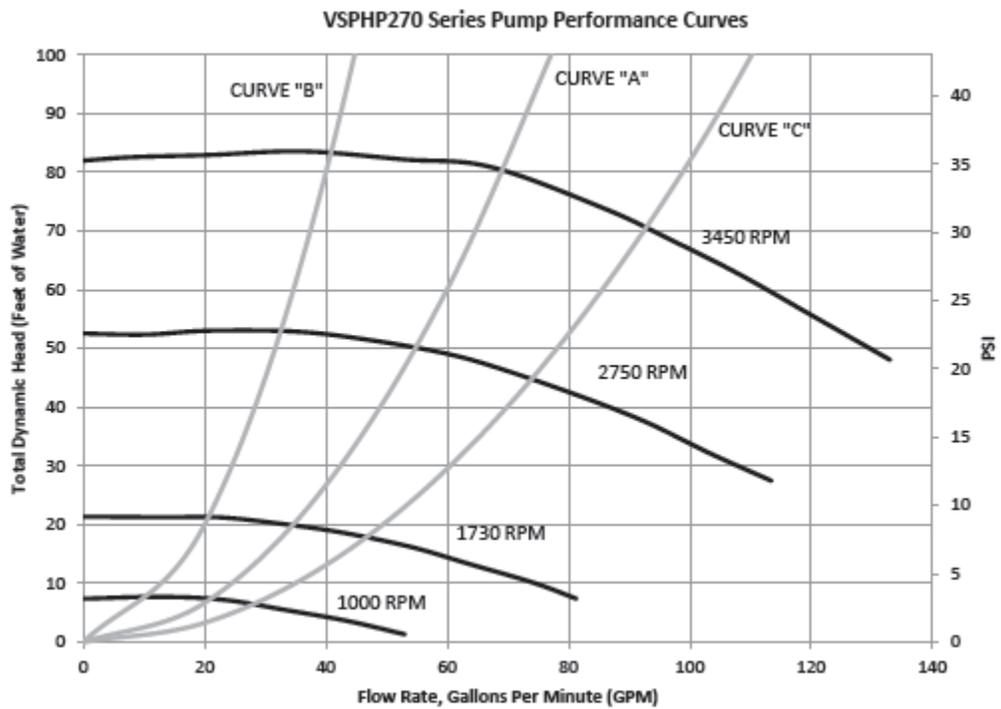
<p>Jandy</p>	<p>Plus HP</p> <p>PHPF or PHPM – hp varies</p>	
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Jandy Pro Series VS Plus HP

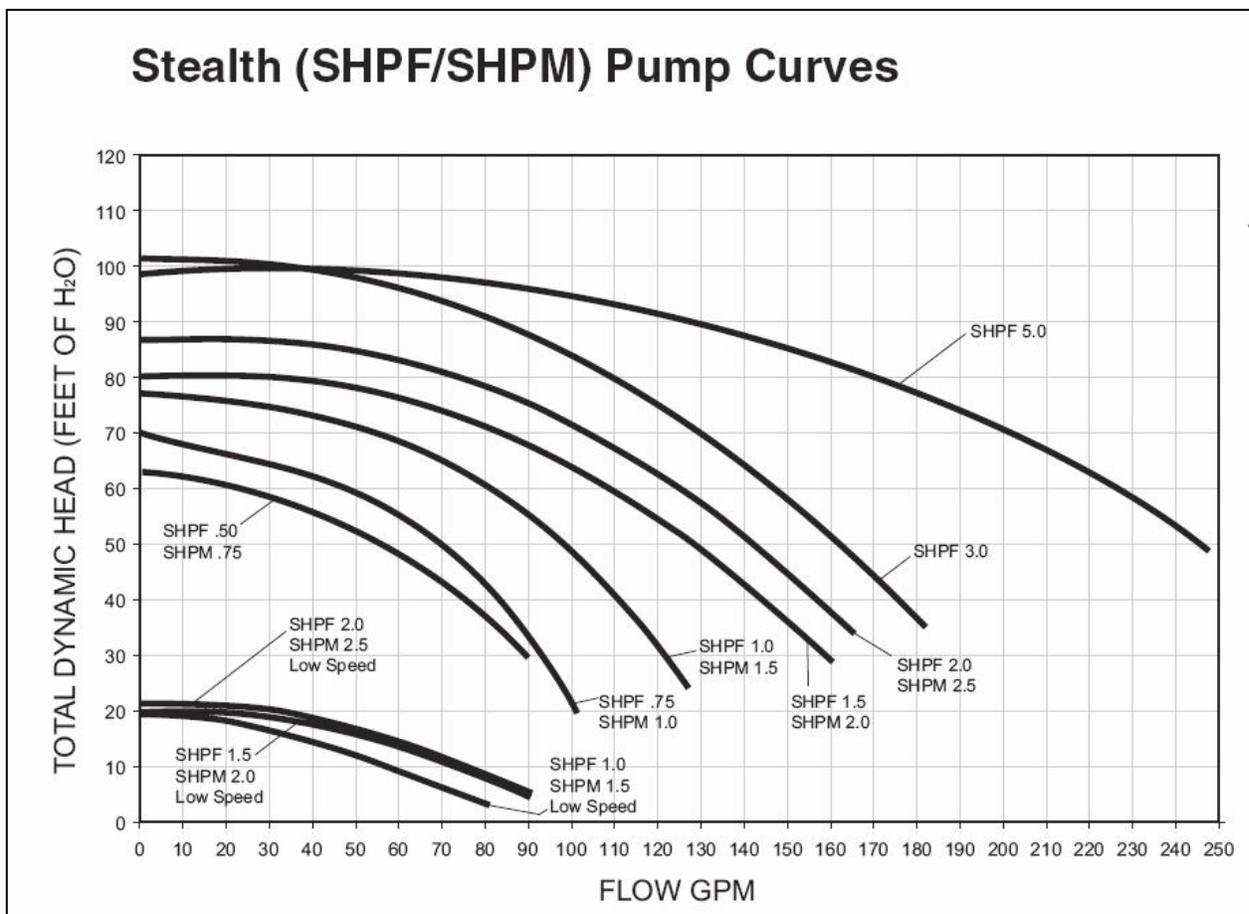


Model No.	HP	Voltage	Max Watts	Pipe Size	Carton Weight	Overall Length 'A'
VSPHP270	0.25 - 2.7	230 VAC	2,250W	2½ - 3"	50 lbs.	30 3/8"



Jandy Stealth

<p>Jandy</p>	<p>Stealth</p> <p>SHPF or SHPM – hp varies</p>	
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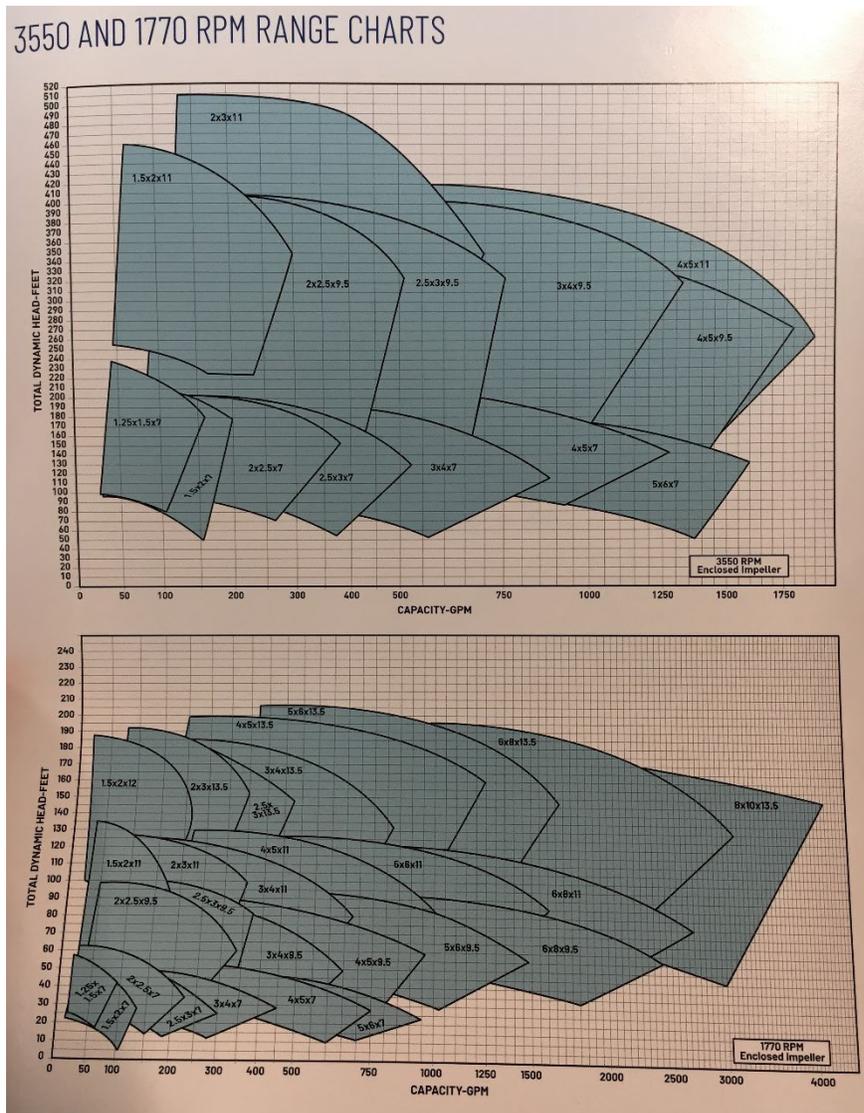
Pentair Aurora

Flow varies with impeller size

<p>Pentair</p>	<p>Aurora</p> <p>340 Series and 410 Series 341A, 342A, 344A</p>	 <p>342A</p> <p>344A</p>
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Pentair Aurora 3800 Series

Flow varies with impeller size



Pentair Berkeley B-Series

Flow varies with impeller size

Pentair	Berkeley B-Series <i>Centrifugal Commercial Pump</i>	
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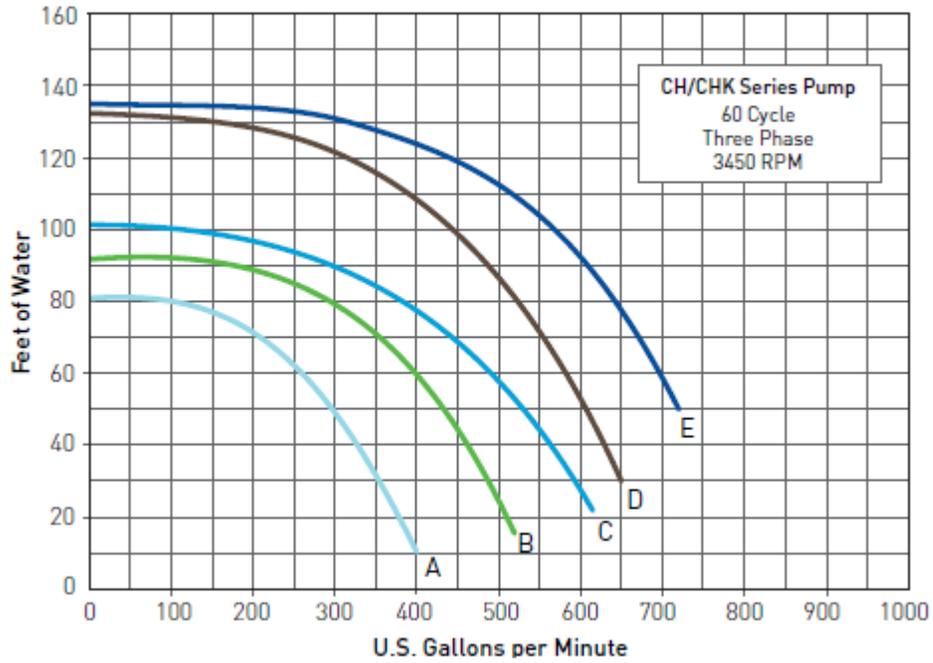
Pump Model	HP	Best Operating Flow GPM
B3ZPMS	5	350
B3ZPMS	7 ½	400
B3ZPMS	10	500
B3ZPMS	15	600
B5EPHS	20	950
B5EPHS	25	1050
B4GPBHS	30	1100
B6JPBMS	40	1500
B8GPBMS	50	2700

Pentair C Series Commercial Bronze

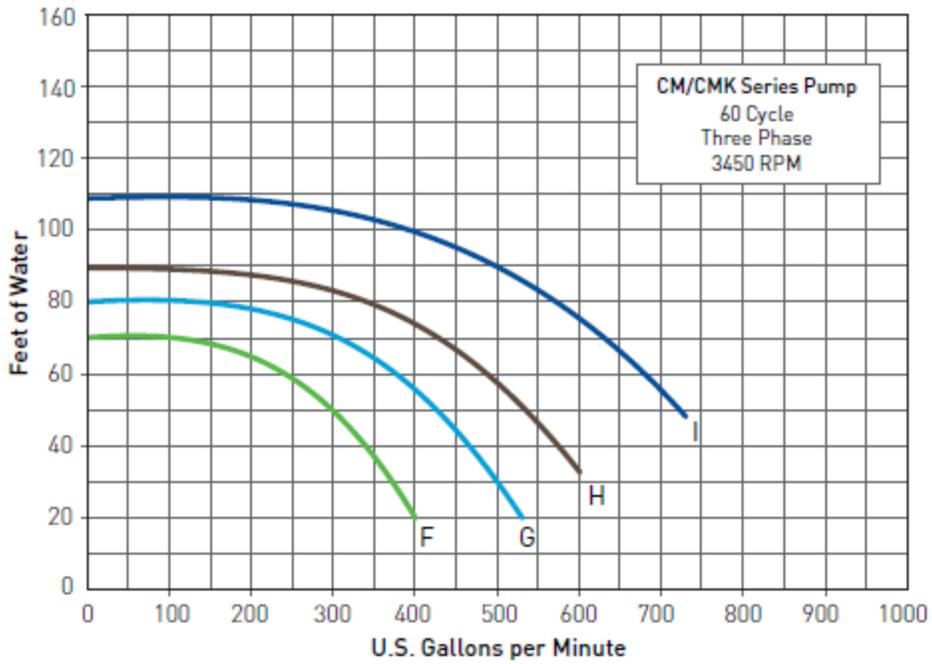


Pump	HP	Curve Key
CM-50 CMK-50	5	F
CH-50 CHK-50	5	A
CM-75 CMK-75	7.5	G
CH-75 CHK-75	7.5	B
CM-100 CMK-100	10	H
CH-100 CHK-100	10	C
CMK-150	15	I
CHK-150	15	D
CHK-200	20	E

CH/CHK SERIES PUMP - 60HZ



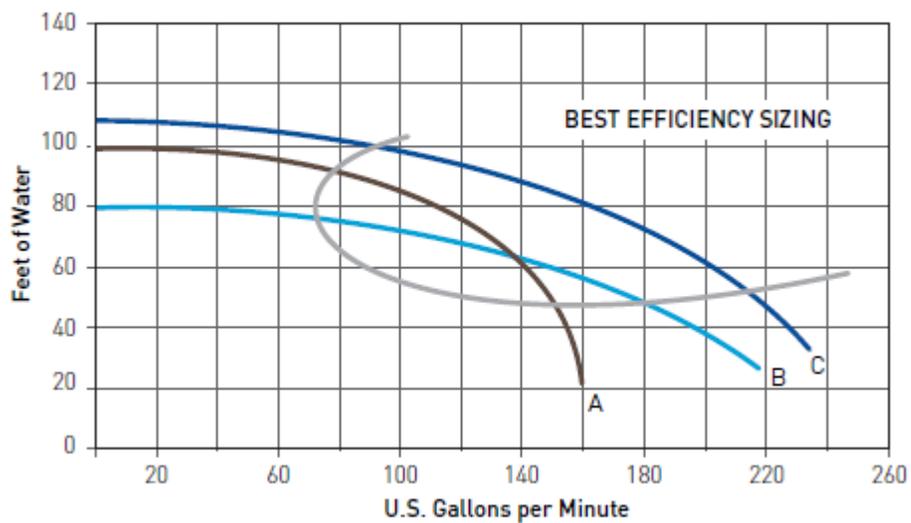
CM/CMK SERIES PUMP - 60HZ



Pentair C/CC Series



	Pump	HP	Curve Key
Bronze	CHH-137 CHH3-137	3	A
	CMH-136 CMH3-136	3	B
	CHJ-138 CHJ3-138	5	C
	Cast Iron	CCHH-137S CCHH3-137S	3
	CCMH-136S CCHH2-137S	3	B
	CCHJ-138 CCHJ3-138S	5	C

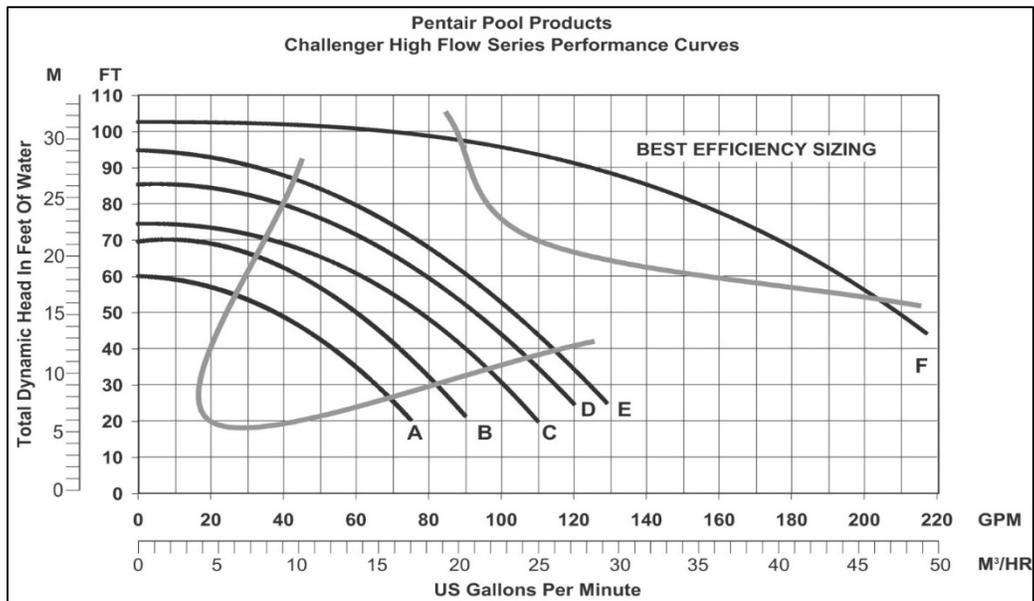


Pentair Challenger High Flow



Pentair Challenger High Flow

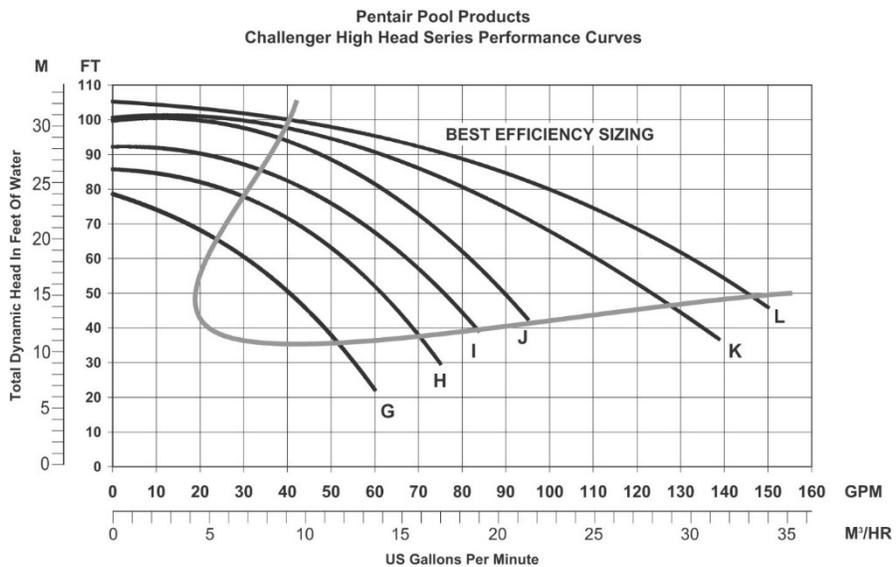
Pump	Product	HP	Curve Key
CFII-NI-1FE	342235	1	C
CFII-NI-1F	342234	1	
CFII-NI-1 ½A	343234	1 ½	
CFII-NI-1 ½FE	342236	1 ½	D
CFII-NI-1 ½F	342231	1 ½	
CFII-NI-2A	343240	2	
CFII-NI-2FE	342238	2	E
CFII-NI-2F	342248	2	
CFII-NI-2 ½A	343229	2 ½	
CFII-NI-½F	342232	½	A
CFII-NI-¾A	343232	¾	
CFII-NI-¾F	342233	¾	B
CFII-NI-1A	343233	1	
CFII-NI-5FE		5	F



Pentair Challenger High Pressure



Pump	Product	HP	Curve Key
CHII-NI-1/2FE	345212	1/2	G
CHII-NI-1/2F	345202	1/2	
CHII-NI-3/4A	346203	3/4	
CHII-NI-3/4FE	345213	3/4	H
CHII-NI-3/4F	345203	3/4	
CHII-NI-1A	346204	1	
CHII-NI-1FE	345205	1	I
CHII-NI-1F	345204	1	
CHII-NI-1 1/2A	346206	1 1/2	
CHII-NI-1 1/2FE	345206	1 1/2	J
CHII-NI-1 1/2F	345201	1 1/2	
CHII-NI-2A	346201	2	
CHII-NI-2FE	345208	2	K
CHII-NI-1 1/2AE	346206	2 1/2	
CHII-NI-2F	345218	2	
CHII-NI-2 1/2A	346249	2 1/2	
CHII-NI- 2 1/2AE	346209	2 1/2	
CHII-NI-3FE	345209	3	L
CHII-NI-3F	345219	3	

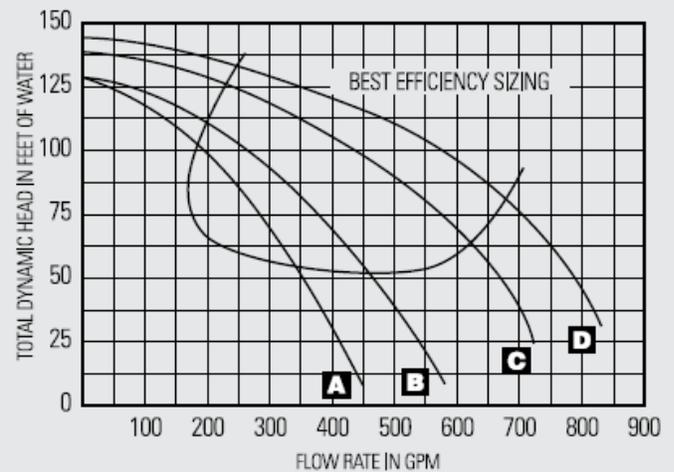


Pentair CSP/CCSP Series



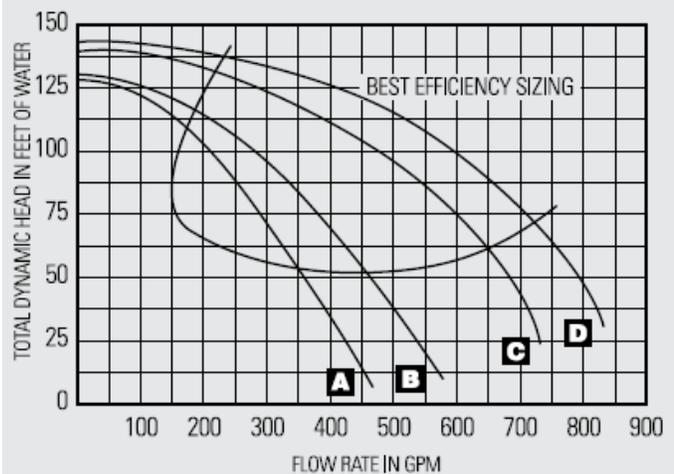
Pump Model	HP
CSPHK/CCSPHK CSPHK3/CCSPHK3 CSPH2K3/CCSPH2K3	7 ½
CSPHL/CCSPHL CSPHL3/CCSPHL3 CSPH2L3/CCSPH2L3	10
CSPHM3/CCSPHM3 CSPH2M3/CCSPH2M3	15
CSPHN3/CCSPHN3 CSPH2N3/CCSPH2N3	20

Performance Curves – CSP Pumps



A. CSPHK/CSPH **B.** CSPHL/CSPHL3 **C.** CSPHM3 **D.** CSPHN

Performance Curves – CCSP Pumps

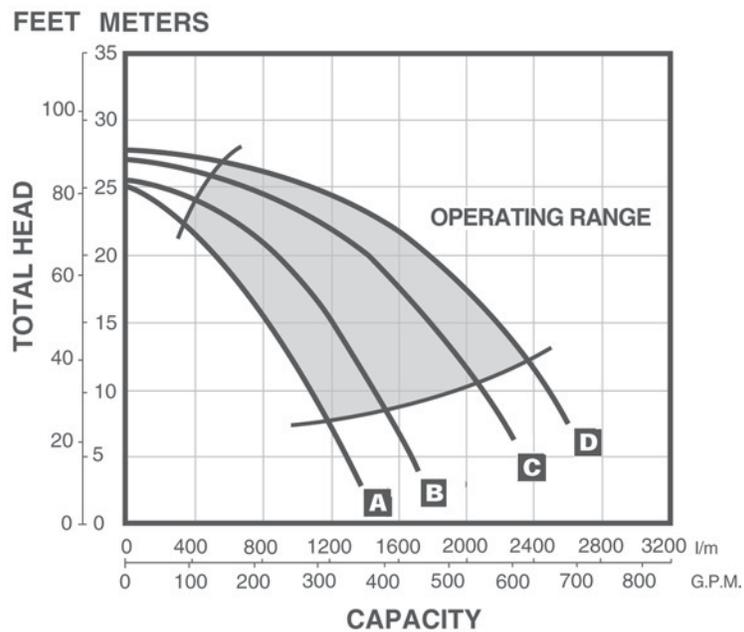


A. CCSPHK/CCSPHK3 **B.** CCSPHL/CCSPHL3 **C.** CCSPHM3 **D.** CCSPHN

Pentair 5CSP/5CCSP Series



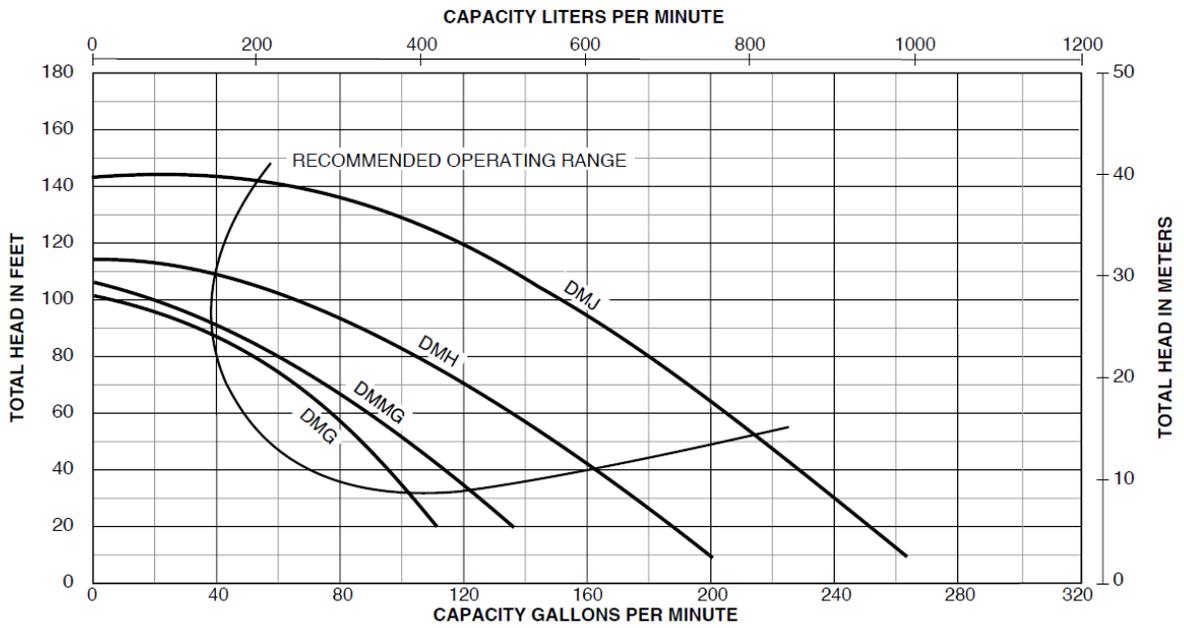
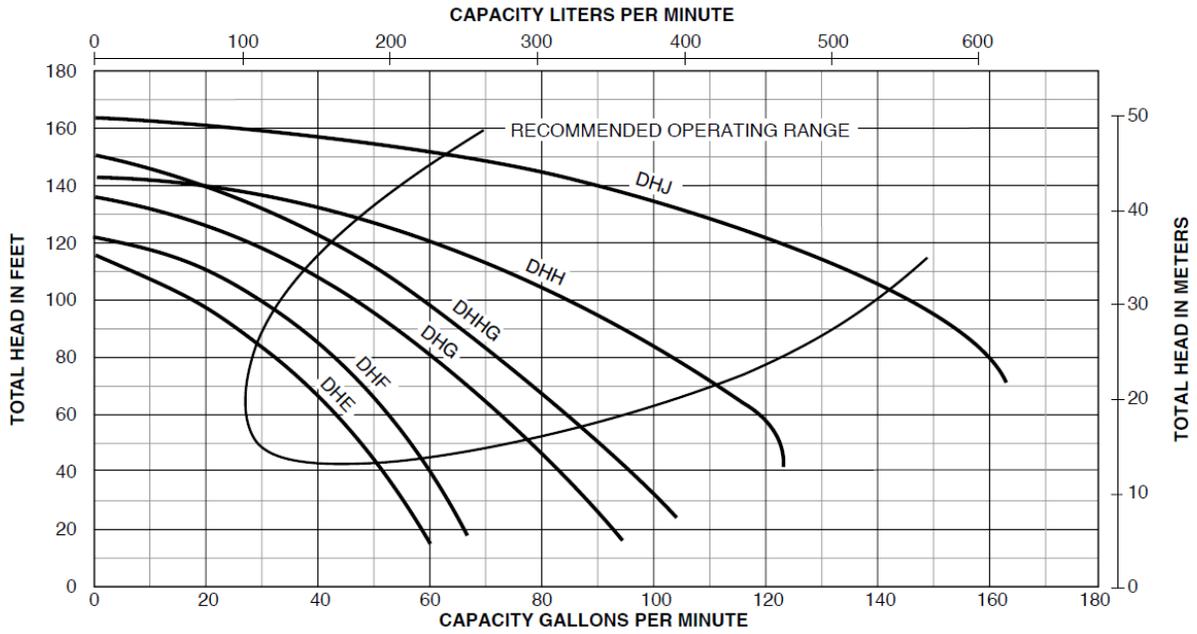
Pump	HP	Curve Key
5CSPHJ/5CSPHJ3/5CCSPHJ3	5	A
5CSPHK/5CSPHK3/5CCSPHK3	7.5	B
5CSPHL3/5CCSPHL3	10	C
5CSPHM3/5CCSPHM3	15	D



Pentair D Series

<p>Pentair</p>	<p>D Series <i>Cast Iron Self-Priming Centrifugal Commercial Pump</i></p> <p><i>High Head and Medium Head</i></p>	 <p>1, 1-1/2, 2, 2-1/2 HP</p> <p>3 and 5 HP</p>
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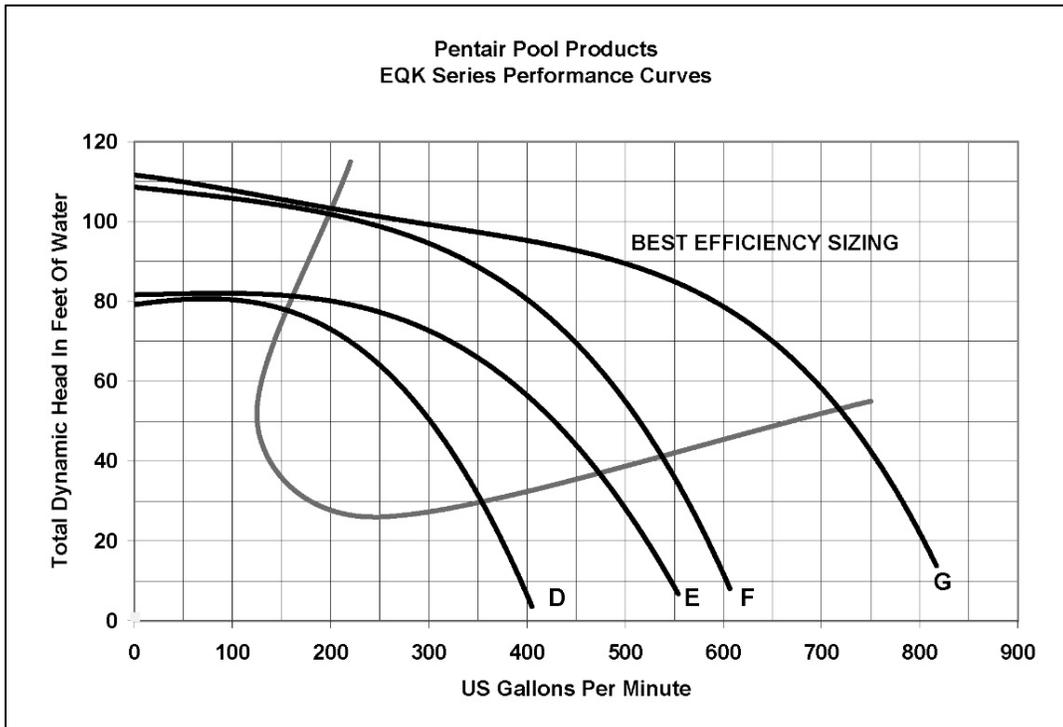
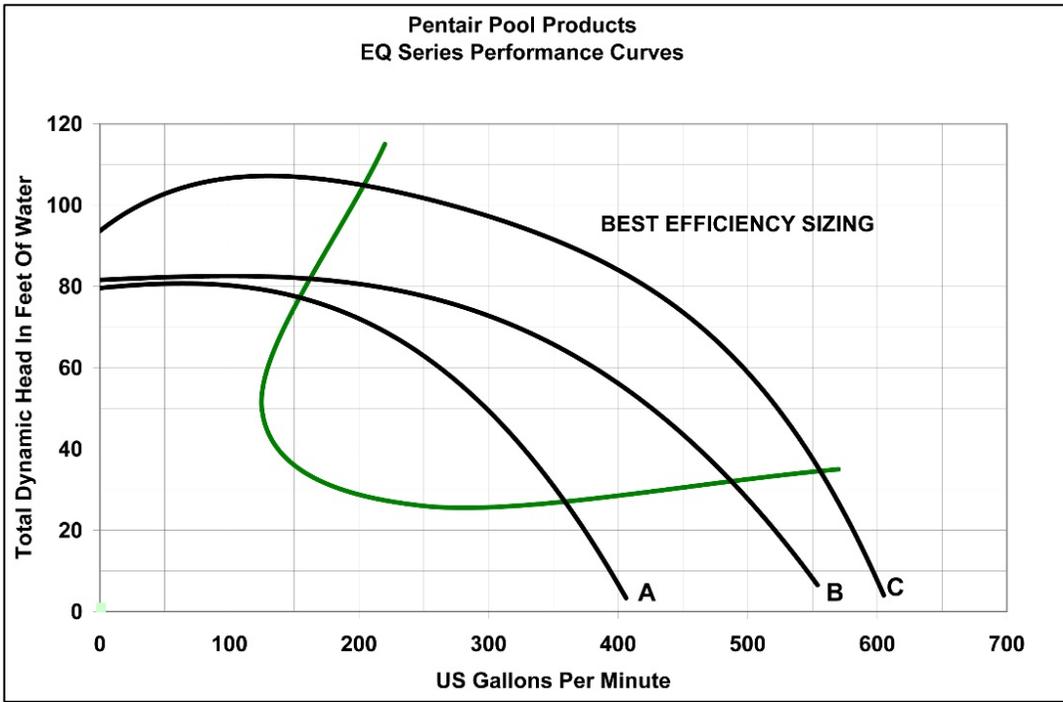
	Pump Model	HP
High Head	DHE/DHE3	1
	DHF/DHF3	1.5
	DHG/DHG3	2
	DHHG/DHHG3	2.5
	DHH/DHH3/DH2H/DH2H3	3
	DHJ/DHJ3/DH2J/DH2J3	5
Medium Head	DMG/DMG3	2
	DMMG/DMMG3	2.5
	DMH/DMH3/DM2H/DM2H3	3
	DMJ/DMJ3/DM2J/DM2J3	5



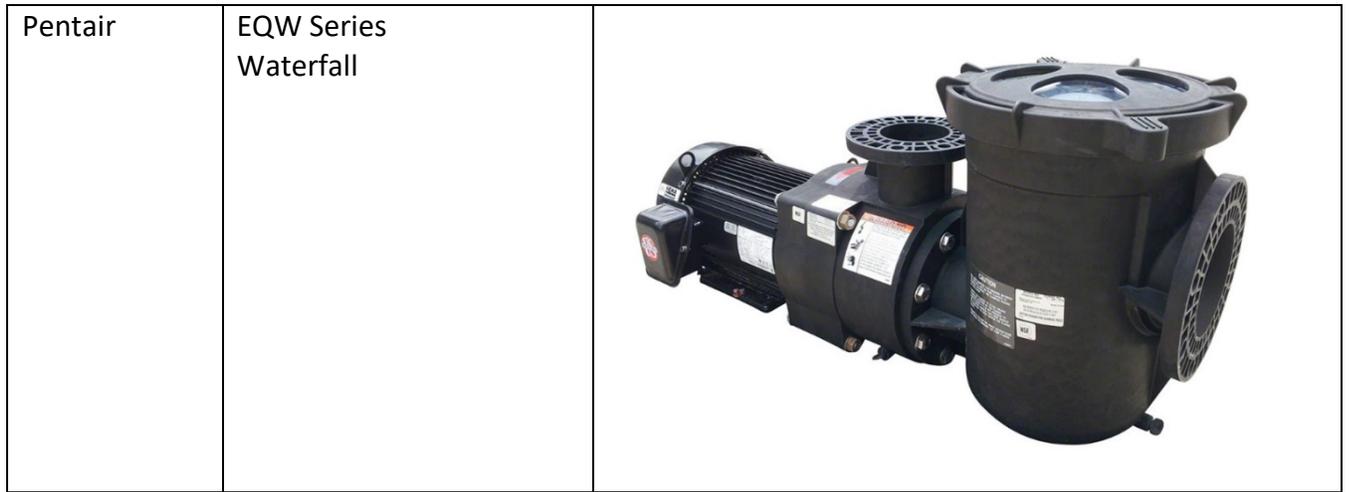
Pentair EQ Series



Pump	HP	Curve Key
EQ-500	5	A
EQ-750	7.5	B
EQ-1000	10	C
EQK-500 EQKT-500 EQT-500	5	D
EQK-750 EQKT-750 EQT-750	7.5	E
EQK-1000 EQKT-1000 EQT-1000	10	F
EQK-1500 EQKT-1500 EQT-1500	15	G

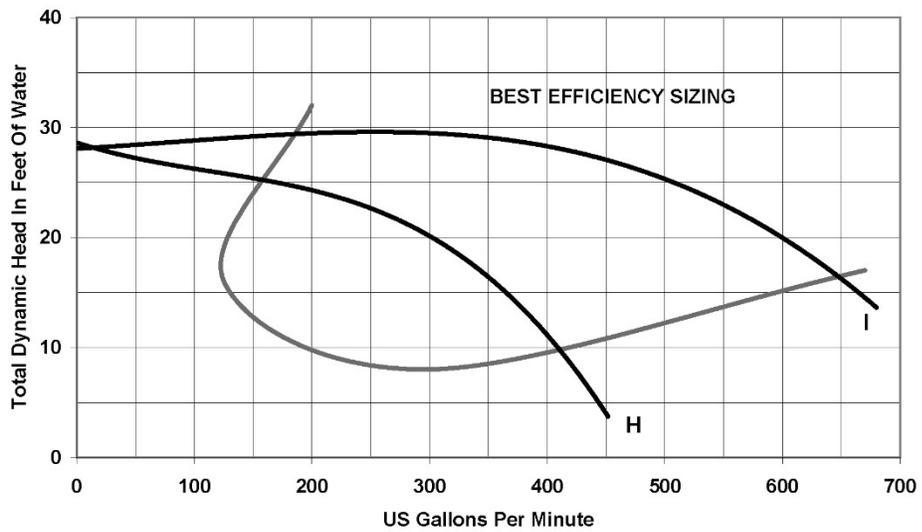


Pentair EQW Series



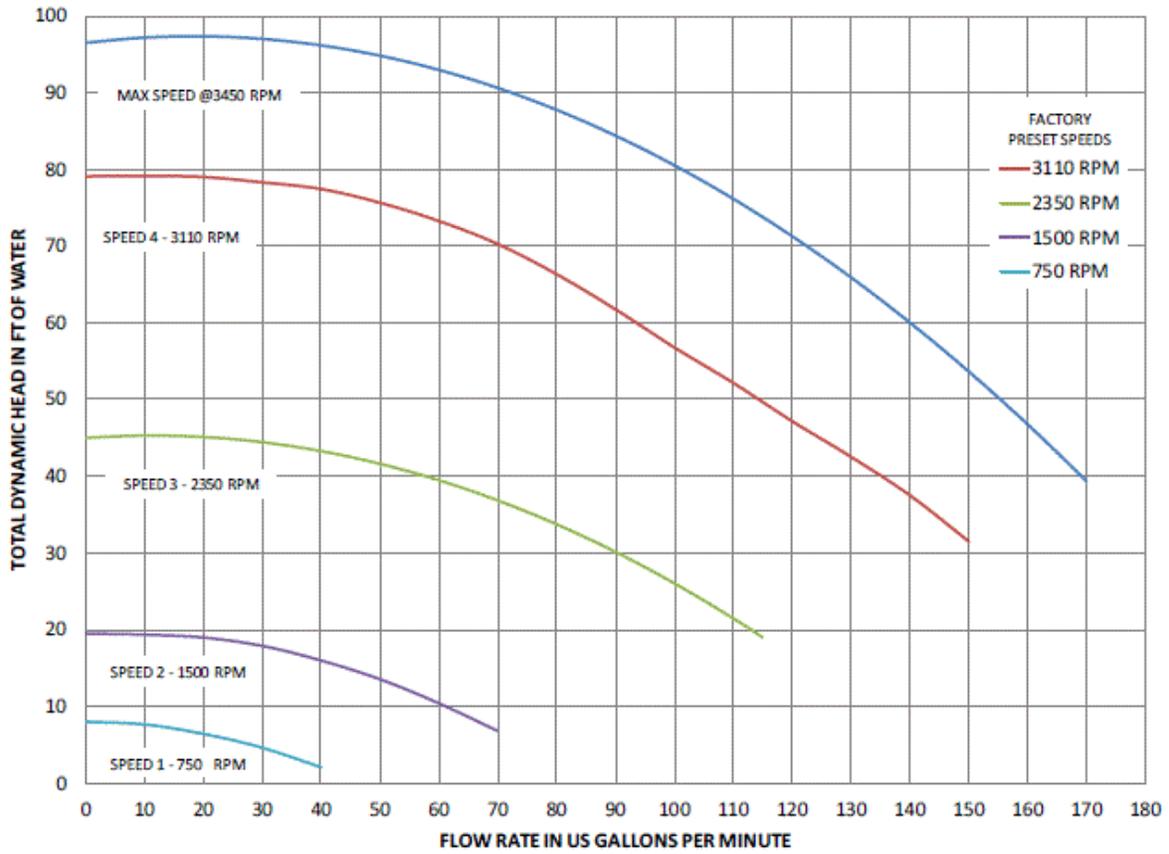
Pump	HP	Curve Key
EQW-300/EQWK-300	3	H
EQW-500/EQWK-500	5	I

Pentair Pool Products
EQW and EQWK Waterfall Series Performance Curves



Pentair IntelliFlo 2 VST

Pentair	IntelliFlo 2 VST 011055	
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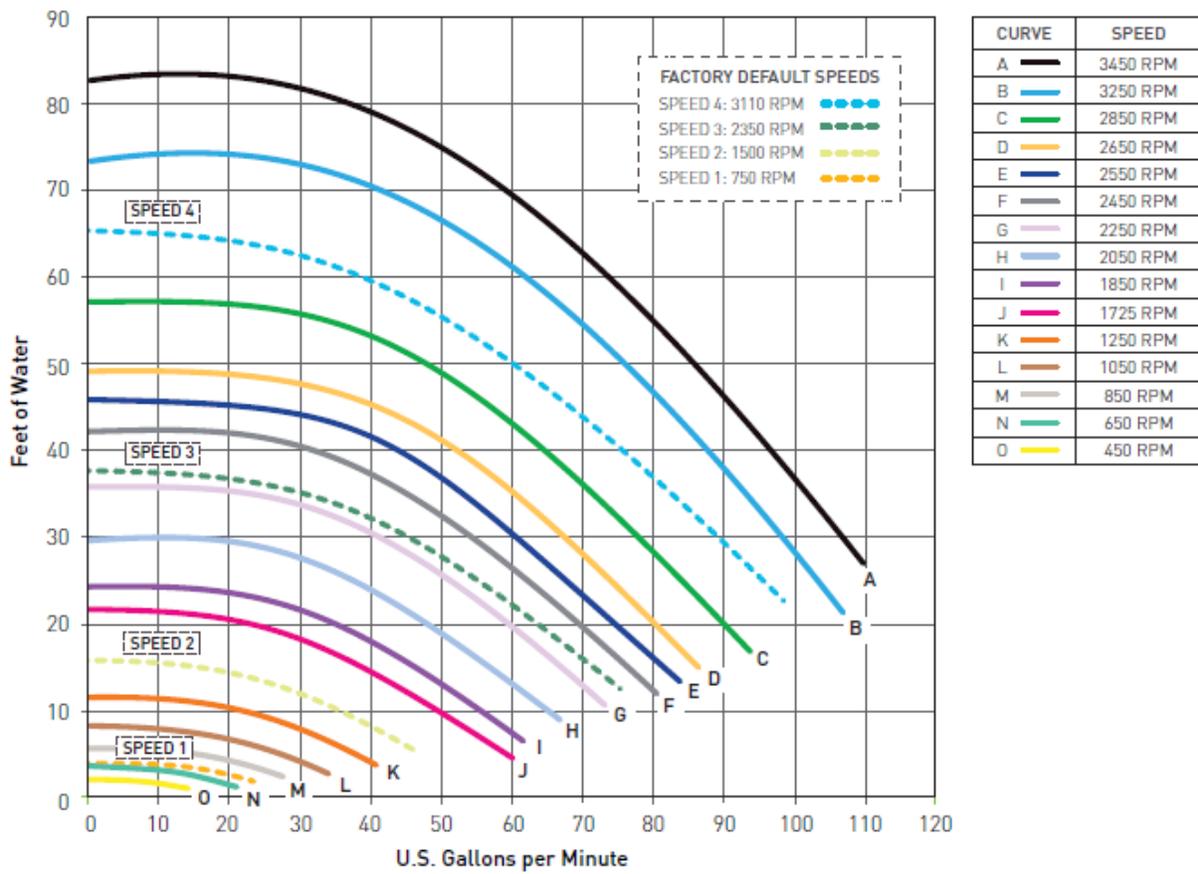


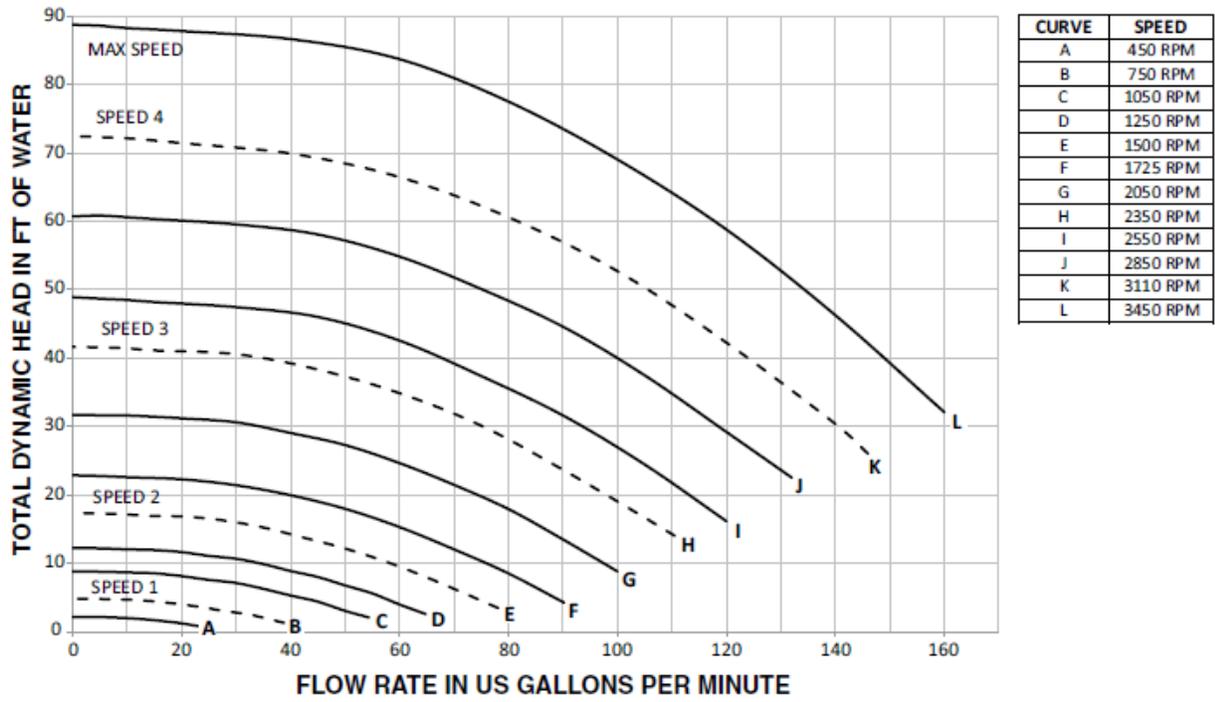
Note: IntelliFlo VS+SVRS minimum speed is 1100 RPM

Pentair IntelliFlo i1 and i2 Variable Speed Pump

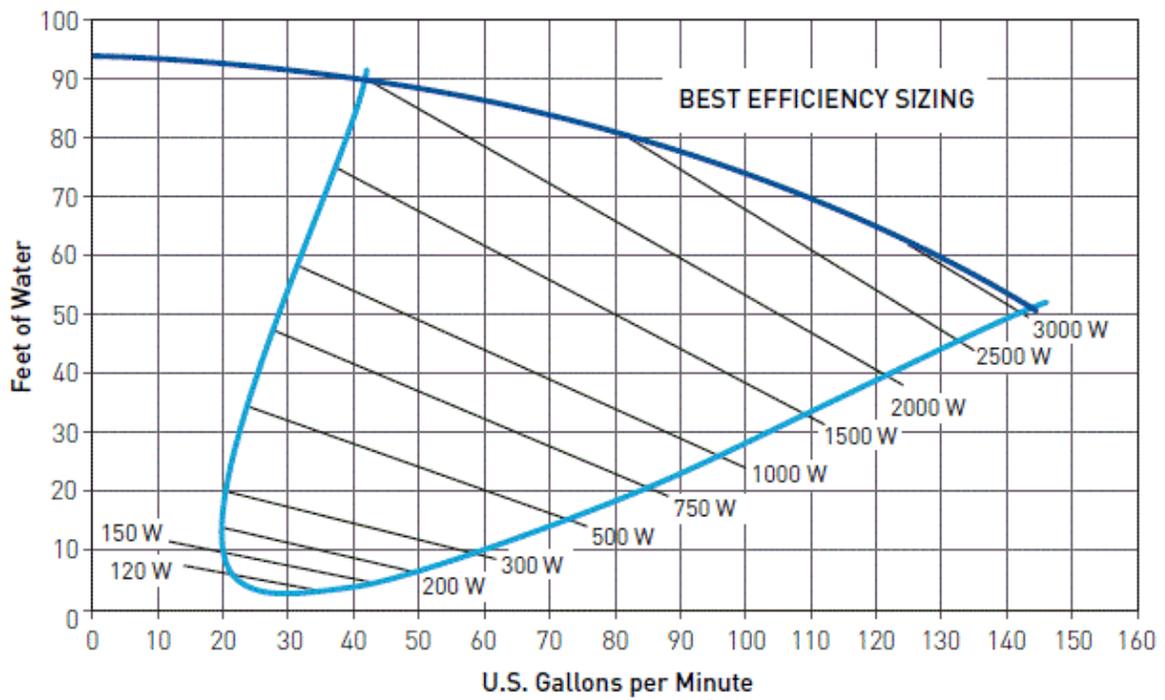


IntelliFlo i1

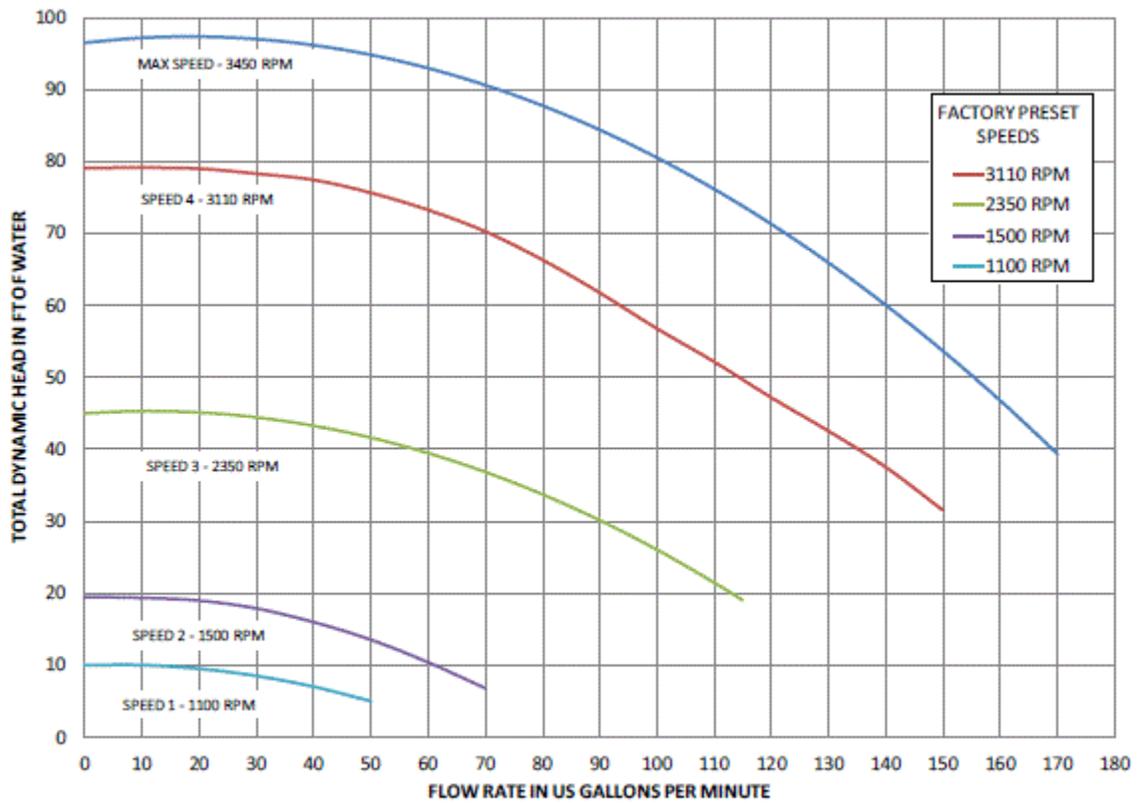




Pentair IntelliFlo VF – Variable Flow



Pentair IntelliFlo VS and IntelliFlo VS + SVRS

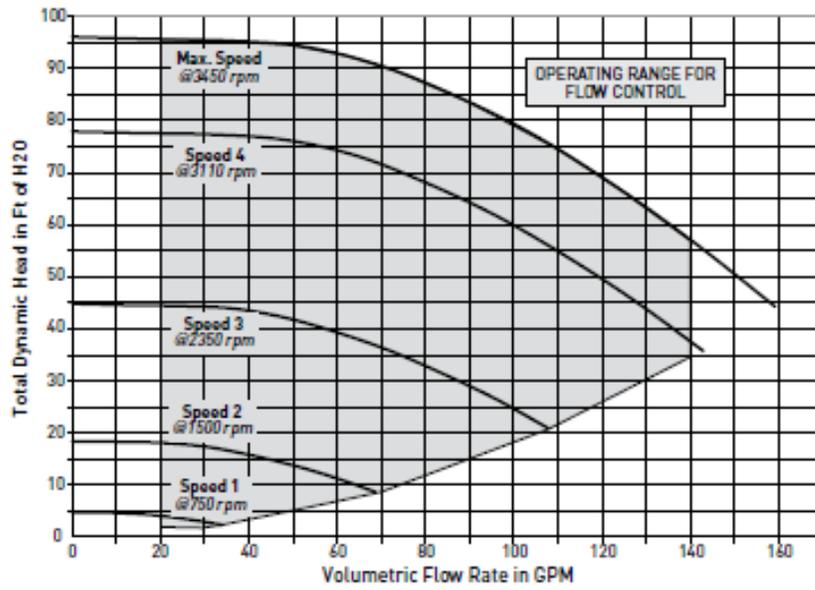


Note: IntelliFlo VS+SVRS minimum speed is 1100 RPM

Pentair IntelliFlo VSF

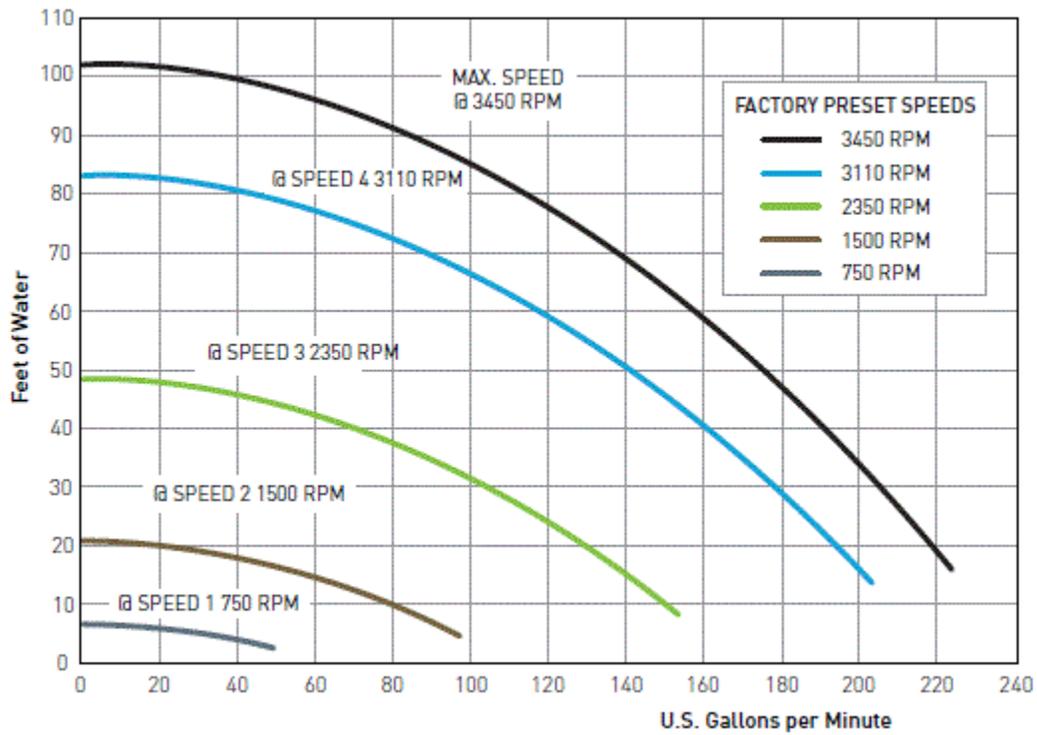
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Performance Curves



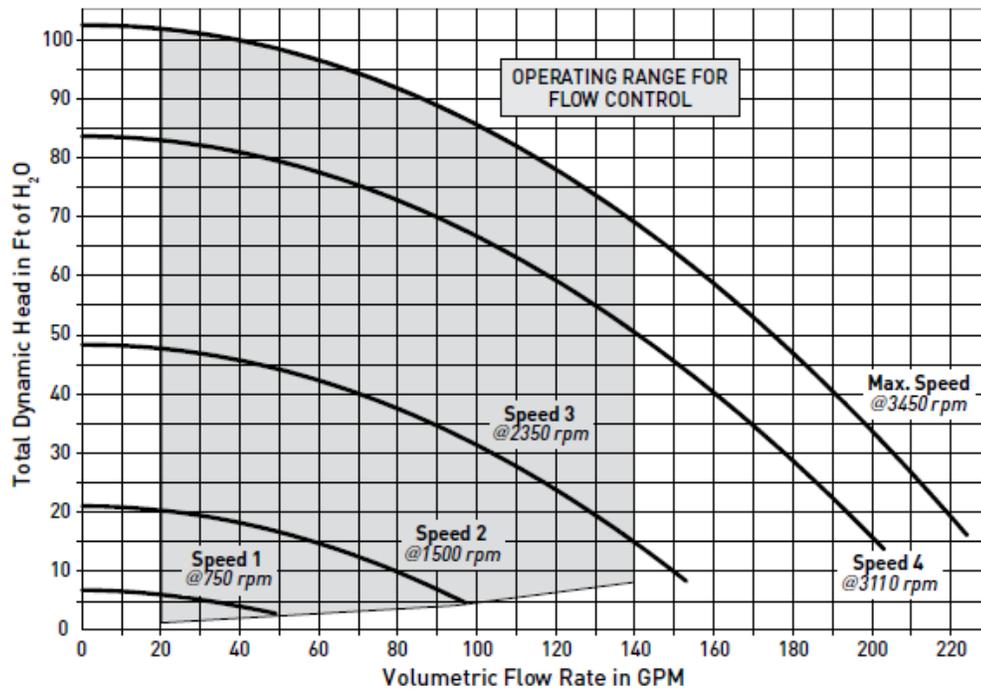
Pentair IntelliFloXF

Pentair	IntelliFloXF 022055	
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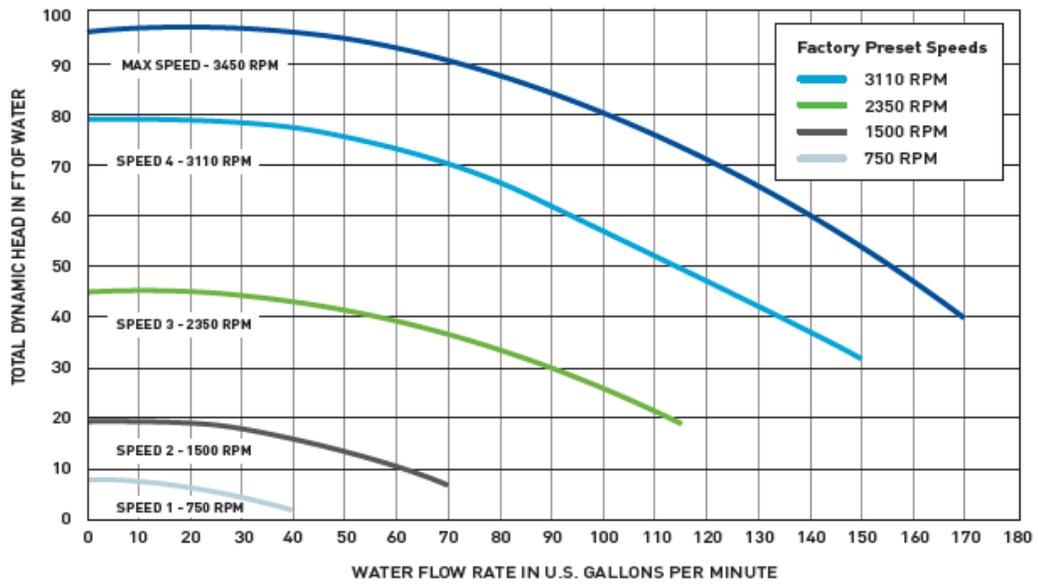
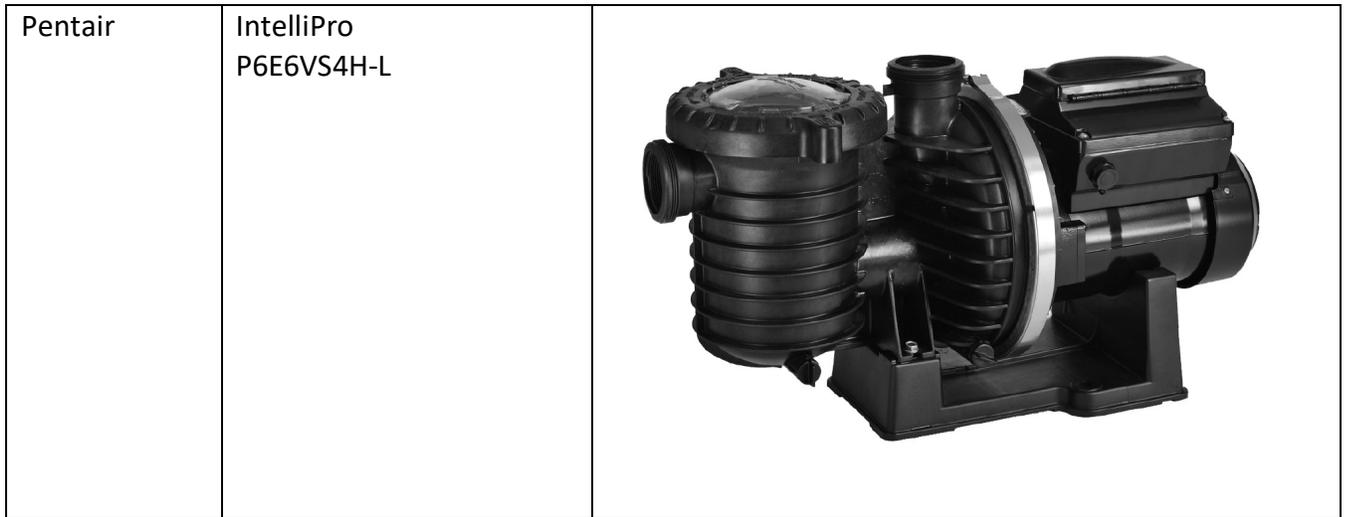


Pentair IntelliFloXF VSF

Pentair	IntelliFloXF VSF 022056	
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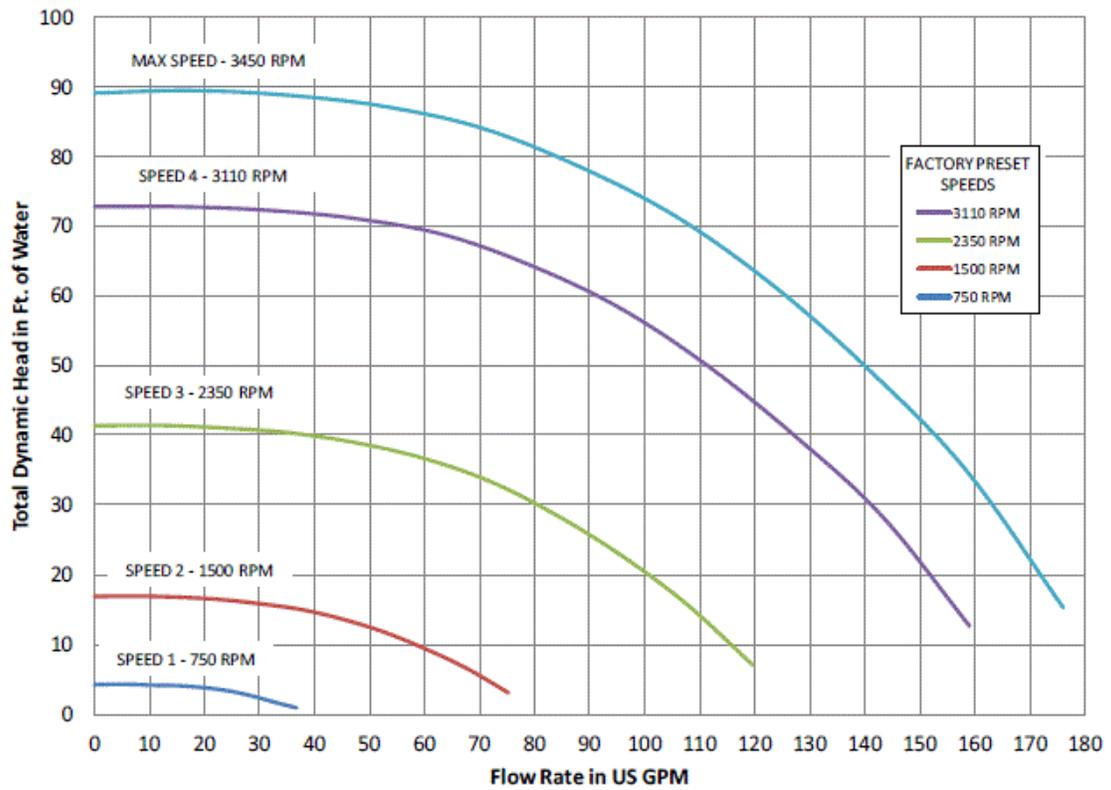
Pentair IntelliPro



NOTE: The chart above demonstrates performance rates at factory preset speeds of 750 RPM, 1500 RPM, 2350 RPM and 3110 RPM.

Pentair IntelliPro 2 VST

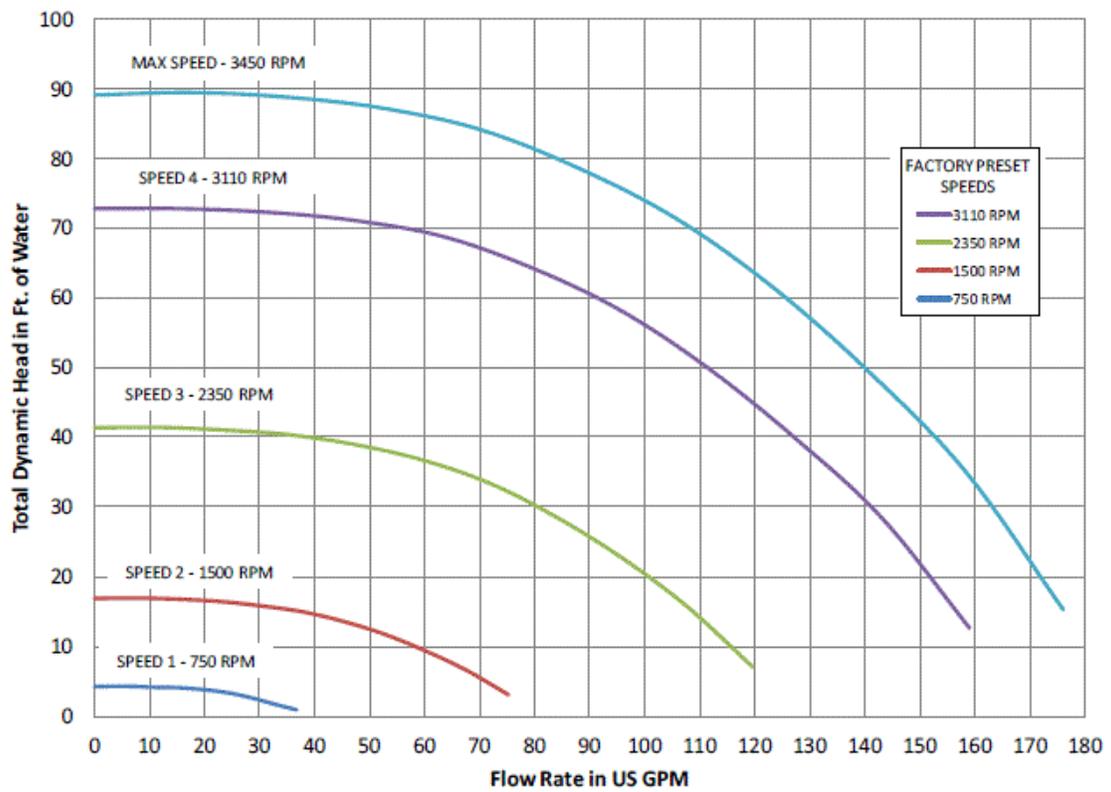
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Note: IntelliPro VS+SVRS minimum speed is 1100 RPM

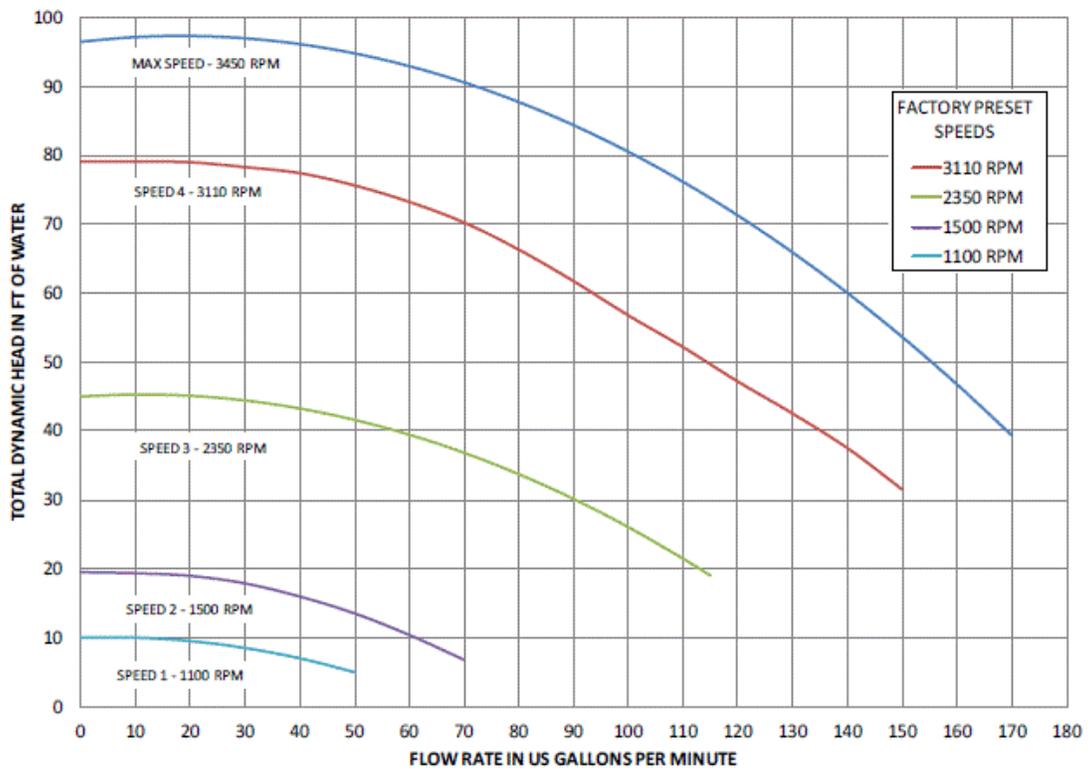
Pentair IntelliPro VS

Pentair	IntelliPro VS 013028	
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Note: IntelliPro VS+SVRS minimum speed is 1100 RPM

Pentair IntelliPro VS+SVRS

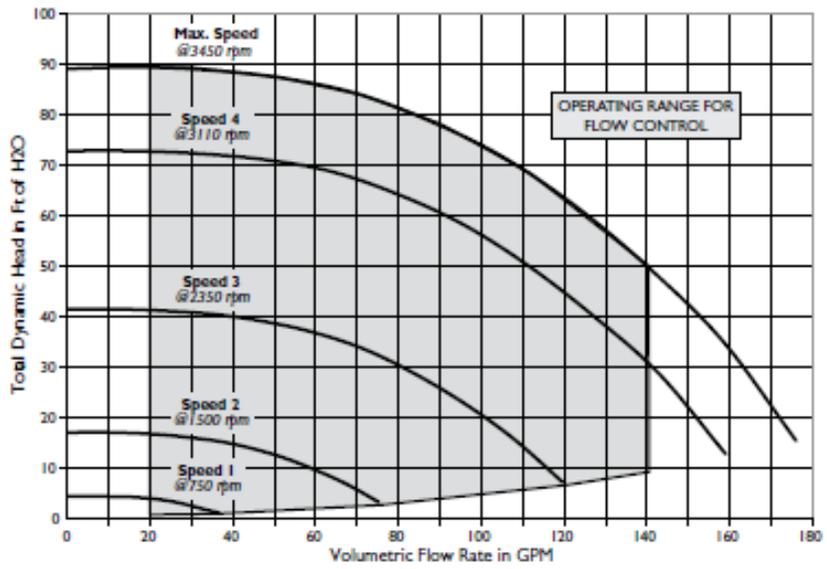


* IntelliFlo VS+SVRS minimum speed is 1100 RPM

Pentair IntelliPro VSF

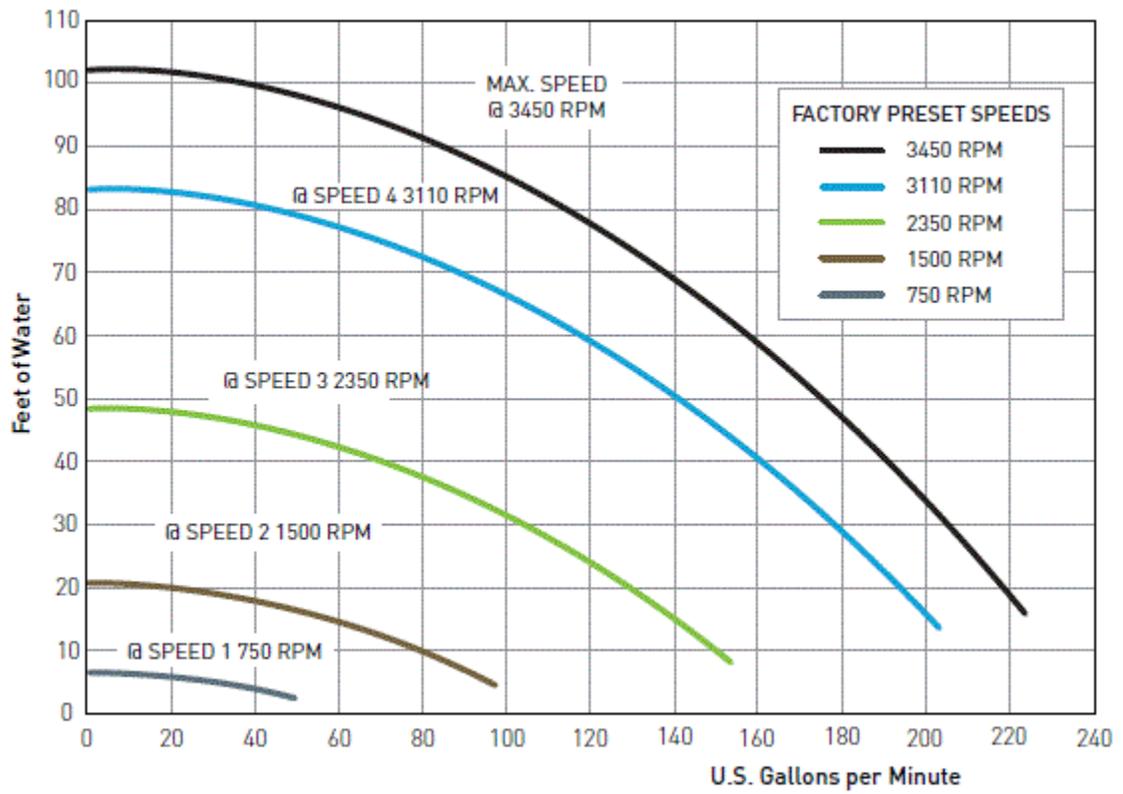
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Performance Curves



Pentair IntelliProXF Variable Speed

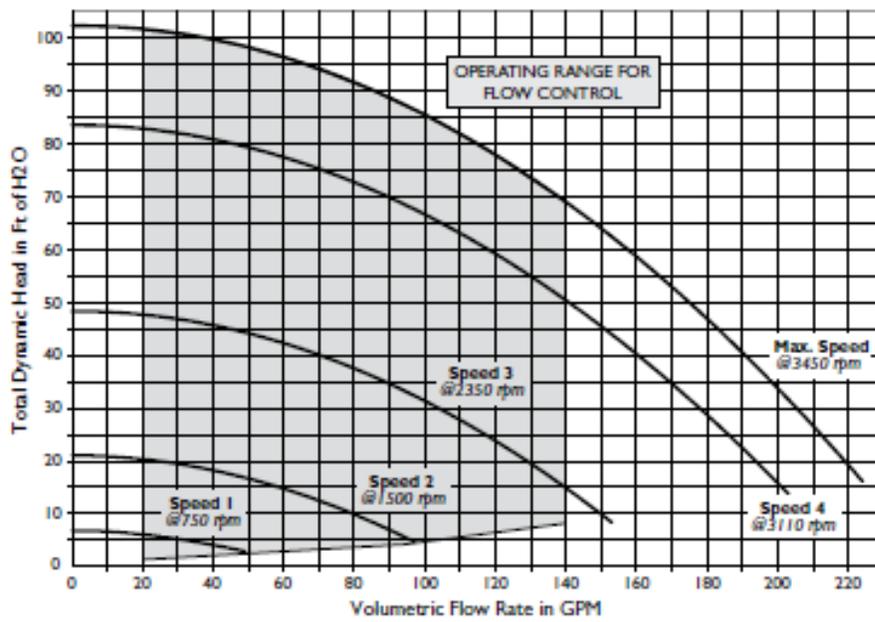
Pentair	IntelliProXF 023055	
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Pentair IntelliProXF VSF

Pentair	IntelliProXF VSF 023056	
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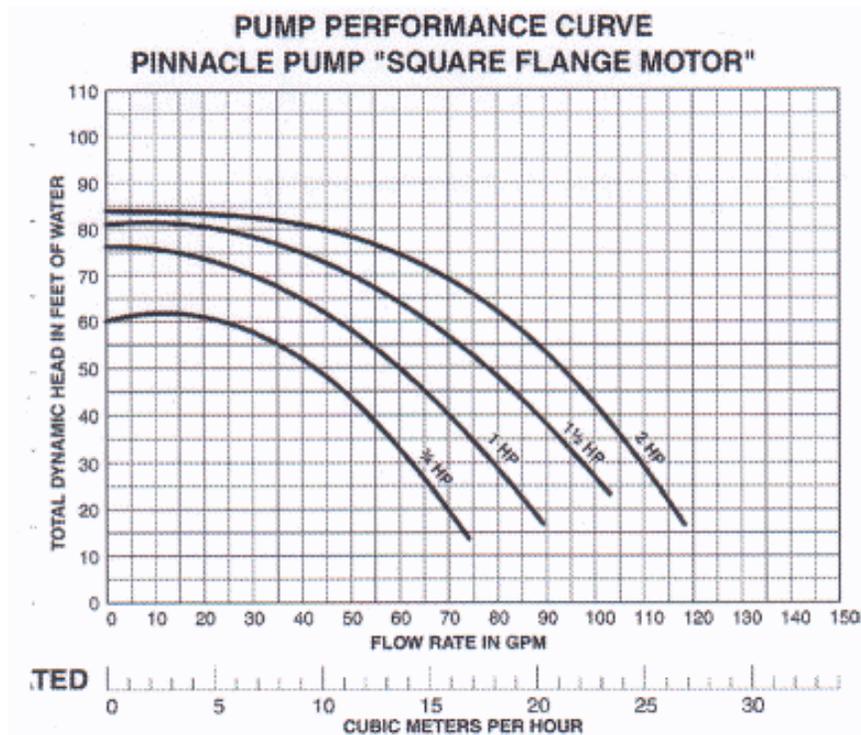
Performance Curves



Pentair Pinnacle



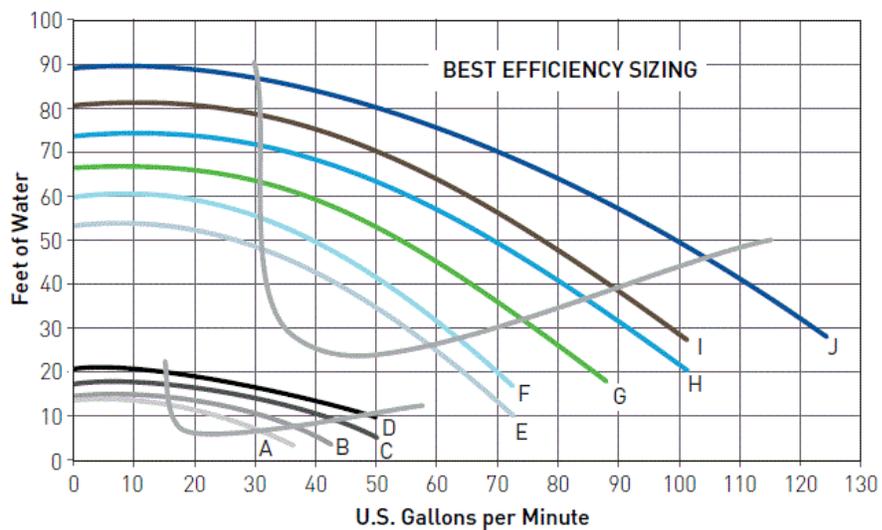
Product #	Model	Voltage	Full Load	HP	Sq. ft.
342853	PFII-PI- 3/4	115/230V	10.8/5.4	3/4	1.27
342854	PFII-PI-1	115/230V	14.2/7.1	1	1.25
342856	PFII-PI-1-1/2	115/230V	16.0/8.0	1-1/2	1.10
342355	PFII-PI-2	115/230V	4/11.2	2	1.10



Pentair SuperFlo High Performance

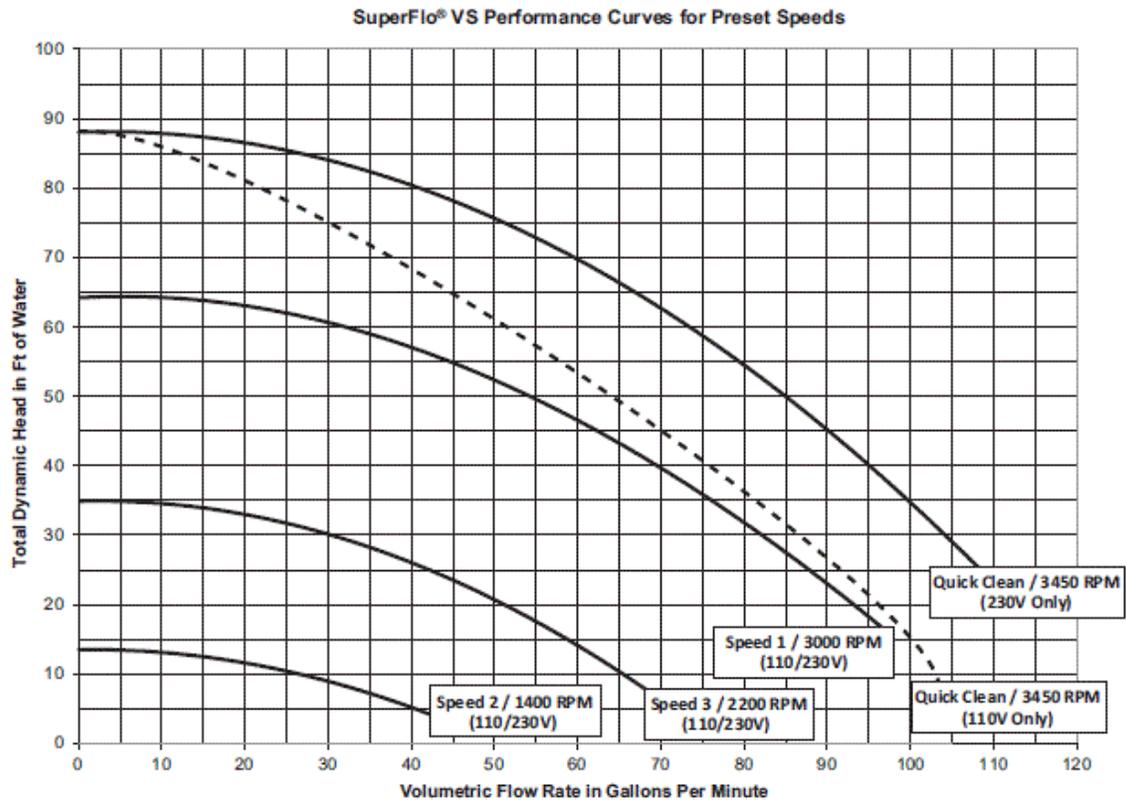


Pump	Product	HP	Curve Key
SF-NI-½FE	348021	½	E
SF-NI-½F	340036	½	
SF-NI-¾FE	348022	¾	F
SF-NI-¾A	340037	¾	
SF-NI-1AE	348023	1	G
SF-NI-1A	340038	1	
SF-NI-1 ½AE	348024	1 ½	H
SF-NI-1 ½A	340039	1 ½	
SF-NI-2AE	348025	2	I
SF-NI-2A	340040	2	
SF-NI-2 ½AE	348026	2 ½	J
SF-NI-2 ½A	340041	2 ½	
SF-N2- ¾ A (low speed)	341111	¾	A
SF-N2-1A (low speed)	340042	1	B
SF-N2-1 ½A (low speed)	340043	1 ½	C
SF-N2-2A (low speed)	340044	2	D



Pentair SuperFlo VS Variable speed

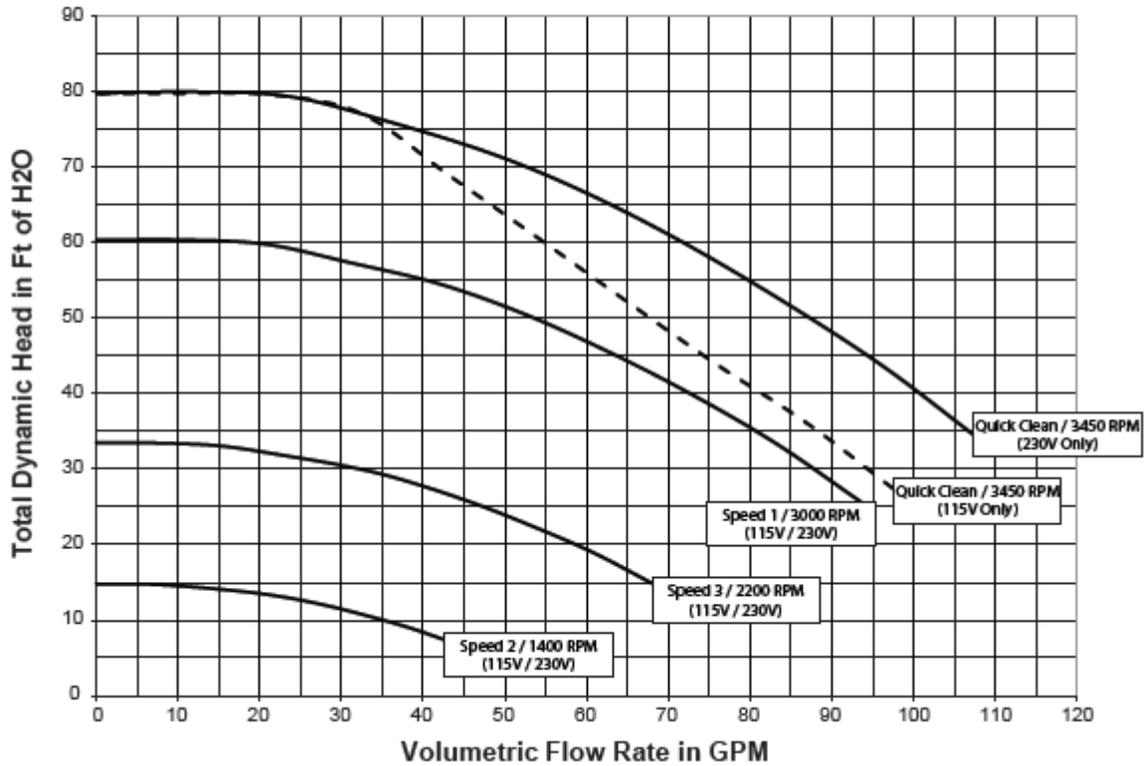
Pentair	SuperFlo VS Variable Speed 342001	
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Pentair SuperFlo VST Variable speed



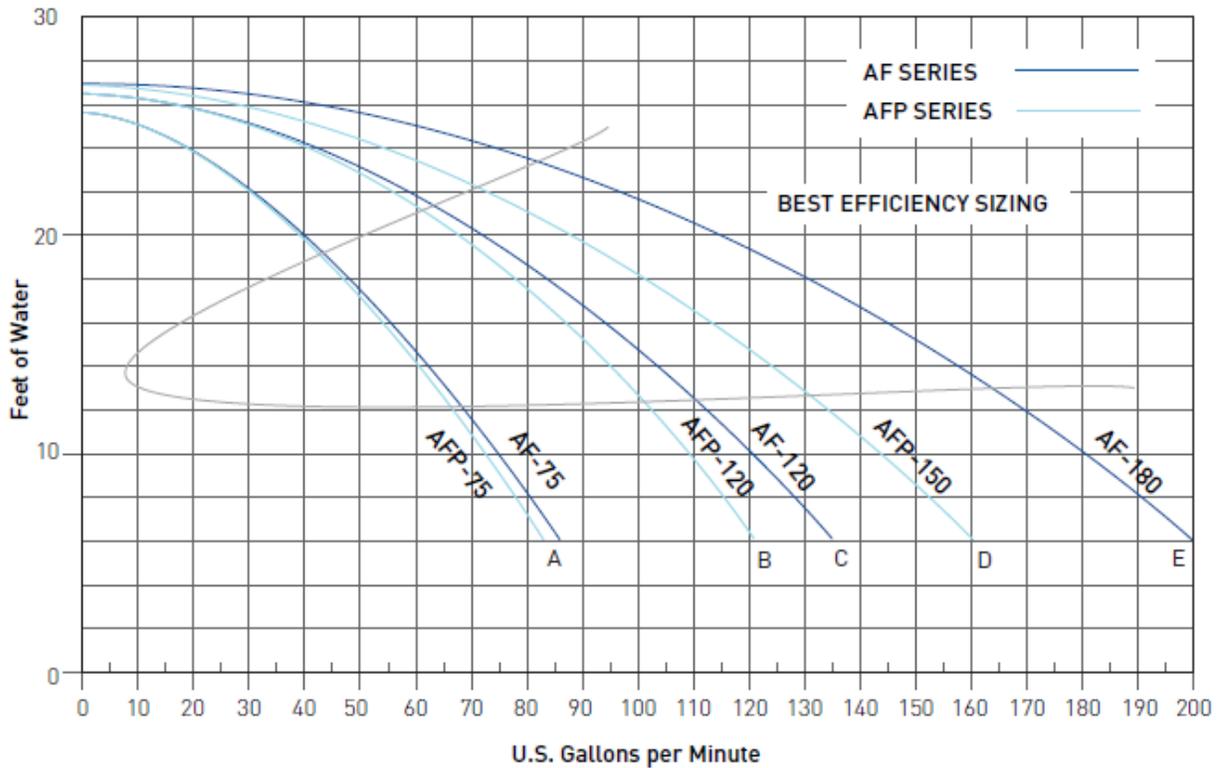
SuperFlo® VST Performance Curves for Preset Speeds



Pentair Waterfall Specialty Pumps



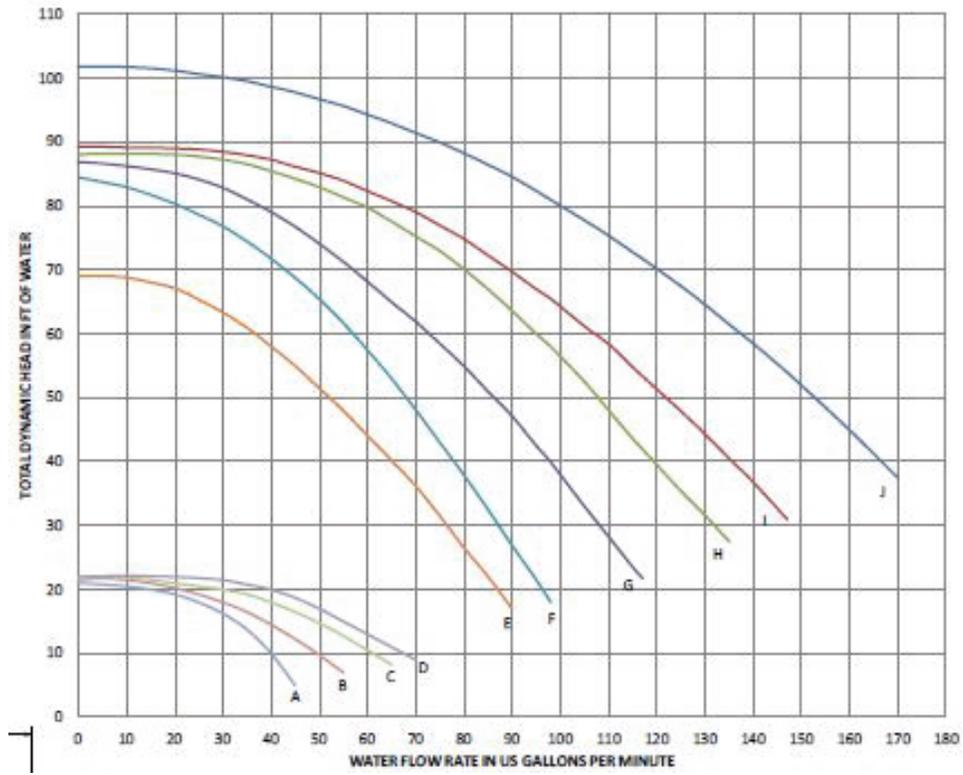
Pump	Product	Curve Key
AFP-75	340350	A
AFP-120	340351	B
AFP-150	340352	D
AF-75	340300	A
AF-120	340301	C
AF-180	340302	E



Pentair Whisperflo



Pump	Product	HP	Curve Key
WFE-2	011511	½	E
WF-2	011578	½	
WF-23	011771	¾	
WFE-3	011512	¾	F
WF-3	011579	¾	
WFE-24	011517	11	
WF-24	011772		
WFE-4	011513	1	G
WF-4	011580	1	
WFK-4	011641	1	
WFE-26	011518	1 ½	
WF-26	011773	1 ½	
WFE-6	011514	1 ½	H
WF-6	011581	1 ½	
WFK-6	011642	1 ½	
WFE-28	011519	2	
WF-28	011774	2	
WFE-8	011515	2	I
WF-8	011582	2	
WFK-8	011643	2	
WFE-30	011520	2 ½	
WF-30	011775	2 ½	
WFE-12	011516	3	J
WF-12	011583	3	
WFK-12	011644	3	
WFDS-3	012530	¾	A, F
WFDS-24	012485	1	
WFDS-4	011486	1	B, G
WFDS-26	012518	1 ½	
WFDS-6	011522	1 ½	C, H
WFDS-28	011524	2	
WFDS-8	011523	2	D, I
WFDS-30	011525	2 ½	



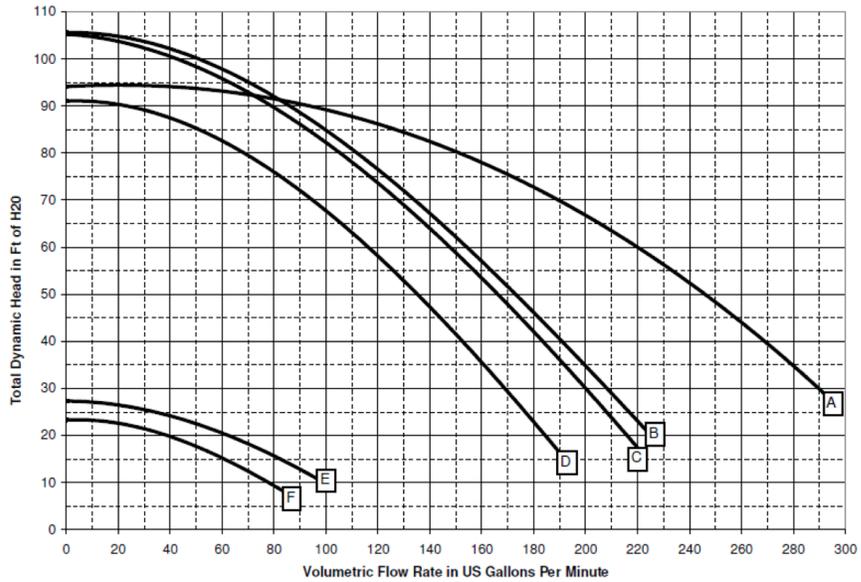
Pentair WhisperfloXF



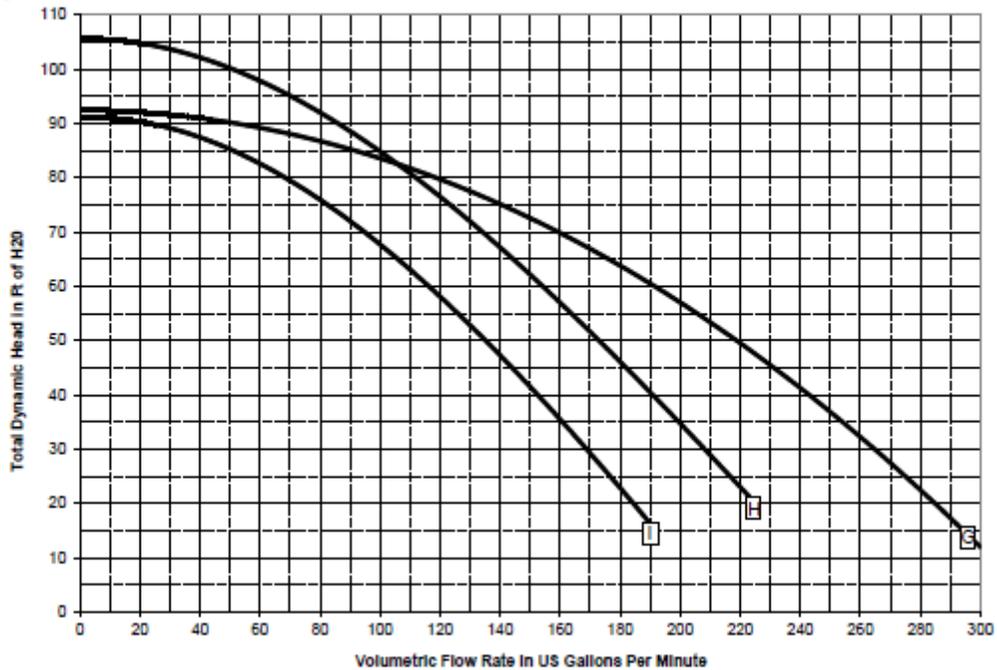
Pump	Product	HP	Curve Key
XFE-20	022011	5	A
XFJ-20	-		
XFE-12	022010	3	B
XFL-12	-		
XF-12	022013	3	C
XFDS-12	022008	3 (2 speed)	C, E
XFE-8	022009	2	D
XF-8	022012		
XFJ-8	-		
XFE-30	022028	2 ½	D
XF-30	022027		
XFDS-8	022007	2	D, F
XFDS-30	022026	2 ½	
XFET-8	022032	2	D
XFET-12	022033	3	B
XFET-20	022034	5	A
XFK-8	022017	2	I
XFK-12	022018	3	H
XFK-20	-	5	G

Pump Performance Curves

WhisperFlo/Max-E-ProXF Performance Curves



3 Phase Performance Curve



Sta-Rite Dura-Glas

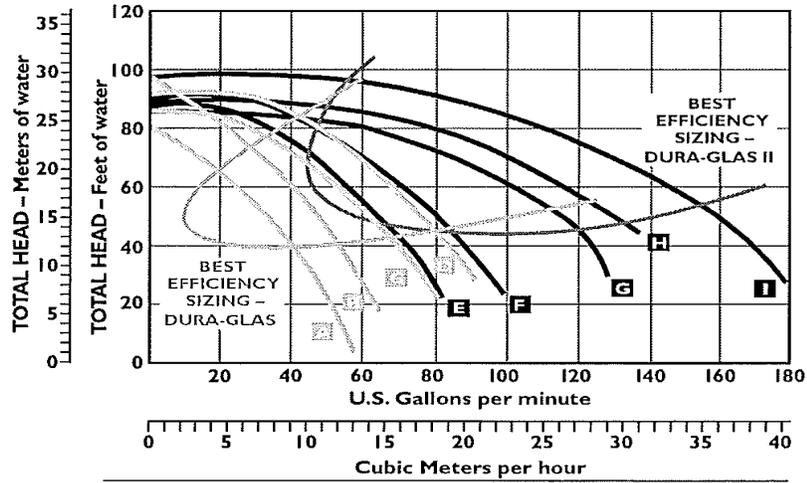


Pump	HP	Curve Key
P2RA5CL – single speed	½	A – on first pump curve
P2RA5DL – single speed	¾	B – on first pump curve
P2RA5EL – single speed	1	C – on first pump curve
P2RA5FL – single speed	1 ½	D – on first pump curve
P2RA5YEL – two speed - LOW	1	A – on second pump curve
P2RA5YFL – two speed - LOW	1 ½	B – on second pump curve
P2RA5YGL – two speed - LOW	2	C – on second pump curve
P2RA5YEL – two speed - HIGH	1	D – on second pump curve
P2RA5YFL – two speed - HIGH	1 ½	E – on second pump curve
P2RA6YGL – two speed - HIGH	2	F – on second pump curve

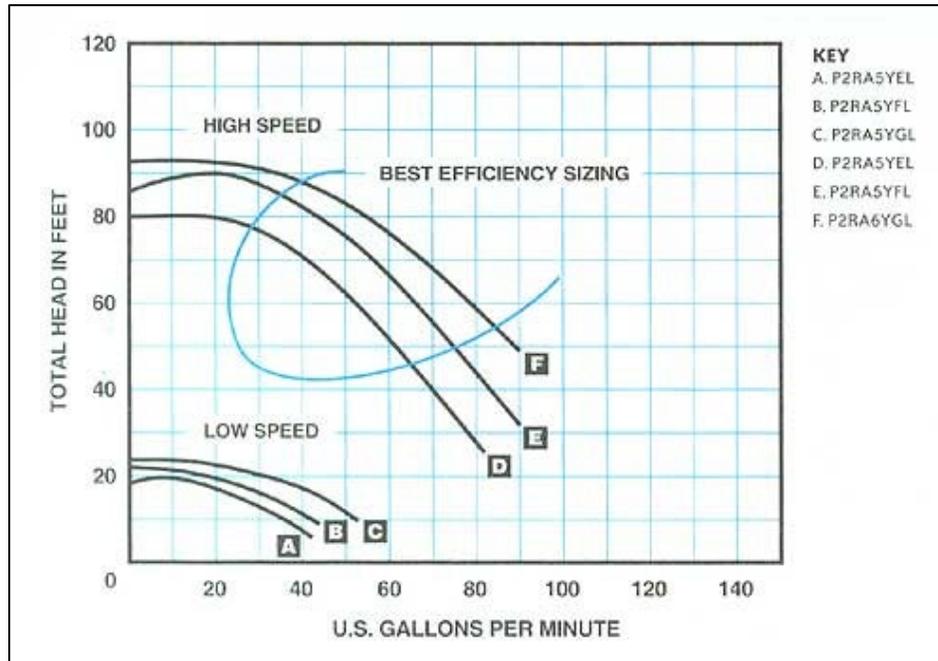
Performance Curves

Available in 1/2 to 3 HP, and single- and two-speed models.

Ask your dealer which one is right for you.



KEY	A. P2RA5CL	D. P2RA5FL	G. P4R6F3/P4R62F3
	B. P2RA5DL	E. P4R6D3/P4R62D3	H. P4R6G3/P4R62G3
	C. P2RA5EL	F. P4R6E3/P4R62E3	I. P4R6H3

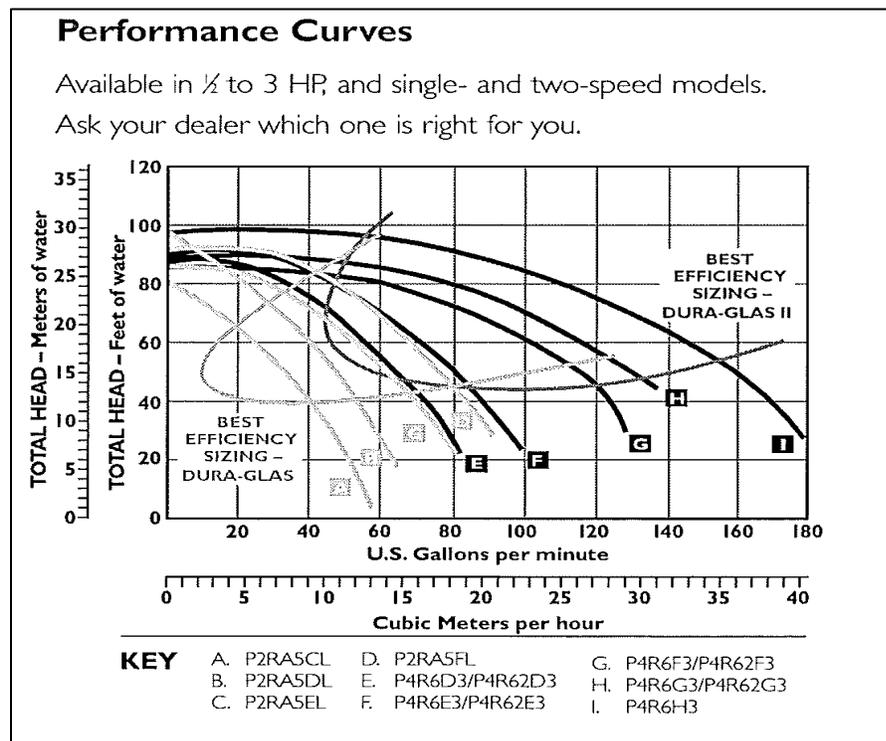


KEY
A. P2RA5YEL
B. P2RA5YFL
C. P2RA5YGL
D. P2RA5YEL
E. P2RA5YFL
F. P2RA6YGL

Sta-Rite Dura-Glas II



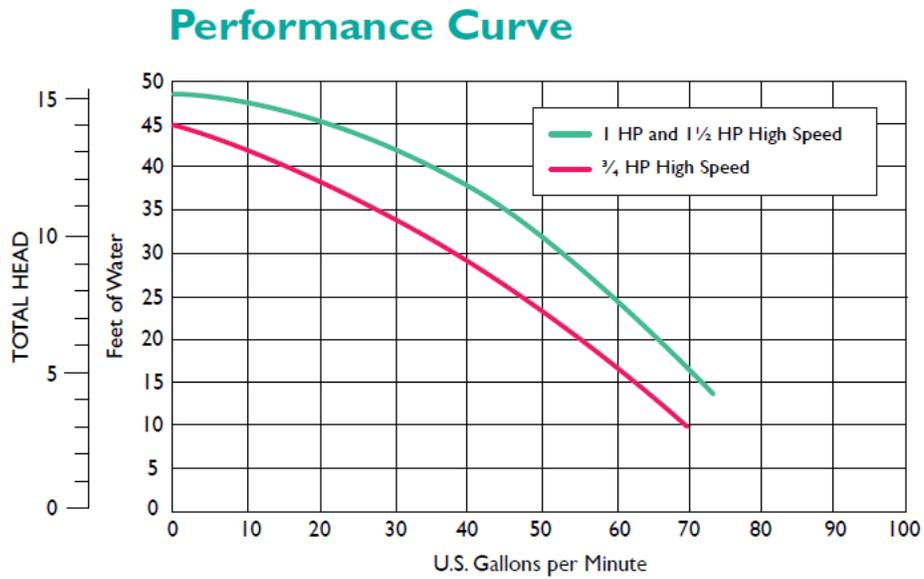
Pump	HP	Curve Key
P4R6D3 P4R62D3	¾	E
P4R6E3 P4R62E3	1	F
P4R6F3 P4R62F3	1 ½	G
P4R6G3 P4R62G3	2	H
P4R6H3	3	I



Sta-Rite Dynamo



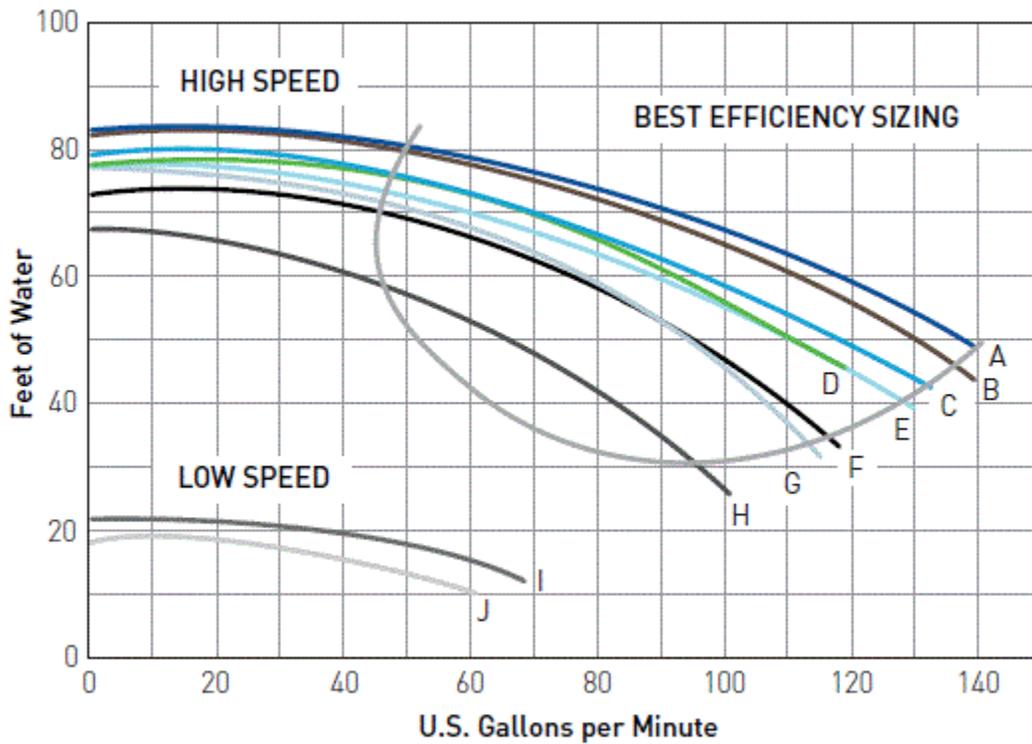
Pump	HP
DYNII-N1-3/4 HP	¾
DYNII-N1-3/4 HP	¾
DYNII-N1-1 HP	1
DYNII-N2-1 HP	1
DYNII-N1-1 ½ HP	1 ½
DYNII-N2-1 ½ HP	1 ½
DYNII-N1-2 HP	2



Sta-Rite Dyna-Jet



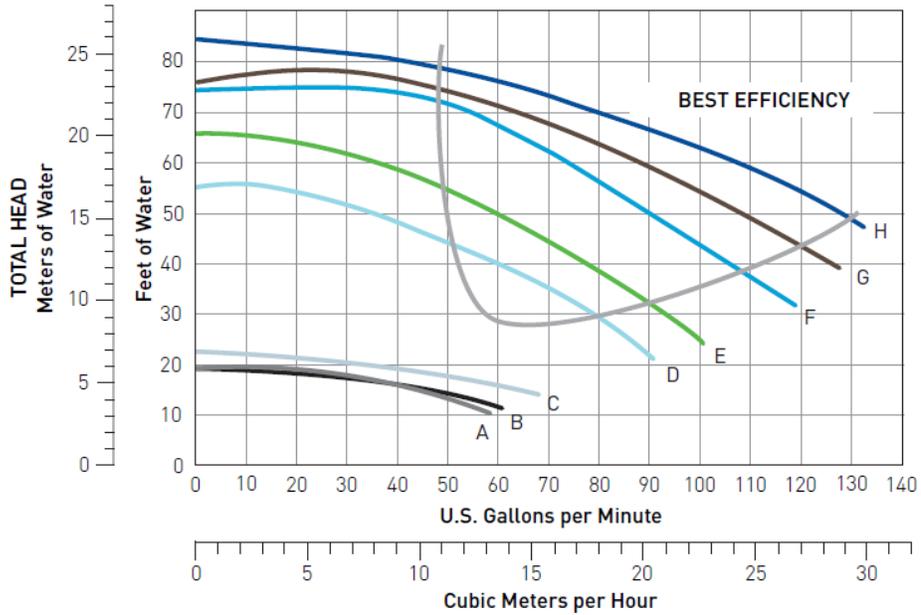
Pump	HP	Curve Key
TPEAE-165L	1	H
TPEAF-166L	1 ½	F
TPEAG-67L	2	C
TPEAAG-168L	2 ½	A
TPRAF-174L	1 ½	G
TPRAG-175L	2	E
TPEAYG-175L (2 SPEED)	2	D, J
TPEAAYG-168L (2 SPEED)	2 ½	B, I



Sta-Rite Dyna-Pro



Pump	HP	Curve Key
MPEAA6YGL	3	C
MPRA6D-L	$\frac{3}{4}$	D
MPEA6D-L	$\frac{3}{4}$	
MPEA6C-L	$\frac{1}{2}$	
MPRA6E-L	1	E
MPEA6E-L	1	
MPE6D-L	$\frac{3}{4}$	
MPRA6F-L	$1 \frac{1}{2}$	F
MPEA6F-L	$1 \frac{1}{2}$	
MPRA6YFL	$1 \frac{1}{2}$	
MPE6E-L	1	
MPRA6G-L	2	G
MPEA6G-L	2	
MPEA6YG-L	2	
MPE6F-L	$1 \frac{1}{2}$	
MPEAA6G-L	$2 \frac{1}{2}$	H
MPEA6YG-L	$2 \frac{1}{2}$	
MPE6G-L	2	
MPRA6YFL (2 speed)	$1 \frac{1}{2}$	A ,F
MPEA6YG-L (2 speed)	2	B, G
MPEA6YG-L (2 speed)	$2 \frac{1}{2}$	C, H

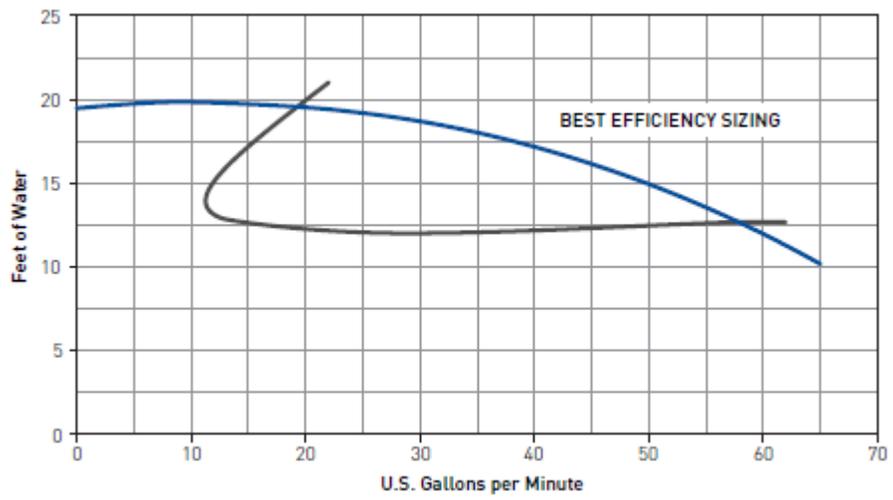


KEY

- | | |
|---------------------------|------------------------------------|
| A. MPRA6YFL | E. MPRA6EL/MPEA6EL/MPE6DL |
| B. MPEA6YGL | F. MPRA6FL/MPEA6FL/MPRA6YFL/MPE6EL |
| C. MPEAA6YGL | G. MPRA6GL/MPEA6GL/MPEA6YGL/MPE6FL |
| D. MPRA6DL/MPEA6DL/MPE6CL | H. MPEAA6GL/MPEAA6YGL/MPE6GL |

Sta-Rite Dyna-Wave

Sta-Rite (Currently Pentair)	Dyna-Wave MPRA6B-202L	
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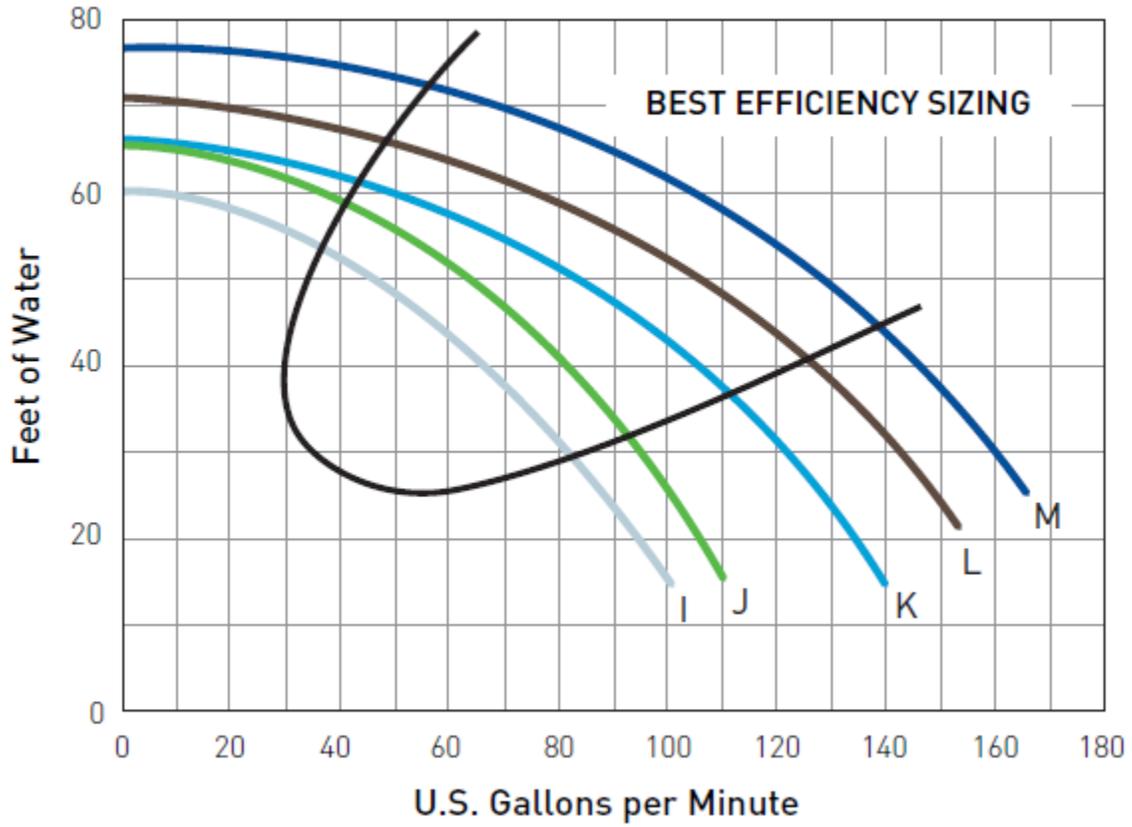
Sta-Rite Max-E-Pro



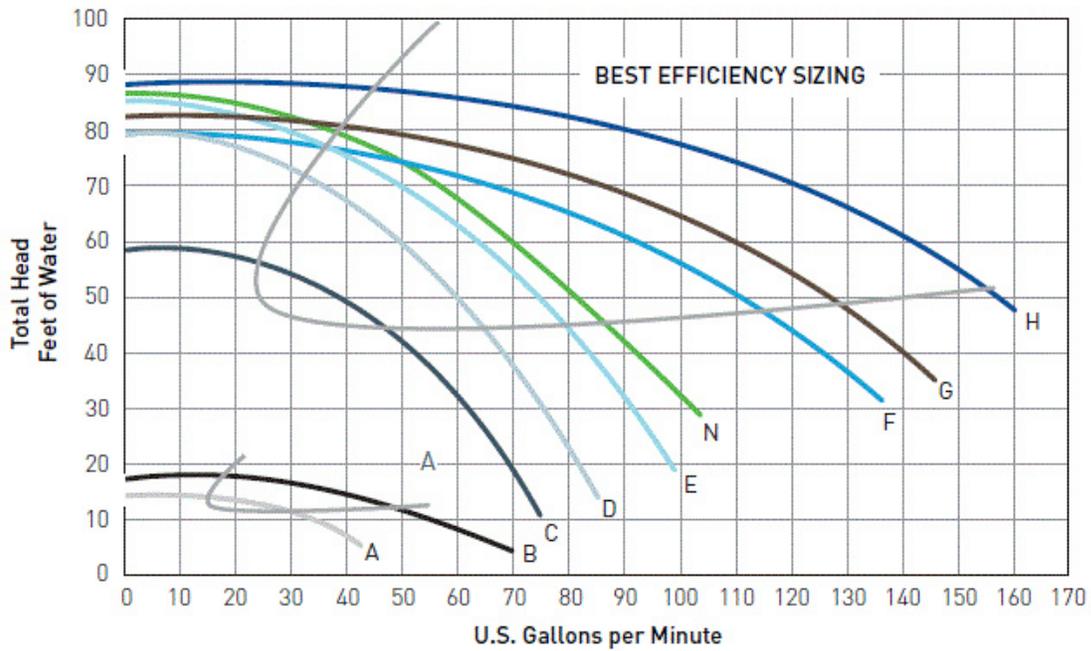
Pump	HP	Curve Key
STANDARD EFFICIENCY SINGLE SPEED UPGRATED		
P6RA6E-205L	1	D
P6RA6F-206L	1 ½	E
P6RAA6F-216L	1 ¾	F
P6RA6G-207L	2	F
THREE PHASE TEFC SUPER-DUTY		
345076	1	N
345077	1 ½	F
345078	2	G
345079	3	H
SINGLE SPEED FULL RATED FOR LOW VOLTAGE – 3 PHASE		
P6R62D3-186	¾	D
P6R62E3-187	1	N
P6R62F3-188	1 ½	F
P6R62G3-189	2	G
SINGLE SPEED FULL RATED – 3 PHASE		
P6EA6D36-204	¾	D
P6EA6E36-205	1	N
P6EA6F36-206	1 ½	F
P6EA6G36-207	2	G
P6E6H36-209	3	H
50HZ ENERGY EFFICIENT SINGLE-SPEED		
5P6R6D-209	¾	I
5P6R6E-210	1	J
5P6R6F-211	1 ½	K
5P6R6G-212	2	L
5P6R6H-213	3	M
50 HZ ENERGY EFFICIENT SINGLE SPEED – 3 PHASE		
5P6R6D-209	¾	I
5P6R6E3-210	1	J
5P6R6F3-211	1 ½	K
5P6R6G3-212	2	L
5P6R6H3-213	3	M

60HZ ENERGY EFFICIENT		
P6E6C-204L	½	C
P6R6C3-204	½	
P6E6D-205L	¾	D
P6EA6E-205L	1	
P6R6D-205L	¾	
P6R6D3-205	¾	
P6E6E-206L	1	E
P6EA6F-206L	1 ½	
P6R6E-206L	1	
P6E6F-207L	1 ½	F
P6EAAGF-216L	1 ¾	
P6EA6G-207L	2	
P6R6F-207L	1 ½	
P6R6F3-207	1 ½	
P6E6G-208L	2	G
P6EAA6G-208L	2 ½	
P6R6G-208L	2	
P6R6G3-208	2	
P6E6H-209L	3	H
P6R6H-209L	3	
P6R6H3-209	3	
P6R6E3-206	1	N
ENERGY EFFICIENT TWO SPEED 3450 RPM LOW SPEED		
P6RA6YF-206L (2 PHASE)	1 ½	A, E
P6RA6YG-207L (2 PHASE)	2	B, F

50 Hz Performance Curve



60 Hz Performance Curve

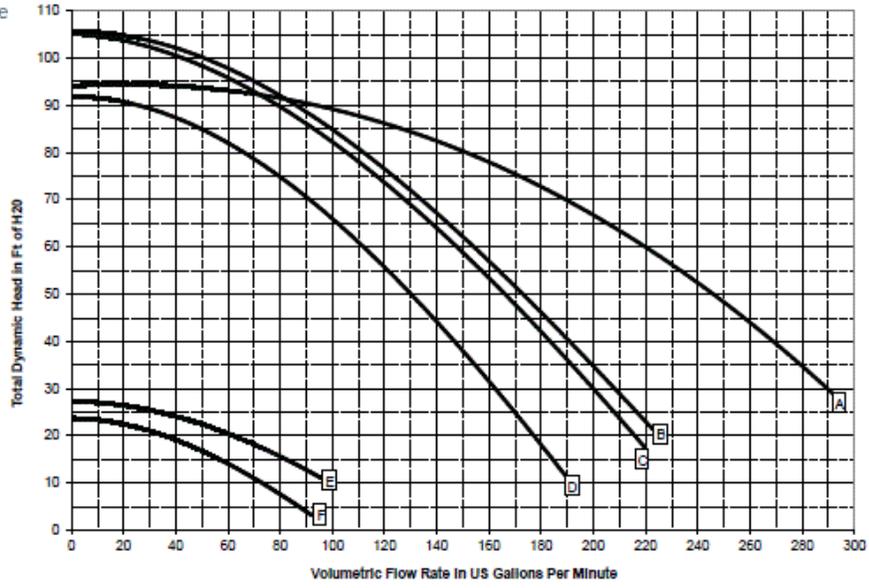


Sta-Rite Max-E-ProXF

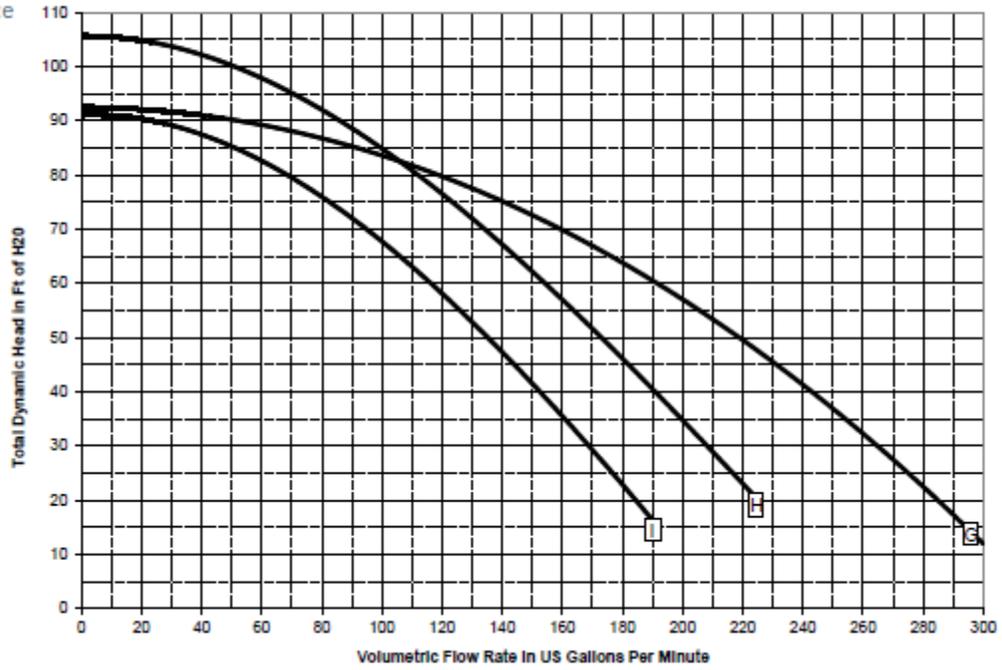


Pump Model	Product	HP	Pump Curve
XPE-8	023009	2	D
XPET-8	023032	2	
XP-8	023012	2	
XP-30	023027	2 ½	
XPE-30	023028	2 ½	
XPDS-8	023007	2	D, F
XPDS-30	023026	2	
XP-12	023013	3	C
XPE-12	023010	3	B
XPET-12	023033	3	
XPDS-12	023008	3	C, E
XPE-20	023011	5	A
XPET-20	022034	5	
XPK-8	023017	2	I
XPK-12	023018	3	H
XPK-20	023019	5	G

1 & 2-Speed
Performance
Curve



3 Phase
Performance
Curve

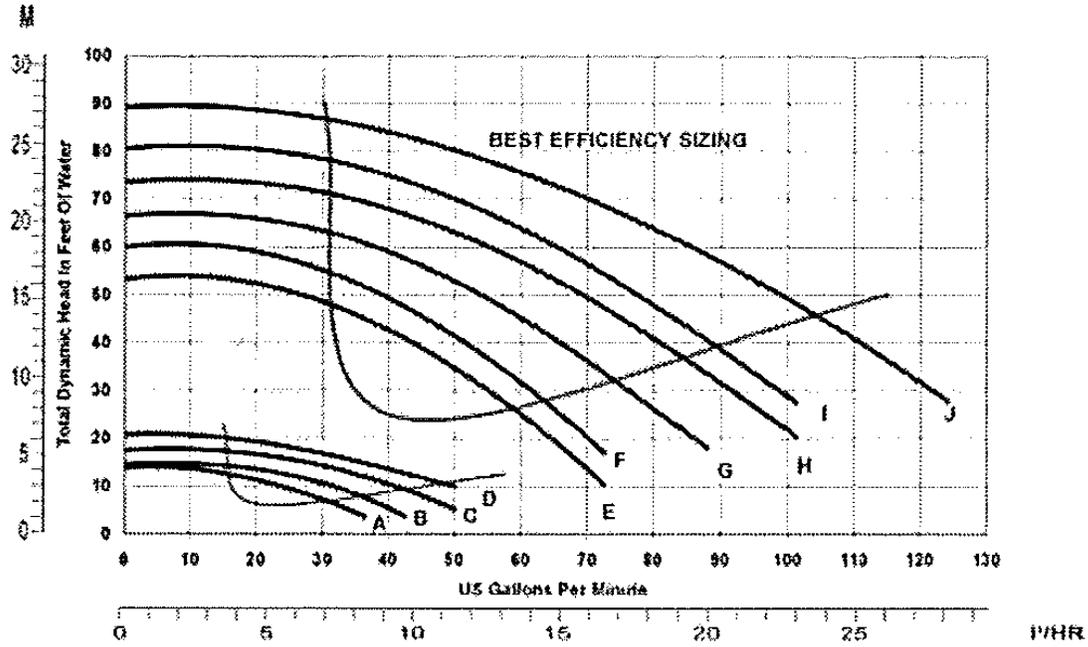


Sta-Rite Supermax



Pump Model	Product	HP	Pump Curve
N1-1/2AE-HP N1-1/2F-HP	PHK2E6C-100L PHK2RA6C-100L	½	E
N1-3/4AE-HP N1-3/4A-HP	PHK2E6D-101L PHK2RA6D-101L	¾	F
N1-A1-HP N1-1A-HP	PHK2E6E-102L PHK2RA6E-102L	1	G
N1-1 ½AE-HP N1-1 ½A-HP	PHK2E6F-103L PHK2RA6F-103L	1 ½	H
N1-2AE-HP N1-2A-HP	PHK2E6G-104L PHK2RA6G-104L	2	I
N1-2 ½AE-HP N1-2 ½A-HP	PHK2EAA6G-105L PHK2RAA6G-105L	2 ½	J
Two Speed			
N2-3/4A-HP	PHK2RA6CD-101L	¾	A, F
N2-1A-HP	PHK2RAY6E-102L	1	B, G
N2-1 ½A-HP	PHK2RAY6F-103L	1 ½	C, H
N2-2A-HP	PHK2RAY6G-104L	2	D, I

Performance Curves

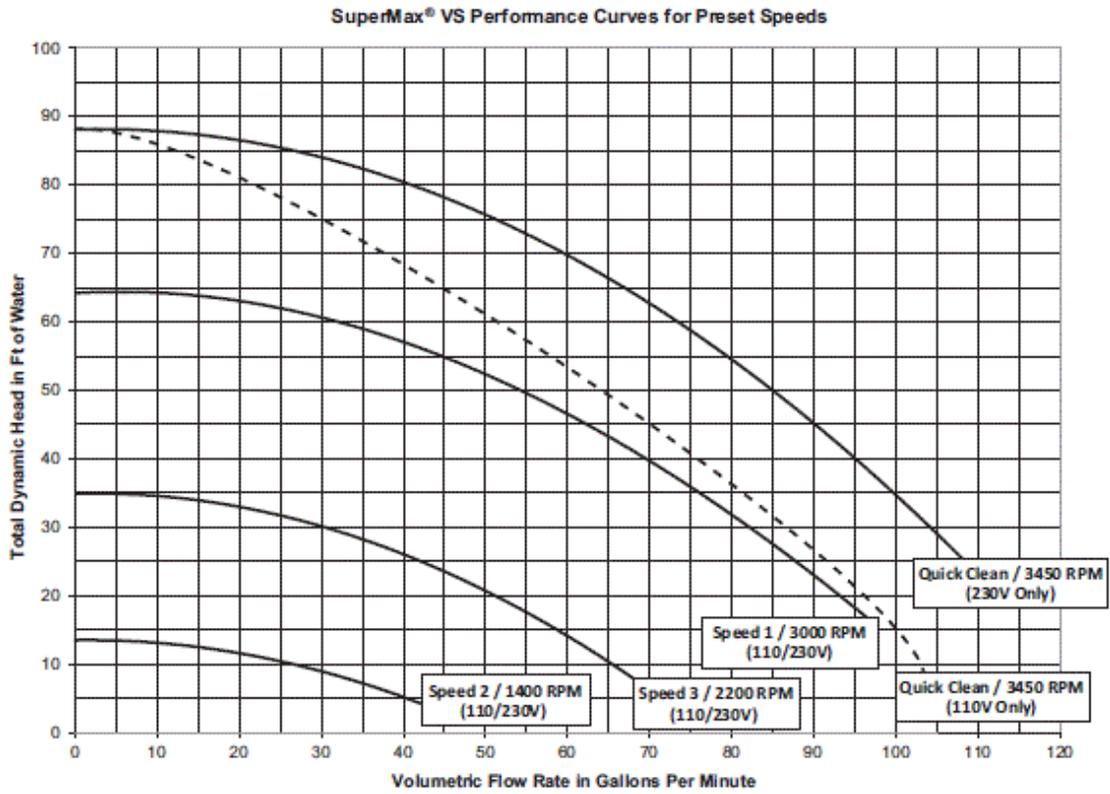


KEY

Curve Key	Part Number	HP	Curve Key	Part Number	HP
E	PHK2E6C	1/2	G	PHK2RA6E	1
F	PHK2E6D	3/4	H	PHK2RA6F	1 1/2
G	PHK2E6E	1	I	PHK2RA6G	2
H	PHK2E6F	1 1/2	J	PHK2RAA6G	2 1/2
I	PHK2E6G	2	E, F	PHK2RAY6D	3/4
J	PHK2EAA6G	2 1/2	B, G	PHK2RAY6E	1
E	PHK2RA6C	1/2	C, H	PHK2RAY6F	1 1/2
F	PHK2RA6D	3/4	D, I	PHK2RAY6G	2

Sta-Rite Supermax VS

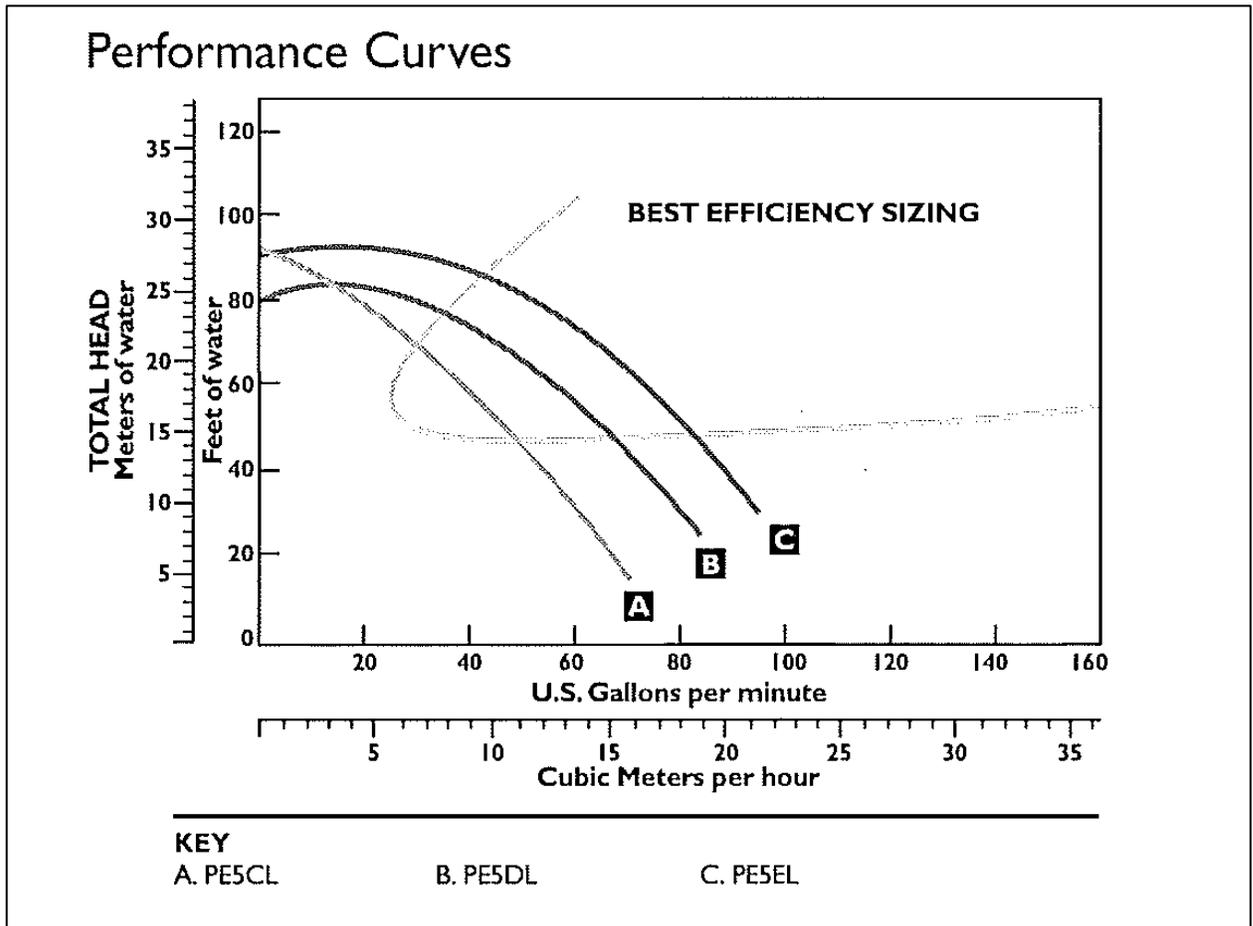
Sta-Rite (Currently Pentair)	Supermax VS 343000 343001	
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Sta-Rite Max-E-Glas



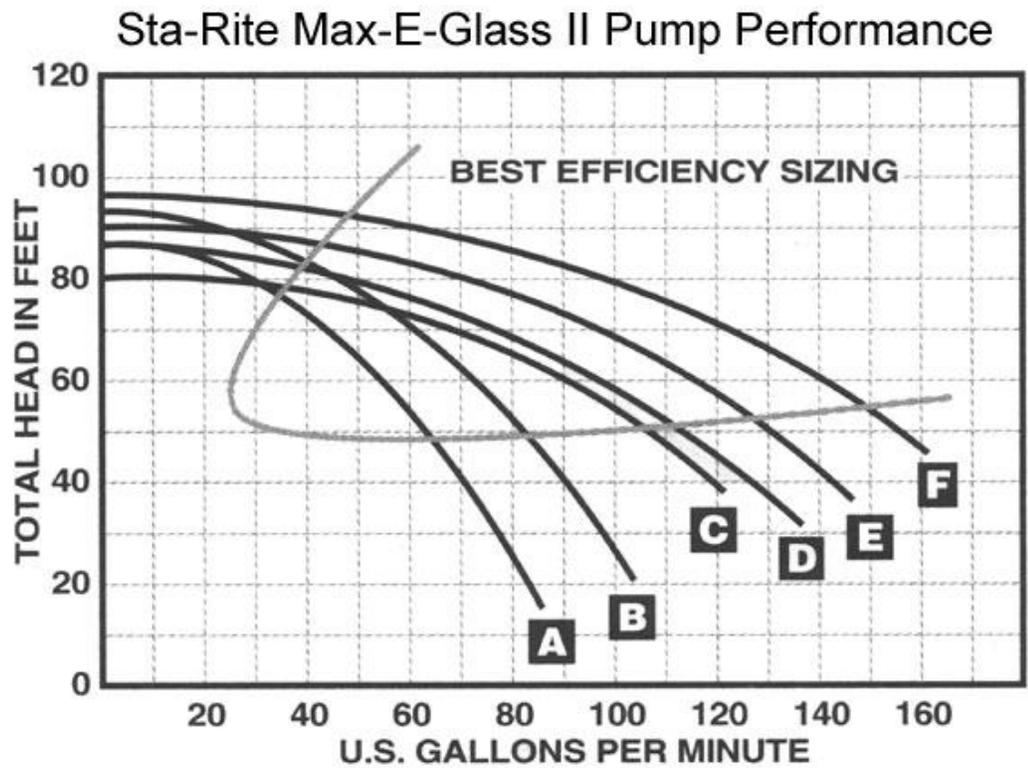
Pump	HP	Curve Key
PE5CL	1/2	A
PE5DL	3/4	B
PE5EL	1	C



Sta-Rite Max-E-Glas II



Pump	HP	Curve Key
P4E6DL/P4EA6EL	$\frac{3}{4}$	A
P4E6EL/P4EA6FL	1	B
P4EAA6FL	$1 \frac{3}{4}$	C
P4E6FL/P4EA6GL	$1 \frac{1}{2}$	D
P4E6GL/P4EAA6GL	2	E
P4E6HL	3	F



A. P4E6DL/P4EA6EL
B. P4E6EL/P4EA6FL

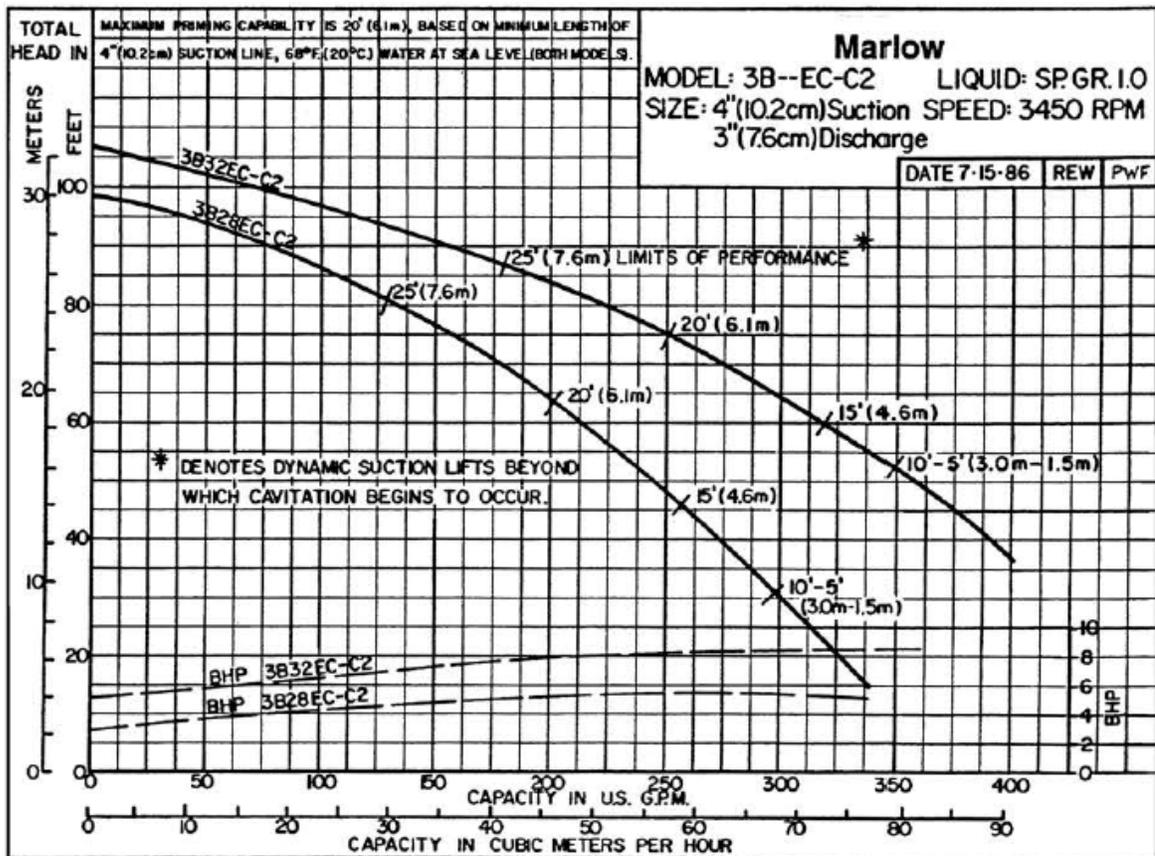
C. P4EAA6FL
D. P4E6FL/P4EA6GL

E. P4E6GL/P4EAA6GL
F. P4E6HL

Xylem/Goulds Water Technology Marlow Series 3B

<p>Xylem Marlow</p>	<p>Marlow 3B</p> <p>Available in 5 and 7 ½ hp sizes for pools up to 192,000-gallon capacity</p> <p>Maximum Capacity: 400 GPM</p> <p>Maximum Head: 107 ft</p>	
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PERFORMANCE CURVES-3B Series



Xylem/Goulds Water Technology Marlow Series 4SPC

<p>Xylem Marlow</p>	<p>Marlow 4SPC</p> <p>Available in 10, 15 and 20 hp sizes for pools with three phase motors and single phase 10 hp motor</p> <p>Multiple pump curves. Impeller based. View Website</p>	 A teal-colored, cast-iron pump with a horizontal motor on the right side. The pump has a large circular inlet on the left and a smaller outlet on top. It is mounted on a small base.
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Xylem/Goulds Water Technology Marlow Series Prime Line

<p>Xylem Marlow</p>	<p>BPrimeline R4</p> <p>Available in sizes up to 50 hp.</p> <p>Multiple pump curves. Impeller based. View Website</p>	 A teal-colored, cast-iron pump with a horizontal motor on the right side. The pump has a large circular inlet on the left and a smaller outlet on top. It is mounted on a small base.
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Xylem/Goulds Water Technology Marlow Series e-530

<p>Xylem Marlow</p>	<p>e-530</p> <p>Available in sizes up to 150 hp.</p> <p>Multiple pump curves. Impeller based. View Website</p>	 A teal-colored, cast-iron pump with a horizontal motor on the right side. The pump has a large circular inlet on the left and a smaller outlet on top. It is mounted on a small base.
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Xylem/Goulds Water Technology Marlow Series e-580

<p>Xylem Marlow</p>	<p>e-580</p> <p>Available in sizes up to 60 hp</p> <p>Multiple pump curves. Impeller based. View Website</p>	
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