





For 85 years and counting, Pentair Berkeley Pumps Continue to Deliver Better Performance!

Since 1937, when Berkeley Pumps were first used to irrigate the fertile fields of the San Joaquin Valley of Central California, the Berkeley name has stood for uncompromising reliability and superior performance.

We've remained true to our tradition by adding the superior technology of Pentair® Pentek® Motors and Controls to our MS and JP Series 4" submersible pumps. Pentek engineering raises the performance bar, making our submersible well product lines an even smarter choice for efficiency and quiet, dependable operation.

We never relax in our dedication to finding better ways to serve our customers.





MS Series 4" Submersibles feature the exceptional reliability of Pentek XE Series motors and draw up to 22% fewer amps!

3-wire XE Series motors installed with a Pentek SMC-CR Control Box draw up to 22% fewer amps!

Pentek XE Series motors feature patented toroidal capacitors to reduce vibration and noise.

Pumps fitted with XE Series motors are factory tested to meet or exceed CSA/CUS safety certifications.



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IMPORTANT NOTES

Specifications and/or materials are subject to change without notice. Dimensions are for estimating purposes only.

Products are tested and rated in accordance with Water Systems Council Standards.

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Product Selection Guide











PENTEK [®] MOTO	DRS AND CONTROLS				
PRODUCT TYPE	4" SUBMERSIBLE MOTORS	SUBMERSIBLE MOTOR CONTROLS	6" SUBMERSIBLE MOTORS	CONSTANT PRESSURE CONTROLLER	SINGLE-PHASE MOTOR PROTECTORS
APPLICATION	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Water systems for residential, industrial, commercial, multiple housing and farm clean water use	Residential, commercial and irrigation constant pressure systems	Water systems for residential, industrial, commercial, multiple housing and farm clean water use
DESCRIPTION	Single- and three-phase 4" submersible high thrust motor	Single-phase motor controls for submersible applications	Single- and three- phase 6" submersible motor	Constant pressure controller for below and above ground applications	Single-phase motor protectors for submersible applications
MATERIALS	Stainless steel construction	NEMA 3R Enclosure	Stainless steel and epoxy-coated cast iron	NEMA 1, NEMA 3R, and NEMA 4X Enclosures Available	NEMA 3R Enclosure
PERFORMANCE	1	I		ı	I
Capacity	N/A	N/A	N/A	N/A	N/A
Head	N/A	N/A	N/A	N/A	N/A
SUCTION/ DISCHARGE	N/A	N/A	N/A	N/A	N/A
HORSEPOWER	1/2 to 10 HP	1/2 to 15 HP	5 to 50 HP	1/2 to 150 HP	1/3 to 15 HP
SERIES	XE	SMC	XE-6	PID, XL	SPP

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PRODUCT TYPE	SELF-PRIMING SHALLOW WELL AND CONVERTIBLE JET	VERTICAL SINGLE & MULTI-STAGE AND SELF-PRIMING HORIZONTAL MULTI- STAGE DEEP WELL JET	SMALL, STRAIGHT CENTRIFUGAL	SELF-PRIMING CENTRIFUGAL	HIGH PRESSURE BOOSTER PUMPS
APPLICATION	Residential and general water supply systems booster, and light irrigation	General water supply, booster and light irrigation for 2", 3" and 4" or larger water wells	General purpose, process, booster and liquid transfer	Lawn sprinkling, light irrigation, general dewatering and sump drainage, liquid transfer	General purpose booster, warm and cold water wash down, cleaning
DESCRIPTION	Threaded connections Motor-drive Mechanical seal Back pull-out design Convertible to deep well use	Threaded connections Motor-drive Mechanical seals	Threaded connections Motor-drive, ODP and TEFC Mechanical seals – standard and high temperature Back pull-out design 4-position discharge	Fast priming Threaded connections Motor- and engine- drive Portable or permanent installation Mechanical seals Back pull-out design	Threaded connections Motor-drive Mechanical seals ODP and TEFC motors
MATERIALS	Cast iron or fiberglass reinforced thermoplastic with thermoplastic impellers	Cast iron with thermoplastic impellers	Cast iron with bronze (high temperature) or thermoplastic impellers	Cast iron or fiberglass reinforced thermoplastic with bronze, cast iron or thermoplastic impellers	Signature 2000° - Stainless steel or cast iron construction with thermo- plastic impellers/ diffusers
PERFORMANCE					
Capacity	To 45 GPM	To 55 GPM	To 260 GPM	To 240 GPM	To 40 GPM
Head	To 160 TDH/ft.	To 325 TDH/ft.	To 140 TDH/ft.	To 160 TDH/ft.	To 690 TDH/ft.
SUCTION/ DISCHARGE	1" to 1-1/4" 3/4" to 1"	1-1/4" suction, 1" drive 1"	1-1/4" to 2-1/2" 1" to 2"	1" to 3" 1" to 2-1/2"	3/4" to 1-1/4" 1" to 1-1/2"
HORSEPOWER	1/3 to 1-1/2 HP	1/2 to 2 HP	1/3 to 5 HP	1/2 to 5 HP	1/2 to 3 HP
SERIES	SN, HN, FN, PN, SL, HL, FL, PL	SSJ, MS, HMS	J/JB, CC	D, DS3, EDD, DPC, PD	HP, HPS

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		WATER SYSTEMS TANKS
6" STAINLESS STEEL SUBMERSIBLE TURBINE	4" SUBMERSIBLE	PRO-SOURCE° COMPOSITE PRESSURIZED FIBREWOUND
General water supply, irrigation, booster, sump, circulation, dewatering	General water supply, booster, sump, circulation, and irrigation	General water storage and transfer
Crimped and threaded connections Completely submerged sealed motor coupled to pump	Threaded connections Completely submerged sealed motor 2 and 3 wire	Pre-pressurized composite well tank CSA Classified to ANSI/NSF 61 Field serviceable
All stainless steel construction	Signature 2000° – Stainless steel and composite construction with thermoplastic impellers/diffusers 70 GPM Series – Cast iron bowls with thermoplastic impellers 75 GPM and 90 GPM High-Flo Series	Pressure vessel: polyethylene Exterior: continuous, overlapping fiberglass strands, sealed with high-grade epoxy resin, then oven-cured
To 365 GPM To 1400 TDH/ft.	To 125 GPM To 1900 TDH/ft.	Physical Capacity: 14 - 119 gallons Drawdown: 5.3 - 43.8 gallons Maximum operating pressure: 125 PSI
3" to 4"	1-1/4" to 2"	1" to 1-1/4" NPT
1 to 60 HP	1/2 to 10 HP	N/A
Berkeley	Signature 2000 Series, 70 GPM Series and 90 GPM Series	Pro-Source Composite

Stainless steel, 5 and 7 GPM TrimLine™





Precision-engineered, high-quality, rugged Stainless Steel Series Pumps deliver efficient, dependable performance even in rough, aggressive water.

The TrimLine" 5 and 7 GPM Series Pumps are 3-3/4" maximum 0.D. Heads to 1,150 feet and capacities to 10.5 GPM. Built to deliver long-term, trouble-free service. Floating impeller design resists sand and reduces sand locking. These pumps feature the proven SignaSeal" staging system.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Stainless steel **Discharge Bearing:** Nylatron*

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with

stainless steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

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Intake: Stainless steel

Intake Screen: Stainless steel
Cable Guard: Stainless steel
Agency Listings: CSA
Check Valve: Acetal

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant 300 grade stainless steel for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive selflubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant 300 grade stainless steel for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Heavy-walled corrosion-resistant 300 grade stainless steel. Threaded for easy servicing.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade

stainless steel.

Check Valve: Durable internal spring-loaded

check valve. **Cable Guard:** Corrosion-resistant stainless

steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Corrosion-proof

stainless steel.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.





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Stainless steel, 5 and 7 GPM TrimLine™

						ASSEM	1BLED PU	MP	P	UMP END		мот	OR	CONTRO	L BOX
PM	MOTOR TYPE	HP	STGS.	PH†	VOLT	CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT LBS.*
		1/2	14	1	115	B5P4MS05121	28	28	L5P4CMGS	18	12	P42B0005A1	19		'
		1/2	14	1	230	B5P4MS05221	28	28	L5P4CMGS	18	12	P42B0005A2	19		
	2 WIRE	3/4	19	1	230	B5P4MS07221	33	34	L5P4DMGS	22	15	P42B0007A2	23		
		1	22	1	230	B5P4MS10221	37	39	L5P4EMGS	26	17	P42B0010A2	25		
		1-1/2	30	1	230	B5P4MS15221	47	51	L5P4FMGS	32	21	P42B0015A2	29		
		1/2	13	1	115	B5P4MS05131	27-1/2	28	L5P4CMGS	18	12	P43B0005A1	19	SMC-IR0511	4
		1/2	14	1	230	B5P4MS05231	28	28	L5P4CMGS	18	12	P43B0005A2	18	SMC-CR0521	4
5		3/4	19	1	230	B5P4MS07231	33	34	L5P4DMGS	22	15	P43B0007A2	21	SMC-CR0721	4
		1	22	1	230	B5P4MS10231	38	39	L5P4EMGS	26	17	P43B0010A2	23	SMC-CR1021	4
	3 WIRE	1-1/2	30	1	230	B5P4MS15231	46	48	L5P4FMGS	32	21	P43B0015A2	27	SMC-CR1521	7
	3 WIKE	1-1/2	30	3	230		,		L5P4FMGS	32	21	P43B0015A3	23		
		1-1/2	30	3	460				L5P4FMGS	32	21	P43B0015A4	23		
		2	38	1	230				L5P4GMGS	37-3/4	25	P43B0020A2	31	SMC-CR2021	7
		2	38	3	230				L5P4GMGS	37-3/4	25	P43B0015A3	23		
		2	38	3	460				L5P4GMGS	37-3/4	25	P43B0015A4	23		
		1/2	11	1	115	B7P4MS05121	26	27	L7P4CMGS	16	11	P42B0005A1	19		
		1/2	11	1	230	B7P4MS05221	26	27	L7P4CMGS	16	11	P42B0005A2	19		
	2 WIRE	3/4	15	1	230	B7P4MS07221	30	32	L7P4DMGS	19	13	P42B0007A2	23		
		1	18	1	230	B7P4MS10221	34	37	L7P4EMGS	22	15	P42B0010A2	25		
		1-1/2	22	1	230	B7P4MS15221	43	47	L7P4FMGS	28	17	P42B0015A2	29		
		1/2	10	1	115	B7P4MS05131	25-1/2	27	L7P4CMGS	16	11	P43B0005A1	19	SMC-IR0511	4
		1/2	11	1	230	B7P4MS05231	26	27	L7P4CMGS	16	11	P43B0005A2	18	SMC-CR0521	4
		3/4	15	1	230	B7P4MS07231	30	32	L7P4DMGS	19	13	P43B0007A2	21	SMC-CR0721	4
,		1	18	1	230	B7P4MS10231	34	37	L7P4EMGS	22	15	P43B0010A2	23	SMC-CR1021	4
7		1-1/2	22	1	230	B7P4MS15231	42	44	L7P4FMGS	28	17	P43B0015A2	27	SMC-CR1521	7
		1-1/2	22	3	230				L7P4FMGS	27-1/4	17	P43B0015A3	23		
	3 WIRE	1-1/2	22	3	460				L7P4FMGS	27-1/4	17	P43B0015A4	23		
		2	28	1	230				L7P4GMGS	32-1/2	20	P43B0020A2	31	SMC-CR2021	7
		2	28	3	230				L7P4GMGS	32-1/2	20	P43B0020A3	27		
		2	28	3	460				L7P4GMGS	32-1/2	20	P43B0020A4	27		
		3	36	1	230				L7P4HMGS	39-1/2	24	P43B0030A2	37	SMC-CR3021	8
		3	36	3	230				L7P4HMGS	39-1/2	24	P43B0030A3	37		
		3	36	3	460				L7P4HMGS	39-1/2	24	P43B0030A4	37		

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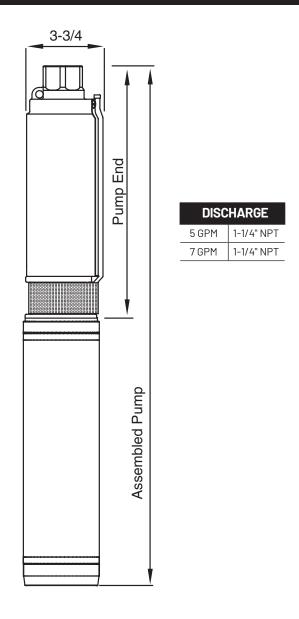
^{*}Length and Weight are approximate.

TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter is 3-7/8".

 $NOTE: Motor, Control \ Box \ or \ Magnetic \ Starter \ must \ be \ ordered \ separately, if \ ordering \ pump \ end \ only. \ Discharge \ NPT \ is \ 1-1/4".$

Stainless steel, 5 and 7 GPM TrimLine $^{\text{TM}}$

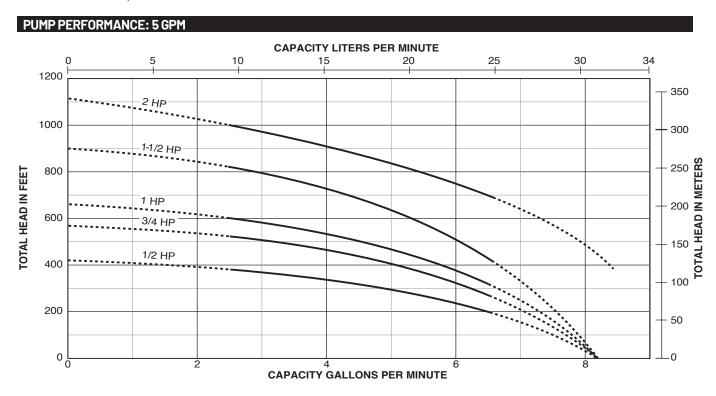
OUTLINE DIMENSIONS

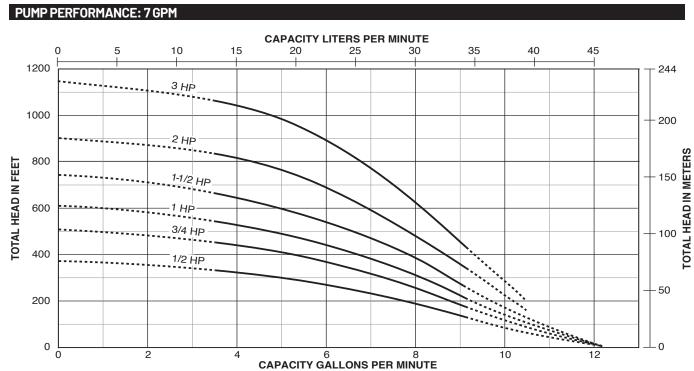


For dimensions, refer to Ordering Information table.

Dimensions (in inches) are for estimating purposes only.

Stainless steel, 5 and 7 GPM TrimLine™





Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source * tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless steel, 5 and 7 GPM TrimLine™

		IS PI													E(C			HINI														SHUT	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200						320			380	400	450	500	550	600	650	700	750	800	850	FEET	PSI
	0	_	-	-	-	-	-	-	7.3	7.0	6.8	6.5	6.2	5.9	5.6	5.2	4.9	4.4	4.0	3.5	2.9	2.1				-	-	1700	700				101
	20	_	_	_	-	7.5	7.2	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.7	4.3	3.9	3.3	2.7	1.7													
	30	-	-	_	7.4	7.2	6.9	6.6	6.4	6.1	5.7	5.4	5.1	4.7	4.2	3.8	3.2	2.5	1.5														
	40	-	-	7.4	7.1	6.9	6.6	6.3	6.0	5.7	5.4	5.0	4.6	4.2	3.7	3.1	2.4	1.3															
1/2	50	-	7.4	7.1	6.8	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.6	3.0	2.3	1.0															421	182
	60	7.3	7.1	6.8	6.5	6.2	5.9	5.6	5.3	4.9	4.5	4.0	3.5	2.9	2.1																		
	70	7.0	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.4	4.0	3.4	2.8	2.0																			
	80	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.3	3.9	3.4	2.7	1.8																				
	0	-	-	-	-	_	-	-	-	-	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.2	3.2	1.8								
	20	-	-	-	-	_	-	-	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.9	5.7	5.4	5.1	4.9	4.6	4.3	3.3	2.0									
	30	-	-	-	-	<u> </u>	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.6	5.4	5.1	4.8	4.5	4.2	3.9	2.8										
3/4	40	-	-	-	-	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.8	5.6	5.3	5.1	4.8	4.5	4.2	3.8	3.4	2.1									571	247
J/ 4	50	-	-	-	7.4	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.0	4.7	4.4	4.1	3.7	3.3	2.9									Ш	3/1	27/
	60	-	-	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.7	4.4	4.1	3.7	3.3	2.8	2.2											
	70	-	7.4	7.2	7.0	6.8	6.6	6.4	6.2	5.9	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.6	3.2	2.7	2.1	1.2											
	80	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9	5.7	5.4	5.2	4.9	4.6	4.3	3.9	3.6	3.1	2.6	2.0													
	0	-	-	-	-	<u> </u>	-	-	-	-	_	7.5	7.3	7.1	7.0	6.8	6.6	6.4	6.3	6.1	5.9	5.7	5.1	4.5	3.8	2.8	1.2						
	20	-	-	-	-	<u> </u>	-	-	-	7.4	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.5	3.8	2.9	1.4							
	30	-	-	-	-	-	-	7.5	7.4	7.2	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.2	3.4	2.3								
1	40	-	-	-	-	-	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.6	3.9	3.0	1.6							661	286
•	50	-	-	-	-	7.5	7.3	7.2	7.0	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.3	3.5	2.4								001	
	60	_	_	_	7.5	7.3	7.2	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.8	4.5	4.2	3.9	3.1	1.7							Ш		
	70	-	-	7.4	7.3	7.1	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.6	5.4	5.2	5.0	4.7	4.5	4.2	3.9	3.6	2.5	_							Ш		
	80	-	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.1	1.9										
	0	-	-	_	-	 -	-	-	-	-	_	-	-	-	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.4	6.0	-	5.2	4.8	4.3	3.8	3.1	2.2		
	20	_	_	_	-	 -	-	-	-	-	_	-	7.5	7.4	7.3	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.0	5.7	5.3	4.8	4.3	3.8	3.2	2.3			
	30	-	_	_	-	<u> </u>	-	-	-	-	-	7.5	7.4	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.2	5.9	5.5	5.1	4.6	4.1	3.5	2.8	1.8			
1-1/2	40	-	-	-	-	-	-	77	7.0	-	7.5	7.3	7.2	7.1	7.0	6.9	6.7	6.6	6.5	6.3	6.2	6.1	5.7	5.3	4.9	4.4	3.8	3.2	2.4		Н	901	390
	50	-	-	-	-	-	-	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.0	5.9	5.5	5.1	4.6	4.1	3.6	2.9	1.9		Н		
	60	_	-	-	-	-	7.5	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.9	5.7	5.3	4.9	4.4	3.9	3.3	2.5			$\vdash \vdash$		
	70	_	_	_	_	7.5	7.5	7.4	7.3	7.2	7.1 6.9	6.9	6.8	6.7	6.5	6.4	6.3	6.0	6.0 5.8	5.8	5.7	5.5	5.1 4.9	4.7	3.9	3.6	2.9	2.0		-	$\vdash \vdash$		
	80	-	_	_	_	7.5	7.4	7.3	1.2	7.0	0.9	0.0	0.7	0.0	0.4	0.5	0.1	0.0	0.0	0.7	0.0	0.4	4.9	4.0	ე.ყ	0.0	2.0	1.0				CIIII.	T OFF
													ı	PUM	IPIN	G DI	EPTI	H IN	FEE	Т													T-OFF EAD
HP	PSI	20	40	60	0 8	30	100	125	150	175	200	25	0 30	00 3	50 4	+00	450	500	550	60	0 6	50 7	00	750	800	850	900	950	0 10	00	1050	FEET	PSI
	0	-	-	1-		-	-	-	_	_	-	<u> </u>	1-	-	-	-	-	7.0	6.8	_	_	_	_	$\overline{}$	5.0	4.5	4.0	3.3		.4	1.5		
	20	-	_	_		-	-	-	-	-	_	_	_	-	-	-	7.0	6.8	6.5	6.5	2 5	.9 !	5.5	5.0	4.5	4.0	3.3	2.4	1	.5			
2	30	-	-	<u> </u>		-	-	-	-	_	-	_	<u> </u>	. [-	7.2	6.9	6.6	6.3	6.0) 5	.7 !	5.2	4.8	4.3	3.7	2.9	2.1	1	.1		1120	485
2	40	-	-	-		-	-	-	_	_	-	<u> </u>	_	\rightarrow	_	7.0	6.8	6.5	+	_	-	-	\rightarrow	4.5	4.0	3.3	2.4	+	-			1120	405
	50	-	-	-	•	-	-	-	-	-	-	<u> </u>	_	_	_	6.9	6.6	6.4	+	_	_	-	-		3.9	3.1	2.2	1.2					
	60	-	-	-		-	-	-	-	-	-	-	7.	3	7.1	6.8	6.5	6.2	6.0	5.1	6 5	.1 4	4.6	4.1	3.2	2.5	1.6						

 ${\tt CAUTION:D0\,NOT\,use\,pump\,at\,flow\,rates\,indicated\,by\,the\,symbol\,'-'.\,To\,do\,so\,can\,cause\,premature\,failure\,of\,unit.\,Pump\,warranty\,is\,void\,when\,failure\,occurs\,under\,these\,conditions.}$

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 $\label{thm:condition} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB4923WS

Stainless steel, 5 and 7 GPM TrimLine™

7GAI	LON	IS P	ERI	MIN	UTE				PU	MP I	PER	FOR	1AM	ICE (Сар	acity	in g	allor	ıs pe	r mir	nute)								
													PUM	PING	DEF	РΤΗΙ	N FE	ET											SHU1 HE	T-OFF AD
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	FEET	PSI
	0	-	11.0	10.7	10.4	10.0	9.7	9.3	8.9	8.6	8.1	7.7	7.2	6.7	6.2	5.6	5.0	4.2	3.3											
	20	10.6	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.6	7.1	6.6	6.0	5.4	4.7	3.9	2.9													
	30	10.2	9.9	9.5	9.2	8.8	8.4	7.9	7.5	7.0	6.5	5.9	5.3	4.6	3.8	2.7														
1/2	40	9.8	9.5	9.1	8.7	8.3	7.9	7.4	6.9	6.4	5.9	5.2	4.5	3.7	2.5														372	161
1/ 2	50	9.4	9.0	8.6	8.2	7.8	7.3	6.9	6.3	5.8	5.1	4.4	3.5	2.3															0,2	101
	60	9.0	8.6	8.2	7.7	7.3	6.8	6.2	5.7	5.0	4.3	3.3	2.0																	
	70	8.5	8.1	7.7	7.2 6.6	6.7	6.2 5.5	5.6	4.9	4.1	3.2																			
	08	8.0	7.6	7.1	10.6	6.1	10.2	9.9	4.0 9.6	3.0 9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.9	6.5	C 1	5.7	5.2	3.8							
	20	10.8	10.6	10.3	10.6	9.8	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.8	6.4	6.0	5.5	6.1 5.0	4.5	3.9	3.0							
	30	10.5	10.3	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.7	6.3	5.9	5.5	5.0	4.4	3.8	3.0								
	40	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.6	6.3	5.8	5.4	4.9	4.3	3.7	2.9	0.0								
3/4	50	10.0	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.2	5.8	5.3	4.8	4.2	3.6	2.8	2.0								507	220
	60	9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.3	6.9	6.5	6.1	5.7	5.2	4.7	4.1	3.5	2.6											
	70	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.6	4.0	3.3	2.5												
	80	9.0	8.8	8.5	8.2	7.8	7.5	7.2	6.8	6.4	6.0	5.6	5.1	4.5	3.9	3.2	2.3													
	0	-	-	11.0	10.8	10.6	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.6	5.8	4.8	3.5					
	20	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.2	9.0	8.7	8.5	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.2	5.8	4.9	3.6						
	30	10.7	10.5	10.3	10.1	9.8	9.6	9.4	9.2	8.9	8.7	8.5	8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.1	5.8	5.4	4.3	2.8						
1	40	10.4	10.2	10.0	9.8	9.6	9.4	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.4	7.1	6.8	6.4	6.1	5.7	5.3	4.9	3.7						608	263
•	50	10.2	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.7	5.3	4.9	4.4	3.0						000	200
	60	10.0	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.3	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.3	3.8								
	70	9.7	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.7	4.3	3.7	3.1								
	80	9.5	9.2	9.0	8.8	8.5	8.3	8.0	7.7	7.5	7.2	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.2	3.6	3.0	2.1	7.4	0.5		F.0		0.7		
	0	11.0	10.0	11.0	10.9	10.7	10.5	10.4	10.2	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.3	8.1	7.9	7.7	7.1	6.5	5.8	5.0	4.0	2.7		
	20 30	11.0	10.8	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9 7.6	7.6 7.4	7.4	7.2	6.5	5.8	5.0	4.1 3.5	2.8			
	40	10.8	10.6	10.5	10.3	9.9	9.8	9.8	9.6	9.4	9.0	9.1	8.9	8.7	8.2	8.0	8.0 7.8	7.8	7.3	7.4	6.8	6.9	6.2 5.9	5.5	4.6	2.9				
1-1/2	50	10.4	10.4	10.3	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.1	6.8	6.5	6.3	5.5	4.7	3.6	2.1			744	322
	60	10.4	10.2	9.9	9.7	9.5	9.3	9.2	9.0	8.8	8.6	8.4	8.2	7.9	7.7	7.5	7.3	7.0	6.8	6.5	6.2	5.9	5.2	4.2	3.0	2.1				
	70	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5	6.2	5.9	5.6	4.8	3.7	2.3					
	80	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.9	6.7	6.4	6.1	5.9	5.5	5.2	4.3	3.1	2.0					
								•					PUM	PING	DEF	PTH I	N FE	ET						•						T-OFF
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	ลบบ	850	900	950	1000	1050	1100	FEET	PSI
	0	_	-	_	_	-	10.9	10.6	10.3	10.1	9.7	9.4	9.0	8.7	8.4	8.0	7.4	7.1	6.4	5.8	5.0	4.2	2.8	300	330	1000	1030	1100	1	1 01
	20	-	_	_	10.8	10.6	-	10.1	_	-		9.1	8.7	8.4	8.0	7.6	7.1	6.6	_	5.1	4.3	3.8	2.0							
	30	_	_	10.7		_	_	_	9.7	9.5	_	8.9	_	8.3	7.9	7.4	6.9	6.2	5.5	4.7	_								000	
2	40	10.9	10.7	10.5		10.2	10.0	9.8	9.6	9.4	9.1	8.7	8.5	8.1	7.7	7.2	6.6	5.9	5.2	4.2	-								900	389
	50			10.3					9.4			8.7		7.9	7.4	6.9	6.3	5.5	4.8	4.0	2.3									
	60			10.1		-	9.6	-	9.3		8.8	8.5		7.7	7.2	6.7	6.0	5.8	4.5	3.3	77	0.0	0 /		F 2	/ 7	7.0	0.5		
	20	_	_	_	_	-	10.0	10.6	10.8			9.9	9.5	9.3	9.0		8.6	8.3	8.0 7.7	7.6	7.3 6.9			5.7	5.2 4.8	4.7	3.9 3.1	2.5		
	30	_	_	_	_	10.9			10.4			9.5		8.9	8.7	8.4	8.1	7.9	7.4	7.4				5.8	4.3	4.0 3.5	U.I		1	
3	40	_	_	_				10.3				9.4	_	8.8	8.6	8.3	8.1	7.8	7.4	7.0	6.5			4.9		3.2			1150	498
	50	-	_	10.8					10.0			9.2		8.7	8.5	8.1	7.9	7.5	7.1	6.6				4.4	3.6]	
	60	11.0	10.7	10.6	10.4	10.3	10.0	10.0				9.1		8.7	8.4	8.1	7.8	7.4	7.0	6.6	5.9			4.2	3.3]	

 ${\tt CAUTION:D0\,NOT\,use\,pump\,at\,flow\,rates\,indicated\,by\,the\,symbol\,'-'.\,To\,do\,so\,can\,cause\,premature\,failure\,of\,unit.\,Pump\,warranty\,is\,void\,when\,failure\,occurs\,under\,these\,conditions.}$

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 $\label{thm:condition} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB4923WS

Stainless Steel









Precision-engineered, high-quality, rugged Stainless Steel Series Pumps deliver efficient, dependable performance even in rough, aggressive water. Heads to 1,950 feet and capacities to 65 GPM. Built to deliver long-term, trouble-free service. Floating impeller design resists sand and reduces sand locking. These pumps feature the proven SignaSeal® staging system.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Diameter: 3-7/8"

Discharge: Stainless steel **Discharge Bearing:** Nylatron*

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

14

steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

Intake: Stainless steel

Intake Screen: Polypropylene Cable Guard: Stainless steel

Check Valve: Acetal Agency Listings: CSA

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant 300 grade stainless steel for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Self-lubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant 300 grade stainless steel for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Highest grade, heavy-walled corrosion-resistant stainless steel. Threaded for easy servicing.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

Check Valve: Durable internal spring-loaded check valve.

Cable Guard: Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Corrosion-proof.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.

†Except where noted.

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Stainless Steel

			RMATIC			ACCE	אטן בט טיי	MD	-	UMP END		мот	'OB	CONTRO	I DOV
							MBLED PU							CONTRO	
GPM	MOTOR Type	HP	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS'
		1/2	8	1	115	B10P4MS05121	23	28	L10P4CMGS	13	9	P42B0005A1	19		
		1/2	8	1	230	B10P4MS05221	23	28	L10P4CMGS	13	9	P42B0005A2	19		
	2 WIRE	3/4	11	1	230	B10P4MS07221	26	31	L10P4DMGS	15	10	P42B0007A2	23		
		1	13	1	230	B10P4MS10221	29	35	L10P4EMGS	17	11	P42B0010A2	25		
		1-1/2	17	1	230	B10P4MS15221	35	42	L10P4FMGS	20	12	P42B0015A2	29		
		1/2	7	1	115	B10P4MS05131	22-3/4	27-1/2	L10P4CMGS	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	8	1	230	B10P4MS05231	23	28	L10P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
		3/4	11	1	230	B10P4MS07231	26	31	L10P4DMGS	15	10	P43B0007A2	21	SMC-CR0721	4
		1	13	1	230	B10P4MS10231	29	35	L10P4EMGS	17	11	P43B0010A2	23	SMC-CR1021	4
		1-1/2	17	1	230	B10P4MS15231	34	42	L10P4FMGS	20	12	P43B0015A2	27	SMC-CR1521	7
10**		1-1/2	17	3	230				L10P4FMGS	19-3/4	12-1/2	P43B0015A3	23		
		1-1/2	17	3	460				L10P4FMGS	19-3/4	12-1/2	P43B0015A4	23		
		2	22	1	230				L10P4GMGS	22	13-3/4	P43B0020A2	31	SMC-CR2021	7
	3 WIRE	2	22	3	230				L10P4GMGS	22	13-3/4	P43B0020A3	23		
		2	22	3	460				L10P4GMGS	22	13-3/4	P43B0020A4	23		
		3	30	1	230				L10P4HMGS	22	16-3/4	P43B0030A2	40	SMC-CR3021	8
		3	30	3	230				L10P4HMGS	28	16-3/4	P43B0030A3	32		
		3	30	3	460				L10P4HMGS	28	16-3/4	P43B0030A4	32		
		5	50	1	230				L10P4JMGS	43-1/2	25-1/2	P43B0050A2	70	SMC-CR5021	12
		5	50	3	230				L10P4JMGS	43-1/2	25-1/2	P43B0050A3	55		
		5	50	3	460				L10P4JMGS	43-1/2	25-1/2	P43B0050A4	55		
		1/2	6	1	115	B15P4MS05121	23	27	L15P4CMGS	13	9	P42B0005A1	19		
		1/2	6	1	230	B15P4MS05221	23	27	L15P4CMGS	13	9	P42B0005A2	19		
	2 WIRE	3/4	8	1	230	B15P4MS07221	26	31	L15P4DMGS	15	10	P42B0007A2	23		
		1	10	1	230	B15P4MS10221	30	35	L15P4EMGS	17	11	P42B0010A2	25		
		1-1/2	12	1	230	B15P4MS15221	36	43	L15P4FMGS	21	13	P42B0015A2	29		
		1/2	5	1	115	B15P4MS05131	22-1/4	27	L15P4CMGS	12-1/4	9	P43B0005A1	19	SMC-IR0511	4
		1/2	6	1	230	B15P4MS05231	23	27	L15P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
		3/4	8	1	230	B15P4MS07231	26	31	L15P4DMGS	15	10	P43B0007A2	23	SMC-CR0721	4
		1	10	1	230	B15P4MS10231	30	35	L15P4EMGS	17	11	P43B0010A2	25	SMC-CR1021	4
5**		1-1/2	12	1	230	B15P4MS15231	34	41	L15P4FMGS	21	13	P43B0015A2	29	SMC-CR1521	7
		1-1/2	12	3	230				L15P4FMGS	20-1/4	13	P43B0015A3	23		
	3 WIRE	1-1/2	12	3	460				L15P4FMGS	20-1/4	13	P43B0015A4	23		
	_	2	15	1	230				L15P4GMGS	23-1/2	15	P43B0020A2	31	SMC-CR2021	7
		2	15	3	230				L15P4GMGS	23-1/2	15	P43B0020A3	23		
		2	15	3	460				L15P4GMGS	23-1/2	15	P43B0020A4	23	1	
		3	22	1	230				L15P4HMGS	31-1/4	18	P43B0030A2	40	SMC-CR3021	7
		3	22	3	230				L15P4HMGS	31-1/4	18	P43B0030A3	32		1
		3	22	3	460				L15P4HMGS	31-1/4	18	P43B0030A4	32		

[†]For all Pentek XE series three-phase motor options, see page 65.

 $^{^{*}}$ Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

NOTE: On 2 HP and larger - Pump, Motor, Control Box or Magnetic Starter must be ordered separately.
†Check Valve not included on 5 HP, 7-1/2 HP and 10 HP models. Check Valve not included on 50 GPM models.
TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter on all models is 3-7/8".

Stainless Steel

			MATIO			4005	MDI ED DU	MD		חוושף ביים		МОТ	'OD	CONTR	OL BOY
							MBLED PU			PUMP END		МОТ		CONTR	
GPM	MOTOR TYPE	НР	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
		3/4	6	1	230	B20P4MS07221	24	30	L20P4DMGS	13	9	P42B0007A2	23		
	2 WIRE	1	7	1	230	B20P4MS10221	28	34	L20P4EMGS	15	10	P42B0010A2	25		
		1-1/2	10	1	230	B20P4MS15221	32	39	L20P4FMGS	17	11	P42B0015A2	29		
		3/4	6	1	230	B20P4MS07231	24	30	L20P4DMGS	13	9	P43B0007A2	23	SMC-CR0721	5
		1	7	1	230	B20P4MS10231	28	34	L20P4EMGS	15	10	P43B0010A2	25	SMC-CR1021	5
		1-1/2	10	1	230	B20P4MS15231	31	39	L20P4FMGS	17	11	P43B0015A2	29	SMC-CR1521	7
		1-1/2	9	3	230				L20P4FMGS	16-3/4	10-3/4	P43B0015A3	23		
		1-1/2	9	3	460				L20P4FMGS	16-3/4	10-3/4	P43B0015A4	23		
		2	12	1	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A3	32		
20**		2	12	3	460				L20P4GMGS	20-1/4	12-1/2	P43B0020A4	32		
	3 WIRE	3	17	1	230				L20P4HMGS	25-3/4	15	P43B0030A2	40	SMC-CR3021	7
		3	17	3	230				L20P4HMGS	25-3/4	15	P43B0030A3	32		
		3	17	3	460				L20P4HMGS	25-3/4	15	P43B0030A4	32	1	
		5	28	1	230				L20P4JMGS	38	21	P43B0050A2	70	SMC-CR5021	8
		5	28	3	230				L20P4JMGS	38	21	P43B0050A3	55		1
		5	28	3	460				L20P4JMGS	38	21	P43B0050A4	55		
		7-1/2	40	3	230				L20P4KMGS	53-3/4	30	P43B0075A3	70		
		7-1/2	40	3	460				L20P4KMGS	53-3/4	30	P43B0075A4	70		
		10	54	3	460				L20P4LMGS	71	41	P43B0100A4	78		
		1	5	1	230	B30P4MS10221	26-1/2	35	L30P4EMGS	14	9-3/4	P42B0010A2	25		
	2 WIRE	1-1/2	6	1	230	B30P4MS15221	30-1/2	39	L30P4FMGS	15-1/4	10-3/4	P42B0015A2	29		
		1	5	1	230	B30P4MS10231	26-1/2	35	L30P4EMGS	14	10	P43B0010A2	25	SMC-CR1021	5
		1-1/2	6	1	230	B30P4MS15231	29	39	L30P4FMGS	15-1/4	11	P43B0015A2	29	SMC-CR-1521	7
		1-1/2	6	3	230				L30P4FMGS	15-1/4	11	P43B0015A3	23		
		1-1/2	6	3	460				L30P4FMGS	15-1/4	11	P43B0015A4	23		
		2	8	1	230				L30P4GMGS	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	8	3	230				L30P4GMGS	18-1/4	12	P43B0020A3	23		
		2	8	3	460				L30P4GMGS	18-1/4	12	P43B0020A4	23		
30***		3	12	1	230				L30P4HMGS	24	15	P43B0030A2	40	SMC-CR3021	7
	3 WIRE	3	12	3	230				L30P4HMGS	24	15	P43B0030A3	32		1
		3	12	3	460				L30P4HMGS	24	15	P43B0030A4	32	1	
		5	20	1	230				L30P4JMGS	35-3/4	20	P43B0050A2	70	SMC-CR5021	8
		5	20	3	230				L30P4JMGS	35-3/4	20	P43B0050A3	55		
		5	20	3	460				L30P4JMGS	35-3/4	20	P43B0050A4	55	1	
		7-1/2	28	3	230				L30P4KMGS	50	27	P43B0075A3	70	1	
		7-1/2	28	3	460				L30P4KMGS	50	27	P43B0075A4	70		
		10	38	3	460				L30P4LMGS	65-1/2	35	P43B0100A4	70	1	

NOTE: On 2 HP and larger – Pump, Motor, Control Box or Magnetic Starter must be ordered separately.
†Check Valve not included on 5 HP, 7-1/2 HP and 10 HP models. Check Valve not included on 50 GPM models.
TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter on all models is 3-7/8".

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^{*}Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

Stainless Steel

ORDE	RING INF	ORMAT	ION									
						Į.	PUMP END		мото)R	CONTR	DL BOX
GPM	MOTOR TYPE	HP	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
	2 WIRE	1-1/2	4	1	230	L50P4FMGS	15-1/4	10	P42B0015A2	29		
		1-1/2	4	1	230	L50P4FMGS	15-1/4	10	P43B0015A2	27	SMC-CR1521	7
		1-1/2	4	3	230	L50P4FMGS	15-1/4	10	P43B0015A3	23		
		1-1/2	4	3	460	L50P4FMGS	15-1/4	10	P43B0015A4	23		
		2	6	1	230	L50P4GMGS	19-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	6	3	230	L50P4GMGS	19-1/4	12	P43B0020A3	27		
		2	6	3	460	L50P4GMGS	19-1/4	12	P43B0020A4	27	1	
		3	8	1	230	L50P4HMGS	23-1/4	15	P43B0030A2	40	SMC-CR3021	7
50***	3 WIRE	3	8	3	230	L50P4HMGS	23-1/4	15	P43B0030A3	32		
		3	8	3	460	L50P4HMGS	23-1/4	15	P43B0030A4	32		
		5	13	1	230	L50P4JMGS	33-1/2	20	P43B0050A2	70	SMC-CR5021	8
		5	13	3	230	L50P4JMGS	33-1/2	20	P43B0050A3	55		
		5	13	3	460	L50P4JMGS	33-1/2	20	P43B0050A4	55		
		7-1/2	20	3	230	L50P4KMGS	47-1/2	25	P43B0075A3	70	1	
		7-1/2	20	3	460	L50P4KMGS	47-1/2	25	P43B0075A4	70	1	
		10	25	3	460	L50P4LMGS	57-3/4	35	P43B0100A4	70		

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NOTE: Pump, Motor, Control Box or Magnetic Starter must be ordered separately. Check Valve not included on 50 GPM models.

[†]For all Pentek XE series three-phase motor options, see page 65.

^{*}Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM and 20 GPM discharge is 1-1/4" NPT.

^{***}For 30 GPM and 50 GPM discharge is 2" NPT.

Stainless Steel

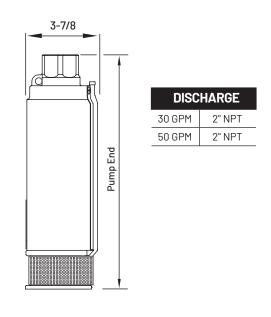
OUTLINE DIMENSIONS: 10,15 AND 20 GPM

DISCHARGE 10 GPM 1-1/4" NPT 15 GPM 1-1/4" NPT 20 GPM 1-1/4" NPT

For lengths, refer to Ordering Information tables.

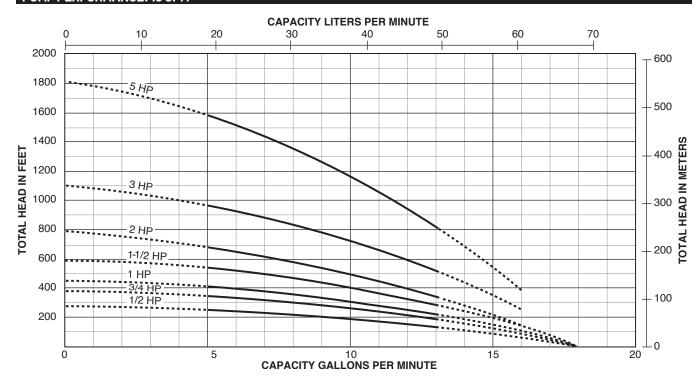
Dimensions (in inches) are for estimating purposes only.

OUTLINE DIMENSIONS: 30 AND 50 GPM



Pump diameter is 3-7/8".
For lengths, refer to Ordering Information tables.
Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE: 10 GPM

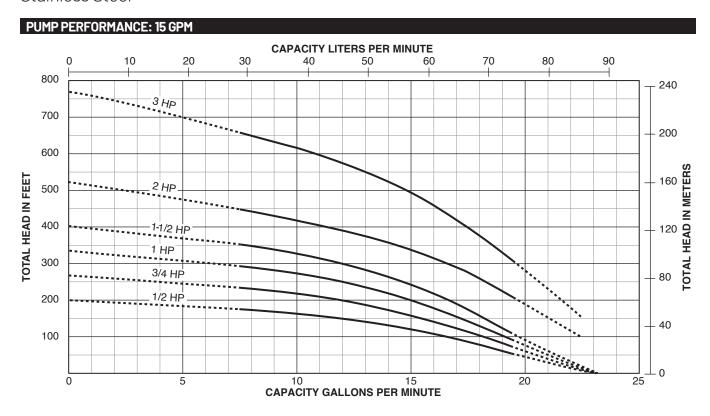


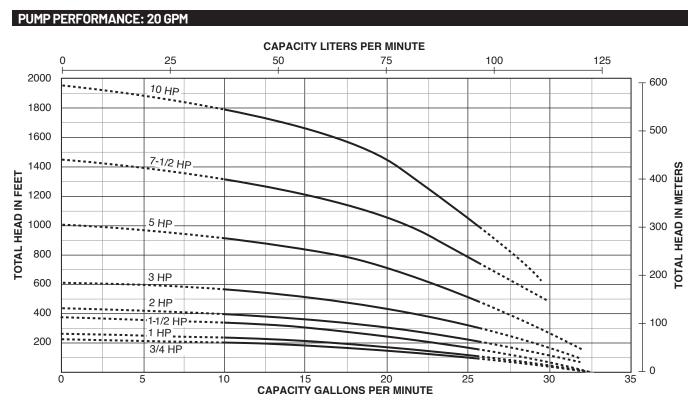
 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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Stainless Steel



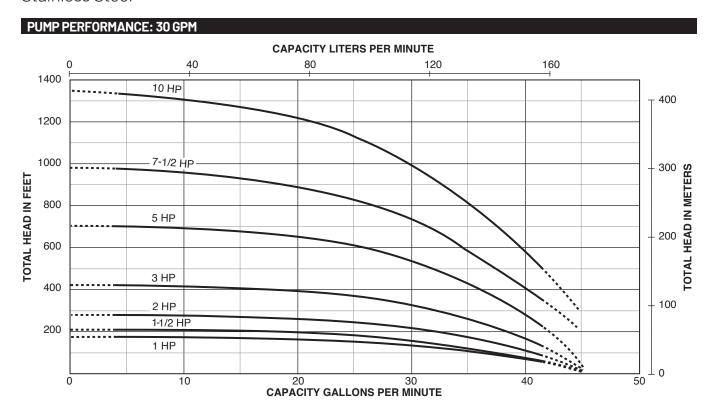


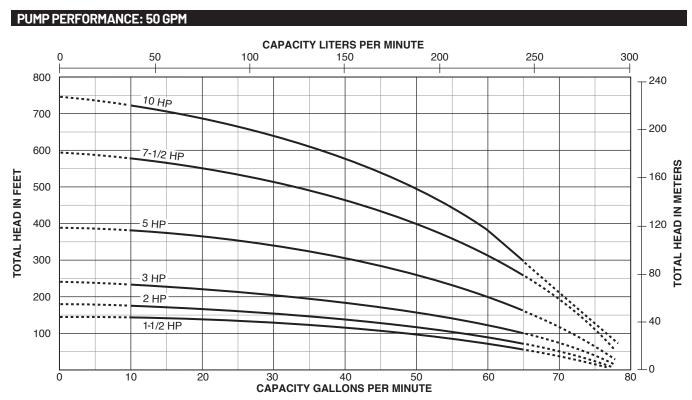
 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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Stainless Steel





Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless Steel

10 GAL	LONS	PER	MIN	UTE						PU	IMP	PERI	OR	MAN	ICE(Сара	city i	n gall	ons p	er m	inute	e)					
												PUMF	PING	DEP	THI	N FEI	ΞT									SHUT-0	FF HEAD
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	26	280	300	320	340	360	380	400	450	500	550	FEET	PSI
	0	-	-	-	-	-	14.7	13.8	12.9	11.8	10.7	_	8.0		_												
	20	-	-	_	14.4	13.5	12.5	11.5	10.3	9.0	7.5	5.7	3.2														
	30	-	-	14.3	13.4	12.4	11.3	10.1	8.8	7.3	5.4	2.7	<u> </u>	_	_	_											
1/2	40	1/ 0	14.2	13.2	12.2	11.1	9.9	8.6	7.0	5.1	2.0	-				-	-									278	120
	50 60	14.0	13.1	12.1	9.5	9.7 8.1	8.4 6.5	6.8	4.7			+		+	+	+	1										
	70	11.7	10.6	9.3	7.9	6.2	3.9	7.0			\vdash	+	\vdash	+	+												
	80	10.4	9.1	7.7	5.9	3.4	0.0																				
	0	_	-	_	-	_	-	_	14.6	14.0	13.3		11.8			9.2	8.2	7.0	5.6	3.9							
	20	_	_	_	-	-	14.4	13.8	13.1	12.3	11.6		9.9		_	6.6		3.2									
	30	-	-	-	15.0	14.3	13.7	13.0	12.2	11.5	10.6	_	8.7	7.6	6.4		2.8		\vdash								
3/4	40 50	15.4	14.8	14.9	14.2	13.6 12.7	12.9	12.1	11.3	10.5 9.4	9.6	7.3	7.5 6.0		$\overline{}$	2.4	-									382	165
	60	14.7	14.0	13.3	12.6	11.9	11.1	10.2	9.3	8.2	7.1	5.7	4.0	-		+											
	70	13.9	13.2	12.5	11.8	10.9	10.1	9.1	8.1	6.9	5.5	3.7	1.0														
	80	13.1	12.4	11.6	10.8	9.9	9.0	7.9	6.7	5.3	3.4																
	0	_	_	_	_	_	_	_	-	14.8	14.2		13.1				10.4	9.6	8.8	7.9	6.9	5.7					
	20	-	-	-	-	-	-	14.6	14.1	13.5	12.9		11.6				_	7.6	6.6	5.3	3.8						
	30 40	-	_	_	15.0	- 14.5	14.5	14.0	13.4	12.8	12.2	_	9.9		9.3	7.3	7.5	6.4	5.1 3.2	3.5							
1	50	_	_	14.9	15.0 14.4	13.8	13.2	12.6	12.7	11.3	11.4	_	9.0	8.1	7.1	6.0	4.7	4.9 2.9	0.2							452	195
	60	_	14.8	14.3	13.7	13.1	12.5	11.9	11.2	10.5	9.7	8.9	8.0	7.0	5.8	4.4	2.6	2.0									
	70	14.7	14.2	13.6	13.0	12.4	11.8	11.1	10.4	9.6	8.7	7.8	6.8		4.2		12.0										
	80	14.1	13.5	12.9	12.3	11.7	11.0	10.2	9.5	8.6	7.7	6.6	5.4														
	0	-	-	_	_	_	_	-	-	-	-	15.0	14.6		_			12.3	11.8	11.3	10.8	10.2	_	6.8	4.3		
	20	-	-	-	-	_	-	_	1/ 0	14.9	14.4		13.6		12.6			11.1	10.6	10.0	9.4	8.8	6.9	4.5			
	30 40	_	_	<u>-</u>	_	_	-	14.7	14.8	14.4	13.9	_	13.0	$\overline{}$	$\overline{}$	_	_	9.8	9.9	9.3	8.7 7.9	8.0 7.1	5.9 4.7	2.9			
1-1/2	50	_	_	_	_	_	14.7	14.2	13.8	13.4	12.9				_	_		9.1	8.5	7.7	7.0	6.1	3.2			590	256
	60	-	_	-	15.0	14.6	14.2	13.7	13.3	12.8	12.4	_	11.3	_	$\overline{}$	\rightarrow	9.0	8.3	7.6	6.8	6.0	4.9					
	70	_	-	14.9	14.5	14.1	13.7	13.2	12.8	12.3	11.8		10.7	10.1	9.5	8.9	8.2	7.5	6.7	5.8	4.8	3.5					
	80	_	14.9	14.5	14.0	13.6	13.2	12.7	12.2	11.7	11.2	10.6	10.1	9.5	8.8	8.1	7.4	6.6	5.7	4.6	3.3						
HP	PSI										PU	IMPIN	IG D	EPTI	IINI	EET										SHUT-0	FF HEAD
ПР	FSI	20	40	60	80	100	125	150	175 2	200 2	250	300 3	50 4	00 4	50 5	00 5	50 60	0 65	0 700	750	800	850	900	950	1000	FEET	PSI
	0		_	-	-	-	-	_					-	_	-		.2 8.			3.1							
	20	-	-	-	-	_								_	_		.0 6.										
2	30 40	_	_	-	14.9	15.0 14.6							_	_			.5 6. .6 5.									806	349
	50	_	_	14.9	_	14.4								_	$\overline{}$.0 5.										
	60	15.1	14.9	14.6	14.4	14.1		\rightarrow	-		-	-	-	_	_		.3 3.										
	0	-	-	-	-	-	-	-	-	-							2.3 11.					7.6		5.3	4.1		
	20	-	-	-	-	-	-	-	_			14.3 1					.8 11.			_	+	6.4		-			
	7.0		_	-	-	-	-										i.4 10.			7.6	6.4	6.0 5.3	_	3.3		1100	476
3	30		_ 1	_ !	_ 1	_ !					1 I	10.0 I	U.U).9 10							\vdash	\vdash		
3	40	-	-	-	-	-	-					13.7 1	3.2 1	2.7 1	2.2 I 1	./							0.0	1			
3		_	_ _	- -	-	-	15.3	15.2 15.0 14.8	14.8		14.1	13.7 1 13.4 1		2.4).4 9.			6.6							
	40 50 60	-	-	_	-	-	15.3	15.0	14.8	14.6	14.1		2.9 1	2.4	1.9	1.2 1										SHUT-0	FF HEAD
3 HP	40 50	_ 	_	-	-	- 15.3	15.3 15.0	15.0 14.8	14.8	14.6 14.4	14.1 13.9 PU	13.4 1 I MPIN	2.9 1 IG D I	2.4 T	1.9 1	1.2 1 EET).4 9.	7 8.8	7.9	6.6	5.5	4.3		0 1	700		1
	40 50 60 PSI	-	_	_	-	_ 15.3 0 !	15.3	15.0	14.8 14.6	14.6	14.1	13.4 1 IMPIN	2.9 1	2.4	1.9 1 1 IN F 00	1.2 1	120 9.9	7 8.8 0 1			5.5 0 1!			$\overline{}$	700 2.9	SHUT-0 FEET	FF HEAD PSI
	40 50 60 PSI 0 20	200	_	- 300 - -	- - 40: 15.3 15.0	- 15.3	15.3 15.0 16.0 14.6 14.5	15.0 14.8 60 14.: 13.!	14.8 14.6	700 13.5 13.3	14.1 3.9 PU 80 12 12	13.4 1 IMPIN 10 .9 .7	2.9 1 IG DI 900 12.3 12.1	2.4 TEPTH 10 11 11	1.9 1 1 IN F 00 .6 .2	1.2 10 FEET 1100 10.8 10.3	120 9.9 9.4	7 8.8 0 1	300 8.9 8.5	140 7.7 7.1	5.5 O 1!	4.3 500 6.3 5.6	160 4.9 4.1		_		1
	40 50 60 PSI 0 20 30	200	_	- - 800 - - -	- - - 15.3 15.0 14.9	- 15.3 0	15.3 15.0 15.0 14.6 14.5 14.3	15.0 14.8 60 14.1 13.1	14.8 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	700 13.5 13.3 13.1	PU 80 12 12 12	13.4 1 IMPIN 10 .9 .7	2.9 1 IG DI 900 12.3 12.1 11.9	2.4 Tension 11 11 11 11	11.9 1 1 IN F 00 .6 .2 .1	1.2 10 FEET 1100 10.8 10.3 10.2	120 9.9 9.2 9.2	7 8.8	300 8.9 8.5 8.2	140 7.7 7.1 6.7	5.5 O 1!	6.3 5.6 5.2	160 4.9 4.1 3.7		_		1
НР	40 50 60 PSI 0 20	200	_	- 300 - -	- - 40: 15.3 15.0	- 15.3	15.3 15.0 16.0 14.6 14.5	15.0 14.8 60 14.: 13.!	14.8 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	700 13.5 13.3	14.1 3.9 PU 80 12 12	13.4 1 1MPIN 100 9 .7 .5 .3	2.9 1 IG DI 900 12.3 12.1	2.4 TEPTH 10 11 11	11.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.2 10 FEET 1100 10.8 10.3	120 9.9 9.4	7 8.8	300 8.9 8.5	140 7.7 7.1	5.5 O 1!	4.3 500 6.3 5.6	160 4.9 4.1		_	FEET	PSI

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless Steel

15 GAL	LONS	PER I	MINU	TE					PUI	MP PI	ERF0	RMA	NCE	(Сара	city <u>i</u>	n ga <u>l</u> l	ons p	er <u>mi</u>	nu <u>te)</u>					
										PUM	PING	DEPT	HINI	FEET									SHUT-0	FF HEAD
HP	PSI	0	20	40	60	80	100	120	140	160					260	280	300	320	340	360	380	400	FEET	PSI
	0	_	-	20.5	19.2	17.8	16.3	14.7	12.8	10.5	7.5							0_0	1		-			
	20	20.1	18.8	17.4	15.8	14.1	12.1	9.7	6.2															
	30	18.6	17.1	15.6	13.8	11.8	9.2	5.5																
	40	16.9	15.3	13.5	11.4	8.8	4.6																	
1/2	50	15.1	13.2	11.0	8.3	3.4																	201	87
	60	12.9	10.7	7.8																				
	70	10.3	7.2																					
	80	6.6																						
	0	-	-	-	20.2	19.2	18.2	17.1	15.9	14.7	13.3	11.7	9.8	7.5	3.6									
	20	20.8	19.9	18.9	17.9	16.7	15.5	14.2	12.8	11.2	9.2	6.6												
	30	19.7	18.7	17.7	16.6	15.4	14.0	12.6	10.9	8.8	6.1													
	40	18.6	17.5	16.4	15.2	13.8	12.3	10.6	8.5	5.5														
3/4	50	17.3	16.2	15.0	13.6	12.1	10.3	8.1	4.8														269	116
	60	16.0	14.8	13.4	11.8	10.0	7.7	4.0																
	70	14.5	13.1	11.5	9.7	7.3	3.0																	
	80	12.9	11.3	9.3	6.8																			
	0	-	-	-	-	20.4	19.6	18.7	17.8	16.9	15.9	14.8	13.6	12.3	10.9	9.3	7.3	4.5						
	20	-	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.4	13.2	11.9	10.4	8.7	6.6	3.2								
	30	20.9	20.1	19.2	18.3	17.4	16.4	15.4	14.3	13.0	11.7	10.2	8.4	6.2	2.4									
	40	19.9	19.1	18.2	17.3	16.3	15.2	14.1	12.8	11.5	9.9	8.1	5.7											
1	50	18.9	18.0	17.1	16.1	15.0	13.9	12.6	11.3	9.7	7.8	5.3											336	145
	60	17.9	17.0	15.9	14.9	13.7	12.4	11.0	9.4	7.5	4.8													
	70	16.8	15.8	14.7	13.5	12.2	10.8	9.1	7.1	4.2														
	80	15.6	14.5	13.3	12.0	10.6	8.8	6.7	3.6															
	0	-	-	-	-	20.5	19.9	19.2	18.5	17.8	17.1	16.3	15.5	14.7	13.7	12.8	11.7	10.5	9.1	7.5	5.3			
	20	-	20.9	20.3	19.7	19.0	18.3	17.6	16.9	16.1	15.3	14.4	13.4	12.4	11.3	10.1	8.7	6.9	4.3					
	30	20.8	20.2	19.6	18.9	18.2	17.5	16.7	16.0	15.1	14.2	13.3	12.3	11.2	9.9	8.4	6.6	3.8						
1.1/0	40	20.1	19.5	18.8	18.1	17.4	16.6	15.8	15.0	14.1	13.1	12.1	11.0	9.7	8.2	6.2	3.0							157
1-1/2	50	19.4	18.7	18.0	17.3	16.5	15.7	14.9	14.0	13.0	11.9	10.8	9.5	7.9	5.9	1.8							403	174
	60	18.6	17.9	17.1	16.4	15.6	14.7	13.8	12.8	11.8	10.6	9.2	7.6	5.5										
	70	17.8	17.0	16.3	15.4	14.6	13.7	12.7	11.6	10.4	9.0	7.3	5.1											
	80	16.9	16.1	15.3	14.4	13.5	12.5	11.4	10.2	8.8	7.0	4.6												
	D 2:									PUM	PING	DEPT	HIN	FEET									SHUT-0	FF HEAD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	FEET	PSI
	0	-	-	-	-	-	-	20.7	20.2	19.6	18.3	16.9	14.4	11.6	7.4	2.7								
	20	-	-	-	21.2	20.9	20.2	19.7	19.1	18.4	17.0	14.7	11.8	7.8	3.2									
•	30	-	-	21.2	20.8	20.3	19.7	19.1	18.5	17.9	16.1	13.5	10.2	5.5									FOF	207
2	40	-	21.1	20.6	20.2	19.8	19.2	18.6	17.9	17.1	14.9	12.0	8.1	3.4									525	227
	50	21.1	20.6	20.1	19.7	19.2	18.6	17.9	17.1	16.2	13.6	10.8	6.0									Ш		
	60	20.5	20.1	19.6	19.1	18.7	18.0	17.2	16.2	15.1	12.2	8.6	3.7											
	0	_	_	_	-	-	-	-	-	21.0	20.2	19.5	18.7	17.8	16.6	15.0	13.0	10.8	8.0	4.9	1.6	\sqcup		
	20	_	_	_	-	-	-	21.1	20.8	20.3	19.5	18.8	17.9	16.7	15.1	13.2	11.1	8.3	5.2	1.9		\sqcup		
3	30	-	-	-	- 01.0	- 01.0	21.2	20.8	20.3	19.9	19.2	18.3	17.4	16.1	14.3	12.2	10.4	7.0	3.5	3.6		\vdash	770	333
	40	-	-	21.6	21.6	21.2	20.9	20.4	19.9	19.6	18.8	18.0	16.8	15.2	13.4	11.2	8.4	5.4	2.1			$\vdash\vdash\vdash$		
	50 60	_	21.4	21.6	21.1	20.9	20.4	20.0	19.7	19.2	18.4	17.5	16.2	14.4	12.3	10.5 8.8	7.1	3.8				$\vdash\vdash\vdash$		
	UU		21.4	ZI.I	ZU.0	70.0	ZU.U	13./	19.3	18.9	10.0	16.9	15.3	13.5	11.4	0.0	5.5							1

 ${\tt CAUTION:D0\,NOT\,use\,pump\,at\,flow\,rates\,indicated\,by\,the\,symbol\,'-'.\,To\,do\,so\,can\,cause\,premature\,failure\,of\,unit.\,Pump\,warranty\,void\,when\,failure\,occurs\,under\,these\,conditions.}$

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 ${\it Tested and rated in accordance with Water Systems Council Standards.}$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless Steel

20 GA	LLONS	PER	MIN	UTE						l PI	JMP	PE	RFC	DRM/	NCE	(Car	pacity	/ in	gallo	ns pe	er mi	inute	e)					
														DEP1				·	<i></i>								SHUT-0	FF HEAD
НР	PSI	0	20	4	0 6	60	80	100	120	140	$\overline{}$				Т			0 :	280	300	320	34	0	360	380	400	FEET	PSI
	0	-	-	_	-	-	26.9	25.0	23.0	20.7	18.	1	15.1	11.3	4.9													
	30	27.9	26.1	26		24.4 21.9	22.3 19.6	19.9 16.8	17.3	9.0	9.8	3				+		+				-	_				1	
	40	25.8	23.8			19.2	16.4	12.9	8.0	3.0		+						+				+	+				-	
3/4	50	23.4	21.2	18	.8 1	15.9	12.3	7.0																			225	97
	60 70	20.9	18.3	15	_	11.6 3.8	5.7			-	-	+						+				-	_				-	
	80	14.3	10.2	$\overline{}$.9 ,	J.0			1		+	$^{+}$				+	+	$^{+}$				+	\dashv				-	
	0	-	=	-	_	-	27.9	26.4		23.0		$\overline{}$	18.9	16.5	13.6	10.0	0 2.	8					\Box					
	30	-	27.2	27		25.9 23.9	24.2	22.4	20.4	18.2	15.	-	12.6 7.6	8.5	-		+	+				+	\dashv					
	40	27.0	25.4			21.8	19.7	17.5	14.8	11.5	6.6	-	7.0				+	+					\dashv					
1	50	25.1	23.4	21		9.4	17.1	14.3	10.9	5.5																	262	114
	60	23.1	21.2		-	16.7	13.9	10.3	3.9		-	4					_	_				+	_					
	70 80	20.9	18.7 15.9		-	8.8	9.6					+				+		+				-	\dashv				_	
	0	-	-	-	_	-	-	-	27.9	26.8	25.	6 2	24.4	23.1	21.7	20.	2 18.	6	16.9	15.0	12.7	10	.0	6.1				
	20	-	_	<u> </u>	_	-	27.5	26.4	25.2	24.0	22.		21.3	19.8	18.1	16.7			12.0	9.0	4.1		\bot					
	30 40	-	-	27		27.4 26.0	26.2 24.8	25.0 23.6	23.8	22.4	21.1	_	19.5 17.6	17.9 15.7	16.0		_	$\overline{}$	8.4	2.6		+	\dashv				-	
1-1/2	50	-	27.0	$\overline{}$		24.6	23.4	22.0	20.6	19.0	17.		15.4	13.3	10.7	$\overline{}$	$\overline{}$					+	\dashv				375	162
	60	26.8	25.7	\rightarrow	_	23.2	21.8	20.3	_	17.0	15.	_	12.9	10.2	6.5			4					4					
	70 80	25.5	24.2			21.6 19.9	20.1	18.5 16.5	16.8	14.8	9.2	-	9.7 4.7	5.6		+	+	+				+	\dashv				<u> </u> 	
	00	27.1	22.1		.T 1	10.0	10.2	10.0	111.0	12.2				DEP1	HIN	FEE.	Т	_									SHUT-01	F HEAD
HP	PSI	20	40	60	80	100	125	150	175	200 2		$\overline{}$						00	650	700	750	800	850	900	950	1000	FEET	PSI
	0	-	-	-	-	-	-	-			3.2 2	_	16.2	_														
	20	-	-	-	-	-	-	26.1				6.7	9.5											-	-		_	
2	30 40	_	-	-	- 27.5	27.6 26.4	26.2	25.0 23.7				3.8 0.1	4.8												-		450	194
	50	-	_	27.2	26.1	25.1	23.8			-		5.7												1				
	60	-	27.1	26.0	25.0	23.9	22.4	21.0		17.3 10	0.8																	
	0	-	-	-	-	-	-	-	-				23.5	21.3	19.1	16.0	_	3.6						+	-			
	30	-	-	-	_	_	-	-				3.6	21.6	19.3 18.1	16.1 14.5	9.0	5.0							1	+			
3	40	_	-	-	-	-	-	27.5					19.6	16.8	12.5	5.3											605	349
	50	-	-	-	-	-	27.6	26.7			2.8 2		18.5	15.0	9.5]	
	60	-	-	-	_	27.7	26.8	25.7	24.9	$\overline{}$	_	9.8	16.9	12.7 27.5	5.6	25.2	2/. 0 1	2.8	21.5	20.2	18.9	17.0	1/. 7	11.0	6.8			
	20	_	_	_	_	_	-	_	_	_	_	_	27.6	26.6	$\overline{}$	\rightarrow		21.6	20.3	19.0	17.3	14.0	11.2	_	0.0		1	
5	30	-	-	-	-	-	-	-	-	-	_	-	27.1	26.0	24.9	23.5	22.2	21.0	19.9	18.2	16.2	13.3	9.5	5.2			1005	476
5	40	-	-	-	-	-	-	-	-			7.7	26.7			22.9		20.4			14.4	11.5	7.7	3.1	-		1005	4/0
	50 60	-	-	_	_	_	_	_	_	- 2	- 2 7.8 2	6.8	25.5	25.0	23.0	21.8	20.5	9.2	18.4 17.7	14.9	12.0	8.0						
	+	 														FEE.			,			- / 0	, 3.7	1			SHUT-NI	F HEAD
											P U	שויוו	IIYG	י שםע			-	_				Ι					23. 0	
НР	PSI	200)	300	4	00	50	0	600	70			-		\neg		1100)	1200) 13	เบบ	14	00	150	0 1	600	FEET	PSI
НР	PSI 0	200)	300 -		-	50	-	600 27.3	70 25.	0	80 (0	900 23.1	10	1.5	1100)	1200	_	1.3	14		150	0 1	1600	FEET	PSI
HP	0 20	-)	- -		<u>-</u>	-		27.3 26.7	25. 25.	O 7 3	24. 23.	0 3 7	900 23.1 22.3	2	1.5 0.8	19.9 18.9		16.4 14.7	1	1.3 3.5	_		150	0 1	1600	FEET	PSI
HP 7-1/2	0 20 30	- -		- - -		- - -	- -		27.3 26.7 26.5	25. 25. 25.	7 3 1	24. 23. 23.	0 3 7 5	900 23.1 22.3 22.1	2 2 2	1.5 0.8 0.6	19.9 18.9 18.3		16.4 14.7 13.4	1	1.3 3.5 7.0	_		150	0 1	1600	1450	PSI 628
	0 20 30 40	_ _ _		- - -		- - - -		5	27.3 26.7 26.5 26.3	25. 25. 25. 24.	7 3 1 7	24. 23. 23. 23.	3 7 5 3	23.1 22.3 22.1 21.7	2 2 2 2	1.5 0.8 0.6 0.2	19.9 18.9 18.3 17.3		16.4 14.7 13.4 12.1	1	1.3 3.5 7.0 5.3	_		150	0 1	1600		
	0 20 30	- -		- - -		- - -	- -	5 3	27.3 26.7 26.5	25. 25. 25.	7 3 1 7 5	24. 23. 23.	3 7 5 3 7	900 23.1 22.3 22.1	2 2 2 2 2 2	1.5 0.8 0.6	19.9 18.9 18.3		16.4 14.7 13.4	1	1.3 3.5 7.0	_		150	0 1	1600		
	0 20 30 40 50 60	_ _ _ _		- - - -		- - - - -	- - 27.	5 3 9	27.3 26.7 26.5 26.3 25.7	25. 25. 25. 24. 24. 24.	7 3 1 7 5 3	24. 23. 23. 23. 22. 22. 26.	3 7 5 3 7 5 8	23.1 22.3 22.1 21.7 21.3 21.0 25.7	2 2 2 2 2 1 1 1	0.8 0.8 0.6 0.2 9.7 9.3 4.7	19.9 18.9 18.3 17.3 16.0 15.1 23.7		16.4 14.7 13.4 12.1 10.6 9.5 22.6	1	1.3 3.5 7.0 5.3 3.6	20).7	19.	5	17.1		
	0 20 30 40 50 60 0	- - - - -		- - - - - -		- - - - - -	27. 27. 27. 26.	5 3 9	27.3 26.7 26.5 26.3 25.7 25.5	25. 25. 25. 24. 24. 24. 27.	7 3 1 7 5 3	24. 23. 23. 23. 22. 22. 26. 26.	3 7 5 3 7 5 8	23.1 22.3 22.1 21.7 21.3 21.0 25.7 25.3	2 2 2 2 2 1 1 1 2 2	11.5 0.8 0.6 0.2 9.7 9.3 4.7 4.4	19.9 18.9 18.3 17.3 16.0 15.1 23.7 23.3		16.4 14.7 13.4 12.1 10.6 9.5 22.6 22.1	2	1.3 3.5 7.0 5.3 3.6	20 20).7	19.l 18.l	5 5	17.1 16.0		
	0 20 30 40 50 60 0 20	- - - - - -		- - - - - - -		- - - - - -	27. 27. 26.	5 3 9	27.3 26.7 26.5 26.3 25.7 25.5 —	25. 25. 25. 24. 24. 24. 27. 27.	7 3 1 7 5 3 3	24 23 23 22 22 26 26 26	0 3 7 5 3 7 7 5 8 4	900 23.1 22.3 22.1 21.7 21.3 21.0 25.7 25.3 25.0	2 2 2 2 2 1 1 1 2 2 2	1.5 0.8 0.6 0.2 9.7 9.3 4.7 4.4	19.9 18.9 18.3 17.3 16.0 15.1 23.7 23.3 23.0		16.4 14.7 13.4 12.1 10.6 9.5 22.6 22.1 21.9	2 2 2 2	1.3 3.5 7.0 5.3 3.6 11.6 11.3	20 20 20	0.7	19.l 18.l 18.l	5 5 0	17.1 16.0 15.0		
7-1/2	0 20 30 40 50 60 0	- - - - -		- - - - - -		- - - - - -	27. 27. 27. 26.	5 3 9	27.3 26.7 26.5 26.3 25.7 25.5	25. 25. 25. 24. 24. 24. 27.	7 3 1 7 5 3 5 3	24. 23. 23. 23. 22. 22. 26. 26.	0 3 7 5 3 7 5 8 4 2	23.1 22.3 22.1 21.7 21.3 21.0 25.7 25.3	10 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	11.5 0.8 0.6 0.2 9.7 9.3 4.7 4.4	19.9 18.9 18.3 17.3 16.0 15.1 23.7 23.3		16.4 14.7 13.4 12.1 10.6 9.5 22.6 22.1	2 2 2 2	1.3 3.5 7.0 5.3 3.6	20 20	0.7	19.l 18.l	5 5 0	17.1 16.0	1450	628

 ${\tt CAUTION: D0\ NOT\ use\ pump\ at\ flow\ rates\ indicated\ by\ the\ symbol\ '-'.\ To\ do\ so\ can\ cause\ premature\ failure\ of\ unit.\ Pump\ warranty\ void\ when\ failure\ occurs\ under these\ conditions.\ Tested\ and\ rated\ in\ accordance\ with\ Water\ Systems\ Council\ Standards.}$

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NOTE: Pumps installed with a Pro-Source * tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless Steel

30 GAL	LONS	PER	MINU	TE					PU	MP PE	RFOF	RMAN	CE (C	apacit	y in ga	allons	per m	inute)				
									PUI	MPING	DEPT	H IN F	EET								SHUT-0	FF HEAD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	FEET	PSI
	0	-	42.5	40.9	39.1	36.8	32.5	26.0	8.0													
	20	40.4	38.8	36.0	32.4	27.7	13.3															
1	30	38.0	35.3	31.7	26.3	14.3															175	76
	40	35.0	31.4	25.9	12.1																1/3	/0
	50	30.2	24.0	3.0																		
	60	21.9																				
	0	-	-	41.9	39.9	37.5	34.1	30.9	26.9	17.0												
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5														
1-1/2	30	38.9	36.1	33.8	31.0	27.9	21.8														210	91
, _	40	36.0	33.5	30.8	27.7	20.2	_								_	_						
	50	32.9	30.1	26.8	21.5		_	-							_							
	60	29.5	25.9	18.1	/1.0	/0.5	70.0	70.0	7/7	71.0	07.7											
	0	-	- /1.7	- (0.1	41.8	40.5	38.8	36.8	34.7	31.6	23.7											
	30	/1.0	41.3	40.1 38.5	38.7	37.1	34.9	32.1	29.0	24.8												
2		41.2	40.0	+	37.0	35.0		29.1	24.9	15.2					-	-	-				280	121
	40 50	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1													
	60	38.0 36.0	36.3	34.5	32.1 29.1	30.0	25.3	17.5														
	0	- 30.0	34.0	- 31.8	28.1	42.7	41.6	40.1	39.6	38.2	35.5	32.0	27.3									
	20	-	_	42.4	41.5	41.0	39.8	38.5	37.1	35.7	32.1	28.0	18.5		-	-						
	30	42.9	42.2	41.3	40.6	39.9	38.7	37.2	35.8	34.2	30.3	24.9	6.0									
3	40	42.1	41.2	40.4	39.7	38.8	37.3	35.9	34.5	32.6	28.3	19.9	0.0								420	182
	50	41.1	40.3	39.5	38.5	37.4	36.0	34.6	32.7	31.0	25.2	9.5										
	60	40.2	39.3	38.3	37.2	36.1	34.7	32.8	31.0	28.5	20.5	0.0										
	0	-	_	-	-	-	-	-	42.6	42.0	40.7	39.2	38.0	36.0	34.2	31.9	29.2	26.0	20.0			
	20	-	_	<u> </u>	_	_	42.7	42.0	41.3	40.8	39.3	38.2	36.2	34.4	32.4	30.0	26.1	21.5				
	30	-	_	<u> </u>	-	42.8	42.1	41.4	40.8	40.1	38.7	37.0	35.1	33.1	31.1	26.0	24.1	16.0				
5	40	-	_	-	-	42.1	41.5	40.9	40.2	39.3	37.9	36.1	34.3	32.0	29.4	26.2	20.4				705	305
	50	-	-	42.6	42.0	41.5	41.2	40.2	39.5	38.8	37.1	35.4	33.2	31.2	28.8	24.5	16.0					
	60	-	42.5	42.0	41.4	41.1	40.3	39.8	38.9	38.1	36.2	34.2	32.1	30.0	26.7	22.0						
			•						PUI	MPING	DEPT	HINF	EET								SHUT-0	FF HEAD
HP	PSI	200) ;	300	400	50	00	600	70	0	800	900) 1	000	1100	12	200	1300	14	+00	FEET	PSI
	0	-		-	40.4	3	7.6	34.8	32	.0	28.1	20.0										
	20	-		42.0	39.3	36	3.5	33.8	30	.5	25.5	13.8										
	30	-		41.3	38.6	3!	5.8	33.1	29	.8	23.3	6.5										
7-1/2	40	-		40.7	38.1	3!	5.6	32.6	29	.3	21.7										975	422
	50	42.7		40.1	37.3	34	4.6	31.7	27.	.4	19.3											
	60	42.0		39.4	36.5	3.	3.7	30.7	25	.1	13.9											
	0	-		-	-	4	1.3	39.5	37.	.3	35.1	33.1		30.4	27.1	2	2.5	11.9				
	20	-		-	42.3	40	0.5	38.6	36	.4	34.5	31.8		29.2	25.3	1	8.7					
	30	-		-	42.0	4	0.1	43.0	35	.7	33.7	31.3		28.4	24.2	1	6.3					
10	40	-		-	41.6	39	9.7	37.7	35	.5	33.5	30.9		27.7	23.4	1	4.4				1345	582
	50	-		42.7	41.0	39	9.3	37.1	34	.9	32.8	30.2		26.7	21.7		7.7					
	60	-		42.3	40.6	38	3.7	36.5	34	.5	32.3	29.5		25.7	20.1	ĺ	5.0					

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Stainless Steel

50 GAL	LONS	PERI	1INUT	Έ					PUM	P PER	FORM	IANCE	(Capa	acity in	gallor	ns per i	minute)		
								PUMPI	NG DE	PTH IN	N FEET							SHUT-OF	F HEAD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	450	550	650	700	FEET	PSI
	0	_	_	_	58.2	49.3	33.5												
	20	_	55.9	46.5	32.5														
	30	54.8	45.0	30.0														***	07
1-1/2	40	43.3	26.9															145	63
	50	21.9																	
	60																		
	0	_	_	_	63.3	57.0	47.8	33.9											
	20	_	62.2	55.1	46.8	37.1	13.0												
2	30	61.1	53.6	46.0	34.3	14.1												180	78
2	40	52.8	45.0	32.5	11.0													100	76
	50	42.7	27.9																
	60	25.2																	
	0	_	_	_	_	64.5	59.4	52.5	45.0	33.8									
	20	_	_	63.7	59.0	53.5	46.5	36.2	18.2										
3	30	_	62.9	58.1	53.0	47.0	37.0	20.5										235	102
3	40	62.5	57.6	52.0	46.2	38.8	22.1											200	102
	50	56.5	51.0	44.7	36.2	22.8													
	60	50.0	43.7	34.0	20.5														
	0	_	_	_	_	_	_	65.9	63.2	59.9	51.9	41.9	22.5						
	20	_	_	_	_	_	63.5	60.8	56.1	52.4	42.5	24.9							
5	30	_	_	_	_	63.8	60.9	56.9	53.0	47.9	35.5	12.9						385	166
ŭ	40	_	_	65.5	63.2	61.0	57.0	53.2	48.0	43.5	27.0							000	100
	50	_	65.1	63.0	60.8	57.1	53.3	48.1	43.6	36.4	14.2								
	60	64.9	62.4	60.0	56.9	53.7	48.7	44.1	37.5	28.0									
	0	_	_	_	_	_	_	_		-	66.0	61.0	55.3	43.1	20.0				
	20	_	_	_	_	_	_	_	-	64.8	61.1	56.0	50.0	34.9					
7-1/2	30	_	_	_	_	_	_	-	64.9	63.3	58.7	53.2	47.2	28.8				595	257
	40	_	_	_	_	_	-	65.0	63.6	61.7	56.2	50.9	44.1	22.0					
	50	_	_	_	_	-	65.1	63.7	61.8	58.9	53.9	47.5	41.0	13.2					
	60	_	_	_	_	65.2	63.8	61.9	59.0	56.5	51.1	44.9	36.0	F/ 0	// 7	20.0	15.0		
	0	_	_	_	_	_	_	_		_		65.0	62.1	54.2	44.7	29.0	15.2		
	20	_	_	_	_	_	_	_	_	-	65.5	62.5	59.1	50.1	39.2	17.1			
10	30	_	_	_	_	_	_	_	67.0	66.9	64.1	61.2	56.9	47.5	35.0	10.5		745	322
	40	_	_	_	_	_	_	- 07.1	67.0	65.8	63.0	59.3	54.9	45.2	30.5				
	50	_	_	_	_	_	67.2	67.1	65.9	64.2	61.5	57.2	53.0	42.9	25.0				
	60	_		_			67.2	66.0	64.3	63.2	59.9	55.0	51.0	40.6	19.7				

 ${\tt CAUTION:D0\,NOT\,use\,pump\,at\,flow\,rates\,indicated\,by\,the\,symbol\,'-'.\,To\,do\,so\,can\,cause\,premature\,failure\,of\,unit.\,Pump\,warranty\,void\,when\,failure\,occurs\,under\,these\,conditions.}$

 ${\it Tested and rated in accordance with Water Systems Council Standards.}$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite, 5 and 7 GPM TrimLine™





Precision-engineered, corrosionresistant Composite Pumps in 5 and 7 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 850 feet and capacities to 10 GPM. Built to deliver long-term, trouble-free service.

These pumps feature the proven SignaSeal[®] staging system. Floating stack design resists sand and reduces sand locking.

The 5 and 7 GPM models are the smaller 3-3/4" diameter TrimLine.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron°

Intermediate Bearing: (On larger units)

polycarbonate, nitrile rubber and stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

steel insert

Thrust Pads: Proprietary spec.

Shaft and Coupling: Stainless steel

Intake: Fiberglass-reinforced thermoplastic

Intake Screen: Polypropylene **Cable Guard:** Stainless steel

Agency Listings: CSA

Check Valve: Spring-loaded check valve

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FEATURES

Proven Staging System:

Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive selflubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Crimped shell.

Hardware: All screws, washers and nuts are

corrosion-resistant 300 grade

stainless steel.

Check Valve: Spring-loaded check valve. **Cable Guard:** Corrosion-resistant stainless

steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Molded-in screen.
Pentek° XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.







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Composite, 5 and 7 GPM TrimLine $^{\text{TM}}$

OR	DERING	INF	ORMA	ΓΙΟΝ											
						ASSE	MBLED PL	JMP	ı	PUMP END)	мот	OR	CONTR	OL BOX
GPM	MOTOR TYPE	НР	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER		WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
		1/2	14	1	115	B5P4JP05121	28	28	SL5P4CJ	18	12	P42B0005A1	19		
		1/2	14	1	230	B5P4JP05221	28	28	SL5P4CJ	18	12	P42B0005A2	19		
	2 WIRE	3/4	19	1	230	B5P4JP07221	33	34	SL5P4DJ	22	15	P42B0007A2	23		
		1	22	1	230	B5P4JP10221	37	39	SL5P4EJ	26	17	P42B0010A2	25		
5		1/2	13	1	115	B5P4JP05131	27-1/2	29	SL5P4CJ	18	12	P43B0005A1	19	SMC-IR0511	4
5		1/2	14	1	230	B5P4JP05231	28	28	SL5P4CJ	18	12	P43B0005A2	18	SMC-CR0521	4
		3/4	19	1	230	B5P4JP07231	33	34	SL5P4DJ	22	15	P43B0007A2	21	SMC-CR0721	4
	3 WIRE	1	22	1	230	B5P4JP10231	37	39	SL5P4EJ	26	17	P43B0010A2	23	SMC-CR1021	4
		1	22	3	230				SL5P4EJ	25-1/4	17	P43B0010A3	23		
		1	22	3	460				SL5P4EJ	25-1/4	17	P43B0010A4	23		
		1/2	11	1	115	B7P4JP05121	26	27	SL7P4CJ	16	11	P42B0005A1	19		
		1/2	11	1	230	B7P4JP05221	26	27	SL7P4CJ	16	11	P42B0005A2	19		
	2 WIRE	3/4	15	1	230	B7P4JP07221	30	32	SL7P4DJ	19	13	P42B0007A2	23		
		1	18	1	230	B7P4JP10221	34	37	SL7P4EJ	22	15	P42B0010A2	25		
		1-1/2	22	1	230	B7P4JP15221	43	47	SL7P4FJ	28	21	P42B0015A2	29		
		1/2	10	1	115	B7P4JP05131	25-1/2	27	SL7P4CJ	16	12	P43B0005A1	19	SMC-IR0511	4
7		1/2	11	1	230	B7P4JP05231	26	27	SL7P4CJ	16	11	P43B0005A2	18	SMC-CR0521	4
		3/4	15	1	230	B7P4JP07231	29	32	SL7P4DJ	19	13	P43B0007A2	21	SMC-CR0721	4
	7.WDF	1	17	3	230				SL7P4EJ	22	17	P43B0010A3	23	SMC-CR1021	4
	3 WIRE	1	17	3	460				SL7P4EJ	22	17	P43B0010A4	23		
		1-1/2	22	1	230	B7P4JP15231	41	44	SL7P4FJ	27-1/4	21	P43B0015A2	27		
		1-1/2	22	3	230				SL7P4FJ	27-1/4	21	P43B0015A3	23	SMC-CR1521	7
		1-1/2	22	3	460				SL7P4FJ	27-1/4	21	P43B0015A4	23		

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NOTE: Motor, Control Box or Magnetic Starter must be ordered separately. Discharge NPT is 1-1/4".

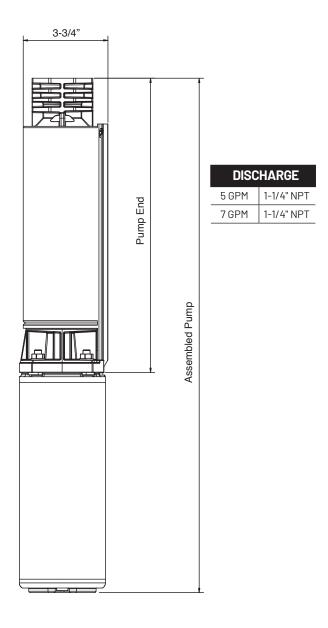
[†]For all Pentek XE series three-phase motor options, see page 65.

^{*}Length and Weight are approximate.

 $TrimLine^{\text{\tiny{IM}}}\ version\ maximum\ outside\ diameter\ is\ 3-3/4".\ Standard\ version\ maximum\ outside\ diameter\ is\ 3-7/8".$

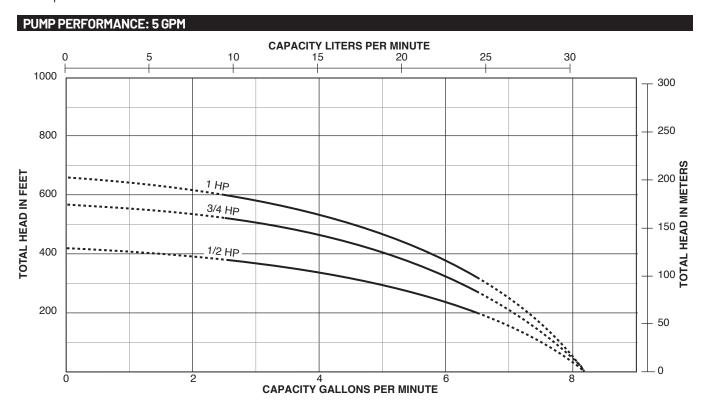
Composite, 5 and 7 GPM TrimLine $^{\text{\tiny TM}}$

OUTLINE DIMENSIONS

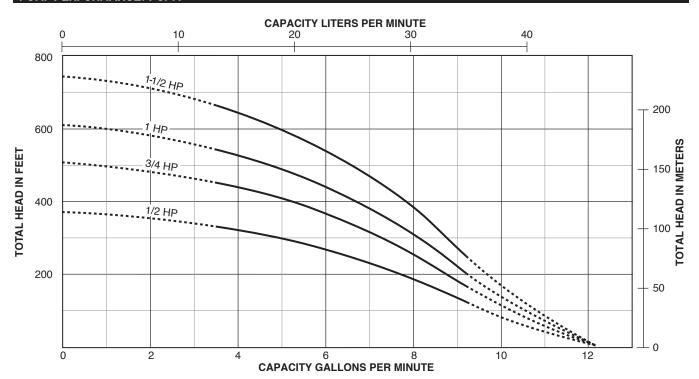


For dimensions, refer to Ordering Information table. Dimensions (in inches) are for estimating purposes only.

Composite, 5 and 7 GPM TrimLine™







 $\label{thm:condition} \textbf{Tested and rated in accordance with Water Systems Council Standards.}$

NOTE: Pumps installed with a Pro-Source * tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite, 5 and 7 GPM TrimLine™

5 GA	LLON	ISP	ER N	1INL	JTE				Pl	JMP	PEF	RFO	RM4	NC	E (Ca	apac	ity i	n ga	llons	per	min	ute)											
														PUM	IPIN	G DE	PTH	I IN F	EET	Γ													Γ-OFF AD
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	750	800	850	FEET	PSI
	0	_	_	-	_	-	_	_	7.3	7.0	6.8	6.5	6.2	5.9	5.6	5.2	4.9	4.4	4.0	3.5	2.9	2.1											
	20	_	_	_	_	7.5	7.2	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.7	4.3	3.9	3.3	2.7	1.7													
	30	_	_	_	7.4	7.2	6.9	6.6	6.4	6.1	5.7	5.4	5.1	4.7	4.2	3.8	3.2	2.5	1.5														
1/2	40	_	_	7.4	7.1	6.9	6.6	6.3	6.0	5.7	5.4	5.0	4.6	4.2	3.7	3.1	2.4	1.3														421	182
1/2	50	-	7.4	7.1	6.8	6.6	6.3	6.0	5.6	5.3	4.9	4.5	4.1	3.6	3.0	2.3	1.0															421	102
	60	7.3	7.1	6.8	6.5	6.2	5.9	5.6	5.3	4.9	4.5	4.0	3.5	2.9	2.1											_							
	70	7.0	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.4	4.0	3.4	2.8	2.0																			
	80	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.3	3.9	3.4	2.7	1.8												10		ļ			-	-		
	0	-	-	_	-	-	-	-	7.7	71	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.2	3.2	1.8					-	-		
	20 30	-	-	_	-	-	7.5	77	7.3	7.1	7.0 6.7	6.8	6.6	6.3	6.1	5.9	5.7	5.4	5.1	4.9	4.6	4.3 3.9	3.3 2.8	2.0						+	-	-	
	40	-	-	-	 -	7.5	7.3	7.3	6.9	6.9	6.5	6.3	6.3	6.1 5.8	5.9	5.6	5.4	5.1 4.8	4.8	4.5	4.2 3.8	3.4	2.0		_	\vdash	\vdash			-	\vdash	ł	
3/4	50	-	-	H-	7.4	7.3	7.3	6.9	6.7	6.5	6.2	6.0	5.8	5.5	5.3	5.0	4.7	4.4	4.1	3.7	3.3	2.9	Z.1									571	247
	60	-	-	7.4	7.7	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.5	5.2	5.0	4.7	4.4	4.1	3.7	3.3	2.8	2.2										ł	
	70	-	7.4	72	7.2	6.8	6.6	6.4	6.2	5.9	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.6	3.2	2.7	2.1	1.2										1	
	80	7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9	5.7	5.4	5.2	4.9	4.6	4.3	3.9	3.6	3.1	2.6	2.0	2.1	11.2											
	0	_	-	_	-	-	-	-	-	-	-	7.5	7.3	7.1	7.0	6.8	6.6	6.4	6.3	6.1	5.9	5.7	5.1	4.5	3.8	2.8	1.2					İ	Ì
	20	-	-	-	-	-	-	-	-	7.4	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.5	3.8	2.9	1.4						1	
	30	-	_	-	_	-	_	7.5	7.4	7.2	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.2	3.4	2.3								
	40	_	_	-	_	-	7.5	7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.6	3.9	3.0	1.6							001	000
	50	_	_	-	_	7.5	7.3	7.2	7.0	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.8	4.5	4.3	3.5	2.4								661	286
	60	_	_	-	7.5	7.3	7.2	7.0	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.8	4.5	4.2	3.9	3.1	1.7									
	70	-	_	7.4	7.3	7.1	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.6	5.4	5.2	5.0	4.7	4.5	4.2	3.9	3.6	2.5										
	80	-	7.4	7.3	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1	3.8	3.5	3.1	1.9										

 ${\sf CAUTION:D0\,NOT\,use\,pump\,at\,flow\,rates\,indicated\,by\,the\,symbol\,'-'.\,To\,do\,so\,can\,cause\,premature\,failure\,of\,unit.\,Pump\,warranty\,is\,void\,when\,failure\,occurs\,under\,these\,conditions.}$

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Composite, 5 and 7 GPM TrimLine™

7 GALL	ONS F	PER	MIN	UTE					Pl	JMP	PER	FOF	RMA	NCE	(Ca _l	paci	ty in	gallo	ons p	oer n	ninu	te)								
												ı	PUM	PING	DEI	PTH	IN F	EET											SHUT HE	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600	650	700	FEET	PSI
	0	-	11.0	10.7	10.4	10.0	9.7	9.3	8.9	8.6	8.1	7.7	7.2	6.7	6.2	5.6	5.0	4.2	3.3											
	20	10.6	10.3	9.9	9.6	9.2	8.8	8.4	8.0	7.6	7.1	6.6	6.0	5.4	4.7	3.9	2.9													
	30	10.2	9.9	9.5	9.2	8.8	8.4	7.9	7.5	7.0	6.5	5.9	5.3	4.6	3.8	2.7														
1/2	40	9.8	9.5	9.1	8.7	8.3	7.9	7.4	6.9	6.4	5.9	5.2	4.5	3.7	2.5														372	161
1/ 2	50	9.4	9.0	8.6	8.2	7.8	7.3	6.9	6.3	5.8	5.1	4.4	3.5	2.3															3/2	101
	60	9.0	8.6	8.2	7.7	7.3	6.8	6.2	5.7	5.0	4.3	3.3	2.0																	
	70	8.5	8.1	7.7	7.2	6.7	6.2	5.6	4.9	4.1	3.2																			
	80	8.0	7.6	7.1	6.6	6.1	5.5	4.8	4.0	3.0																				
	0	-	-	10.9	10.6	10.4	10.2	9.9	9.6	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.9	6.5	6.1	5.7	5.2	3.8							
	20	10.8	10.6	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.8	6.4	6.0	5.5	5.0	4.5	3.9								
	30	10.5	10.3	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.8	7.4	7.1	6.7	6.3	5.9	5.5	5.0	4.4	3.8	3.0								
3/4	40	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.6	6.3	5.8	5.4	4.9	4.3	3.7	2.9								507	220
3/4	50	10.0	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7	7.3	7.0	6.6	6.2	5.8	5.3	4.8	4.2	3.6	2.8									307	220
	60	9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.3	6.9	6.5	6.1	5.7	5.2	4.7	4.1	3.5	2.6											
	70	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.2	6.8	6.5	6.1	5.6	5.2	4.6	4.0	3.3	2.5												
	80	9.0	8.8	8.5	8.2	7.8	7.5	7.2	6.8	6.4	6.0	5.6	5.1	4.5	3.9	3.2	2.3													
	0	-	-	11.0	10.8	10.6	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.2	6.9	6.6	5.8	4.8	3.5					
	20	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.4	9.2	9.0	8.7	8.5	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.2	5.8	4.9	3.6						
	30	10.7	10.5	10.3	10.1	9.8	9.6	9.4	9.2	8.9	8.7	8.5	8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.1	5.8	5.4	4.3	2.8						
1	40	10.4	10.2	10.0	9.8	9.6	9.4	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.4	7.1	6.8	6.4	6.1	5.7	5.3	4.9	3.7						608	263
'	50	10.2	10.0	9.8	9.6	9.3	9.1	8.9	8.6	8.4	8.1	7.9	7.6	7.3	7.0	6.7	6.4	6.0	5.7	5.3	4.9	4.4	3.0						000	203
	60	10.0	9.7	9.5	9.3	9.1	8.8	8.6	8.3	8.1	7.8	7.5	7.3	7.0	6.7	6.3	6.0	5.6	5.2	4.8	4.3	3.8								
	70	9.7	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.8	7.5	7.2	6.9	6.6	6.3	5.9	5.6	5.2	4.7	4.3	3.7	3.1								
	80	9.5	9.2	9.0	8.8	8.5	8.3	8.0	7.7	7.5	7.2	6.9	6.6	6.2	5.9	5.5	5.1	4.7	4.2	3.6	3.0	2.1								
	0	-	-	11.0	10.9	10.7	10.5	10.4	10.2	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.3	8.1	7.9	7.7	7.1	6.5	5.8	5.0	4.0	2.7		
	20	11.0	10.8	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.5	5.8	5.0	4.1	2.8			
	30	10.8	10.6	10.5	10.3	10.1	10.0	9.8	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.3	8.0	7.8	7.6	7.4	7.1	6.9	6.2	5.5	4.6	3.5				
1-1/2	40	10.6	10.4	10.3	10.1	9.9	9.8	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.6	7.3	7.1	6.8	6.6	5.9	5.1	4.2	2.9			744	322
1-1/2	50	10.4	10.2	10.1	9.9	9.7	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.1	6.8	6.5	6.3	5.5	4.7	3.6	2.1			/	322
	60	10.2	10.1	9.9	9.7	9.5	9.3	9.2	9.0	8.8	8.6	8.4	8.2	7.9	7.7	7.5	7.3	7.0	6.8	6.5	6.2	5.9	5.2	4.2	3.0					
	70	10.0	9.9	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5	6.2	5.9	5.6	4.8	3.7	2.3					
	80	9.8	9.6	9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.6	7.4	7.2	6.9	6.7	6.4	6.1	5.9	5.5	5.2	4.3	3.1						

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty is void when failure occurs under these conditions.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite



Precision-engineered, corrosionresistant Composite Pumps in 10, 15, 20 and 30 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 650 feet and capacities to 45 GPM. Built to deliver long-term, trouble- free service.

These pumps feature the proven SignaSeal" staging system.
Floating impeller design resists sand and reduces sand locking.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Shell: Stainless steel

Diameter: 3-7/8"

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron®

Intermediate Bearing: (On larger units) polycarbonate, nitrile rubber and

stainless steel

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

steel insert

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

Intake: Fiberglass-reinforced

thermoplastic

Intake Screen: Polypropylene Cable Guard: Stainless steel

Check Valve: Spring-loaded check valve

Agency Listings: CSA

FEATURES

Proven Staging System: Our proven SignaSeal staging system incorporates a harder-than-sand ceramic wear surface that when incorporated with our floating impeller design, greatly reduces problems with abrasives, sand lock-up and running dry.

Discharge: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water. Large octagon wrench area for ease of installation.

Discharge Bearing: Exclusive self-lubricating Nylatron bearing resists wear from sand.

Intake: Corrosion-resistant fiberglass-reinforced thermoplastic for durability in aggressive water.

Shaft: Positive drive from 7/16" hexagonal heavy-duty 300 grade stainless steel.

Coupling: Stainless steel press fit to pump shaft. Couples to all standard NEMA motors.

Shell: Crimped shell.

Hardware: All screws, washers and nuts are corrosion-resistant 300 grade stainless steel.

stannood ataan.

Check Valve: Spring-loaded check valve. **Cable Guard:** Corrosion-resistant stainless steel guard protects motor leads. Tapered ends prevent pump from catching on well.

Intake Screen: Molded-in screen.

Pentek® XE Series™ Motor:

2 and 3 wire NEMA standard all stainless construction water-filled motors.

0 03



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Composite

						ACCE	1BLED PU	MD		PUMP END	,	мот	ΩD	CONTR	חו פטע
GPM	MOTOR TYPE	НР	STGS.	PH [†]	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT	CATALOG NUMBER	LENGTH	WEIGHT	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT
		1/2	8	1	115	B10P4MS05121	23	28	L10P4CMGS	13	9	P42B0005A1	19		
		1/2	8	1	230	B10P4MS05221	23	28	L10P4CMGS	13	9	P42B0005A2	19		
	2 WIRE	3/4	11	1	230	B10P4MS07221	26	31	L10P4DMGS	15	10	P42B0007A2	23		
		1	13	1	230	B10P4MS10221	29	35	L10P4EMGS	17	11	P42B0010A2	25		
		1-1/2	17	1	230	B10P4MS15221	35	42	L10P4FMGS	20	12	P42B0015A2	29		
		1/2	7	1	115	B10P4MS05131	22-3/4	27-1/2	L10P4CMGS	12-3/4	9	P43B0005A1	19	SMC-IR0511	4
10**		1/2	8	1	230	B10P4MS05231	23	28	L10P4CMGS	13	9	P43B0005A2	19	SMC-CR0521	4
IU		3/4	11	1	230	B10P4MS07231	26	31	L10P4DMGS	15	10	P43B0007A2	21	SMC-CR0721	4
		1	13	1	230	B10P4MS10231	29	35	L10P4EMGS	17	11	P43B0010A2	23	SMC-CR1021	4
	3 WIRE	1	13	3	230				L10P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
		1	13	3	460		,	r	L10P4EMGS	15-1/2	10-1/4	P43B0010A4	23		
		1-1/2	17	1	230	B10P4MS15231	34	42	L10P4FMGS	20	12	P43B0015A2	27	SMC-CR1521	7
		1-1/2	17	3	230				L10P4FMGS	19-3/4	12-1/2	P43B0015A3	23		
		1-1/2	17	3	460				L10P4FMGS	19-3/4	12-1/2	P43B0015A4	23		
		1/2	6	1	115	B15P4MS05121	23	27	L15P4CMGS	13	9	P42B0005A1	19		
		1/2	6	1	230	B15P4MS05221	23	27	L15P4CMGS	13	9	P42B0005A2	19		
	2 WIRE	3/4	8	1	230	B15P4MS07221	26	31	L15P4DMGS	15	10	P42B0007A2	23		
		1 1/0	10	1	230	B15P4MS10221	30	35	L15P4EMGS	17	11	P42B0010A2	25		
		1-1/2	12	1	230	B15P4MS15221	36	43	L15P4FMGS	21	13	P42B0015A2	29	OMO IDOE11	
		1/2	5 6	1	115	B15P4MS05131	22-1/4	27	L15P4CMGS	12-1/4	9	P43B0005A1	19	SMC-IR0511 SMC-CR0521	4
15**		3/4	8	1	230	B15P4MS05231	23 26	27 31	L15P4CMGS L15P4DMGS	13 15	9	P43B0005A2	19		
		1	10	1	230	B15P4MS07231	30	35		17	10	P43B0007A2	23	SMC-CR0721	4
	7.4//DE	1	9	3	230	B15P4MS10231	30	J 35	L15P4EMGS L15P4EMGS	15-1/2	10-1/4	P43B0010A2 P43B0010A3	23	SMC-CR1021	4
	3 WIRE	1	9	3	460				L15P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
		1-1/2	12	1	230	B15P4MS15231	34	41	L15P4FMGS	21	13	P43B0010A4	27	SMC-CR1521	7
		1-1/2	12	3	230	D10F4F1010201] 14	41	L15P4FMGS	20-1/4	13	P43B0015A2	23	3110-011021	/
		1-1/2	12	3	460				L15P4FMGS	20-1/4	13	P43B0015A3	23		
		3/4	6	1	230	B20P4MS07221	23-3/4	30	L20P4DMGS	13	9	P42B0007A2	23		
	2 WIRE	1	7	1	230	B20P4MS10221	27-1/4	34	L20P4EMGS	15	10	P42B0010A2	25		
	2 WIKE	1-1/2	10	1	230	B20P4MS15221	32	39	L20P4FMGS	17	11	P42B0015A2	29		
		3/4	6	1	230	B20P4MS07231	23-3/4	30	L20P4DMGS	13	9	P43B0007A2	23	SMC-CR0721	4
		1	7	1	230	B20P4MS10231	27-1/4	34	L20P4EMGS	15	10	P43B0010A2	25	SMC-CR1021	4
		1	7	3	230	5201 111010201			L20P4EMGS	15-1/2	10-1/4	P43B0010A3	23	0110 0111021	
20**		1	7	3	460				L20P4EMGS	15-1/2	10-1/4	P43B0010A4	23		
		1-1/2	10	1	230	B20P4MS15231	30-1/2	39	L20P4FMGS	17	11	P43B0015A2	29	SMC-CR1521	7
	3 WIRE	1-1/2	9	3	230			,	L20P4FMGS	16-3/4	10-3/4	P43B0015A3	23		
		1-1/2	9	3	460				L20P4FMGS	16-3/4	10-3/4	P43B0015A4	23		
		2	12	1	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A2	31	SMC-CR2021	7
		2	12	3	230				L20P4GMGS	20-1/4	12-1/2	P43B0020A3	23		
		2	12	3	460				L20P4GMGS	20-1/4	12-1/2	P43B0020A4	23		
	0.4410=	1	5	1	230	B30P4MS10221	26-1/2	35	L30P4EMGS	14	10	P42B0010A2	25		
	2 WIRE	1-1/2	6	1	230	B30P4MS15221	30-1/2	39	L30P4FMGS	15-1/4	11	P42B0015A2	29		
		1	5	1	230	B30P4MS10231	26-1/2	35	L30P4EMGS	14	10	P43B0010A2	23	SMC-CR1021	4
		1	5	3	230				L30P4EMGS	15-1/2	10-1/4	P43B0010A3	23		
		1	5	3	460				L30P4EMGS	15-1/2	10-1/4	P43B0010A4	23		
30**		1-1/2	6	1	230	B30P4MS15231	29	39	L30P4FMGS	15-1/4	11	P43B0015A2	27	SMC-CR1521	7
	3 WIRE	1-1/2	6	3	230				L30P4FMGS	15-1/4	11	P43B0015A3	23		
		1-1/2	6	3	460				L30P4FMGS	15-1/4	11	P43B0015A4	23		
		2	8	1	230				L30P4GMGS	18-1/4	12	P43B0020A2	31	SMC-CR2021	7
		2	8	3	230				L30P4GMGS	18-1/4	12	P43B0020A3	23		
		2	8	3	460				L30P4GMGS	18-1/4	12	P43B0020A4	23		

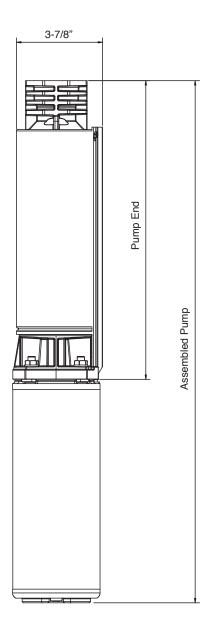
[†]For all Pentek XE series three-phase motor options, see page 65. *Length and Weight are approximate.

^{**}For 10 GPM, 15 GPM, 20 GPM and 30 GPM discharge is 1-1/4" NPT.

 $^{{\}tt NOTE: On 2 HP and larger pumps-Motor, Control \ Box \ or \ Magnetic \ Starter \ must \ be \ ordered \ separately.}$

Composite

OUTLINE DIMENSIONS

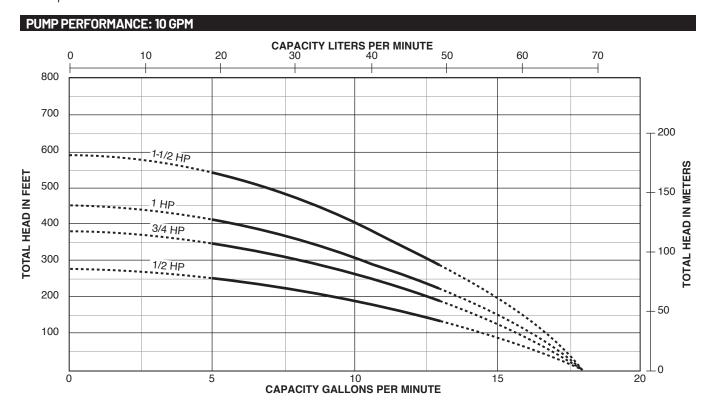


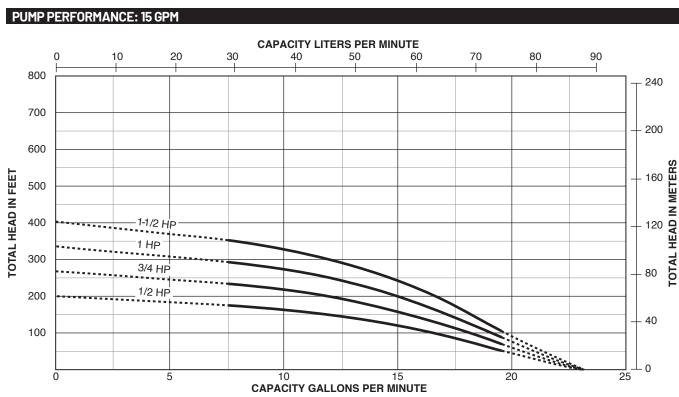
DISC	HARGE
10 GPM	1-1/4" NPT
15 GPM	1-1/4" NPT
20 GPM	1-1/4" NPT
30 GPM	1-1/4" NPT

For lengths, refer to Ordering Information tables.

Dimensions (in inches) are for estimating purposes only.

Composite

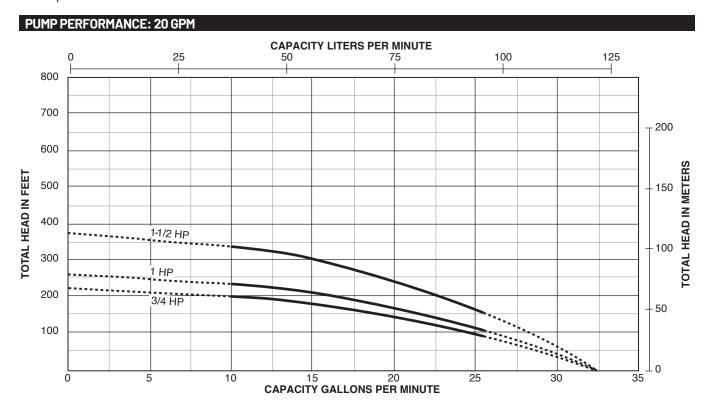




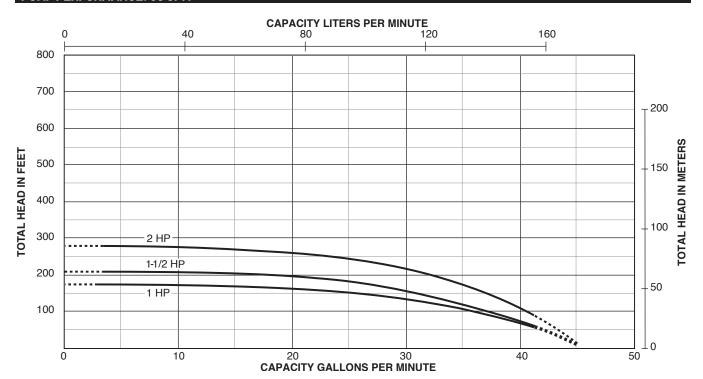
 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite







 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite

											PU	MPIN	IG DE	:PTH	IN FE	ΕT										SHUT HE	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	FEET	PS
	0	-	-	-	-	-	14.7	13.8	12.9	11.8	10.7	9.4	8.0	6.3	4.1												
	20	-	-	-	14.4	13.5	12.5	11.5	10.3	9.0	7.5	5.7	3.2														
	30	-	-	14.3	13.4	12.4	11.3	10.1	8.8	7.3	5.4	2.7															
1/2	40	-	14.2	13.2	12.2	11.1	9.9	8.6	7.0	5.1	2.0															278	12
17 2	50	14.0	13.1	12.1	11.0	9.7	8.4	6.8	4.7																	2/0	12
	60	12.9	11.9	10.8	9.5	8.1	6.5	4.3																			
	70	11.7	10.6	9.3	7.9	6.2	3.9																				
	80	10.4	9.1	7.7	5.9	3.4																					
	0	-	-	_	-	_	_	-	14.6	14.0	13.3	12.6	11.8	11.0	10.1	9.2	8.2	7.0	5.6	3.9							
	20	-	-	-	-	-	14.4	13.8	13.1	12.3	11.6	10.7	9.9	8.9	7.8	6.6	5.1	3.2									
	30	-	-	_	15.0	14.3	13.7	13.0	12.2	11.5	10.6	9.7	8.7	7.6	6.4	4.9	2.8										
3/4	40	-	-	14.9	14.2	13.6	12.9	12.1	11.3	10.5	9.6	8.6	7.5	6.2	4.6	2.4										382	16
0, 1	50	15.4	14.8	14.1	13.5	12.7	12.0	11.2	10.3	9.4	8.4	7.3	6.0	4.3												002	
	60	14.7	14.0	13.3	12.6	11.9	11.1	10.2	9.3	8.2	7.1	5.7	4.0														
	70	13.9	13.2	12.5	11.8	10.9	10.1	9.1	8.1	6.9	5.5	3.7															
	80	13.1	12.4	11.6	10.8	9.9	9.0	7.9	6.7	5.3	3.4																
	0	-	-	-	-	-	-	-	-	14.8	14.2	13.7	13.1	12.5	11.8	11.1	10.4	9.6	8.8	7.9	6.9	5.7					
	20	-	-	-	-	-	-	14.6	14.1	13.5	12.9	12.3	11.6	10.9	10.2	9.4	8.5	7.6	6.6	5.3	3.8						
	30	-	-	-	-	-	14.5	14.0	13.4	12.8	12.2	11.5	10.8	10.1	9.3	8.4	7.5	6.4	5.1	3.5							
1	40	-	-	-	15.0	14.5	13.9	13.3	12.7	12.1	11.4	10.7	9.9	9.1	8.3	7.3	6.2	4.9	3.2							452	19
	50	-	-	14.9	14.4	13.8	13.2	12.6	12.0	11.3	10.6	9.8	9.0	8.1	7.1	6.0	4.7	2.9									
	60	-	14.8	14.3	13.7	13.1	12.5	11.9	11.2	10.5	9.7	8.9	8.0	7.0	5.8	4.4	2.6										
	70	14.7	14.2	13.6	13.0	12.4	11.8	11.1	10.4	9.6	8.7	7.8	6.8	5.6	4.2	2.2											
	80	14.1	13.5	12.9	12.3	11.7	11.0	10.2	9.5	8.6	7.7	6.6	5.4	3.9	17.7	17.7	10.0	10.7	11.0	11.7	10.0	10.0	0.0	0.0	/ 7		
	0	-	-	-	-	-	-	-	-	1/. 0	1/. /.	15.0	14.6	14.1	13.7	13.3	12.8	12.3	11.8	11.3	10.8	10.2	8.6	6.8	4.3		
	20	-	-		-		-	-	1/. 0	14.9	14.4	14.0	13.6	13.1	12.6	12.2	11.7	11.1	10.6	10.0	9.4	8.8	6.9	4.5			
	30	-	-	-	-	-	-	1/. 7	14.8	14.4	13.9	13.5	13.0	12.6	12.1	11.6	11.1	10.5	9.9	9.3	8.7	8.0	5.9	2.9			
-1/2	40 50	-	-	-	-	-	14.7	14.7	14.3	13.9	13.4	13.0	12.5	12.0	11.5	11.0	10.4	9.8	9.2	8.6	7.9	7.1 6.1	4.7 3.2			590	25
		-	-	-	- 1E 0	1/. 0	14.7	14.2	13.3	12.8	12.9	11.9	11.9	11.4	10.9	9.6	9.7	9.1	7.6	7.7 6.8	7.0	4.9	3.2				
	60 70	-	-	1/. 0	15.0 14.5	14.6	13.7	13.2	12.8	12.8	11.8	11.3	11.3	10.8	9.5	8.9	9.0	7.5	6.7	5.8	6.0 4.8	3.5					
	80	- -	14.9	14.9	14.5	14.1	13.2	12.7	12.8	11.7	11.8	10.6	10.7	9.5	8.8	8.9	7.4	6.6	5.7	4.6	3.3	3.5		-			

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source[®] tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite

										PUM	PING	DEPT	HINI	EET										T-OFF AD
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI
	0	-	-	20.5	19.2	17.8	16.3	14.7	12.8	10.5	7.5													
	20	20.1	18.8	17.4	15.8	14.1	12.1	9.7	6.2															
	30	18.6	17.1	15.6	13.8	11.8	9.2	5.5																
1/2	40	16.9	15.3	13.5	11.4	8.8	4.6																201	87
1/2	50	15.1	13.2	11.0	8.3	3.4																	201	07
	60	12.9	10.7	7.8																				
	70	10.3	7.2																					
	80	6.6																						
	0	-	-	-	20.2	19.2	18.2	17.1	15.9	14.7	13.3	11.7	9.8	7.5	3.6									
	20	20.8	19.9	18.9	17.9	16.7	15.5	14.2	12.8	11.2	9.2	6.6												
	30	19.7	18.7	17.7	16.6	15.4	14.0	12.6	10.9	8.8	6.1													
3/4	40	18.6	17.5	16.4	15.2	13.8	12.3	10.6	8.5	5.5													269	116
0/ 4	50	17.3	16.2	15.0	13.6	12.1	10.3	8.1	4.8														200	"
	60	16.0	14.8	13.4	11.8	10.0	7.7	4.0																
	70	14.5	13.1	11.5	9.7	7.3	3.0																	
	80	12.9	11.3	9.3	6.8																			
	0	-	-	-	-	20.4	19.6	18.7	17.8	16.9	15.9	14.8	13.6	12.3	10.9	9.3	7.3	4.5						
	20	-	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.4	13.2	11.9	10.4	8.7	6.6	3.2								
	30	20.9	20.1	19.2	18.3	17.4	16.4	15.4	14.3	13.0	11.7	10.2	8.4	6.2	2.4									
1	40	19.9	19.1	18.2	17.3	16.3	15.2	14.1	12.8	11.5	9.9	8.1	5.7										336	145
	50	18.9	18.0	17.1	16.1	15.0	13.9	12.6	11.3	9.7	7.8	5.3												
	60	17.9	17.0	15.9	14.9	13.7	12.4	11.0	9.4	7.5	4.8													
	70	16.8	15.8 14.5	14.7	13.5	12.2	10.8	9.1	3.6	4.2														
	0	10.0	14.5	- 10.0	12.0	20.5	19.9	19.2	18.5	17.8	17.1	16.3	15.5	14.7	13.7	12.8	11.7	10.5	9.1	7.5	5.3			
	20	-	20.9	20.3	19.7	19.0	18.3	17.6	16.9	16.1	15.3	14.4	13.4	12.4	11.3	10.1	8.7	6.9	4.3	7.0	0.0			
	30	20.8	20.9	19.6	18.9	18.2	17.5	16.7	16.0	15.1	14.2	13.3	12.3	11.2	9.9	8.4	6.6	3.8	T.U					
	40	20.0	19.5	18.8	18.1	17.4	16.6	15.8	15.0	14.1	13.1	12.1	11.0	9.7	8.2	6.2	3.0	0.0	-					
1-1/2	50	19.4	18.7	18.0	17.3	16.5	15.7	14.9	14.0	13.0	11.9	10.8	9.5	7.9	5.9	1.8	0.0						403	174
	60	18.6	17.9	17.1	16.4	15.6	14.7	13.8	12.8	11.8	10.6	9.2	7.6	5.5	0.0	1.0								
	70	17.8	17.0	16.3	15.4	14.6	13.7	12.7	11.6	10.4	9.0	7.3	5.1	0.0										
	80	16.9	16.1	15.3	14.4	13.5	12.5	11.4	10.2	8.8	7.0	4.6	0.1											

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite

20 GAL	LONS PE	ER MI	NUTE						PUI	MP PI	ERF0	RMA	NCE	(Capa	city i	n gall	ons p	er mi	nute)					
										PUM	PING	DEPT	HIN	FEET									SHUT HE	
HP	PSI	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	FEET	PSI
	0	-	-	-	-	26.9	25.0	23.0	20.7	18.1	15.1	11.3	4.9											
	20	-	-	26.3	24.4	22.3	19.9	17.3	14.1	9.8														
	30	27.9	26.1	24.1	21.9	19.6	16.8	13.5	9.0															
3/4	40	25.8	23.8	21.6	19.2	16.4	12.9	8.0															225	97
3/4	50	23.4	21.2	18.8	15.9	12.3	7.0																223	37
	60	20.9	18.3	15.4	11.6	5.7																		
	70	17.9	14.9	10.9	3.8																			
	80	14.3	10.2																					
	0	-	-	-	_	27.9	26.4	24.7	23.0	21.0	18.9	16.5	13.6	10.0	2.8									
	20	-	-	27.5	25.9	24.2	22.4	20.4	18.2	15.7	12.6	8.5												
	30	-	27.2	25.6	23.9	22.1	20.1	17.8	15.2	12.1	7.6													
1	40	27.0	25.4	23.7	21.8	19.7	17.5	14.8	11.5	6.6													262	114
•	50	25.1	23.4	21.5	19.4	17.1	14.3	10.9	5.5														202	
	60	23.1	21.2	19.1	16.7	13.9	10.3	3.9																
	70	20.9	18.7	16.3	13.4	9.6																		
	80	18.4	15.9	12.9	8.8			07.0		05.0	0//	07.4	04.5		40.0	40.0	45.0	40.7	40.0	0.4				
	0	-	-	-	_	- 07.5	-	27.9	26.8	25.6	24.4	23.1	21.7	20.2	18.6	16.9	15.0	12.7	10.0	6.1				
	20	-	_	-	07/	27.5	26.4	25.2	24.0	22.6	21.3	19.8	18.1	16.3	14.3	12.0	9.0	4.1						
	30	-	-	07.0	27.4	26.2	25.0	23.8	22.4	21.0	19.5	17.9	16.0	14.0	11.6	8.4	2.6							
1-1/2	40 50	- -	27.0	27.2	26.0	24.8	23.6	22.2	20.8	19.3	17.6 15.4	15.7	13.6	7.2	7.8								375	162
	60	26.8	25.7	24.4	23.2	21.8	20.3	18.8	17.0	15.1	12.9	10.2	6.5	1.2										
	70	25.5	24.2	23.0	21.6	20.1	18.5	16.8	14.8	12.5	9.7	5.6	0.0											
	80	24.1	22.7	21.4	19.9	18.2	16.5	14.5	12.2	9.2	4.7	5.0												
	00	24.1	22.1	21.4	13.3	10.2	10.0	14.0	12.2	3.2	4.7													

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite

30 GAL	LONS PE	R MINU	ITE						PUMP	PERF0	RMANO	E (Capa	icity in g	allons p	er minu	te)	
							PUM	PING DE	PTH IN I	FEET						SHUT HE	T-OFF AD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	400	450	FEET	PSI
	0	_	_	40.9	39.1	36.8	32.5	26.0	8.0								
	20	40.4	38.8	36.0	32.4	27.7	13.3										
1	30	38.0	35.3	31.7	26.3	14.3										175	76
'	40	35.0	31.4	25.9	12.1] 1/3	/0
	50	30.2	24.0	3.0													
	60	21.9															
	0	_	_	41.9	39.9	37.5	34.1	30.9	26.9	17.0							
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5									
1-1/2	30	38.9	36.1	33.8	31.0	27.9	21.8									210	91
1-1/2	40	36.0	33.5	30.8	27.7	20.2										2.0	J.
	50	32.9	30.1	26.8	21.5												
	60	29.5	25.9	18.1													
	0	-	-	-	41.8	40.5	38.8	36.8	34.7	31.6	23.7						
	20	_	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8							
2	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2						280	121
	40	39.9	38.3	36.6	34.8	32.7	29.8	25.1	16.1								
	50	38.0	36.3	34.5	32.1	30.0	25.3	17.5									
	60	36.0	34.0	31.9	29.1	26.0	18.0										

CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

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NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

Composite









The K Series 4" Submersible Pumps in 5, 7, 10 and 20 GPM models offer dependable performance and value.

K Series pumps will handle dry run conditions.

Proven "Floating Impeller" staging system is designed with a corrosive resistant stainless steel wear surface that greatly reduces problems with abrasives and sand lock-up.

Powered by water-filled submersible motors.

APPLICATIONS

Water systems... for residential, commercial, irrigation and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Fiberglass-reinforced

thermoplastic

Discharge Bearing: Nylatron°

Impellers: Acetal

Diffusers: Polycarbonate

Suction Caps: Polycarbonate with stainless

steel insert

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

300 grade

Motor Bracket/Intake Screen Fiberglass-

41

reinforced thermoplastic

Spring-loaded Check Valve: Durable

internal check valve

Cable Guard: Rigid PVC

FEATURES

and abrasion.

Proven "Floating Impeller" Staging System: Incorporates 1st-in-class performance, sand handling and thrust management staging system with the industry exclusive "dry-run" design element. Reinforced engineered composites and stainless steel, offering high resistance to corrosion

Discharge: Tested-tough, fiberglass-reinforced thermoplastic, with proven internal check valve. Large wrench flats and rope hole.

Shell: 300-grade stainless steel pump shell offers high corrosion resistance.

Shaft: Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing: Exclusive self-lubricating Nylatron* bearing resists wear surface from sand..

Motor Bracket: Tested-tough, fiberglass-reinforced thermoplastic; incorporates an integral suction screen.

Cable Guard: Corrosion resistant rigid PVC with 300-grade stainless steel fasteners.

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Composite

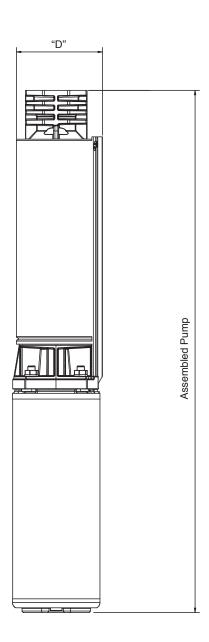
ORDERING I	NFORMATION							
GPM	Motor Type	НР	Stages	Phase	Volt	Catalog Number	Assembled Pump Length Inches*	Weight Pounds*
		1/2	12	1	115V	B5K05121	23.36	27.2
	0 .	1/2	12	1	230V	B5K05221	23.36	27.2
	2 wire	3/4	17	1	230V	B5K07221	29.66	32.7
5 GPM		1	21	1	230V	B5K10221	33.78	35.5
		1/2	12	1	230V	B5K05231	22.06	26.1
	3 wire	3/4	17	1	230V	B5K07231	28.06	31.4
		1	21	1	230V	B5K10231	32.48	34.1
		1/2	10	1	115V	B7K05121	21.52	27.2
	0 :	1/2	10	1	230V	B7K05221	21.52	27.2
	2 wire	3/4	13	1	230V	B7K07221	25.64	32.7
7 GPM		1	17	1	230V	B7K10221	30.26	35.5
		1/2	10	1	230V	B7K05231	20.20	26.1
	3 wire	3/4	13	1	230V	B7K07231	24.04	31.4
		1	17	1	230V	B7K10231	28.96	34.1
		1/2	7	1	115V	B10K05121	18.86	27.2
		1/2	7	1	230V	B10K05221	18.86	27.2
	2 wire	3/4	9	1	230V	B10K07221	22.02	32.7
		1	12	1	230V	B10K10221	25.36	35.5
10 GPM		11/2	16	1	230V	B10K15221	31.08	42.9
		1/2	7	1	230V	B10K05231	17.56	26.1
	.	3/4	9	1	230V	B10K07231	20.42	31.4
	3 wire	1	12	1	230V	B10K10231	24.06	34.1
		11/2	16	1	230V	B10K15231	29.68	41.4
	0	1	7	1	230V	B20K10221	20.86	35.5
00.0014	2 wire	11/2	9	1	230V	B20K15221	24.32	42.9
20 GPM	7 .	1	7	1	230V	B20K10231	19.56	34.1
	3 wire	11/2	9	1	230V	B20K15231	22.92	41.4

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^{*}Length and weight is approximate

Composite

OUTLINE DIMENSIONS



	DISCHAF	RGE
GPM	NPT	"D"
5	1-1/4"	3-3/4"
7	1-1/4"	3-3/4"
10	1-1/4"	3-7/8"
20	1-1/4"	3-7/8"

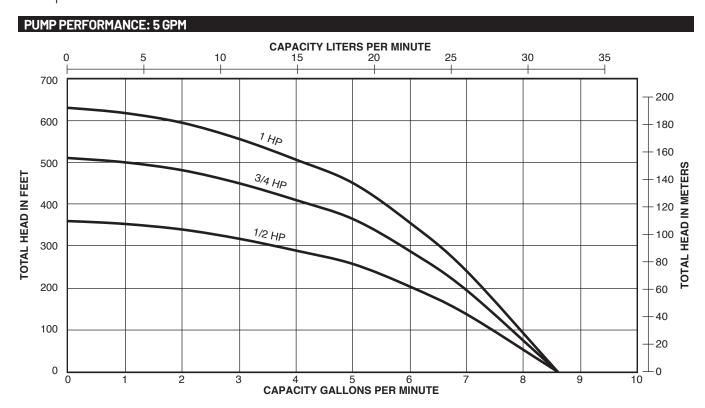
For lengths, refer to Ordering Information tables.

Dimensions (in inches) are for estimating purposes only.

CB10232WS

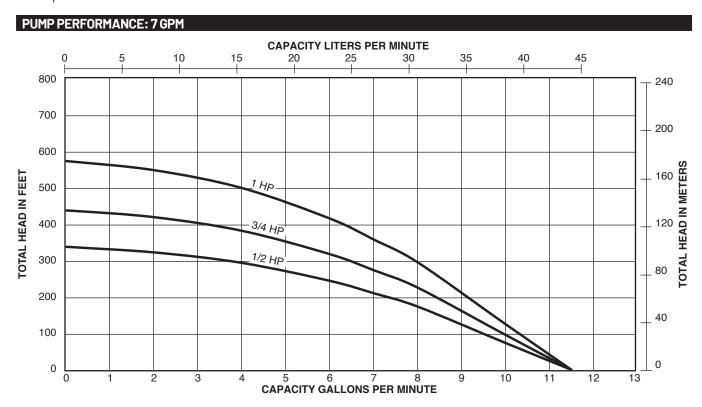
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Composite



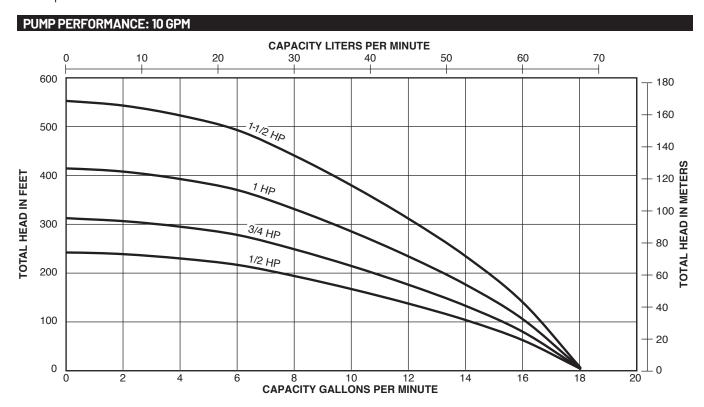
CAPACITY	NUALI	UNS P	=R MINU	ЛE													
								PUM	PING DE	PTH IN	FEET						
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500	600
	0	-	-	-	-	-	-	-	-	7.5	7.3	6.9	6.4	6.0	5.4	4.2	2.2
	20	-	-	-	-	-	-	7.5	7.3	7.1	6.9	6.5	6.0	5.5	4.9	3.4	
	30	-	-	-	-	-	7.5	7.3	7.1	6.9	6.7	6.2	5.8	5.2	4.6	3.0	
21 STAGES,	40	-	-	-	-	7.5	7.3	7.1	6.9	6.7	6.5	6.0	5.5	5.0	4.3	2.4	
1HP	50	-	-	-	7.4	7.3	7.1	6.9	6.7	6.5	6.3	5.8	5.3	4.7	4.0	1.5	
	60	-	-	7.4	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.6	5.0	4.4	3.6		
	70	-	7.4	7.2	7.1	6.9	6.8	6.5	6.3	6.1	5.8	5.3	4.7	4.0	3.1		
	80	7.4	7.2	7.1	6.9	6.7	6.6	6.3	6.1	5.9	5.6	5.0	4.4	3.6	2.6		
	0	-	-	-	-	-	-	-	7.4	7.1	6.9	6.3	5.7	5.1	4.3	1.3	
	20	-	-	-	-	-	7.4	7.2	6.9	6.7	6.4	5.8	5.1	4.3	3.3		
	30	-	-	-	-	7.4	7.2	6.9	6.7	6.4	6.1	5.5	4.8	3.9	2.7		
17 STAGES,	40	-	-	7.5	7.4	7.2	7.0	6.7	6.4	6.1	5.8	5.2	4.4	3.4	1.8		
0.75HP	50	-	7.5	7.3	7.1	6.9	6.7	6.4	6.2	5.9	5.5	4.8	4.0	2.8			
	60	7.5	7.3	7.1	6.9	6.7	6.5	6.2	5.9	5.6	5.2	4.5	3.5	2.0			
	70	7.3	7.1	6.9	6.7	6.4	6.2	5.9	5.6	5.3	4.9	4.1	3.0				
	80	7.0	6.8	6.6	6.4	6.2	5.9	5.6	5.3	4.9	4.5	3.6	2.2				<u> </u>
	0	-	-	-	-	-	7.5	7.1	6.7	6.4	6.0	5.0	3.8	1.6			
	20	-	-	-	7.4	7.1	6.8	6.4	6.0	5.6	5.1	3.9	1.9				
	30	-	-	7.3	7.1	6.8	6.5	6.0	5.6	5.1	4.6	3.2					
12 STAGES,	40	-	7.3	7.0	6.7	6.4	6.1	5.6	5.2	4.6	4.0	2.2					
0.5HP	50	7.2	7.0	6.7	6.4	6.0	5.7	5.2	4.7	4.1	3.3						
	60	6.9	6.6	6.3	6.0	5.6	5.2	4.7	4.1	3.4	2.4						
	70	6.6	6.3	5.9	5.6	5.2	4.8	4.2	3.5	2.5							
	80	6.2	5.9	5.5	5.1	4.7	4.2	3.5	2.6								

Composite



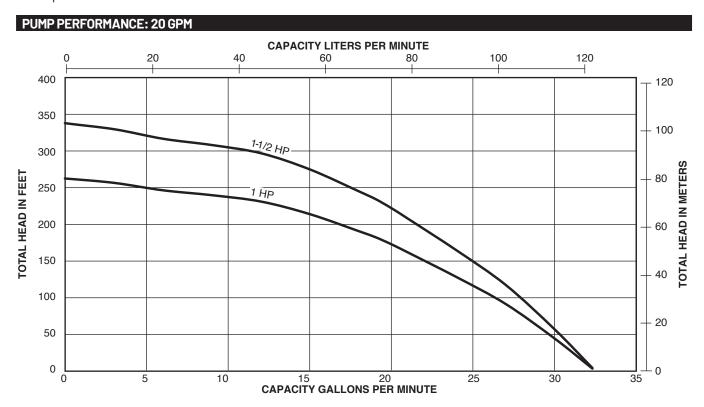
CAPACITY IN	GALLO	NS PER	MINUT	Έ													
								PUM	PING DE	PTH IN	FEET						
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500	600
	0	-	-	11.0	10.8	10.6	10.4	10.1	9.8	9.5	9.2	8.6	7.9	7.1	6.2	4.0	
	20	11.0	10.8	10.6	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.9	7.2	6.3	5.3	2.4	
	30	10.7	10.5	10.3	10.1	9.8	9.6	9.3	9.0	8.6	8.3	7.6	6.8	5.9	4.8		
17 STAGES,	40	10.5	10.3	10.0	9.8	9.6	9.3	9.0	8.7	8.3	8.0	7.2	6.4	5.4	4.2		
1HP	50	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.0	7.6	6.8	5.9	4.9	3.5		
	60	10.0	9.7	9.5	9.2	9.0	8.7	8.4	8.0	7.7	7.3	6.4	5.5	4.3	2.7		
	70	9.7	9.4	9.2	8.9	8.7	8.4	8.1	7.7	7.3	6.9	6.0	5.0	3.7			
	80	9.4	9.2	8.9	8.6	8.4	8.1	7.7	7.3	6.9	6.5	5.6	4.4	2.8			
	0	-	-	10.9	10.6	10.3	10.1	9.7	9.3	8.9	8.4	7.5	6.4	5.1	3.3		
	20	10.8	10.5	10.3	10.0	9.6	9.3	8.9	8.5	8.0	7.5	6.5	5.2	3.4			
	30	10.5	10.2	9.9	9.6	9.3	8.9	8.5	8.1	7.6	7.1	5.9	4.5	2.3			
13 STAGES,	40	10.2	9.9	9.6	9.2	8.9	8.6	8.1	7.6	7.1	6.6	5.3	3.6				
0.75HP	50	9.8	9.5	9.2	8.8	8.5	8.1	7.7	7.1	6.6	6.0	4.6	2.5				
	60	9.5	9.1	8.8	8.4	8.1	7.7	7.2	6.6	6.0	5.4	3.8					
	70	9.1	8.7	8.4	8.0	7.6	7.2	6.7	6.1	5.4	4.7	2.7					
	80	8.7	8.3	8.0	7.6	7.2	6.7	6.1	5.5	4.8	3.9						
	0	-	-	10.8	10.4	10.0	9.6	9.1	8.5	7.9	7.3	5.8	3.7				
	20	10.6	10.3	9.9	9.5	9.0	8.6	8.0	7.4	6.7	5.9	3.9					
	30	10.2	9.8	9.4	9.0	8.5	8.0	7.4	6.7	5.9	5.1	2.5					
10 STAGES,	40	9.7	9.3	8.9	8.4	8.0	7.5	6.8	6.0	5.1	4.1						
0.5HP	50	9.3	8.8	8.4	7.9	7.4	6.8	6.1	5.2	4.2	2.8						
	60	8.8	8.3	7.8	7.3	6.7	6.1	5.3	4.3	2.9							
	70	8.2	7.7	7.2	6.6	6.0	5.3	4.3	3.0								
	80	7.7	7.1	6.6	5.9	5.2	4.4	3.2									

Composite



CAPACITY	N GALL	ONS PE	R MINUT	Έ												
	DOL							PUMPIN	DEPTH	IN FEET						
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500
	0	-	-	-	-	-	-	-	-	-	14.6	13.5	12.3	11.0	9.5	5.6
	20	-	-	-	-	-	-	-	14.6	14.1	13.6	12.4	11.1	9.7	8.0	2.0
	30	-	-	-	-	-	-	14.7	14.1	13.6	13.0	11.8	10.5	8.9	7.0	
16 STAGES,	40	-	-	-	-	-	14.7	14.2	13.6	13.1	12.5	11.2	9.8	8.1	6.0	
I.5HP	50	-	-	-	-	14.6	14.2	13.7	13.1	12.5	11.9	10.6	9.0	7.2	4.7	
	60	-	-	15.0	14.6	14.2	13.7	13.2	12.6	12.0	11.3	9.9	8.2	6.2	2.9	
	70	-	14.9	14.5	14.1	13.7	13.2	12.6	12.0	11.4	10.7	9.2	7.4	4.9		
	80	14.9	14.5	14.0	13.6	13.1	12.7	12.1	11.4	10.7	10.0	8.4	6.3	3.2		
	0	-	-	-	-	-	-	-	14.6	13.8	13.1	11.5	9.5	7.1	3.4	
	20	-	-	-	-	-	14.7	14.0	13.2	12.4	11.6	9.7	7.4	3.8		
	30	-	-	-	-	14.6	14.0	13.3	12.5	11.7	10.8	8.7	6.0			
12 STAGES,	40	-	-	15.0	14.5	13.9	13.3	12.6	11.7	10.8	9.9	7.6	4.2			
1HP	50	-	15.0	14.4	13.8	13.2	12.6	11.8	10.9	9.9	8.9	6.2				
	60	14.9	14.3	13.7	13.1	12.5	11.9	11.0	10.0	9.0	7.8	4.5				
	70	14.2	13.6	13.0	12.4	11.7	11.0	10.1	9.0	7.9	6.5					
	80	13.6	12.9	12.3	11.6	10.9	10.2	9.1	7.9	6.6	4.8					
	0	-	-	-	-	-	15.0	14.1	13.1	12.0	10.9	8.0	3.4			
	20	-	-	-	14.8	14.0	13.3	12.2	11.0	9.8	8.3	3.9				
	30	-	-	14.7	13.9	13.1	12.3	11.1	9.9	8.4	6.6					
9 STAGES,	40	-	14.6	13.8	13.0	12.1	11.2	10.0	8.5	6.8	4.4					
0.75HP	50	14.4	13.7	12.9	12.0	11.1	10.1	8.6	6.9	4.6						
	60	13.6	12.7	11.9	10.9	9.9	8.7	7.1	4.8							
	70	12.6	11.7	10.8	9.7	8.6	7.2	5.0								
	80	11.6	10.6	9.6	8.4	7.0	5.2									
	0	-	-	-	-	14.9	13.9	12.7	11.2	9.5	7.5					
	20	-	-	14.6	13.6	12.6	11.4	9.8	7.9	5.3						
	30	-	14.5	13.5	12.4	11.2	9.9	8.0	5.5							
7 STAGES,	40	14.3	13.3	12.2	11.1	9.7	8.2	5.7								
0.5HP	50	13.2	12.1	10.9	9.5	7.9	6.0									
	60	11.9	10.7	9.3	7.7	5.6	2.1									
	70	10.5	9.0	7.4	5.2											
	80	8.8	7.1	4.8												

Composite



CAPACITY	IN GALLO	NS PER M	IINUTE										
	DOL					Pl	JMPING DE	PTH IN FE	ET				
	PSI	0	20	40	60	80	100	125	150	175	200	250	300
	0	-	-	-	-	-	27.7	26.3	24.8	23.2	21.4	17.4	11.6
	20	-	-	-	27.4	26.2	25.0	23.4	21.7	19.8	17.7	12.2	
	30	-	-	27.2	26.0	24.8	23.6	21.9	20.0	17.9	15.4	8.0	
9 STAGES,	40	-	27.0	25.9	24.6	23.4	22.0	20.1	18.0	15.6	12.7		
1.5HP	50	26.8	25.7	24.5	23.2	21.8	20.3	18.2	15.8	12.9	8.9		
	60	25.5	24.3	22.9	21.5	20.0	18.4	16.0	13.2	9.2			
	70	24.1	22.7	21.3	19.8	18.1	16.2	13.4	9.6				
	80	22.5	21.1	19.5	17.8	15.9	13.7	10.0					
	0	-	-	-	-	27.6	26.1	24.1	22.0	19.5	16.7	7.4	
	20	-	-	27.1	25.6	24.0	22.3	19.9	17.1	13.7	8.6		
	30	-	26.9	25.4	23.8	22.0	20.1	17.4	14.0	9.1			
7 STAGES,	40	26.7	25.1	23.5	21.7	19.8	17.6	14.3	9.6				
1HP	50	24.9	23.2	21.4	19.5	17.2	14.6	10.1					
	60	23.0	21.2	19.1	16.8	14.1	10.5						
	70	20.9	18.8	16.5	13.6	9.8							
	80	18.5	16.1	13.1	9.0								

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Stainless Steel



KS Series 4" Submersible Pumps in 10 and 20 GPM models offer dependable performance and value.

KS Series pumps will handle dry run conditions.

Proven "Floating Impeller" staging system is designed with a corrosive resistant stainless steel wear surface that greatly reduces problems with abrasives and sand lock-up.

Powered by water-filled submersible motors.

APPLICATIONS

Water systems... for residential, commercial, irrigation and farm use.

SPECIFICATIONS

Shell: Stainless steel

Discharge: Stainless steel **Discharge Bearing:** Nylatron*

Impellers: Acetal

Diffusers: Polycarbonate

Suction Cap: Polycarbonate with stainless

steel wear ring

Thrust Pads: Proprietary spec.
Shaft and Coupling: Stainless steel

300 grade

Intake Screen: Polypropylene
Motor Bracket: Stainless steel

Check Valve: Durable internal check valve

Cable Guard: Rigid PVC

FEATURES

Proven "Floating Impeller" Staging System: Incorporates high performance, sand handling and thrust management staging system with "dry-run" design.
Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.

Discharge: Corrosion-resistant, heavy-duty 300-grade stainless steel with proven internal check valve. Large wrench flats and rope hole.

Shell: 300-grade stainless steel pump shell offers high corrosion resistance.

Shaft: Hexagonal 3/8", 300-grade stainless steel pump shaft; offers generous impeller drive surfaces.

Shaft Bearing: Exclusive self-lubricating Nylatron* bearing resists wear surface from sand.

Motor Bracket: Corrosion-resistant, heavyduty 300-grade stainless steel.

Cable Guard: Corrosion resistant rigid PVC with 300-grade stainless steel fasteners.

Pentek Motor: NEMA standard all stainless steel construction water-filled motors.

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Stainless Steel

ORDER	ING INFORMAT	ION					
GPM	Motor Type	HP	Phase	Volt	Assembled Pump Catalog Number	Assembled Pump Length Inches	Weight Pounds*
		1/2	1	115V	B10KS05121	23.32	35.2
		1/2	1	230V	B10KS05221	23.32	35.2
	2 wire	3/4	1	230V	B10KS07221	26.30	42.7
		1	1	230V	B10KS10221	29.72	46.5
10 ODM		11/2	1	230V	B10KS15221	34.94	56.9
10 GPM		1/2	1	115V	B10KS05131	22.42	34.9
		1/2	1	230V	B10KS05231	22.02	34.1
	3 wire	3/4	1	230V	B10KS07231	24.70	41.4
		1	1	230V	B10KS10231	28.42	45.1
		11/2	1	230V	B10KS15231	33.54	55.4
	2 wire	1	1	230V	B20KS10221	26.19	46.5
00 ODM	∠ wire	11/2	1	230V	B20KS15221	29.65	56.9
20 GPM	7:	1	1	230V	B20KS10231	24.89	45.1
	3 wire	11/2	1	230V	B20KS15231	28.25	55.4

^{*}Length and weight is approximate.

Stainless Steel

OUTLINE DIMENSIONS

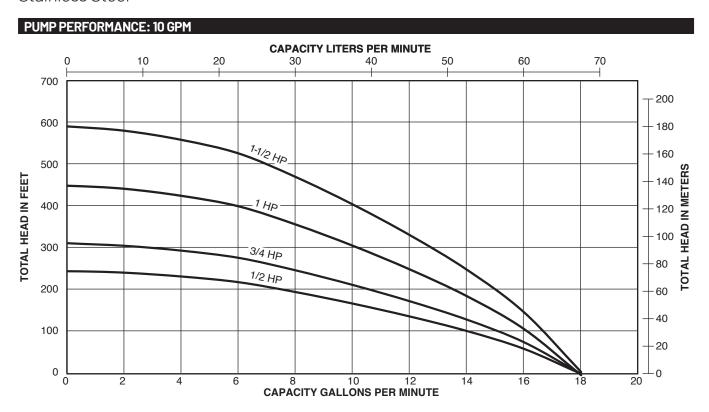


DISCH	ARGE
GPM	NPT
10	1-1/4
20	1-1/4

For lengths, refer to Ordering Information tables.

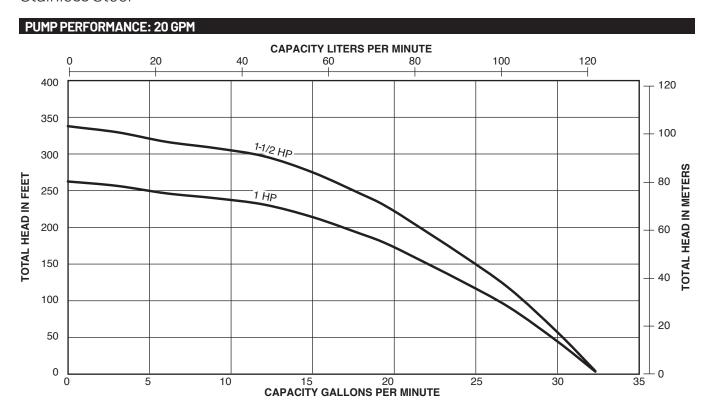
Dimensions (in inches) are for estimating purposes only.

Stainless Steel



CAPACITY	IN GAL	<u>Lons P</u>	<u>ER MINI</u>	UTE												
	DOL							PUMPING	DEPTH	IN FEET			•		•	
	PSI	0	20	40	60	80	100	125	150	175	200	250	300	350	400	500
	0	-	-	-	-	-	-	-	-	-	14.8	13.8	12.7	11.6	10.3	7.0
	20	-	-	-	-	-	-	-	14.9	14.4	13.9	12.8	11.7	10.4	8.9	4.8
	30	-	-	-	-	-	-	14.9	14.4	13.9	13.4	12.3	11.1	9.7	8.1	3.2
17 STAGES,	40	-	-	-	-	-	14.9	14.5	14.0	13.4	12.9	11.7	10.5	9.0	7.3	
1.5HP	50	-	-	-	-	14.9	14.5	14.0	13.5	12.9	12.4	11.2	9.8	8.3	6.3	
	60	-	-	-	14.8	14.4	14.0	13.5	13.0	12.4	11.8	10.6	9.1	7.4	5.2	
	70	-	-	14.8	14.4	14.0	13.6	13.0	12.5	11.9	11.3	9.9	8.4	6.5	3.8	
	80	-	14.7	14.3	13.9	13.5	13.1	12.5	11.9	11.3	10.7	9.2	7.6	5.4		
	0	-	-	-	-	-	-	-	14.9	14.2	13.6	12.1	10.5	8.5	6.0	
	20	-	-	-	-	-	15.0	14.3	13.7	13.0	12.2	10.6	8.7	6.2		
	30	-	-	-	-	14.9	14.4	13.7	13.0	12.3	11.5	9.8	7.6	4.6		
13 STAGES,	40	-	-	-	14.8	14.3	13.8	13.1	12.3	11.6	10.7	8.8	6.4	2.2		
1HP	50	-	-	14.7	14.2	13.7	13.1	12.4	11.6	10.8	9.9	7.8	4.9			
	60	-	14.7	14.1	13.6	13.0	12.5	11.7	10.9	10.0	9.0	6.6	2.8			
	70	14.6	14.1	13.5	13.0	12.4	11.7	10.9	10.0	9.1	8.0	5.2				
	80	14.0	13.4	12.9	12.3	11.7	11.0	10.1	9.2	8.1	6.8	3.2				
	0	-	-	-	-	-	15.0	14.1	13.1	12.0	10.9	8.0	3.4			
	20	-	-	-	14.8	14.0	13.3	12.2	11.0	9.8	8.3	3.9				
	30	-	-	14.7	13.9	13.1	12.3	11.1	9.9	8.4	6.6					
9 STAGES.	40	-	14.6	13.8	13.0	12.1	11.2	10.0	8.5	6.8	4.4					
0.75HP	50	14.4	13.7	12.9	12.0	11.1	10.1	8.6	6.9	4.6						
	60	13.6	12.7	11.9	10.9	9.9	8.7	7.1	4.8							
	70	12.6	11.7	10.8	9.7	8.6	7.2	5.0								
	80	11.6	10.6	9.6	8.4	7.0	5.2									
	0	-	-	-	-	14.9	13.9	12.7	11.2	9.5	7.5					
	20	-	-	14.6	13.6	12.6	11.4	9.8	7.9	5.3						
	30	-	14.5	13.5	12.4	11.2	9.9	8.0	5.5							
7 STAGES,	40	14.3	13.3	12.2	11.1	9.7	8.2	5.7								
0.5HP	50	13.2	12.1	10.9	9.5	7.9	6.0									
-	60	11.9	10.7	9.3	7.7	5.6	2.1									
	70	10.5	9.0	7.4	5.2	1										
	80	8.8	7.1	4.8		İ								İ		

Stainless Steel



CAPACITY	IN GALL	ONS PER	MINUTE										
	PSI					Pl	IMPING DE	PTH IN FE	ET				
	P51	0	20	40	60	80	100	125	150	175	200	250	300
	0	-	-	-	-	-	27.7	26.3	24.8	23.2	21.4	17.4	11.6
	20	-	-	-	27.4	26.2	25.0	23.4	21.7	19.8	17.7	12.2	
	30	-	-	27.2	26.0	24.8	23.6	21.9	20.0	17.9	15.4	8.0	
9 STAGES,	40	-	27.0	25.9	24.6	23.4	22.0	20.1	18.0	15.6	12.7		
1.5HP	50	26.8	25.7	24.5	23.2	21.8	20.3	18.2	15.8	12.9	8.9		
	60	25.5	24.3	22.9	21.5	20.0	18.4	16.0	13.2	9.2			
	70	24.1	22.7	21.3	19.8	18.1	16.2	13.4	9.6				
	80	22.5	21.1	19.5	17.8	15.9	13.7	10.0					
	0	-	-	-	-	27.6	26.1	24.1	22.0	19.5	16.7	7.4	
	20	-	-	27.1	25.6	24.0	22.3	19.9	17.1	13.7	8.6		
	30	-	26.9	25.4	23.8	22.0	20.1	17.4	14.0	9.1			
7 STAGES,	40	26.7	25.1	23.5	21.7	19.8	17.6	14.3	9.6				
1HP	50	24.9	23.2	21.4	19.5	17.2	14.6	10.1					
	60	23.0	21.2	19.1	16.8	14.1	10.5						
	70	20.9	18.8	16.5	13.6	9.8							
	80	18.5	16.1	13.1	9.0								

Stainless Steel



The 50 GPM Stainless Steel 4" High-Flo Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. New stack design delivers better efficiency and head per

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing, and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT Threads

Top Bearing: Nylatron®

Top Bearing Journal: 300 grade stainless

stee

Diffuser Assembly: Noryl® (20% glass

filled)

Impellers: Noryl (20% glass filled)
Bowls: Noryl (20% glass filled)
Diffuser Bearing: Nylatron

Diffuser Bearing Journal: 300 grade

stainless steel

Shaft: 300 grade stainless steel, 7/16" hex

stock

Coupling: 300 grade stainless steel **Shell:** 300 grade stainless steel

Motor Adapter: 300 grade stainless steel
Suction Screen: 300 grade stainless steel

Cable Guard: 300 grade stainless steel **Fastener:** 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Self-lubricated top bearing ensures long bearing life.

Impellers: 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

Diffuser Bearing: Bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

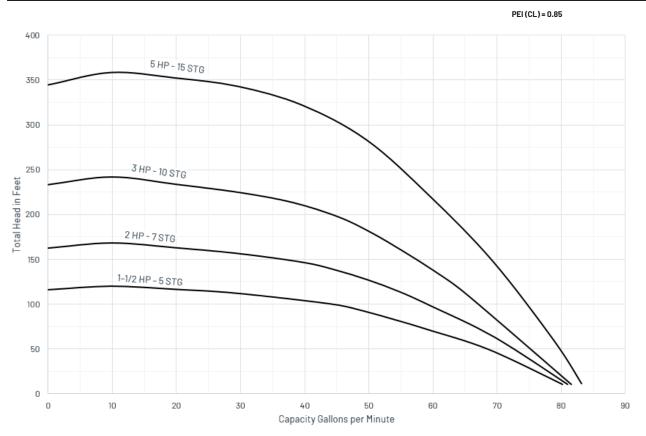
corrosion resistan**ce.**

Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging

solids entering the pump.

Stainless Steel





Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. Check valve sold separately.

Stainless Steel

								PU	MPING DE	PTH IN FE	ET								T-OFF AD
HP	PSI	20	40	60	80	100	125	150	175	200	250	300	350	450	550	650	700	FEET	PSI
	0	-	-	64	56	43													
	20	62	52	37															
1-1/2	30	50	34															116	51
1-1/2	40	48	30															1 110	5
	50	25]	
	60																		
	0	-	-	-	65	59	50	37]	
	20	-	64	57	50	39													
2	30	63	56	49	38													164	71
2	40	55	47	35														104	<i>'</i> '
	50	45	33																
	60	30																	<u> </u>
	0	-	-	-	-	67	63	57	51	43				-				-	
	20	-	- 66	66	62	58 53	52 45	45 35	34										
3	30 40	- 65	61	62 57	57 52	46	36	35										235	10
	50	61	56	51	45	37	30											-	
	60	55	50	44	35	07													
	0	-	-	-	-	-	-	69	66	63	55	45	26						
	20	-	-	-	-	-	66	63	59	56	46	29						1	ĺ
	30	-	-	-	-	67	63	60	56	52	40							1	1
5	40	-	-	-	66	64	60	56	52	47	31							346	150
	50	-	-	66	63	61	57	52	47	41								1	ĺ
	60	-	66	63	60	57	53	48	42	33								1	ĺ

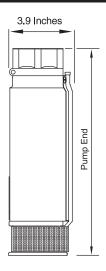
CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Stainless Steel

ORDEF	RING IN	FORM/	ATION								
					PUN	MP END		мото	DR .	CONTRO	L BOX
MOTOR TYPE	HP	STGS.	PH	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
2 WIRE	1.5	5	1	230	L50P4FMGS-05	18-3/4	11	P42B0015A2	29		
			1	230	L50P4FMGS-05	18-3/4	11	P43B0015A2	27	SMC-CR1521	7
	1.5	5	3	230	L50P4FMGS-05	18-3/4	11	P43B0015A3	23		
			3	460	L50P4FMGS-05	18-3/4	11	P43B0015A4	23		
			1	230	L50P4GMGS-05	24-1/8	16	P43B0020A2	31	SMC-CR2021	7
	2	7	3	230	L50P4GMGS-05	24-1/8	16	P43B0020A3	27		
7 W/IDE			3	460	L50P4GMGS-05	24-1/8	16	P43B0020A4	27		
3 WIRE			1	230	L50P4HMGS-05	32	19	P43B0030A2	40	SMC-CR3021	7
	3	10	3	230	L50P4HMGS-05	32	19	P43B0030A3	32		
			3	460	L50P4HMGS-05	32	19	P43B0030A4	32		
			3	230	L50P4JMGS-05	45-3/8	24	P43B0050A2	70	SMC-CR5021	8
	5	15	3	460	L50P4JMGS-05	45-3/8	24	P43B0050A3	55		
			3	460	L50P4JMGS-05	45-3/8	24	P43B0050A4	55		

^{*}Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



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Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.

Cast Iron



Precision-engineered, quality-built and rugged 70 GPM Series submersibles may be used in wells 4" or larger. Maximum outside diameter 3-7/8".

APPLICATIONS

Water Systems... for residential, industrial, commercial, multiple housing, and farm use.

SPECIFICATIONS

Discharge: Cast iron, ASTM A48 Class 30 **Pump Bowls:** Cast iron, ASTM A48 Class 30

Impellers: Noryl®

Upthrust Bearing: Nylatron®
Discharge Bearing: Nylatron
Bowl and Intake Bearings: Nitrile

(proprietary spec.)

Pump Shaft: 300 Series Stainless steel Lead Guard: 300 Series Stainless steel Intake Bracket: Cast iron, ASTM A48 Class

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Intake Screen: 300 Series Stainless steel
Pump/Motor Coupling: 300 Series

Stainless steel

FEATURES

Discharge: Heavy-duty cast iron construction provides smooth water passage to column pipe. NPT threads standard.

Pump Bowls: Highly efficient hydraulic design...threaded bowl design in gray cast iron

Impellers: 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

Upthrust Bearing: Nylatron upthrust bearing provides positive momentary upthrust protection during start-up.

Diffuser Bearing: Bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

57

Bowl and Intake Bearings: Fluted, cutless rubber type assures superior abrasive-handling characteristics, located at each stage.

Stainless Steel Pump Shaft: Stainless Steel Pump Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

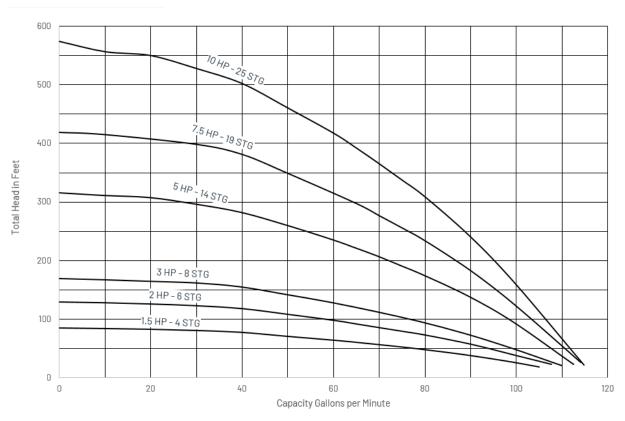
Intake Screen: Stainless steel material offers maximum corrosion resistance... protects against damaging solids entering the pump assembly.

Motor Bracket: Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Pump/Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Cast Iron

PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. Check valve sold separately.

Stainless steel, High-Flo 4"

/O GAI	LLONS P	ER MI	NUT	E					PU	MP P	ERF(JRM/	ANCE	(CA	PAC	TYli	N GA		NS PL	ER MI	NUT	E)		
							1				Р	UMPING	DEPTH	INFE	T									
HP	PSI	20	40	60	80	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550
	0	105	88	66	33																			
	20	58																						
1-1/2	30																							
	40																							
	50																							
	60																							
	0	-	99	88	75	59	26																	
	20	84	70	53	23																			
2	30	68	49																					
2	40	46																						
	50																							
	60																							
	0	-	103	95	86	77	63	43																
	20	93	84	74	62	47																		
,	30	82	72	60	44																			
3	40	71	58	41																				
	50	56	37																					
	60	35																						
	0	-	110	106	102	98	93	87	80	72	64	54	42	27										
	20	105	101	97	92	88	81	74	65	56	45	30												
_	30	100	96	92	87	81	74	66	57	46	31													
5	40	96	91	86	81	74	67	58	47	32														
	50	90	85	80	74	67	58	48	34															
	60	84	79	73	66	59	48	35																
	0	-	-	109	106	103	100	96	91	87	82	76	71	65	58	50	41	29						Г
	20	-	106	103	100	96	92	87	82	77	71	65	59	52	42	31								
	30	105	102	99	96	92	88	83	78	72	66	59	52	43	32									Г
7-1/2	40	102	98	95	92	88	83	78	73	67	60	53	44	33										
	50	98	95	91	87	84	78	73	67	61	53	44	34											
	60	94	90	87	83	79	73	68	61	54	46	35												
	0	-	-	-	109	107	104	101	98	95	92	88	85	81	77	73	69	64	59	53	46	39	30	
	20	-	-	106	104	101	98	96	92	89	85	82	78	74	69	64	59	54	48	40				
	30	-	105	103	101	99	96	92	89	86	82	78	74	70	65	60	54	48	41	33				\vdash
10	40	105	103	101	98	96	93	89	86	82	78	74	70	65	60	55	49	41	34					\vdash
	50	103	100	98	96	93	90	86	83	78	75	70	66	61	55	49	42	34						\vdash
	60	100	98	95	93	90	86	83	79	75	71	66	61	56	49	43	35	<u> </u>		1				\vdash

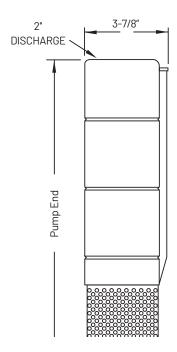
CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Stainless steel, High-Flo 4"

ORDEF	RING IN	FORM	ATION								
					PL	JMP END		моток	!	CONTRO	L BOX
MOTOR TYPE	НР	STGS.	PH	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
2 WIRE	1-1/2	4	1	230	SL70F4-05	21	28	P42B0015A2	29		
	1-1/2	4	1	230	SL70F4-05	21	28	P42B0015A2	29	SMC-CR1521	7
	1-1/2	4	3	230	SL70F4-05	21	28	P42B0015A3	23		
	1-1/2	4	3	460	SL70F4-05	21	28	P42B0015A4	23]	
	2	6	1	230	SL70G4-05	27-3/8	32	P43B0020A2	31	SMC-CR2021	7
	2	6	3	230	SL70G4-05	27-3/8	32	P43B0020A3	31		
	2	6	3	460	SL70G4-05	27-3/8	32	P43B0020A4	31]	
	3	8	1	230	SL70H4-05	34	42	P43B0030A2	40	SMC-CR3021	7
3 WIRE	3	8	3	230	SL70H4-05	34	42	P43B0030A3	32		
	3	8	3	460	SL70H4-05	34	42	P43B0030A4	32	1	
	5	14	1	230	SL70J4-05	54	68	P43B0050A2	70	SMC-CR5021	8
	5	14	3	230	SL70J4-05	54	68	P43B0050A3	55		
	5	14	3	460	SL70J4-05	54	68	P43B0050A4	55	1	
	7-1/2	19	3	230	SL70K4-05	70	116	P43B0075A3	70	1	
	7-1/2	19	3	460	SL70K4-05	70	116	P43B0075A4	70	1	
	10	25	3	460	SL70L4-05	90	156	P43B0100A4	78	1	

^{*}Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.

Stainless Steel



The 90 GPM Stainless Steel 4" High-Flo Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. New stack design delivers better efficiency and head per stage than previous model.

APPLICATIONS

Water Systems... for residential, industrial, commercial, multiple housing, and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT Threads

Top Bearing: Nylatron®

Top Bearing Journal: 300 grade stainless

steel

Diffuser Assembly: Noryl® (20% glass

filled)

Impellers: Noryl (20% glass filled)

Bowls: Noryl (20% glass filled)

Diffuser Bearing: Nylatron

Diffuser Bearing Journal: 300 grade

stainless steel

Shaft: 300 grade stainless steel, 7/16" hex

stock

Coupling: 300 grade stainless steel **Shell:** 300 grade stainless steel

Motor Adapter: 300 grade stainless steel Suction Screen: 300 grade stainless steel Cable Guard: 300 grade stainless steel Fastener: 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Self-lubricated top bearing ensures long bearing life.

Impellers: 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

Diffuser Bearing: Bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

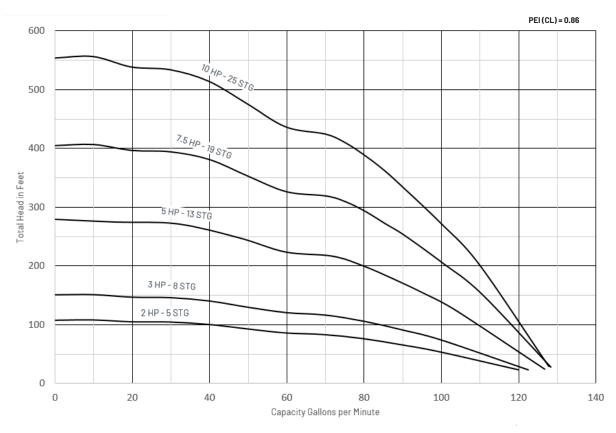
Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

Stainless Steel

PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. Check valve sold separately.

Stainless Steel

										PUM	PING DE	PTH IN I	EET									SHU.	T-OFF AD
HP	PSI	20	40	60	80	100	125	150	175	200	225	250	275	300	350	375	400	425	450	475	500	FEET	PSI
	0	-	110	94	75	39																	
	20	90	59																			1	
	30	53																				1	١,,
2	40																					107	46
	50]	
	60																						
	0	-	115	107	96	84	54																
	20	104	93	80	53	30]	
-	30	91	78	50																			0.5
3	40	75	47																			151	65
	50	45]	
	60																						
	0	-	-	119	115	110	104	97	89	80	59	46											
	20	-	113	108	103	98	90	81	63	48	32												
	30	112	108	102	97	91	82	69	49	34												070	
	40	107	102	96	90	83	72	50	36													279	12
	50	100	95	89	82	73	51	37															
	60	94	87	81	70	52	39																
	0	-	-	-	121	119	115	111	106	101	96	91	84	78	61	51	43						
	20	-	-	118	115	111	107	102	97	92	85	79	68	52	44								
	30	-	117	114	111	107	103	98	92	86	80	71	53	45	31							,	
7-1/2	40	117	114	110	107	103	98	93	87	81	72	53	46	33								407	176
	50	113	110	106	103	98	93	87	81	73	54	46	34									1	
	60	109	106	101	98	94	88	81	74	55	47	35										1	
	0	-	-	-	-	121	118	116	113	110	107	103	100	96	92	87	83	77	69	56	50		
	20	-	-	-	118	116	113	110	109	104	100	96	92	88	83	78	71	57	51	45	37		
10	30	-	-	118	116	114	111	108	104	100	96	92	88	84	79	72	57	51	46	38			
10	40	-	118	116	114	111	108	104	101	97	92	89	84	79	73	58	51	46	39			558	24
	50	118	115	113	111	108	105	101	97	93	89	84	80	73	58	52	47	40					
	60	115	113	110	108	105	101	98	93	89	85	80	74	59	53	47	40					1	

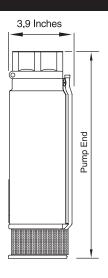
CAUTION: DO NOT use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Stainless Steel

ORDER	RING IN	FORM.	ATION								
					PUN	1P END		мото	DR	CONTRO	L BOX
MOTOR TYPE	HP	STGS.	PH	VOLT	CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
			1	230	L90BF20-01	22	15	P43B0020A2	31	SMC-CR2021	7
	2	5	3	230	L90BF20-01	22	15	P43B0020A3	28		
			3	460	L90BF20-01	22	15	P43B0020A4	28		
			1	230	L90BF30-01	32-1/8	17	P43B0030A2	40	SMC-CR3021	7
	3	8	3	230	L90BF30-01	32-1/8	17	P43B0030A3	32		
3 WIRE			3	460	L90BF30-01	32-1/8	29	P43B0030A4	32		
O WIRE			1	230	L90BF50-01	48-7/8	20	P43B0050A2	70	SMC-CR5021	8
	5	13	3	230	L90BF50-01	48-7/8	20	P43B0050A3	55		
			3	460	L90BF50-01	48-7/8	20	P43B0050A4	55		
	7-1/2	19	3	230	L90BF75-01	69-1/8	33	P43B0075A3	70		
	7-1/2	เช	3	460	L90BF75-01	69-1/8	33	P43B0075A4	70		
	10	25	3	460	L90BF100-01	89-3/8	46	P43B0100A4	78		

^{*}Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS



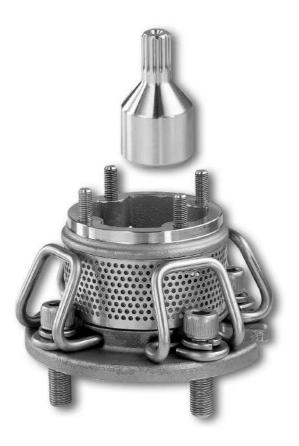
BB

Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.

4"x 6" Submersible Motor Adapter

Stainless Steel



The PKG 4x6, Pump/Motor Adapter offers the professional distributor and dealer the flexibility to stock standard 4" submersible pump ends, and 4" and 6" motors, better utilizing inventory dollars and delivery demands!

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Adapter Casting: Stainless steel

Coupling: Stainless steel

Intake Screen: Stainless steel

Beveled Wire Forms: Stainless steel

Socket Head Cap-Screws: Stainless steel

BB

Studs: Stainless steel

Fasteners: Stainless steel

ORDERING INF	FORMATION			
CATALOG NUMBER	PUMP END*	MOTOR*	MAXIMUM HP	WEIGHT POUNDS**
PKG 4x6	4" NEMA	6" NEMA	10	5

*Pump end and motor ordered separately.



Extends Single and Three-Phase Power Availability: To all Signature 2000° submersibles through 10 HP using 6" single-phase motors.

Easy Assembly: Easy job-site assembly.

Double-Suction Screens: Reduces inlet suction velocity, reducing the amount of suspended solids ingested by pump.



CB5710WS

^{**}Shipping weight is approximate.

50, 75, and 100 GPM



The 6TSP series pumps feature abrasion and corrosion resistant materials for maximum performance and longevity under the toughest operating conditions.

Components are 100% lead-free, and meet all U.S. federal guidelines for safe drinking water.

APPLICATIONS

Water systems... for residential, industrial, commercial, multiple housing and farm use.

SPECIFICATIONS

Discharge - 304 grade stainless steel

Diffuser Assembly – Noryl diffusers with a stainless steel/urethane wear rings

Wear Rings – 304 stainless steel / Polyurethane

Impellers - Noryl

Upper Guide Bearing - Ceramic

Shaft - 416 stainless steel

Motor Coupling - 316 stainless steel

Shell - 300 grade stainless steel

Motor Adapter – 300 grade stainless steel

Suction Screen - 304 stainless steel

Cable Guard - 304 stainless steel

FEATURES

Discharge – 304 stainless steel, investment cast, 3" FNPT. Features 6 extra wide wrench flats for a secure grip when tightening to the drop pipe.

Standard Check Valve – 304 stainless steel. The poppet-style check valve helps protect the pump against backflow. The check valve can be easily removed if not required.

Shaft and Bearing Assembly – 416 stainless steel. A ceramic upper bearing guide combined with a cutless rubber bearing protects the shaft from premature wear.

Impellers and Diffusers – glass-filled Noryl. Smooth and efficient performance, and superior sand handling.

Wear Rings – 304 stainless steel and polyurethane. Minimizes re-circulation for increased pump performance and longevity.

Pump Sleeve – 304 stainless steel Provides superior corrosion resistance when the pump is installed in harsh environments.

Lead guard – 304 stainless steel Easy installation, and protects the motor leads across the full length of the pump.

Suction Bracket – 304 stainless steel, investment cast. Machined for both 4" and 6" motor registers. Bolt kits included for either motor size where appropriate.

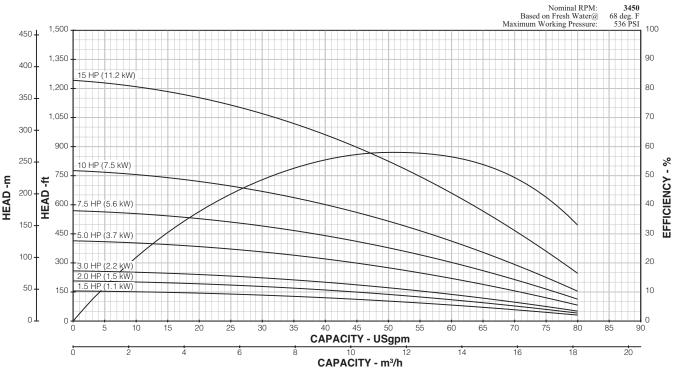
Motor Coupling – 316 stainless steel. Designed to effectively divert debris away from the spline engagement area to maximize durability.

Suction Screen – 304 stainless steel Form fitted, provides corrosion resistance, and prevents particulates larger than 0.10″ from entering the pump.

66 CB12413WS

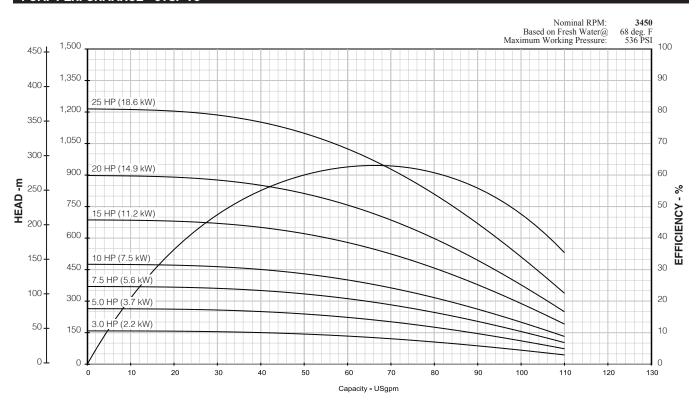
50, 75, and 100 GPM

PUMP PERFORMANCE - 6TSP-50



For latest performance information, please reference BEC2.

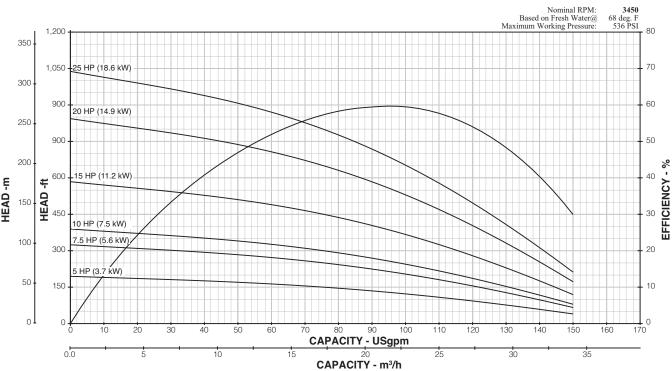
PUMP PERFORMANCE - 6TSP-75



67 CB12413WS

50, 75, and 100 GPM

PUMP PERFORMANCE - 6TSP-100



For latest performance information, please reference BEC2.

68 CB12413WS

115, 155, 230 and 300 GPM



The 6TS Series Submersible features heavy-duty 304 stainless steel construction that will outperform ordinary fabricated stainless steel pumps in aggressive water conditions.

APPLICATIONS

Water systems... for municipal, multiple housing, commercial, in water fountains, irrigation, mine de-watering, and farm use.

SPECIFICATIONS

Suction Motor Bracket - Stainless steel 304 (investment cast)

Top Bearing – Stainless steel 304 (chrome plated)

Coupling - Stainless steel 416

Shaft - Stainless steel 416

Spacer - Stainless steel 304

Impeller - Stainless steel 304

Diffuser Bowl - Stainless steel 304

Discharge Bracket – Stainless steel 304 (investment cast)

Check Valve - Stainless steel 304

FEATURES

Heavy-Duty, Investment Cast 304 Stainless Steel Discharge and Suction Bracket – Assures perfect pump-to-motor alignment with any NEMA-standard submersible motor. Discharge assures secure connection to drop pipe. Wrench flats provide positive grip during installation.

Low-Profile Stainless Steel
Lead Guard – Aids installation in narrow
wells

Hard Chrome-plated Top Bearing
Journal - Reduces wear in harsh
conditions, such as sand

State-of-the-Art Design - Delivers maximum performance and reliability in the toughest conditions

100% Lead-free Components – Meets all U.S. federal guidelines for safe drinking water

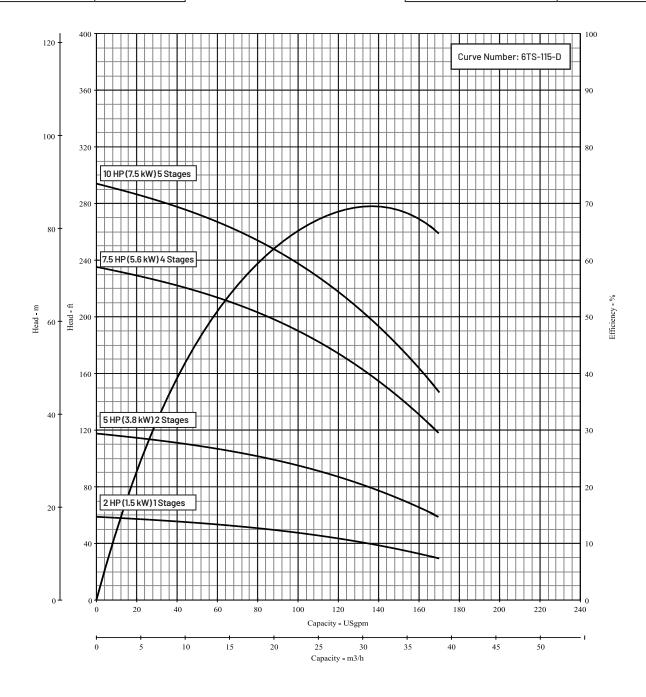
Built-In Thrust Protection – Protects pump during periods of high demand and start-up. Prevents pump failure.

Built-In Check Valve (Optional) –Prevents backflow and reverse rotation

Buna Wear Rings – Improve pump efficiency and durability

115, 155, 230 and 300 GPM

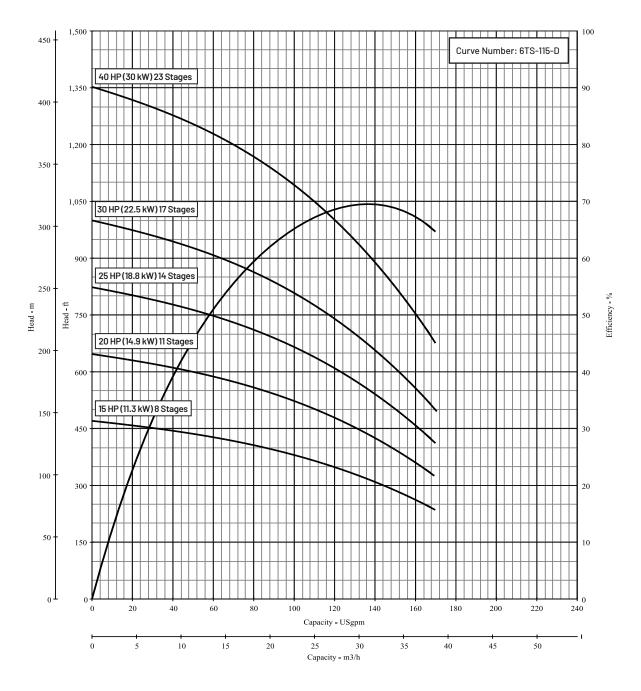
Series Name:	6TS-115			Pump Size:	6TS-115
Department of E	nergy Requirements	Available Con	figurations	Curve Conditi	ons
PEIcL	0.95	Submersible Turbine	6TS-115	Nominal RPM	3475
Model	6TS-115			Maximum Working Pressure	650 PSI (44.8 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

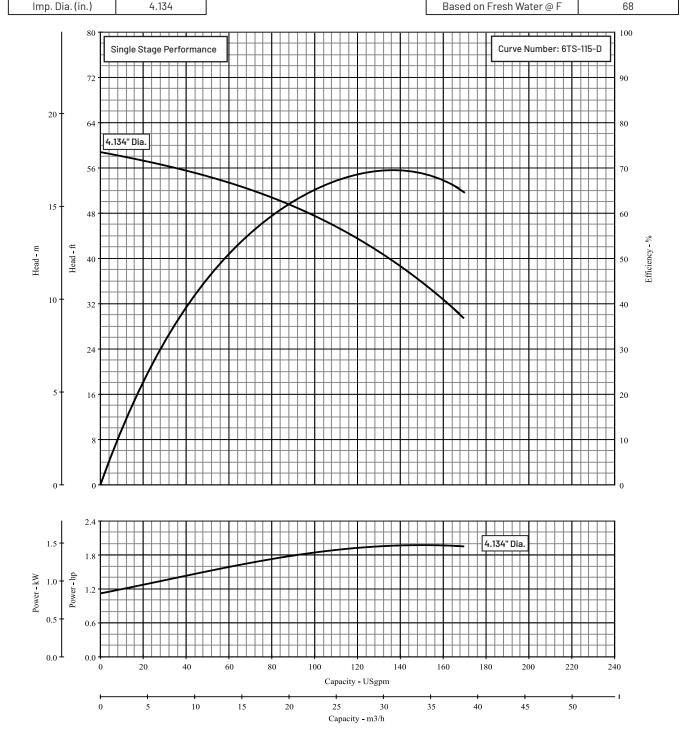
Series Name:	618-115			Pump Size:	618-115
Department of Ener	gy Requirements	Available Con	figurations	Curve Condition	ons
PEIcL	0.95	Submersible Turbine	6TS-115	Nominal RPM	3475
Model	6TS-115			Maximum Working Pressure	650 PSI (44.8 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

Series Name:	6TS-115			Pump Size:	6TS-115
Department of E	Energy Requirements	Available Con	figurations	Curve Conditi	ons
PEIcl	0.95	Submersible Turbine	6TS-115	Nominal RPM	3475
Model	6TS-115			Maximum Working Pressure	650 PSI (44.8 BAR)
Imam Dia (in)	/, 17/	1		Decedes Freeh Weter & F	co

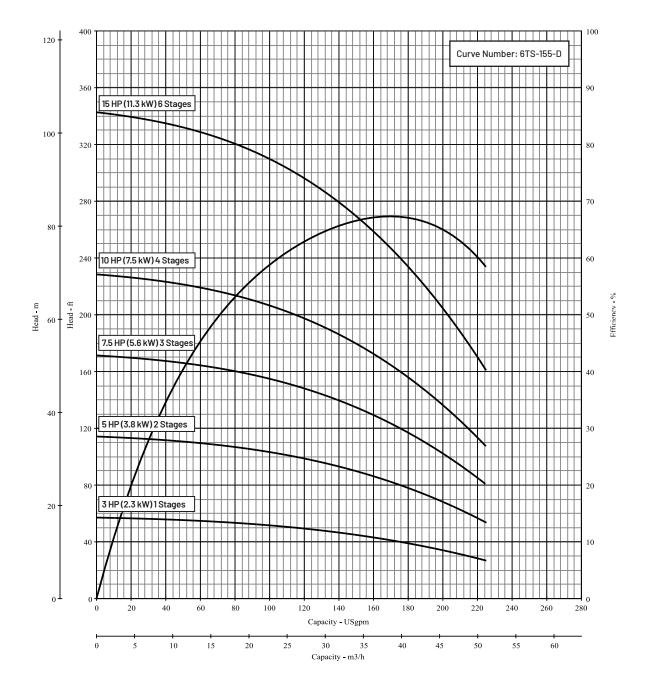


This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

Series Name:	6TS-155		Pump Size:	6TS-155
		1		

Department of Energy	gy Requirements	Available Configurations		Curve Conditions	
PEIcl	0.96	Submersible Turbine 6TS-155		Nominal RPM	3475
Model	6TS-155			Maximum Working Pressure	650 PSI (44.8 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68

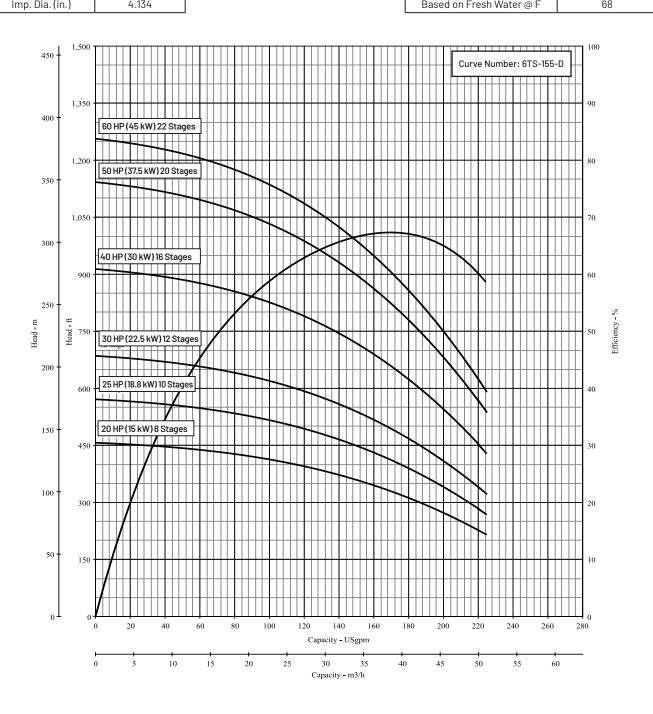


This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

73 CB2060WS

115, 155, 230 and 300 GPM

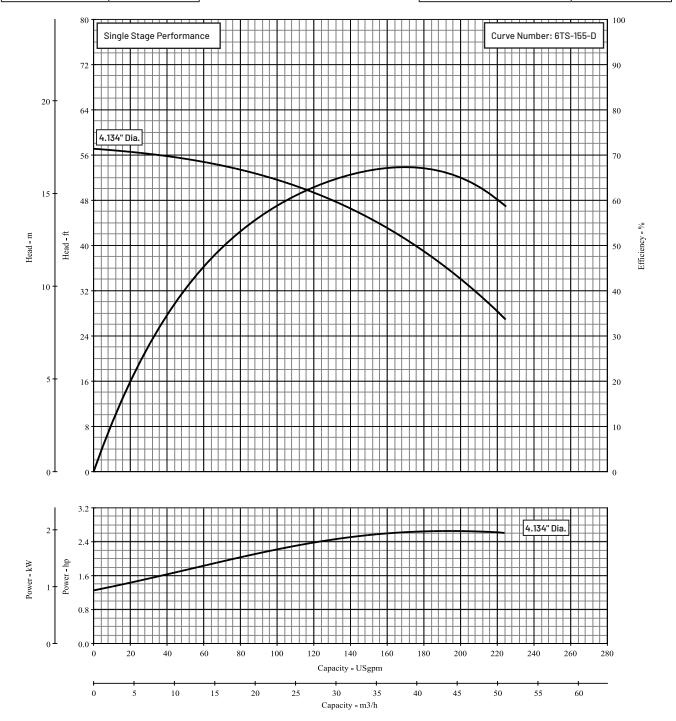
Series Name:	6TS-155			Pump Size:	6TS-155
Department of Energy Requirements		Available Configurations		Curve Conditions	
PEIcl	0.96	Submersible Turbine	6TS-155	Nominal RPM	3475
Model	6TS-155			Maximum Working Pressure	650 PSI (44.8 BAR)
Imp Dia (in)	/, 13/,			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

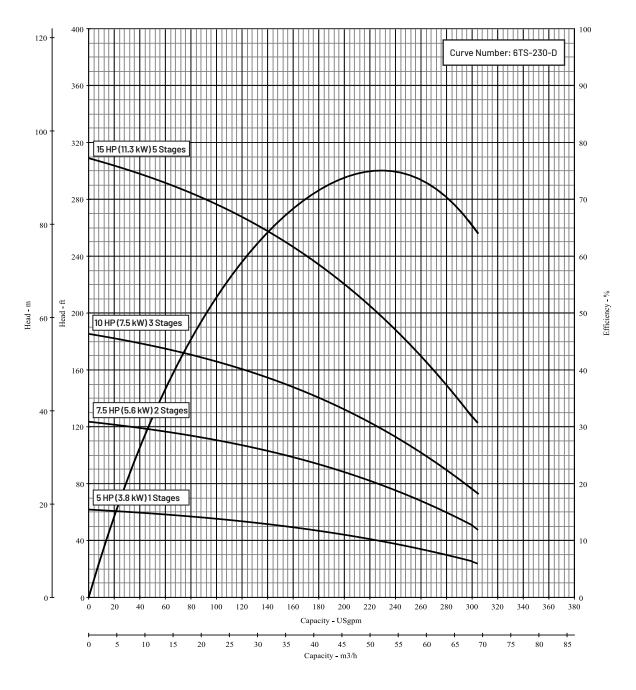
Series Name:	6TS-155			Pump Size:	6TS-155
Department of Energy Requirements		Available Configurations		Curve Conditions	
PEIcl	0.96	Submersible Turbine	6TS-155	Nominal RPM	3475
Model	6TS-155			Maximum Working Pressure	650 PSI (44.8 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

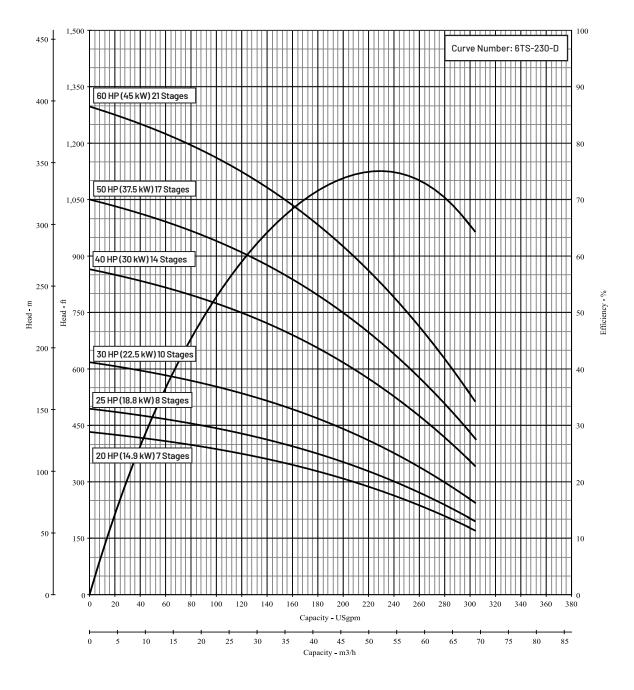
Series Name:	ries Name: 6TS-230 Pun		Pump Size:	6TS-230	
Department of Energy Requirements		Available Conf	figurations	Curve Condition	ons
PEIcL	0.91	Submersible Turbine	6TS-230	Nominal RPM	3475
Model	6TS-230			Maximum Working Pressure	625 PSI (43 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

Series Name:	618-230			Pump Size:	618-230
Department of Ene	rgy Requirements	Available Conf	figurations	Curve Conditi	ons
PEIcL	0.91	Submersible Turbine	6TS-230	Nominal RPM	3475
Model	6TS-230			Maximum Working Pressure	625 PSI (43 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68

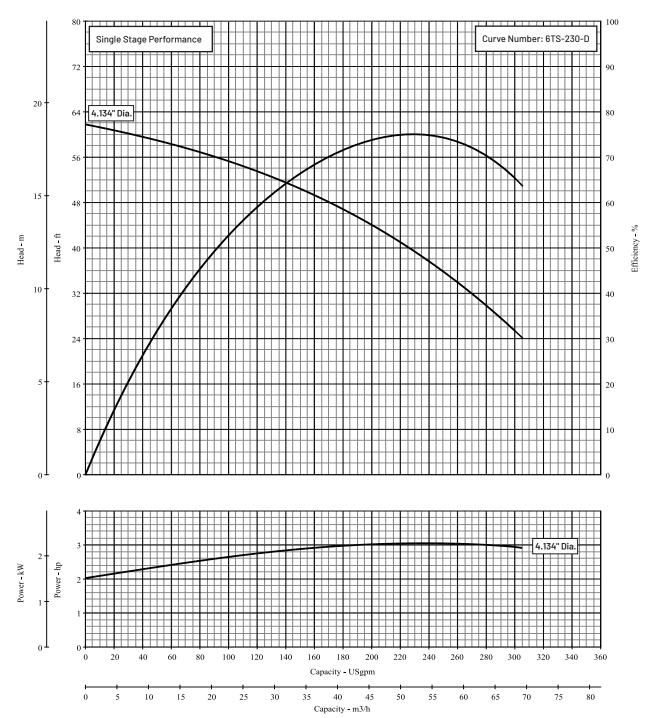


This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

Series Name:	6TS-230	Pump Size:	6TS-230
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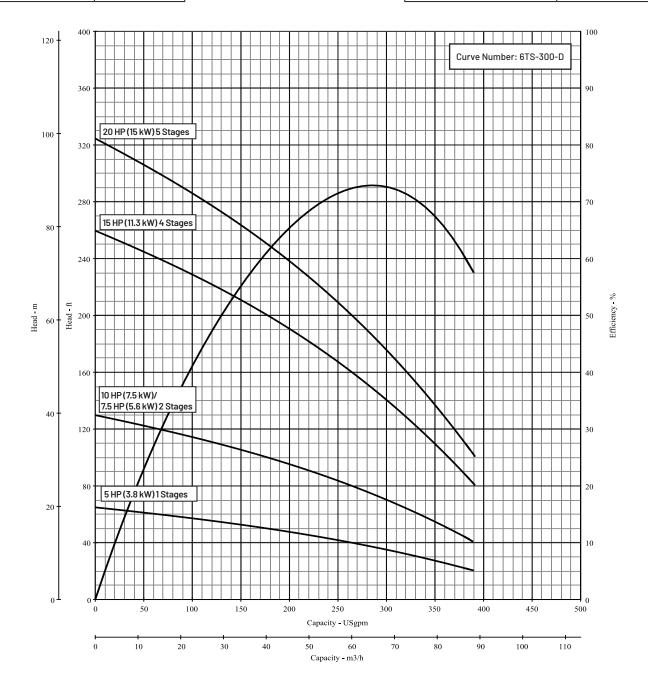
Department of Energy Requirements		Available Configurations		Curve Conditions		
PEIcL	0.91	Submersible Turbine	6TS-230	Nominal RPM	3475	
Model	6TS-230			Maximum Working Pressure	625 PSI (43 BAR)	
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68	



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

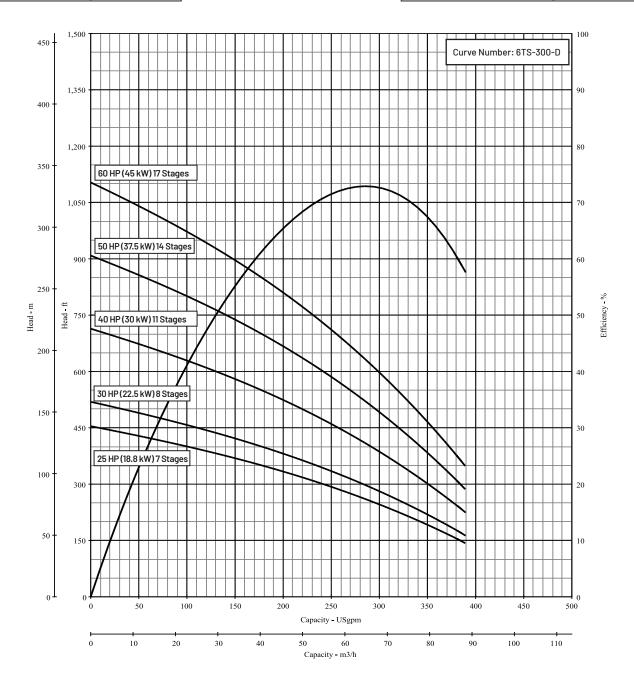
Series Name:	618-300			Pump Size:	618-300
Department of Ener	gy Requirements	Available Con	figurations	Curve Conditi	ons
PElcL	0.94	Submersible Turbine	6TS-300	Nominal RPM	3475
Model	6TS-300			Maximum Working Pressure	625 PSI (43 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

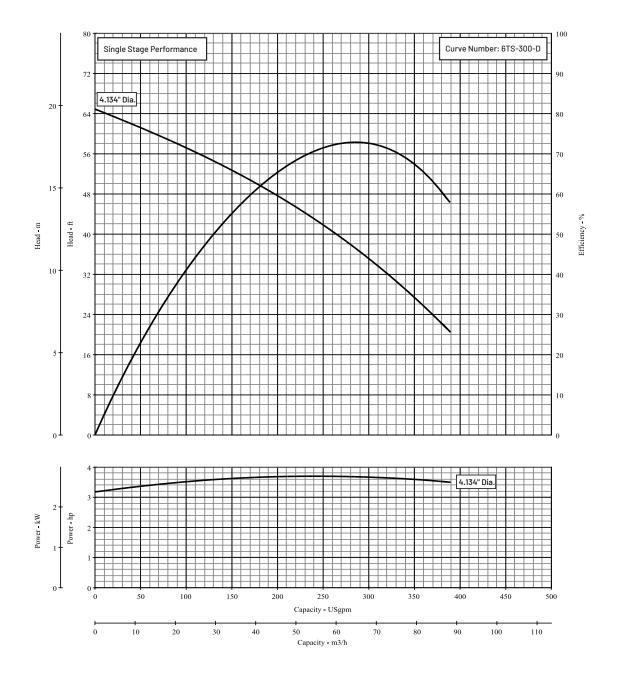
Series Name:	618-300			Pump Size:	618-300
Department of Ener	gy Requirements	Available Con	figurations	Curve Conditi	ons
PEIcl	0.94	Submersible Turbine	6TS-300	Nominal RPM	3475
Model	6TS-300			Maximum Working Pressure	625 PSI (43 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

115, 155, 230 and 300 GPM

Series Name:	618-300			Pump Size:	618-300
Department of Ener	gy Requirements	Available Con	figurations	Curve Conditi	ons
PEIcL	0.94	Submersible Turbine	6TS-300	Nominal RPM	3475
Model	6TS-300			Maximum Working Pressure	625 PSI (43 BAR)
Imp. Dia. (in.)	4.134			Based on Fresh Water @ F	68



This product as sold in U. S. is regulated by 10 CFR Parts 429 and 431.

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115, 155, 230 and 300 GPM

ORDERING INFORMATION

	Pump Model	HP	Stage(s)	Discharge (Female)	Motor Diameter	With Check Valve	Without Check Valve	Weight (lbs.)
	6TS2-115	2	1		4"	B85963	B85975	24
	6TS5-115	5	2]	4"	B85964	B85976	29
	6TS5-115	5	2]	6"	B85965	B85977	29
	6TS7.5-115	7-1/2	4]	4"	B85966	B85978	40
	6TS7.5-115	7-1/2	4	1	6"	B85967	B85979	40
445.0514	6TS10-115	10	5		4"	B85968	B85980	47
115 GPM	6TS10-115	10	5	3″		B85969	B85981	47
	6TS15-115	15	8	1		B85970	B85982	62
	6TS20-115	20	11]	0.5	B85971	B85983	79
	6TS25-115	25	14]	6″	B85972	B85984	90
	6TS30-115	30	17	1		B85973	B85985	105
	6TS40-115	40	23	1		B85974	B85986	129

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115, 155, 230 and 300 GPM

ORDERING INFORMATION

	Pump Model	HP	Stage(s)	Discharge (Female)	Motor Diameter	With Check Valve	Without Check Valve	Weight (lbs.)
	6TS3-155	3	1		4"	B85987	B86001	24
	6TS5-155	5	2]	4"	B85988	B86002	29
	6TS5-155	5	2]	6″	B85989	B86003	29
	6TS7.5-155	7-1/2	3]	4"	B85990	B86004	35
	6TS7.5-155	7-1/2	3]	6″	B85991	B86005	35
	6TS10-155	10	4]	4"	B85992	B86006	40
1FF ODM	6TS10-155	10	4	7//	B85993	B86007	40	
155 GPM	6TS15-155	15	6	3"		B85994	B86008	51
	6TS20-155	20	8]		B85995	B86009	62
	6TS25-155	25	10]	0"	B85996	B86010	73
	6TS30-155	30	12]	6"	B85997	B86011	84
	6TS40-155	40	16			B85998	B86012	106
	6TS50-155	50	20]		B85999	B86013	128
	6TS60-155	60	22]		B86000	B86014	139
	6TS3-230	3	1		4"	B86015	B86029	40
	6TS5-230	5	1	1	4"	B86016	B86030	44
	6TS5-230	5	1	1	6"	B86017	B86031	44
	6TS7.5-230	7-1/2	2	1	4"	B86018	B86032	49
	6TS7.5-230	7-1/2	2	1	6"	B86019	B86033	49
	6TS10-230	10	3		4"	B86020	B86034	53
	6TS10-230	10	3	1	6"	B86021	B86035	53
230 GPM	6TS15-230	15	5	4"		B86022	B86036	62
	6TS20-230	20	7	1		B86023	B86037	67
	6TS25-230	25	8			B86024	B86038	76
	6TS30-230	30	10	1		B86025	B86039	89
	6TS40-230	40	14	1		B86026	B86040	103
	6TS50-230	50	17	1		B86027	B86041	116
	6TS60-230	60	21	1		B86028	B86042	129
	6TS5-300	5	1		4"	B86043	B86056	40
	6TS5-300	5	1	1	6"	B86044	B86057	40
	6TS7.5-300	7-1/2	2	1	4"	B86045	B86058	44
	6TS7.5-300	7-1/2	2	1	6"	B86046	B86059	44
	6TS10-300	10	2	1	4"	B86047	B86060	44
	6TS10-300	10	2	1		B86048	B86061	44
300 GPM	6TS15-300	15	4	4"		B86049	B86062	55
	6TS20-300	20	5	1		B86050	B86063	60
	6TS25-300	25	7	1		B86051	B86064	70
	6TS30-300	30	8	1	6″	B86052	B86065	75
	6TS40-300	40	11	1		B86053	B86066	90
	6TS50-300	50	14	1		B86054	B86067	105
	6TS60-300	60	17	1		B86055	B86068	120

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Pentek® XE Series™ Motors

Stainless Steel









Built with the latest design, manufacturing and testing technology, they feature laser-welded 304L stainless steel construction, higher thrust capacities and higher efficiencies. The Pentek XE Series submersible motors incorporate "encapsulated, epoxy stator design," and professional-grade Class F insulation provides longer life in harsh environments. Each motor is 100% factory pressure and run tested to support our quality standards.

APPLICATIONS

Water systems...for residential, industrial, commercial, multiple housing and farm clean water use.

SPECIFICATIONS

End Bell: 304 stainless steel over cast iron

Shell: 304 stainless steel

Motor Shaft: 17-4 precipitation hardened stainless steel

Winding: Copper

Insulation: Class F, 311°F (155°C)

Max. Water Temp: 86°F (30°C)

Fasteners: 304 stainless steel

Sand Boot: Nitrile

Cable: Field-serviceable, Controlled Compression Design, UL and CSA Approved

Cable Length: 48" Diaphragm: EPDM

Thrust Bearings: Kingsbury-type, pivot shoe, carbon graphite mating ring

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Thrust Load Capacity: 700 lbs.

FEATURES

700# Rated Kingsbury Thrust Bearing

Design: Large high-performance bearings are standard on all HPs allowing for higher thrust loads, providing many years of trouble-free service under severe-duty operation.

2-Wire Permanent Split Capacitor:

Design insures quiet operation and improved operating efficiency.

3-Wire Motors: Operate with Pentek SMC and Pentek VIP motor controls.

All Stainless Steel Exterior

Professional-Grade Class F-Compliant Motor Insulation: Allows for longer service life.

UL, CSA Approved and NSF/ANSI 61 Certified

100% Factory Pressure and Run Tested

Equipped with Surge Arrestor

Automatic Thermal Protection on 1/2 – 1 HP Models

CB6305WS

Pentek® XE Series™ Motors

Stainless Steel

		RATING	;			FULL	MAX.LOAD	LOCKED	WIND	DING		LEN	GTH	WEI	GHT
HP	kW	VOLTS		SERVICE FACTOR	CATALOG NUMBER	LOAD AMPS	(SFLOAD) AMPS	ROTOR AMPS	MAIN RESISTANCE	START RESISTANCE	THRUST RATING	IN.	MM	LB.	KG
PERI	1ANE1	NT SPLI	T C	APACITOR	(PSC) 2 WIRE	3									
1/2	0.37	115		1.6	P42B0005A1-01	8.1	10.2	28.0	1.4-2.0			11.0	279	19.2	8.7
		230		1.6	P42B0005A2-01	4.3	4.8	16.0	6.1-7.2			11.0	279	19.2	8.7
3/4	0.55	230	60	1.5	P42B0007A2-01	5.0	6.4	18.0	5.9-6.9		700	12.4	314	22.7	10.
1 1/0	0.75	230		1.4	P42B0010A2-01	6.7	8.2	23.5	4.2-5.2			13.0	337	24.5	11.
1-1/2	1.1 CUTO	230	T /IN	1.3	P42B0015A2-01	9.1	10.5	43.0	1.8-2.4			14.9	378	28.9	13
APA	ACHU		I / IN		RUN (CSIR) 3										
1/2	0.37	115		1.6	P43B0005A1-01	9.8	11.6	44.0	1.0-1.4	2.5-3.1		10.0	253	18.9	8.
		230	60	1.6	P43B0005A2-01	5.7	6.3	20.5	5.1-6.1	12.4-13.7	700	9.7	246	18.1	8.
3/4	0.55	230		1.5	P43B0007A2-01	6.7	7.9	32.0	2.6-3.3	10.4-11.7	700	10.8	275	21.4	9.
1	0.75	230		1.4	P43B0010A2-01	8.5	9.5	41.0	2.0-2.6	9.3-10.4		11.7	297	23.1	10
AP/	ACITO	R STAR	T/C/	APACITOF	RUN(CSCR)	3 WIR	3								
1/2	0.37			1.6	P43B0005A2-01	4.4	5.0	21.0	5.1-6.1	12.4-13.7		9.7	246	18.1	8
3/4	0.55			1.5	P43B0007A2-01	4.6	6.1	32.0	2.6-3.3	10.4-11.7	700	10.8	275	21.4	9.
1	0.75			1.4	P43B0010A2-01	6.2	7.4	41.0	2.0-2.6	9.3-10.4	700	11.7	297	23.1	10
-1/2	1.1	230	60	1.3	P43B0015A2-01	9.2	11.0	49.0	2.1-2.5	10.0-10.8		13.6	345	27.4	12
2	1.5			1.25	P43B0020A2	9.9	12.2	49.0	1.6-2.2	4.8-5.9		15.1	383	31.0	14
3	2.2			1.15	P43B0030A2	14.3	16.5	76.0	1.0-1.4	2.0-2.5	900	18.3	466	40.0	18
5	3.7			1.15	P43B0050A2	24.0	27.0	101.0	.68	1.3-1.7	1500	27.7	703	70.0	31

3 PH	ASE													
		RATING	;			FULL	MAX.LOAD		LOCKED		LEN	GTH	WE	IGHT
НР	kW	VOLTS	Hz	SERVICE FACTOR	CATALOG NUMBER	LOAD AMPS	(SFLOAD) AMPS	LINE TO LINE RESISTANCE OHMS	ROTOR AMPS	THRUST RATING	IN.	MM	LB.	KG
		200			P43B0005A8	2.9	3.5	4.1-5.2	22		10.0	254	18.9	8.6
1/2	0.37	230	60	1.6	P43B0005A3	2.4	3.0	5.7-7.2	18		10.0	254	18.9	8.6
		460			P43B0005A4	1.3	1.5	23.6-26.1	9		10.0	254	18.9	8.6
		200			P43B0007A8	3.9	4.7	2.8-3.7	30		10.8	274	21.4	9.7
3/4	0.55	230	60	1.5	P43B0007A3	3.3	4.0	3.3-4.3	27		10.8	274	21.4	9.7
		460			P43B0007A4	1.7	2.0	14.4-16.2	14		10.8	274	21.4	9.7
		200			P43B0010A8	4.8	5.7	2.2-3.1	34	700	11.7	297	23.1	10.5
1	0.75	230	60	1.4	P43B0010A3	4.1	4.9	3.2-4.2	26		11.7	297	23.1	10.5
		460			P43B0010A4	2.2	2.5	16.8-18.6	15		11.7	297	23.1	10.5
		200			P43B0015A8	6.6	7.6	1.9-2.5	40		11.7	297	23.1	10.5
1-1/2	1.1	230	60	1.3	P43B0015A3	5.8	6.6	2.5-3.1	36		11.7	297	23.1	10.5
1-1/2	1.1	460	00	1.5	P43B0015A4	3.0	3.4	9.5-10.5	16		11.7	297	23.1	10.5
		575			P43B0015A5	2.3	2.6	15.6-17.3	15		11.7	297	23.1	10.5
		200			P43B0020A8	8.0	9.3	1.4-2.0	51		13.8	351	27.4	12.4
2	1.5	230	60	1.25	P43B0020A3	6.7	8.0	2.2-2.8	44		13.8	351	27.4	12.4
Z	1.5	460	00	1.25	P43B0020A4	3.6	4.1	7.5-9.3	23		13.8	351	27.4	12.4
		575			P43B0020A5	2.7	3.3	10.2-12.5	21	900	15.3	389	32.0	14.5
		200			P43B0030A8	10.9	12.0	1.2-1.5	71	900	15.3	389	32.0	14.5
3	2.2	230	60	1.15	P43B0030A3	9.2	10.1	1.6-2.0	59		15.3	389	32.0	14.5
J	2.2	460	00	1.15	P43B0030A4	4.8	5.3	6.3-7.7	30		15.3	389	32.0	14.5
		575			P43B0030A5	3.7	4.1	10.2-12.5	21		15.3	389	32.0	14.5
		200			P43B0050A8	18.3	20.2	.79	113		21.7	551	55.0	24.9
5	3.7	230	60	1.15	P43B0050A3	15.7	17.5	.9-1.3	93		21.7	551	55.0	24.9
5	3.7	460	00	1.15	P43B0050A4	7.6	8.5	3.9-4.9	48		21.7	551	55.0	24.9
		575			P43B0050A5	7.0	7.6	3.6-4.2	55		27.7	703	70.0	31.8
		200			P43B0075A8	27.0	30.0	.46	165	1500	27.7	703	70.0	31.8
7-1/2	5.6	230	60	1.15	P43B0075A3	24.0	26.4	.59	140		27.7	703	70.0	31.8
7-1/Z	5.0	460	00	1.10	P43B0075A4	12.2	13.5	2.1-2.7	87		27.7	703	70.0	31.8
		575			P43B0075A5	9.1	10	3.6-4.2	55		27.7	703	70.0	31.8
10	7.5	460	60	1.15	P43B0100A4	15.6	17.2	1.8-2.2	110		30.7	780	78.0	35.4

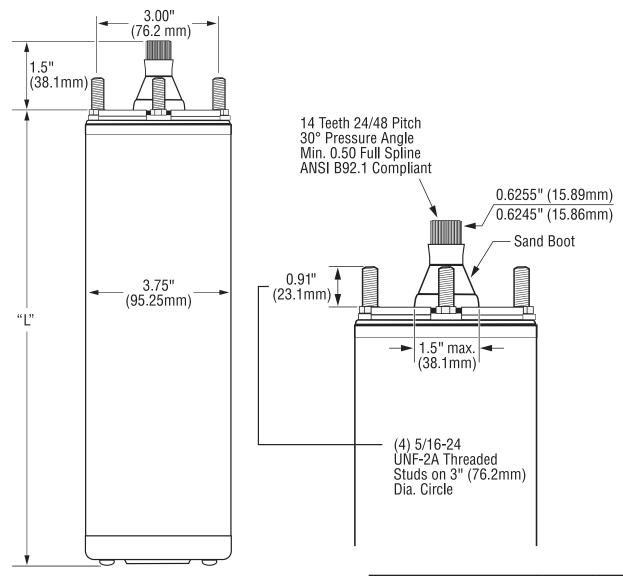
 $NOTE: Amp\ ratings\ on\ 3-wire\ motors\ reflect\ use\ with\ CSIR\ controls.\ A\ CSCR\ control\ is\ recommended\ for\ lower\ values.$

BB CB6305WS

Pentek® XE Series™ Motors

Stainless Steel

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

CATALOG NUMBER	#OFWIRES	TYPE	LENGTH	GAUGE
XE SERIES	REPLACE	MENT MO	TOR LEAD	os
P18-1485K	2 Wire	XLPE	48 in.	14
P18-1486K	3 Wire	XLPE	48 in.	14
P18-1651K	2 Wire	XLPE	100 in.	14
P18-1652K	3 Wire	XLPE	100 in.	14
P18-1678K	3 Wire	XLPE	180 in.	14

CATALOG NUMBER	#0FWIRES	TYPE	LENGTH	GAUGE
XE SERIES	REPLACE	MENT MO	TOR LEAD	os
P18-1490K	2 Wire	SJOW	10 ft.	16
P18-1488K	2 Wire	S00W	10 ft.	16
P18-1628K	2 Wire	S00W	30 ft.	16
P18-1629K	2 Wire	S00W	50 ft.	16
P18-1630K	2 Wire	S00W	100 ft.	16
P18-1631K	3 Wire	SOW	10 ft.	16
P18-1632K	3 Wire	SOW	20 ft.	16
P18-1633K	3 Wire	SOW	30 ft.	16
P18-1634K	3 Wire	SOW	50 ft.	16
P18-1635K	3 Wire	SOW	100 ft.	16

86 CB6305WS

Submersible Motor Controls







Pentek° offers a full range of 1/2 - 5 HP models that are interchangeable with existing motor controls for Capacitor Start/Induction Run (CSIR) and Capacitor Start/Capacitor Run (CSCR) applications. Pentek is the professional choice in harsh and high temperature installations.

APPLICATIONS

Water systems...for residential, commercial, multiple housing and farm uses, where a submersible 3-wire motor is used.

FEATURES

ENCLOSURE

Rugged NEMA 3R Enclosure:

Suitable for indoor/outdoor use.

NEW HardBond™ Finish:

5-times more corrosion-resistant.

Multiple-Size Electrical Knockouts

INTERNALS

High-Load Voltage Relay

Heavy-Duty Contacts

External Access to Overload Reset CSCR

Heavy-Duty Terminal Connectors:

Suitable for up to #4 AWG wire.

Industry Standard Wiring Connections:

Easy-to-read wiring diagrams.

Agency Approvals: UL 778 and CUL

Recognized (60 Hz)

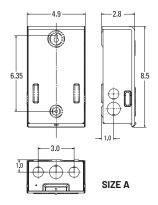
BB CB6306WS

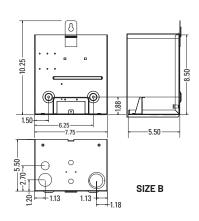
Submersible Motor Controls

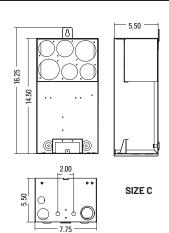
ORDERING	G INFORMATI	ON					
				60 HZ	WEIG	GHT	
HP	KW	PH	VOLTS	CATALOG NUMBER	LBS.	KG	ENCLOSURE SIZE
CSIR - CAP	PACITOR STA	RT/INDUCTION	ON RUN				
1/2	0.37	1	115	SMC-IR0511(-6pk)*	4	1.8	А
1/2	0.37	1	230	SMC-IR0521(-6pk)*	4	1.8	А
3/4	0.55	1	230	SMC-IR0721(-6pk)*	4	1.8	А
1	0.75	1	230	SMC-IR1021(-6pk)*	4	1.8	А
CSCR - CA	PACITOR STA	RT/CAPACI	TOR RUN				
1/2	0.37	1	230	SMC-CR0521(-6pk)*	5	2.3	А
3/4	0.55	1	230	SMC-CR0721(-6pk)*	5	2.3	А
1	0.75	1	230	SMC-CR1021(-6pk)*	5	2.3	А
1-1/2	1.1	1	230	SMC-CR1521	7	3.2	В
2	1.5	1	230	SMC-CR2021	7	3.2	В
3	2.2	1	230	SMC-CR3021	7	3.2	В
5	3.7	1	230	SMC-CR5021	8	3.6	В
CSCR PLUS	S – CAPACITO	OR START/C	APACITOR R	UN PLUS MAGNETIC CONTAC	CTOR		
2	1.5	1	230	SMC-CRP2021	7	3.2	В
3	2.2	1	230	SMC-CRP3021	8	3.6	В
5	3.7	1	230	SMC-CRP5021	12	5.4	С

^{*}Submersible Motor Controls are available in single and six packs. Include the suffix "-6pk" after the catalog number if 6 packs are required.

OUTLINE DIMENSIONS







 ${\bf Dimensions} \ ({\bf in inches}) \ {\bf are for estimating purposes only}.$

88 CB6306WS

Pentek® VIP Pro Series Controls



Capacitor start, capacitor run — designed for the full range of single-phase 1/2, 3/4, 1, 1-1/2, 2, 3 and 5 HP, 3-wire submersible motors

APPLICATIONS

Water systems...for residential, multiple housing, farm and commercial installations, where a submersible 3-wire motor is used.

FEATURES

ENCLOSURE

- Weather resistant construction NEMA 3R/IP24 rated enclosure for indoor/outdoor use
- 2 Control box rated for 50°C (122°F) ambient temperature
- 3 One screw removal for easy panel access with motor running
- 4 Pentek proprietary dielectric control panel board, UL and CSA Certified

INTERNALS

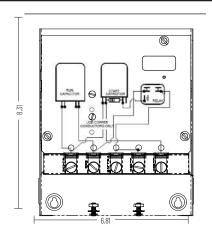
- Universal controls -designed to work on most manufacturers 3-wire submersible motors
- 6 Large wiring area offers generous space to make your wiring connections. Incorporates 1/2", 3/4" and 1" conduit knock-outs
- Control box is functional with the cover removed, offering easier in-the-field troubleshooting

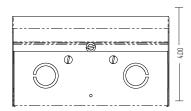
Agency Approvals: CSA CUS Certified Pentek Submersible Motor Controls can be used with Pentek XE Series motors.

BB CB12130WS

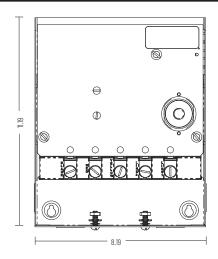
Pentek® VIP Pro Series Controls

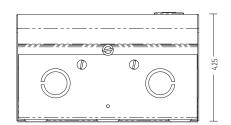
SIZE A





SIZE B





VIP CO	NTRO	OL BO	OX SPI	ECIFIC	CATION										
CATALOG							WEI	SHT	ENCLOSURE	STAF	RT CAPACITOR	RUN C	APACITOR	VOLTAGE	
NUMBER	HP	KW	PHASE	VOLTS	HERTZ	TYPE	LBS	KG	SIZE	PN	RATING	PN	RATING	RELAY	PROTECTOR
VIP4C02	0.50	0.37	1	230	60	CSCR	4.6	2.1	А	U17-1422	43MFD-270V-15kΩ	U17-2072	15MFD-370V	U17-2077	None
VIP4D02	0.75	0.55	1	230	60	CSCR	4.4	2.0	А	U17-1423	59MFD-270V-15kΩ	U17-2073	20MFD-370V	U17-2077	None
VIP4E02	1.00	0.75	1	230	60	CSCR	4.4	2.0	А	U17-1424	86MFD-270V-15kΩ	U17-2074	23MFD-370V	U17-2077	None
VIP4F02	1.50	1.1	1	230	60	CSCR	4.6	2.1	А	U17-1430	105MFD-330V-15kΩ	U17-1438	10MFD-370V	U17-2078	CGP69JB-7
VIP4G02	2.00	1.5	1	230	60	CSCR	4.6	2.1	А	U17-1430	105MFD-330V-15kΩ	U17-1440	23MFD-370V	U17-1431	CET38EB-7
VIP4H02	3.00	2.2	1	230	60	CSCR	5.4	2.4	А	U17-1428	208MFD-330V-15kΩ	U17-1443	45MFD-370V	U17-1431	CGT66DD-07
VIP4J02	5.00	3.7	1	230	60	CSCR	8.2	3.7	В	U17-1437	270MFD-330V-15kΩ	U17-1442	40MFD-370V (2 pcs)	U17-2079	BETOOEE-21

 $Control\ boxes\ are\ designed\ to\ be\ used\ on\ Pentair\ motors\ with\ the\ same\ HP\ and\ Voltage\ ratings.\ Do\ not\ use\ on\ motors\ with\ different\ ratings.$

90 CB12130WS

Single Phase Pump Protectors



Pentek° offers a full range of 1/3 - 15 HP single-phase protectors for residential, commercial, multiple housing and farm water systems applications where a 4" submersible, 2- and 3-wire motor is used and for aboveground pressure-boost applications.

APPLICATIONS

Pentek offers 5 models for your application needs based on HP and Motor Type: SPP-111P, SPP-111-3RLP, SPP-231P, SPP-233P and SPP-235P.

FEATURES

Protects Pumps: From dry well, overcurrent (jammed impeller), flow restriction (dead head), overvoltage, undervoltage, rapid cycling.

ORDERING INFORMATION					
	115 VOL	T MODELS		230 VOLT MODELS	
Catalog Number	SPP-111P	SPP-111-3RLP	SPP-231P	SPP-233P	SPP-235P
Enclosure Type	Insider	NEMA 3R	Insider	NEMA 3R	NEMA 3R
1-Phase Line Voltage	115VAC	115VAC	230VAC	230VAC	230VAC
Load Range	1/3-1/2 HP	1/3-1 HP	1/2-1 HP	1/2-3 HP	5-15 HP
Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Operating Points					
Overload (% of Cal. Point)	125%	125%	125%	125%	125%
Overvoltage Reset Point	132VAC	132VAC	265VAC	265VAC	265VAC
Undervoltage Reset Point	95VAC	95VAC	190VAC	190VAC	190VAC
Trip Delay (Overload)	10 sec.	10 sec.	10 sec.	5 sec.	5 sec.
Trip Delay (Dry Well)	2 sec.	2 sec.	2 sec.	2 sec.	2 sec.
Optional Trip Delay	4 sec.	4 sec.	4 sec.	4 sec.	4 sec.
Restart Delay Time					
Over/Under Voltage Delay	5 sec.	5 sec.	5 sec.	5 sec.	5 sec.
All Other Faults (Dry Well REC. Timer)	2-225 min.	2-225 min.	2-225 min.	2-225 min.	2-225 min.
Output Contact Rating (SPST)	1HP	1HP	1 HP (17 amps max.)	3 HP (17 amps max.)	480VA @ 240VA0
Power Consumption (max.)	5 amps	5 amps	5 amps	5 amps	5 amps
Weight w/o Enclosure	10 oz.		10 oz.	14 oz.	14 oz.
Weight w/Enclosure		1.6 lbs.		1.6 lbs.	1.6 lbs.
Enclosure Size	2.2" x 2.8"	6" x 6" x 4"	2.2" x 2.8"	6" x 6" x 4"	6" x 6" x 4"

CB6307WS

SPP-111P and SPP-231P

The Insider - Submersible Motors Controls



APPLICATIONS

Water systems...for residential, commercial, multiple housing, farm and turf irrigation uses, where a 4" submersible 3-wire motor is used.

FEATURES

Restart Delay: Can be set up to 225 minutes or placed in manual reset mode.

Calibration: Can be calibrated to specific pump/motor combinations and various conditions.

Infrared Communication: Coupled with the Pentek Informer makes diagnostics simple.

Fits in Existing 3-Wire Motor Control Boxes

For 1/3 - 1 HP applications, the SPP-111P and the SPP-231P Insider fits within 1/3 - 1 HP 115V and 230V CSIR control boxes. It's a "current monitor" designed to protect single-phase pumps. A simple adjustment allows the Insider to be calibrated to your specific pumping applications, reducing the possibility of false or nuisance tripping. Its unique microprocessor constantly monitors the incoming power for fluctuations in voltage and current. If

loss of suction or other abnormality is detected, the Insider deactivates its output relay and directly disconnects the pump motor. Then it begins its user-selectable "Restart Delay/Dry Well Recovery" timer. When the timer counts zero or power is removed and reapplied, the SPP-231P Insider reactivates its output relay and turns the pump back on.

The Pentek® Informer Remote Handheld Diagnostic Tool (sold separately) communicates directly with ALL Pentek Pump Protectors and instantly displays 16 parameters including calibration points, running points and last fault.

ORDERING IN	FORMATION						
					WEI	GHT	
HP	PHASE	VOLTS	FREQUENCY	CATALOGNUMBER	LBS.	KG	CARTONSIZE
1/3-1/2	1	115	50-60Hz	SPP-111P	1	0.45	4.4" x 4.4" x 6.8"
1/3-1	1	230	50-60Hz	SPP-231P	1	0.45	4.4" x 4.4" x 6.8"

92 CB6308WS

SPP-111-3RLP, SPP-233P and SPP-235P

Submersible and Above Ground Single Phase Pump Protector





SPP-233P

For 1/2 - 15 HP applications
the SPP-111-3RLP, SPP-233P and
SPP-235P single-phase protectors
include a unique microcontrollerbased voltage and current-sensing
circuit that constantly monitors the
incoming power for fluctuations
including overcurrent and undercurrent.
When an abnormality, such as loss of
suction, is detected, the control
deactivates its output relay and directly
disconnects the pump motor.

The SPP then begins its user-selectable restart delay (dry-well recovery) timer. When the timer counts to zero or power is removed and reapplied, the SPP reactivates its output relay and turns the pump back on. An infrared LED communicates directly with a handheld diagnostic tool called the Informer (sold separately – see page 85). The Informer displays 15 parameters including calibration point, trip point, running points, and last fault. The SPPs are all mounted in a NEMA 3R enclosure.

ORDERING INFORMATION **WEIGHT** HP **PHASE VOLTS FREQUENCY** LBS. KG **CATALOG NUMBER CARTON SIZE** 1/2-1 50-60Hz SPP-111-3RLP 0.7 7.25" x 7" x 5.25" 1 115 1.6 1/2-1-1/2 1 230 50-60Hz SPP-233P-1.5 1.6 0.7 7.25" x 7" x 5.25" 1/2-3 1 230 50-60Hz 1.6 0.7 7.25" x 7" x 5.25" SPP-233P 5 and 7-1/2 1 230 50-60Hz SPP-235P-75* 2 0.9 7.25" x 7" x 5.25" 10 1 2 230 SPP-235P-100* 0.9 7.25" x 7" x 5.25" 50-60Hz 230 50-60Hz SPP-235P-150* 2 0.9 7.25" x 7" x 5.25"

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APPLICATIONS

Water systems...for residential, commercial, multiple housing and farm uses, where a 4" 2 or 3-wire submersible motor or aboveground motor is used.

FEATURES

Protects Pumps: From dry well overvoltage, flow restriction (dead head), undervoltage, overcurrent (jammed impeller).

CB6309WS

^{*}Current transformer included.

The Informer

Remote diagnostic



FEATURES

Infrared Receiver: The Pentek[®] Informer uses an infrared receiver to access data sent from the SPP, allowing remote troubleshooting of the system.

Infrared LED: Each Pentek SPP is equipped with an infrared LED that transmits information from the device.
The Informer must be aimed at the SPP as shown in the figure to the left. As soon as power is applied, the Informer begins receiving both past and present information and displays it on the LCD.

Status Light: The green COMM STATUS light indicates when the Informer is receiving data from the SPP. If communication is lost, the Informer will hold the last values it received.

APPLICATIONS

The Pentek° **Informer...**a remote handheld diagnostic tool designed for use with Pentek single-phase submersible pump protectors (SPP-111P, 231P, 233P and 235P) equipped with infrared LED transmitters.

SPECIFICATIONS

Displayed Parameters: Diagnostic information received and displayed in real time: Voltage, Current, Power, Dry Well.

Overload Trip Points

Calibration Voltage

Last Fault

Highest/Lowest Voltage Since Last Calibration

ORDERING INFORMATION						
	V	/EIGHT				
CATALOG NUMBER	LBS.	KG	CARTON SIZE			
SPP-Informer	1	0.45	4.375" x 3.375" x 6.75"			

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Pentek Intellidrive[™]

Water Pressure Control Center



Homeowners with water pressure problems experience weak showers, unclean dishes, dry lawns and more.

The Pentek Intellidrive Water Pressure Control Center is an "Intelligent Variable Frequency Drive" that directs changes in submersible pump motor speed, responding to fluctuations in household demand. It maintains constant water pressure, regardless of how many people or appliances are using water at the same time.

APPLICATIONS

Residential water systems, landscape irrigation, water transfer.

SPECIFICATIONS

Enclosure Dimensions:

Width: 9.72" Height: 19" Depth: 6.93"

Carton Dimensions:

Width: 10.4" Height: 22.3" Depth: 9.4"

Shipping Weight: 22 pounds

Ambient Temperature Range:
-20°C (-4°F) to 50°C (122°F)

Ambient Humidity Range:

95% non-condensing

Includes:

Variable Frequency Drive

Transducer: 1/4" thread size, 18 NPT type **Transducer Cable:** 10' length standard

FEATURES

4 MODELS MEET ALL YOUR NEEDS

1/2 HP - 5 HP Capabilities
All in same unit;
2-Wire, 3-Wire & 3-Phase
Submersible motors
3-Phase Above Ground motors
1-Phase Input *230V)
80 Hz 3-Phase Output option**

PUMP AND MOTOR LAST LONGER

"Soft Start/Coast to Stop" minimizes mechanical stress.

Constant pressure eliminates frequent on/off "pressure cycling".

ADVANCED CONTROL SYSTEM

Needed for installation, system monitoring and troubleshooting.

Easy touchpad operation.

GROUND DETECTION

Detects and displays when there is a grounding problem.

Shuts down system until problem is corrected.

60Hz operation is recommended as the industry standard. Intermittent 80Hz operation is an acceptable option.

** Ongoing 80Hz operation may reduce the life of the pump and motor.

ORDERING INF	ORMATION				
MODEL Number	MOTOR TYPE	HP RANGE	INPUT VOLTAGE	MAXIMUM OUTPUT AMPS	ENCLOSURE TYPE
	2-WIRE 1-PHASE			9.5A	
PID10	3-WIRE 1-PHASE	0.5 – 1 HP		7.5A	
	3-PHASE			5A	
	2-WIRE 1-PHASE	0.5 – 1.5 HP		11A	
PID20	3-WIRE 1-PHASE	0.5.0110		13.5A	
	3-PHASE	0.5 – 2 HP	100\/ 005\/	8.5A	NEMA 7D autologi
	2-WIRE 1-PHASE	0.5 – 1.5 HP	- 190V – 265V	11A	NEMA 3R outdoor
PID30	3-WIRE 1-PHASE	0.5 – 2 HP		13.5A	
	3-PHASE	0.5 - 3 HP		11.5A	
	2-WIRE 1-PHASE	0.5 – 1.5 HP		11A	
PID50	3-WIRE 1-PHASE	0.5 – 2 HP		13.5A	
	3-PHASE	0.5 - 5 HP		18A	

BB CB10350WS

Pentek Intellidrive™

Water Pressure Control Center

Keyhole Mount

For fast and easy installation

LCD Information Center

Displays installation, status and fault information in easyto-understand language instead of codes

Ground Detection

Message Center shows if there is a grounding problem

Multiple Accessory Inputs

Additional inputs allow use of multiple drive accessories at the same time

Best-In-Class EMI/RFI Filter

Superior noise and interference protection, including AM radio signals

Spacious Wiring Area

For fast and easy installation

Programmable Input/Output Relays

Provide application flexibility

Easy-Access Conduit Openings

Align with appropriate terminals for straight-in accessibility. Fits 1/2", 3/4" or 1-1/4"



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Electronic

Pressure Transducer

More accurate and reliable than mechanical pressure switch, with piezo resistive technology designed to resist water hammer

Temperature- Sensitive Intelligent Fan

Operates when needed for quiet operation

SD Card Slot

For easy software updates when provided by manufacturer

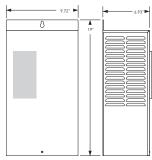
Spring Terminals

For secure connections and easy installation without special tools

Removable Terminal Blocks

For easy wiring of motor and power supply - field replaceable

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

CB10350WS

Pentek Intellidrive™

Water Pressure Control Center

PENTEK INTE	LLIDRIVE ACCESSORIES						
MODEL NO.	DESCRIPTION						
VFD-LINK	Wireless Translator for Intellidrive						
VFD-SGA	Surge arrestor kit, line and load						
VFD-SGA-LN	ırge arrestor kit, line side						
VFD-SGA-LD	urge arrestor kit, load side						
VFD-ALT	VFD Alternating panel						
VFD-WS	VFD Water sensor with 15' cable						
PID-GRP	Cable mounting and nut, 1/2 NPT, black, qty. 10						
VFD-SCRN	lter Kit						
PS2-S01	2 Gallon Tank						
PS5-S02	5 Gallon Tank						

PENTEK INTEL	LIDRIVE TRANSDUCER CABLES	
PART NUMBER	DESCRIPTION	REPLACES
VFD-10TCB	Transducer Cable 10FT 3R	U18-1593
VFD-20TCB	Transducer Cable 20FT 3R	U18-1594
VFD-50TCB	Transducer Cable 50FT 3R	U18-1595
VFD-100TCB	Transducer Cable 100FT 3R	U18-1596
VFD-200TCB	Transducer Cable 200FT 3R	U18-1598

PENTEK IN	TELLIDRIVE REPAIR PA	RTS	
MODEL NO.	ITEM	DESCRIPTION	MANUFACTURER
PID-CON2	2-Pole Connector (Line In)	2-Pole Connector (Line In)	Pentek [®]
PID-CON3	3-Pole Connector (Line Out)	3-Pole Connector (Line Out)	Pentek
PID-FAN	Replacement Fan	Replacement Fan	Pentek
PID-HMI	Replacement Keypad	Replacement Keypad	Pentek
U17-1561-R	Transducer (PID Control)	0 - 100 psig, 4~20ma, less lead	Pentek
U17-2000	Transducer (PID Control)	0 - 300 psig, 4-20ma, less lead	Pentek

Pentek Transducer for use with Pentek Intellidrive and Intellidrive XL.



VFD-WS

VFD WATER SENSOR WITH 15' CABLE



VFD-ALT

VFD ALTERNATING PANEL



VFD-LINK

WIRELESS TRANSLATOR FOR INTELLIDRIVE

BB CB10350WS

Pentek Intellikit[™]

Constant Pressure Controller

Pre-Specified and Packaged Constant Pressure Systems for Residential Well Water

Maintain constant water pressure for submersible well pump systems, similar to municipal water systems



1 PE

PENTEK

Submersible 3-Phase Motor

Built with the latest design, manufacturing and testing technology

Encapsulated stainless steel design and professional-grade insulation provide longer life in harsh environments

100% factory pressure- and run-tested



BERKELEY

Submersible Pump

Submersible pumps deliver efficient and dependable performance even in rough, aggressive water

One of the few manufacturers of both pumps and pressurized water storage tanks, now sold in over 100 countries



PENTEK INTELLIDRIVE

Variable Frequency Drive

Maintains constant pressure output regardless of fluctuating demand

Extends life of pump and motor

Utilizes a smaller pressure tank for a space-saving solution

KIT CONTAINS:

- Pentek® Submersible Motor
- Berkeley® Submersible Pump
- Pentek Intellidrive™ Variable Frequency Drive

The Pentek Intellidrive Constant Pressure Controller automatically adjusts motor speeds to meet changes in water demand. Instantaneous feedback from an electronic pressure transducer instructs the drive to change the submersible well pump motor speed to maintain constant pressure throughout the system.

98

CB10353WS

Pentek Intellikit[™]

Constant Pressure Controller

60Hz NEMA 3	Kits								
Order	Flow	LID	Shut-Off Head	At Rated Flow	at Max	Runout		ъ.	Maria
Number	Series	HP	TDH (ft)	TDH (ft)	Flow (GPM)	TDH(ft)	Pump	Drive	Motor
B5PIK10-60	5	1HP	650	475	7	300	L5P4EMGS	PID10	P43B0010A3-C
B5PIK15-60	5	1.5HP	885	640	7	400	L5P4FMGS	PID20	P43B0015A3-0
B7PIK10-60	7	1HP	540	380	10	140	L7P4EMGS	PID10	P43B0010A3-0
B7PIK15-60	7	1.5HP	740	475	10	190	L7P4FMGS	PID20	P43B0015A3-0
B7PIK20-60	7	2HP	920	610	10	210	L7P4GMGS	PID20	P43B0020A3-0
B10PIK10-60	10	1HP	495	300	15	110	L10P4EMGS	PID10	P43B0010A3-0
B10PIK15-60	10	1.5HP	629	410	15	150	L10P4FMGS	PID20	P43B0015A3-0
B10PIK20-60	10	2HP	795	498	15	200	L10P4GMGS	PID20	P43B0020A3-0
B10PIK30-60	10	3HP	1100	710	15	250	L10P4HMGS	PID30	P43B0030A3-0
B15PIK10-60	15	1HP	310	200	21	95	L15P4EMGS	PID10	P43B0010A3-0
B15PIK15-60	15	1.5HP	420	280	21	120	L15P4FMGS	PID20	P43B0015A3-0
B15PIK20-60	15	2.0HP	522	350	21	150	L15P4GMGS	PID20	P43B0020A3-0
B15PIK30-60	15	3.0HP	770	520	21	230	L15P4HMGS	PID30	P43B0030A3-0
B20PIK10-60	20	1HP	250	185	28	80	L20P4EMGS	PID10	P43B0010A3-0
B20PIK15-60	20	1.5HP	335	232	28	110	L20P4FMGS	PID20	P43B0015A3-0
B20PIK20-60	20	2.0HP	420	310	28	150	L20P4GMGS	PID20	P43B0020A3-0
B20PIK30-60	20	3.0HP	640	460	28	200	L20P4HMGS	PID30	P43B0030A3-0
B30PIK20-60	30	2.0HP	275	195	42	85	L30P4GMGS	PID20	P43B0020A3-0
B30PIK30-60	30	3.0HP	410	295	42	120	L30P4HMGS	PID30	P43B0030A3-0
B50PIK20-60	50	2.0HP	180	119	63	80	L50P4GMGS	PID20	P43B0020A3-0
B50PIK30-60	50	3.0HP	240	162	63	110	L50P4HMGS	PID30	P43B0030A3-0
B90PIK20-60	90	2.0HP	109	58	120	40	L90HF20	PID20	P43B0020A3-0
B90PIK30-60	90	3.0HP	150	80	120	55	L90HF30	PID30	P43B0030A3-0
80Hz NEMA 3	Kits		•						
B7PIK15-80	7	1.5HP	740	475	10	190	L7P4DMGS	PID20	P43B0015A3-0
B7PIK20-80	7	2HP	920	610	10	210	L7P4EMGS	PID20	P43B0020A3-0
B7PIK30-80	7	3HP	1205	805	10	290	L7P4FMGS	PID30	P43B0030A3-0
B10PIK15-80	10	1.5HP	629	410	15	150	L10P4DMGS	PID20	P43B0015A3-0
B10PIK20-80	10	2HP	795	498	15	200	L10P4EMGS	PID20	P43B0020A3-0
B10PIK30-80	10	3HP	1100	710	15	250	L10P4FMGS	PID30	P43B0030A3-0
B15PIK15-80	15	1.5HP	420	280	21	120	L15P4DMGS	PID20	P43B0015A3-0
B15PIK20-80	15	2.0HP	522	350	21	150	L15P4EMGS	PID20	P43B0020A3-0
B15PIK30-80	15	3.0HP	770	520	21	230	L15P4FMGS	PID30	P43B0030A3-0
B20PIK15-80	20	1.5HP	335	232	28	110	L20P4DMGS	PID20	P43B0015A3-0
320PIK20-80	20	2.0HP	420	310	28	150	L20P4EMGS	PID20	P43B0020A3-
B20PIK30-80	20	3.0HP	640	460	28	200	L20P4FMGS	PID30	P43B0030A3-0
B30PIK20-80	30	2.0HP	275	195	42	85	L30P4EMGS	PID20	P43B0020A3-
B30PIK30-80	30	3.0HP	410	295	42	120	L30P4FMGS	PID30	P43B0030A3-0
B50PIK30-80	50	3.0HP	240	162	63	110	L50P4FMGS	PID30	P43B0030A3-
B90PIK30-80	90	3.0HP	150	80	120	55	L90HF20	PID30	P43B0030A3-

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Note: 80Hz Kits utilize an undersized liquid end running at higher speed to match pump performance of the curve equivalent to the driving motor. Maximum life expectancy of the liquid end is obtained using 60Hz solutions.

CB10353WS

Pentek Intellidrive™ XL Pump Controllers



Pentek Intellidrive XL, the latest addition to our line of variable frequency drives, is designed for large horsepower pumping applications. Selection is easy. Setup is simple. And you have powerful opportunities to customize as needs arise. All backed by expert, dedicated tech support, available to quickly and efficiently resolve any issues.

APPLICATIONS

Turf irrigation, water transfer, light commercial water systems and agricultural.

SPECIFICATIONS

HP Ratings: 1-600 **Voltage:** 230, 460, 575 **Frequency:** 50/60 Hz

Standard I/O: Digital Inputs: 6; Analog Inputs: 2; Pulse Inputs: 2; Relays: 2; Digital Outputs: 2; Analog Outputs: 4

Communication: Modbus RTU

Enclosure Type: NEMA 1, 3R, 4X, IP20 Open/

100

Chassis

FEATURES

Pentek Intellidrive XL:

Variable Speed Control: Meets requirements of process control with constant pressure at variable flow conditions or constant flow at variable pressure conditions.

Reduced Energy Costs: Calculate energy savings online using BEC2 software at www.bec2.net.

Pump System Protection: Dry Run detection, check valve ramp, pipe fill mode, Sleep mode, no/low flow detection, end of pump curve detection, integrated mains disconnect switch (optional), real-time clock battery backup.

Phase Conversion: Single phase input drives are available that convert to 3 phase output.

Simple Setup:

Pump and Motor Settings: Above/ Below Ground, Horsepower, Voltage, Current, Nominal Speed.

System Learning: No Load, Sleep, No Flow.

Ready to Go!: That's it. The drive is now ready for use. Following those simple steps to configure your system for constant pressure has you ready to move to the next job.

CB12131WS

Pentek Intellidrive[™] **XL** Pump Controllers

ORDERING INFORMATION SINGLE PHASE INPUT DRIVES **INPUT OUTPUT INPUT MODEL NUMBER VOLTAGE** PHASE **RATING AMPS** PID007512ND 24.2 PID010012ND 30.8 NEMA 1 59.4 PID020012ND PID030012ND 88 230 24.2 PID007532ND 30.8 PID010032ND NEMA 3R 59.4 PID020032ND 88 PID030032ND

ORDERIN	ORDERING INFORMATION											
	SINGL	E PHASE INF	PUT DRIVES									
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NEMA RATING	MODEL NUMBER								
24.2				PID007542ND								
30.8	070		NIEMA / V	PID010042ND								
59.4	230	I	NEMA 4X	PID020042ND								
88				PID030042ND								

ORDERI	NG INFOR	MATION							
	ASE INPUT		NEI	MA 1	NEM	A 3R	NEM	A 4X	OPEN CHASSIS
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT
4.6			PID001013ND	PID001013FD	PID001033ND	PID001033FD	PID001043ND	PID001043FD	PID001003ND
7.5			PID002013ND	PID002013FD	PID002033ND	PID002033FD	PID002043ND	PID002043FD	PID002003ND
10.6			PID003013ND	PID003013FD	PID003033ND	PID003033FD	PID003043ND	PID003043FD	PID003003ND
16.7			PID005013ND	PID005013FD	PID005033ND	PID005033FD	PID005043ND	PID005043FD	PID005003ND
24.2			PID007513ND	PID007513FD	PID007533ND	PID007533FD	PID007543ND	PID007543FD	PID007503ND
30.8]		PID010013ND	PID010013FD	PID010033ND	PID010033FD	PID010043ND	PID010043FD	PID010003ND
46.2	230		PID015013ND	PID015013FD	PID015033ND	PID015033FD	PID015043ND	PID015043FD	PID015003ND
59.4	1		PID020013ND	PID020013FD	PID020033ND	PID020033FD	PID020043ND	PID020043FD	PID020003ND
74.8]		PID025013ND	PID025013FD	PID025033ND	PID025033FD	PID025043ND	PID025043FD	PID025003ND
88	1		PID030013ND	PID030013FD	PID030033ND	PID030033FD	PID030043ND	PID030043FD	PID030003ND
115	1		PID040013ND	PID040013FD	PID040033ND	PID040033FD	PID040043ND	PID040043FD	PID040003ND
143	1		PID050013ND	PID050013FD	PID050033ND	PID050033FD	PID050043ND	PID050043FD	PID050003ND
170	1		PID060013ND	PID060013FD	PID060033ND	PID060033FD	PID060043ND	PID060043FD	PID060003ND
2.1			PID001014ND	PID001014FD	PID001034ND	PID001034FD	PID001044ND	PID001044FD	PID001004ND
3.4	1		PID002014ND	PID002014FD	PID002034ND	PID002034FD	PID002044ND	PID002044FD	PID002004ND
4.8	1		PID003014ND	PID003014FD	PID003034ND	PID003034FD	PID003044ND	PID003044FD	PID003004ND
8.2	1		PID005014ND	PID005014FD	PID005034ND	PID005034FD	PID005044ND	PID005044FD	PID005004ND
11	1		PID007514ND	PID007514FD	PID007534ND	PID007534FD	PID007544ND	PID007544FD	PID007504ND
14.5	1		PID010014ND	PID010014FD	PID010034ND	PID010034FD	PID010044ND	PID010044FD	PID010004ND
21	1		PID015014ND	PID015014FD	PID015034ND	PID015034FD	PID015044ND	PID015044FD	PID015004ND
27	1 ,,,,		PID020014ND	PID020014FD	PID020034ND	PID020034FD	PID020044ND	PID020044FD	PID020004ND
34	460		PID025014ND	PID025014FD	PID025034ND	PID025034FD	PID025044ND	PID025044FD	PID025004ND
40	1	3	PID030014ND	PID030014FD	PID030034ND	PID030034FD	PID030044ND	PID030044FD	PID030004ND
52	1		PID040014ND	PID040014FD	PID040034ND	PID040034FD	PID040044ND	PID040044FD	PID040004ND
65	1		PID050014ND	PID050014FD	PID050034ND	PID050034FD	PID050044ND	PID050044FD	PID050004ND
80	1		PID060014ND	PID060014FD	PID060034ND	PID060034FD	PID060044ND	PID060044FD	PID060004ND
105	1		PID075014ND	PID075014FD	PID075034ND	PID075034FD	PID075044ND	PID075044FD	PID075004ND
130	1		PID100014ND	PID100014FD	PID100034ND	PID100034FD	PID100044ND	PID100044FD	PID100004ND
160			PID125014ND	PID125014FD	PID125034ND	PID125034FD	PID125044ND	PID125044FD	PID125004ND
1.7			PID001015ND	PID001015FD	PID001035ND	PID001035FD	PID001045ND	PID001045FD	PID001005ND
2.7	1		PID002015ND	PID002015FD	PID002035ND	PID002035FD	PID002045ND	PID002045FD	PID002005ND
3.9	1		PID003015ND	PID003015FD	PID003035ND	PID003035FD	PID003045ND	PID003045FD	PID003005ND
6.1	1		PID005015ND	PID005015FD	PID005035ND	PID005035FD	PID005045ND	PID005045FD	PID005005ND
9	1		PID007515ND	PID007515FD	PID007535ND	PID007535FD	PID007545ND	PID007545FD	PID007505ND
11	1		PID010015ND	PID010015FD	PID010035ND	PID010035FD	PID010045ND	PID010045FD	PID010005ND
18	1		PID015015ND	PID015015FD	PID015035ND	PID015035FD	PID015045ND	PID015045FD	PID015005ND
22	1		PID020015ND	PID020015FD	PID020035ND	PID020035FD	PID020045ND	PID020045FD	PID020005ND
27	575		PID025015ND	PID025015FD	PID025035ND	PID025035FD	PID025045ND	PID025045FD	PID025005ND
34	1		PID030015ND	PID030015FD	PID030035ND	PID030035FD	PID030045ND	PID030045FD	PID030005ND
41	1		PID040015ND	PID040015FD	PID040035ND	PID040035FD	PID040045ND	PID040045FD	PID040005ND
52	1		PID050015ND	PID050015FD	PID050035ND	PID050035FD	PID050045ND	PID050045FD	PID050005ND
62	1		PID060015ND	PID060015FD	PID060035ND	PID060035FD	PID060045ND	PID060045FD	PID060005ND
83	1		PID075015ND	PID075015FD	PID075035ND	PID075035FD	PID075045ND	PID075045FD	PID075005ND
100	1		PID100015ND	PID100015FD	PID100035ND	PID100035FD	PID100045ND	PID100045FD	PID100005ND
131	1		PID125015ND	PID125015FD	PID125035ND	PID125035FD	PID125045ND	PID125045FD	PID125005ND
			1 . 15123010110	. 151200101 B	. 1512000110	1 . 151200001 B	1 . 151200 10140	1 . 151200 101 B	. 15120000145

NOTE: the output current (or amps) of the Pentek Intellidrive XL must be greater than or equal to the maximum rated motor current.

RE CB12131WS

Pentek® XE-6 6" Submersible Motors

Encapsulated Design



Delivers outstanding performance through lower amp draw and higher efficiencies, which yields lower operating costs. Combined with many durable, innovative, and advanced design features, the Pentek XE-6 is the perfect solution for your submersible motor needs.

APPLICATIONS

High-thrust water well applications.

SPECIFICATIONS

Shaft: 17-4 stainless steel

Motor Casing: 304 stainless steel

Upper and Lower Bracket: Epoxy-coated

cast iron - coating is TNEMEC 140, an

NSF-certified coating

Upper Bracket: "dual-flange" design

Motor Lead: XLPE

Thrust Bearing: Water-lubricated,

Kingsbury-type

Pressure Equalizing Diaphragm: Spring-

less design











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FEATURES

Exceptional insulation rating (Class F) and temperature rating (95 F / 35 C)

IP68 protection rating

VFD-compatible

Vertical or Horizontal operation

EXCLUSIVE ADVANCED PROTECTION SYSTEM

Provides **THREE** layers of defense against sand and debris intrusion

1) External sand slinger boot

Features a labyrinth seal design to better capture any sand or debris, keeping it away from the shaft

2) Lip seal

• Located below the sand slinger, providing an extra layer of protection

3) Mechanical seal - silicon carbide

- Excellent abrasion, wear, and corrosion resistance
- Resists deflection in high-pressure, high-heat, and highspeed conditions
- High thermal conductivity (heat dissipation)
- Provides superior protection against sand intrusion

CB12129WS

Pentek® XE-6 6" Submersible Motors

Encapsulated Design

MOTOR PERFORMANCE AND DIMENSIONAL DATA

Nominal Diameter - 6" / 152.4mm Effective Diameter - 5.43" / 138mm 60Hz • 2 POLE • 3450 RPM CLASS F INSULATION Shaft Extension - 2.87" / 73mm

																						_					
ORI	DERING INF	ORI	MAT	ION																							
																LEN						CR/	ATE			WE	OUT
						FULL L	OAD		SE	RVICE F	ACTOR	1.15	ROTOR AMPS	LOAD (LBS)	KVA CODE	(INCLUDES SHAFT EXT) WEIGHT		GHT	L W		14070			IGHT +CRATE			
PHASE	MODEL# I	IP K	W V	OLTS	AMPS	WATTS	EFF %	PF %	AMPS	WATTS	EFF %	PF %				IN	MM	LBS	KG	IN	MM	IN	MM	IN	MM	LBS	KG
	P60A0050A2	5 3.			22.8	4975	74.5	97.0		5625	75.5	97.0	104		E	25.6	650	104	47.2	32	813	10	254	13.5	343	134	60.8
1	P60A0075A2 7		_ '	230	35.2	7300	77.0	92.0		8300	77.5	92.5	162	3600	F	28.1	714	117	53.1	02	010		201	10.0	0 10	151	68.5
		0 7.5	50	200	45.7	9700	76.5	94.0		11175	76.5	94.0	202		E	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3
		_	20		62.4	13725	81.5	98.0		15825	81.5	98.0	296		E	32.8	833	144	65.3		.2.0			1010	0.0	178	80.7
	P60A0050A8	5 3.	_	-	16.1	4830	77.5	86.5		5490	78.5	88.0	96		Н	23.0	583	87	39.5							115	52.2
	P60A0075A8 7	.5 5.	.5	ļ	23.3	7000	80.0	87.5	26.8	8070	80.0	88.5	140		Н	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A8 1	0 7.	_		31.5	9090	82.5	86.5	35.0	10400	82.5	88.0	187		Н	25.6	650	104	47.2			Ш				134	60.8
	P60A0150A8	5 1	1 20	0-208	44.9	13440	83.5	87.0	50.8	15460	83.5	88.5	268		Н	28.1	713	117	53.1							151	68.5
		20 1	5	,	59.0	17850	83.0	87.5	67.1	20630	83.0	89.0	354	ļ	Н	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3
		$\overline{}$	9	ļ	76.8	22110	84.0	85.5		25520	84.0	87.5	445		Н	32.8	834	144	65.3	10	1210	"	201	10.0	0 10	180	81.6
	P60A0300A8 3		_		91.7	26420	84.5	86.0		30450	84.5	87.5	530		Н	35.6	904	165	74.8			Ш				207	93.9
	F	5 3.	_	-	14.4	4830	77.5	86.5	16.1	5490	78.5	88.0	87		Н	23.0	583	87	39.5							115	52.2
	P60A0075A3 7		_	}	21.5	7000	80.0	87.5		8070	80.0	88.5	127		Н	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
		0 7.	_	-	28.0	9090	82.5	86.5		10400	82.5	88.0	164	7000	Н	25.6	650	104	47.2			Ш				134	60.8
		-		230	40.9	13440	83.5	87.0	46.3	15460	83.5	88.5	237	3600	H	28.1	713	117	53.1							151	68.5
		20 1		-	53.2	17850	83.0	87.5	60.8	20630	83.0	89.0	312		G	30.3	770	132	59.9	48	1219	10	254	13.5	5 343	166	75.3
		25 1	_	-	66.7	22110	84.0	85.5		25520	84.0	87.5	387		G	32.8	834	144	65.3		1210					180	81.6
		_	.2		79.3	26420	84.5	86.0	90.2	30450	84.5	87.5	458		G	35.6	904	165	74.8	_		$\vdash\vdash$				207	93.9
3		5 3.	_	-	7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44		H	23.0	583	87	39.5	7.0	047		05/	47.5		115	52.2
3	P60A0075A4 7	_	_	-	10.0	7000	80.0	87.5	11.3	8070	80.0	88.5	62		H	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
		0 7.		}	13.1	9090	82.5	86.5	_	10400	82.5	88.0	82		Н	25.6	650	104	47.2			\vdash			\vdash	134	60.8
	F	_	1	,,,,	20.4	13440	83.5	87.0	23.0	15460	83.5	88.5	117		G	28.1	713	117	53.1							151	68.5
		20 1	_	460	25.8	17850	83.0	87.5		20630	83.0	89.0	151		G	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3
		25 1	_	}	32.8	22110	84.0	85.5		25520	84.0	87.5	187		G	32.8	834	144	65.3							180	81.6
	F	0 2	_	}	39.3	26420	84.5	86.0		30450	84.5	87.5	226		G	35.6	904	165	74.8			Н				207	93.9
		0 3	_	}	51.3	35030	85.0 84.0	87.5		40500	85.0	89.0	302	6750	G	39.3	999	187 265	84.8	64	1626	10	254	13.5	343	229	103.9
		0 3	-		65.8	44350	77.5	87.0	75.1	51200	84.0	88.0	385		G H	54.1	1374		120.2			\vdash			-	319	144.7
	P60A0050A5	5 3	.7	}	5.8 8.2	4830 7000	80.0	86.5 87.5	6.5 9.3	5490 8070	78.5 80.0	88.0 88.5	35 51	-	Н	23.0	584 617	87 97	39.5 44.0	32	813	10	25/	13.5	7/.7	115 127	52.2 57.6
		0 7.	_	}	10.5	9090	82.5	86.5		10400	82.5	88.0	61	-	G G	25.6	650	104	44.0	JZ	010	IU	204	10.0	343	134	60.8
		U 7. 15 1	_	}	15.0	13440	83.5	87.0	17.1	15460	83.5	88.5	88	3600	G	25.6	714	117	53.1		\vdash	\vdash			\vdash	151	68.5
		$\overline{}$	5	575	20.9	17850	83.0	87.5		20630	83.0	89.0	122	3000	G	30.3	770	132	59.9							166	75.3
		25 1		}	26.2	22110	84.0	85.5		25520	84.0	87.5	153	1	G	32.8	833	144	65.3	48	1219	10	254	13.5	343	180	81.6
		30 2	_	ŀ	31.0	26420	84.5	86.0		30450	84.5	87.5	179	- -	G	35.6	904	165	74.8							207	93.9
		$\overline{}$	0	}	41.5	35030	85.0	87.5		40500	85.0	89.0	247	6750	G	39.3	998	187	84.8	6/1	1626	10	25/	13 E	3/,7	207	103.9
	CAUUPUAUU I	ın I ŋ	U		41.0	บบบบป	บบ.ป	07.0	47.0	HUUUUU	บบ.บ	บง.บ	247	0730	ַט	บข.บ	JJ0	107	04.0	υ4	ιυΖΟ	IU	ZJ4	เบ.บ	UHU	223	100.8

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Note

Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.

CB12129WS

Pentek® XE-6 Controls

For Pentek XE-6 Single Phase Motors







14 ga steel enclosure with polyester powder-coated paint

· Heavy-duty construction, high durability and corrosion-resistance

Continuous hinge door

- · Easy access no need to remove during installation or service
- Opens past 180° for easy access

Integral mounting flange

· Easy to wall-mount while maintaining NEMA

Multiple knockout (embossed) options

- 2 dual 1/2" 3/4"
- 2 dual 3/4" 1"
- 2 dual 1-1/4" 1- 1/2"

Seamless, foamed-in-place door gasket

• Excellent protection against intrusion from dirt, dust, rain, sleet, snow or wind-directed

Bonding provision on door

• When required by code

NEMA 4 rated enclosure (compare to competition at only NEMA 3)

IP66 Ingress Protection rating

Opens with two quarter-turn latches

• No risk of lost door fasteners, no tools needed

Locking Hasp

Added security

Size - 16" x 14"

- Generous size allows for more room to work inside the box
- Easier conduit attachment, wire pulling, and wire connections

Terminals accept up to 4AWG wire **Magnetic line contactors**

• Included standard on each box

Removable back panel

- All electric components mounted on panel
- · Easy installation and servicing, when downtime is critical

Pentek Single Phase Control Boxes For Pentek XE-6 Single Phase Motors

60Hz • 2 POLE

ORDEF	ORDERING INFORMATION												
						CON	TROL BO	X DIMENS	IONS				
					HEI	GHT	WII	DTH	DE	PTH			
PHASE	MODEL #	HP	KW	VOLTS	IN	MM	IN	MM	IN	MM	LBS	KG	
	PTKX-5SCB	5	3.70								30	13.6	
1	PTKX-7SCB	7.5	5.60	270		356	12.0	70/ 0	6.0	152.4	32	14.5	
•	PTKX-10SCB	10	7.50		14.0	350	12.0	304.8	6.0	152.4	33.2	15 1	
	PTKX-15SCB	15	11.20								33.2	15.1	

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Note:
Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.

CB12129WS

Hitachi® 6" Submersible Motors



Hitachi Motors are designed and manufactured to provide long service life and trouble-free operation.

Innovative design and robust characteristics make this the perfect motor for your pumping applications.

Combined with exceptional insulation and a patented epoxy fill resin, these motors exceed NEMA requirements for high water temperature by 18° F (10° C). Designed with internal lubrication and cooling blend of water, antifreeze, and an antirust mixture, Hitachi submersible motors are unique in providing the industry with innovative and robust design features that will extend the serviceable life of your installation.

APPLICATIONS

High-thrust, deep water well applications.

SPECIFICATIONS

Motor Sleeve: Stainless steel construction

Castings: Baked epoxy-coated gray

cast iron

Fasteners: Stainless steel

Shaft: NEMA splined stainless steel

Flange: NEMA standard type **Rotor:** Double epoxy-coated

Thrust Bearings: Kingsbury-type 420

stainless steel

Double Lip Seals: Nitrile rubber (NBR), sand-resistant, grease-packed for harsh, sandy well

conditions

Diaphragm: Nitrile rubber **Sand Cap:** Polyurethane **Sand Slinger:** Stainless steel

Lead Wire (or Cable): Double-insulated, heat and water-resistant, 167°F/75°C, 600V

TPES

FEATURES

Higher Efficiencies and Lower

Current Consumption: For reduced energy

costs.

Carbon Bearings: Two water-lubricated carbon bearings, for extra alignment support, serve as a steady bushing for the motor.

Corrosion-Resistant Design:

For long life.

High-Capacity Kingsbury-Type Bearings:

For dependable performance.

Low-Profile NEMA Design: For ease

of installation.

Replaceable Plug-in Motor Lead:

For ease of maintenance.

Dual Voltage Type: For application versatility (5HP – 30HP, 230V or 460V,

3-phase motors).

VFD-Compatible

Hitachi Control Box - Single Phase, 230V (Required for Hitachi 10 motors)

Type 1 NEMA Enclosure

In-Panel Circuit Breaker

Magnetic Contactor

Terminal Blocks for External Controls

UL Recognized

Hitachi single phase motors must use a Hitachi control box. Use of any other control box will void the warranty.





Hitachi submersible motors in this brochure are produced at the factory registered under the ISO 14001 standard for environmental management system and the ISO 9001 standard for motor quality management system.

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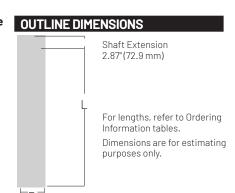
CB2199WS

Hitachi® 6" Submersible Motors

OF	RDERI	NG INFO	ORM.	ATION											
				0551/105		RATED	SERVICE FACTOR	WINDING	TURUST		GTH L)	DIAM ()	ETER D)	WEI	GHT
HP	KW	VOLTS	PH	SERVICE FACTOR	CATALOG NUMBER	INPUT AMPS	INPUT AMPS	RESISTANCE (OHMS)	THRUST CAPACITY	IN.	мм	IN.	мм	LBS.	KG
6" E	DIAME	TER 60	HZ												,
5	3.7	200	3	1.15	6HIT2-5-8	17.5	19.5	RTF	3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	230	1	1.15	6HIT2-5-1	24	27.5	R-Y, B-Y, R-B, 2.172, 0.512, 2.627	3,500	26.97"	685.0	5.5"	139.7	110	49.9
5	3.7	230	3	1.15	6HIT2-5-2	15	17	0.806	3,500	22.95"	582.9	5.5"	139.7	95	43.0
5	3.7	460	3	1.15	6HIT2-5-4	7.5	8.5	3.05	3,500	22.95"	582.9	5.5"	139.7	95	43.0
7.5	5.5	200	3	1.15	6HIT2-7-8	25.4	28.5	RTF	3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	230	1	1.15	6HIT2-7-1	36	41	R-Y, B-Y, R-B, 1.401, 0.400, 1.774	3,500	29.92"	760.0	5.5"	139.7	128	58.1
7.5	5.5	230	3	1.15	6HIT2-7-2	22	26	0.651	3,500	24.80"	629.9	5.5"	139.7	99	43.0
7.5	5.5	460	3	1.15	6HIT2-7-4	11	13	2.43	3,500	24.80"	629.9	5.5"	139.7	99	43.0
10	7.5	200	3	1.15	6HIT2-10-8	33.3	37.2	RTF	3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	230	1	1.15	6HIT2-10-1	50	58	R-Y, B-Y, R-B, 1.052, 0.316, 1.310	3,500	29.92"	760.0	5.5"	139.7	128	58.1
10	7.5	230	3	1.15	6HIT2-10-2	29	33	0.448	3,500	26.97"	685.0	5.5"	139.7	110	49.9
10	7.5	460	3	1.15	6HIT2-10-4	14.5	16.5	1.619	3,500	26.97"	685.0	5.5"	139.7	110	49.9
15	11	200	3	1.15	6HIT2-15-8	47.4	53.5	RTF	3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	230	1	1.15	6HIT2-15-1	72	85	R-Y, B-Y, R-B, 0.678, 0.230, 0.850	3,500	33.46"	849.9	5.5"	139.7	148	67.1
15	11	230	3	1.15	6HIT2-15-2	42	46	0.312	3,500	29.92"	760.0	5.5"	139.7	128	58.1
15	11	460	3	1.15	6HIT2-15-4	21	23	1.074	3,500	29.92"	760.0	5.5"	139.7	128	58.1
20	15	200	3	1.15	6HIT2-20-8	61.2	69.5	RTF	3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	230	3	1.15	6HIT2-20-2	54	60	0.258	3,500	31.5"	800.1	5.5"	139.7	137	62.1
20	15	460	3	1.15	6HIT2-20-4	27	30	0.861	3,500	31.5"	800.1	5.5"	139.7	137	62.1
_ 25	18.5	200	3	1.15	6HIT2-25-8	77.3	87.5	RTF	3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	230	3	1.15	6HIT2-25-2	68	76	0.21	3,500	36.22"	920.0	5.5"	139.7	161	73.0
25	18.5	460	3	1.15	6HIT2-25-4	34	38	0.666	3,500	36.22"	920.0	5.5"	139.7	161	73.0
30	22	200	3	1.15	6HIT2-30-8	91.8	104	RTF	3,500	38.19"	970.0	5.5"	139.7	176	79.8
_ 30	22	230	3	1.15	6HIT2-30-2	82	94	0.166	3,500	39.19"	970.0	5.5"	139.7	176	79.8
30	22	460	3	1.15	6HIT2-30-4	41	47	0.554	3,500	38.19"	970.0	5.5"	139.7	176	79.8
40	30	460	3	1.15	6HIT2-40-4	56	61	0.358	5,000	40.55"	1,030.0	5.5"	139.7	187	84.8

NOTE: 6" motors are 3450 rpm, 60 Hz, 1.15 SF.

Hitachi single phase motors must use a Hitachi control box. Use of any other control box will void the warranty.



ORD	ERING	INFORM/	ATION								
HP	KW VOLTS PH CATALOGNUME										
HITA	HITACHI CONTROL BOX										
5	3.7	230	1	HIT-5CBD							
7.5	5.5	230	1	HIT-7.5CBD							
10	7.5	230	1	HIT-10CBD							
15	11	230	1	HIT-15CBD							

106 CB2199WS

SJH Series

Self-priming shallow well jet pumps, stainless steel body



SJH models provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling... for homes, farms and cottages.

SPECIFICATIONS

Maximum Liquid Temperature Limits: 122°F (50°C)

Max. Inlet Pressure: 50 PSI

Average Priming Time at 20 Feet:

07SJH11C = 5.3 min. 10SJH11C = 4.2 min.

Body: 304 Stainless steel

Jet Assembly, Diffuser, Impeller:

Noryl®

Shaft: One-piece threaded, 416 grade

RH

stainless steel

Base: Polypropylene

FEATURES

Corrosion Free: Stainless steel pump body provides maximum resistance to corrosion.

Built-in Jet: High-strength thermoplastic components are corrosion resistant.

Mechanical Shaft Seal: Highly polished carbon-ceramic and stainless steel construction.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants... assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: All electrical components are protected from dirt, dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

Pressure Switch: Quality, fixed differential (20 PSI).

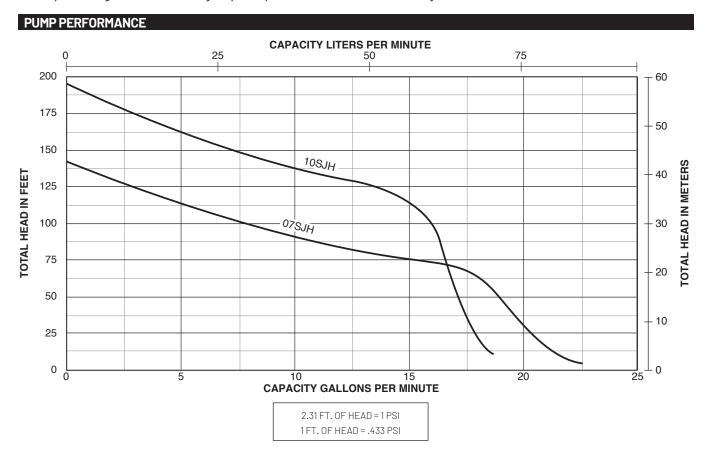
ORDER	ING IN	FORMATI	ON				
CATALOG		SWITCH		PIPETAPP	PIPNGSIZES	MOTOR	APPROX.
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT.LBS.
07SJH11C	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	26
10SJH11C	1	40-60	Shallow Well Jet	1-1/4"	1"	115/230	29

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CB5185WS

SJH Series

Self-priming shallow well jet pumps, stainless steel body



PUMP PERFORMANCE (Capacity in gallons per minute)												
CATALOG	LID	DISCH. PRESSURE			SHUT-OFF							
NUMBER	1BER HP	PSI	5	10'	15	20'	25	PRESSURE PSI				
		30	15.0	13.5	11.9	10.4	9.1					
07SJH	3/4	40	8.3	7.1	6.1	5.2	4.3	64				
		50	3.7	2.9	1.9	1.0	0.2					
		40	16.2	14.6	12.6	10.6	7.5					
10SJH	1	50	15.4	14.3	12.3	10.3	7.3	80				
		60	9.5	9.5	9.5	9.5	7.1					

Tested and rated in accordance with Water Systems Council Standards.

NOTE: CJ90E uses 30-50 PSI pressure switch; CJ90F uses 40-60 PSI pressure switch.

Pumps installed with a Pro-Source tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

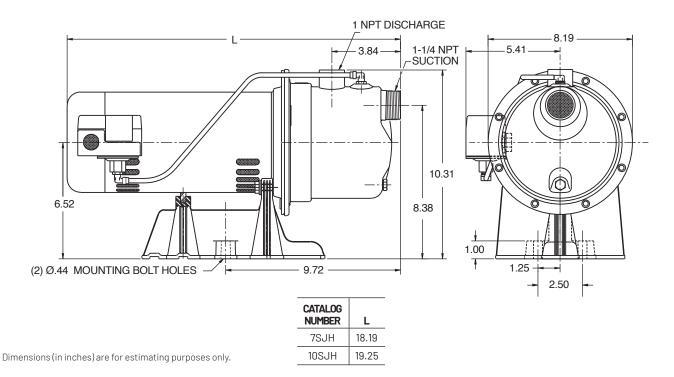
108

CB5185WS

SJH Series

Self-priming shallow well jet pumps, stainless steel body

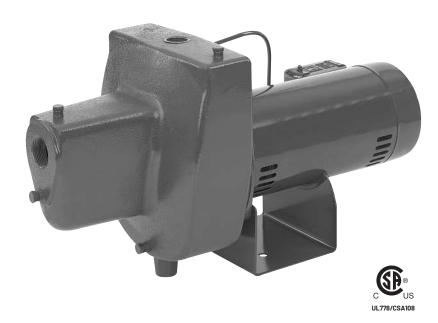
OUTLINE DIMENSIONS



109

CB5185WS

Cast iron, self-priming shallow well jet pumps



The ProJet HN models provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber

has been filled with water.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Max. Inlet Pressure: 50 PSI

Average Priming Time (in minutes) at 15

5HN = 1.7; 7HN = 1.1; 10HN = 1.3

Average Priming Time (in minutes) at 25

Nozzle: High-strength Lexan®

Venturi: Lexan® Impeller: Noryl®

stainless steel

Max. Liquid Temperature: 140°F

Feet:

Feet: 5HN = 4.4; 7HN = 4.4; 10HN = 2.6

Body: Close-grained cast iron

Diffuser: Reinforced polypropylene Shaft: One-piece threaded, 416 grade

Base: Steel, 12 gauge

Quality Construction: Close-grained cast iron body, specially treated for corrosion resistance. Drain port provided for easy winterizing.

FEATURES

Built-in Jet: High-strength Lexan nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design quarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

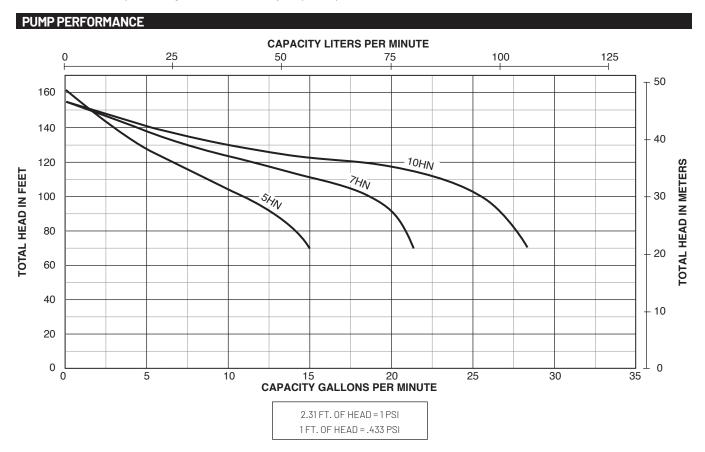
Pressure Switch: Professional quality, allows cut-in and differential adjustments.

ORDER	ING INI	FORMATI	ON				
CATALOG		SWITCH		PIPETAPP	PIPNG SIZES	MOTOR	APPROX.
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT.LBS.
5HN	1/2	30-50	Shallow Well Jet	1-1/4"	1"	115/230	47
7HN	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	65
10HN	1	30-50	Shallow Well Jet	1-1/4"	1"	115/230	70

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> 110 CB5135WS

Cast iron, self-priming shallow well jet pumps



CATALOG		DISCH. PRESSURE			SHUT-OFF				
NUMBER	HP	PSI	5	10'	15'	20'	25	PRESSURE PSI	
	1/2	30	15.0	13.0	11.6	8.7	6.9		
5HN		40	12.5	11.4	10.1	8.2	6.8	70	
		50	8.0	6.8	6.1	4.8	3.5		
		30	21.4	19.1	16.5	13.3	9.5		
7HN	3/4	40	20.8	18.7	15.8	13.2	9.3	67	
71114		50	13.5	11.6	10.1	7.4	2.4		
		30	28.5	25.0	21.4	17.4	12.6		
10HN	1	40	28.3	24.4	21.0	17.2	12.3	67	

Pump will operate at all depths shown, with pressure switch set at 30-50 PSI.

 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

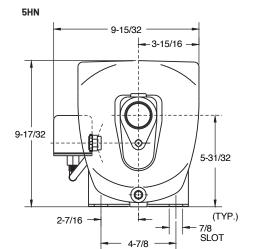
111

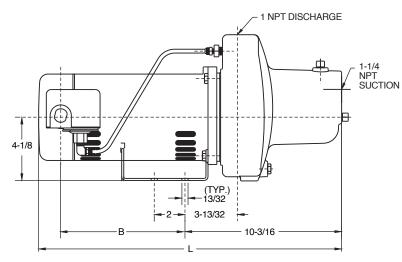
CB5135WS

Cast iron, self-priming shallow well jet pumps

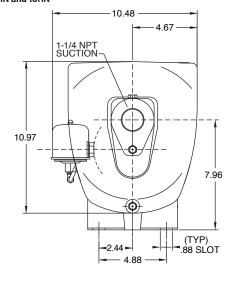
OUTLINE DIMENSIONS

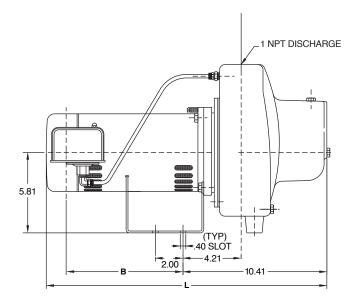
CATALOG NUMBER	L	В
5HN	18.7	7.1
7HN	21.3	7.0
10HN	22.4	8.0





7HN and 10HN





Dimensions (in inches) are for estimating purposes only.

112 CB5135WS

Cast iron, self-priming shallow well jet pumps



The ProJet SN Series Pumps provide excellent performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Max. Liquid Temperature: 140° F

Max. Inlet Pressure: 50 PSI

Average Priming Time (in minutes) at 15

Feet:

5SN = 2.3; 7SN = 1.7 10SN = 1.3; 15SN = 1.1

Average Priming Time (in minutes) at 25 Feet:

5SN = 6.4; 7SN = 4.4 10SN = 4.4; 15SN = 2.6

Body: Close-grained cast iron **Nozzle:** High-strength Lexan*

Venturi: Lexan Impeller: Noryl°

Diffuser: Reinforced polypropylene **Shaft:** One-piece threaded, 416 grade

stainless steel

Base: Steel, 12 gauge ORDERING INFORMATION

CATALOG		SWITCH		PIPETAP	PIPNGSIZES	MOTOR	APPROX.
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT.LBS.
5SN	1/2	30-50	Shallow Well Jet	1-1/4"	1"	115/230	45
7SN	3/4	30-50	Shallow Well Jet	1-1/4"	1"	115/230	47
10SN	1	30-50	Shallow Well Jet	1-1/4"	1"	115/230	55
15SN	1-1/2	30-50	Shallow Well Jet	1-1/4"	1"	115/230	60

FEATURES

Quality Construction: Close-grained cast iron body. Drain port provided for easy winterizing.

Built-in Jet: High-strength Lexan nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser:

Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: All electrical components

are protected from dirt,

dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

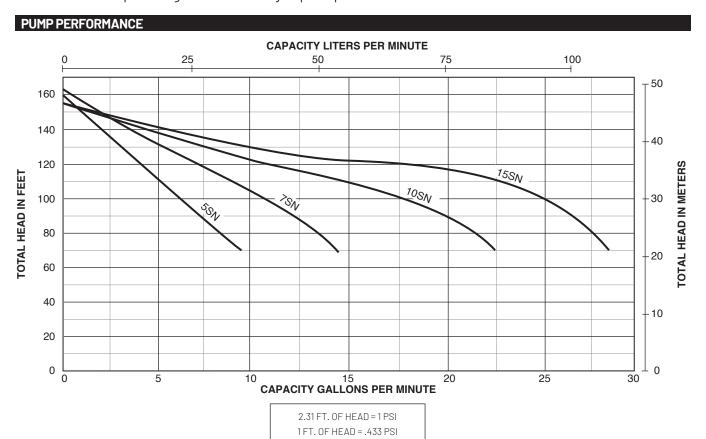
switching components.

Pressure Switch: Professional quality, allows cut-in adjustments.

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113 CB5134WS

Cast iron, self-priming shallow well jet pumps



CATALOG		DISCH. PRESSURE		DY	NAMIC SUCTION L	FT		SHUT-OFF
NUMBER	HP	PSI	5	10'	15	20'	25	PRESSURE PS
		30	9.7	8.3	7.4	5.9	4.3	
5SN	1/2	40	7.9	7.2	6.4	5.6	4.1	70
		50	4.5	3.8	3.1	2.7	1.8	
	3/4	30	15.0	13.0	11.6	8.7	6.9	
7SN		40	12.5	11.4	10.1	8.2	6.8	70
		50	8.0	6.8	6.1	4.8	3.5	
		30	21.4	19.1	16.5	13.3	9.5	
10SN	1	40	20.8	18.7	15.8	13.2	9.3	67
		50	13.5	11.6	10.1	7.4	2.4	
		30	28.5	25.0	21.4	17.4	12.6	
15SN	1-1/2	40	28.3	24.4	21.0	17.2	12.3	67
	1 1/2	50	21.5	18.3	10.9	3.1	1.6	

114

Pump will operate at all depths shown, with pressure switch set at 30-50 PSI.

 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve.

Pumps installed with a conventional tank require a 75 PSI relief valve.

Relief valve must be capable of relieving entire flow of pump at relief pressure.

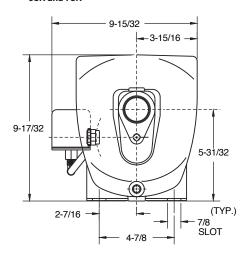
CB5134WS

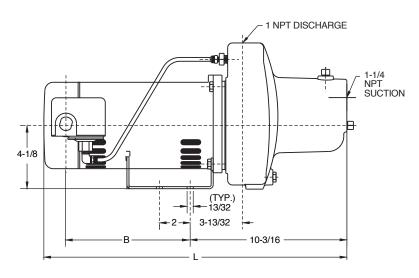
Cast iron, self-priming shallow well jet pumps

OUTLINE DIMENSIONS

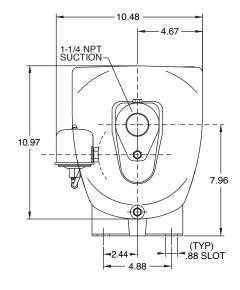
CATALOG NUMBER	L	В
5SN	18.7	7.1
7SN	18.7	7.1
10SN	21.3	7.0
15SN	22.4	8.0

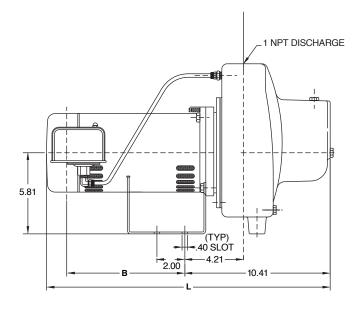
5SN and 7SN





10SN and 15SN





Dimensions (in inches) are for estimating purposes only.

115 CB5134WS

FN Series

Cast iron, self-priming shallow well jet pumps



C US

The FN Series provides strong performance with good pressure for wells to 25' deep. Self-priming after the priming chamber has been filled with water.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

5FN Priming Time (in minutes):

at 15': 2.25 minutes max. at 25': 6.5 minutes max.

7FN Priming Time (in minutes):

at 15': 1.7 minutes max. at 25': 4.4 minutes max.

Max. Liquid Temperature: 140°F 5FN Max. Inlet Pressure: 60 PSI 7FN Max. Inlet Pressure: 50 PSI

Max. Inlet PSI + Pump Discharge PSI: Not

to exceed 100 PSI

Body and Base: Close-grained cast iron **Nozzle:** High-strength polycarbonate

Venturi: Polycarbonate

Impeller: Noryl®

Diffuser: Reinforced polypropylene **Shaft:** One-piece threaded stainless steel

116

FEATURES

Quality Construction: Close-grained cast iron body and base, specially treated for corrosion resistance. Drain port provided for easy winterizing.

Built-in Jet: High-strength polycarbonate nozzle and venturi for maximum resistance to corrosion and abrasion. Cleanout plug provided for ease of service.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design quarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Heavy-Duty Ball Bearings: Sealed, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: All electrical components are protected from dirt,

dust and insects by a dustproof canopy; ventilating air cannot contaminate vital switching components.

Pressure Switch: Adjustable cut-in and fixed differential (20 PSI).

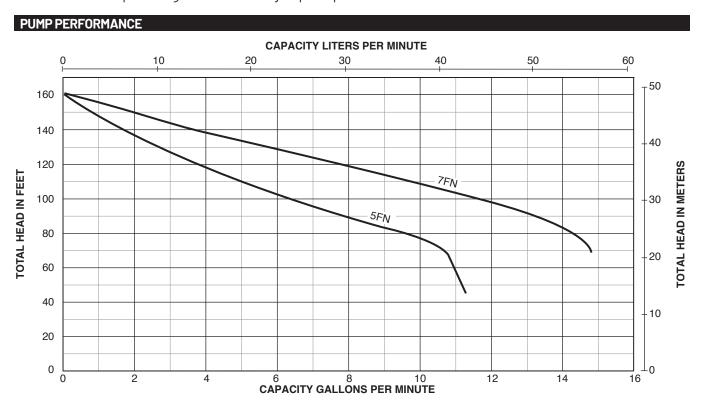
ORDER	ORDERING INFORMATION												
CATALOG		SWITCH		PIPETAPP	PIPNGSIZES	MOTOR	APPROX.						
NUMBER	HP	SETTING	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	WT.LBS.						
5FN	IMBER HP SETTING 5FN 1/2 30-50	30-50	Shallow Well Jet	1-1/4"	1"	115/230	46						
7FN	7FN 3/4 30-50 Shallov		Shallow Well Jet	1-1/4"	1"	115/230	47						

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CB5155WS

FN Series

Cast iron, self-priming shallow well jet pumps



PUMP PERF	ORMANCE (Ca	pacity in gallon	ıs per minute)									
CATALOG		DISCH.PI	RESSURE		DYNAMIC SUCTION LIFT							
NUMBER	HP	PSI	FEETHEAD	5	10'	15	20'	25'	SHUT-OFF PRESSURE PSI			
		20	46.2	9.8	8.8	7.5	6.2	4.5				
EEN	1/0	30	69.3	9.2	8.2	7.2	5.9	4.2	00			
5FN	1/2	40	92.4	6.9	6.0	5.3	4.5	4.0	69			
		50	115.5	3.8	3.5	2.7	1.9	1.4				
		30	69.3	15.0	13.0	11.6	8.7	6.9				
7FN	3/4	40	92.4	12.5	11.4	10.1	8.2	6.8	70			
		EO	110 0	0.0	0.0	0.1	7. 0	7.5	1			

117

Pump will operate at all depths shown, with pressure switch set at 30-50 PSI.

Tested and rated in accordance with Water Systems Council Standards.

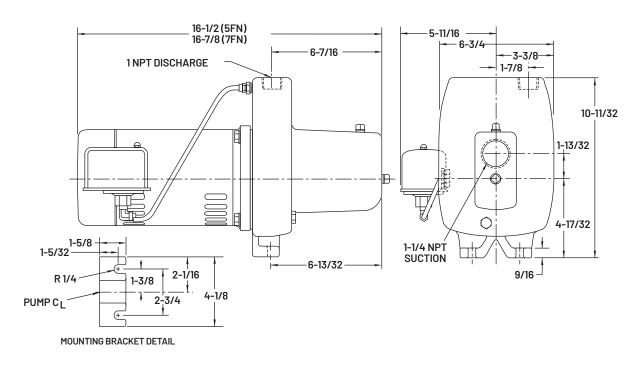
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve.
Pumps installed with a conventional tank require a 75 PSI relief valve.
Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB5155WS

FN Series

Cast iron, self-priming shallow well jet pumps

OUTLINE DIMENSIONS



118

Dimensions (in inches) are for estimating purposes only.

CB5155WS

PN Series

Corrosion-resistant, self-priming shallow well jet pumps





PN Series Shallow Well Jet Pumps are corrosion- and abrasion-resistant and are ideal for wells with pumping levels of 25 or less.

Self-priming after the pump housing is initially filled with water.

Capacities to 18 GPM. Available in 1/2, 3/4 and 1 HP models.

Supplied with the industry standard 30-50 pressure switch setting.

APPLICATIONS

Water Systems

Booster Pump

Marine Use

Mist Sprayers - Poultry

Fountains and Water Features

SPECIFICATIONS

Body and Seal Plate: Fiberglass-

reinforced thermoplastic

Impeller: Engineered polymer

Base: 12-gauge steel

Nozzle, Venturi, Diffuser: Polypropylene

119

FEATURES

Quality Construction: Fiberglass-reinforced thermoplastic body provides total corrosion resistance and high resistance to abrasion.

Built-in Jet: Shallow-well jet has corrosion-resistant polypropylene nozzle and venturi.

Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Polypropylene diffuser allows pump to prime faster, handle more air.

Heavy-Duty Motor: Stainless steel shaft and dual heavy-duty ball bearings.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Dual Voltage Capability:

Dual voltage motors are shipped at the 230-volt setting.

Professional Quality, Pre-set 30-50 PSI:

Allows for cut-in pressure adjustments.

New Nozzle Cleanout: Easy plug removal and access for ease of service.

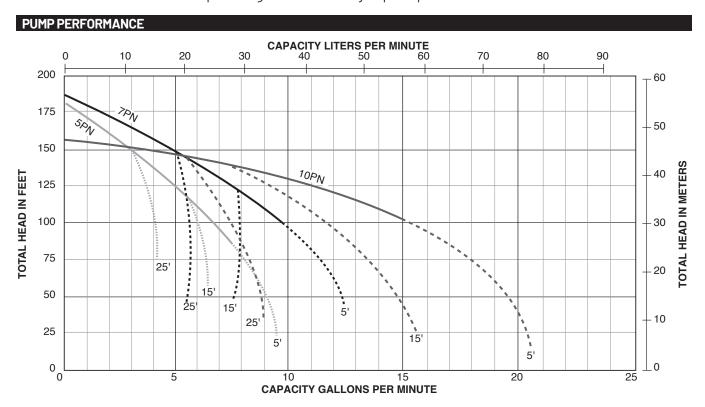
New Drain Plug: Bottom-mounted for easy draining and winterization.

ORDER	ING INI	FORMATION				
CATALOG			PIPETAPE	PIPNGSIZES	MOTOR	APPROX.WT.
NUMBER	HP	DESCRIPTION	SUCTION	DISCHARGE	VOLTAGE	LBS./KG
5PN	1/2	Shallow Well Jet	1-1/4"	1"	115/230	21/9.5
7PN	3/4	Shallow Well Jet	1-1/4"	1"	115/230	24/11
10PN	1	Shallow Well Jet	1-1/4"	1"	115/230	26/12

CB5624WS

PN Series

Corrosion-resistant, self-priming shallow well jet pumps



PUMP PERFO	DRMANCE (Capa	acity in gallons pe	r minute)					
CATALOG		DISCH. PRESSURE		DY	NAMIC SUCTION LI	FT		SHUT-OFF
NUMBER	HP	PSI	5'	10'	15	20'	25'	PRESSURE PSI
		30	8.5	7.1	6.5	5.4	4.1	
5PN	1/2	40	7.4	6.4	6.1	5.1	4.0	77
		50	5.2	5.1	4.5	4.1	3.4	
	3/4	30	12.1	10.7	9.0	7.6	5.3	
7PN		40	10.7	10.2	8.5	7.3	5.7	78
		50	8.5	8.4	8.1	7.1	5.1	
		30	18.0	17.1	14.9	12.6	8.8	
10PN	1	40	16.8	16.1	14.4	12.2	8.5	67
		50	13.5	13.4	13.0	12.0	8.1	

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Pumps will operate at all depths shown, with pressure switch set at 30-50 PSI. Tested and rated in accordance with Water Systems Council Standards.

Relief valve must be capable of relieving entire flow of pump at relief pressure.

CB5624WS

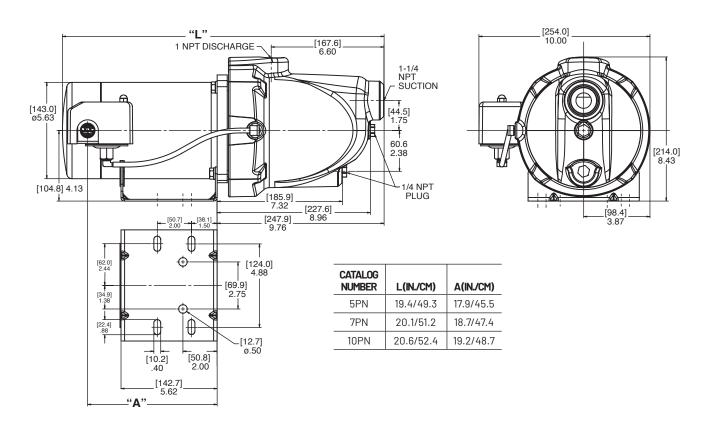
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve.

Pumps installed with a conventional tank require a 75 PSI relief valve.

PN Series

Corrosion-resistant, self-priming shallow well jet pumps

OUTLINE DIMENSIONS



121

Dimensions (in inches) are for estimating purposes only.

CB5624WS

Cast iron, self-priming convertible jet pumps





Pressure Gauge (included)

The ProJet HL convertible jet pumps offer a proven cast iron self-priming design available in 1/2 –1 HP models. The ProJet HL convertible jets utilize built-in regulators offering easier priming and better range of performance from a complete line of shallow well, 4" double pipe, 2" and

3" single pipe jet packages.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Body and Seal Plate: Close-grained

cast iron

Impeller: High-strength Noryl*

Diffuser: Reinforced polypropylene

with brass wear ring

Shaft: One-piece threaded 416

stainless steel

Base: Steel, 12 gauge

Max. Liquid Temperature: 140°F

Max. Inlet Pressure: 50 PSI

Pressure Switch Pre-Set: 30-50 PSI Suction Ports: "Suction-over-Drive"

Pressure Gauge: 0-100 PSI

FEATURES

Quality Construction: Close-grained cast iron pump body is a rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Pressure Switch: High quality, cut-in and differential pressure setting are adjustable.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: 416 stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

ORDER	ING IN	FORMATION						
CATALOG			PIPE	TAPPIPNGS	MOTOR	APPROX.		
NUMBER 5HL	HP	DESCRIPTION	SUCTION	DRIVE	DISCHARGE	VOLTAGE	WT.LBS.	
5HL	1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	42	
7HL	3/4	Deep Well Jet	1-1/4"	1"	1"	115/230	60	
10HL	1	Deep Well Jet	1-1/4"	1"	1"	115/230	65	

A Jet Package should be ordered with every Series HL Pump.

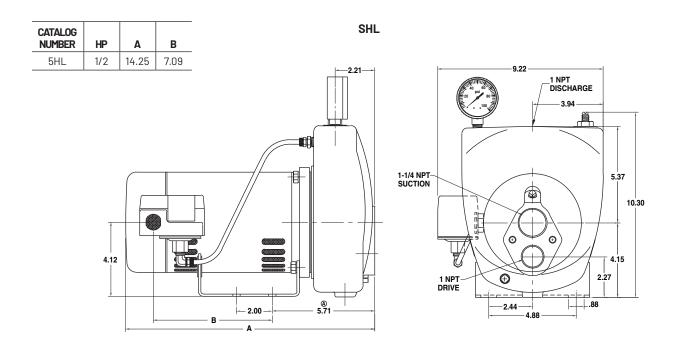
NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving flow of pump at relief pressure.

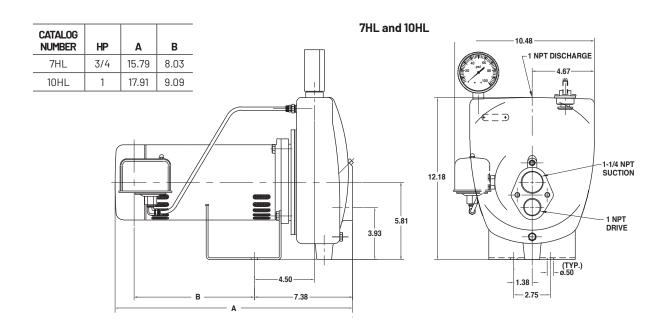
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122 CB5137WS

Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS





Dimensions (in inches) are for estimating purposes only.

NOTE: 1/4 NPT, 0-100 PSI pressure gauge supplied uninstalled to prevent shipping damage.

123 CB5137WS

Cast iron, self-priming convertible jet pumps

		OW WELL																	_								
AT.		DISCH.							10	FT 1		UMP	ING E				ER IN	FEE					_				_
10.	HP	PRESS. JET			FT. L	IF I			10	FT. L	IF I			15	FT. L	.IF I			20	FT. L	.IF I			25	FT. L	.IF I	
		PACKAGE	11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5	
		Venturi N32P	-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B	
		Nozzle J43P	-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45	
HL	1/2	20 PSI	20.6	14.4	10.1	6.6		19.0	13.2	9.3	6.1		16.5	11.5	8.1	5.3		13.3	9.5	6.9	4.5		9.8	6.9	5.3	3.4	
		30 PSI	19.6	14.3	9.9	6.5		18.1	13.1	9.1	6.0		15.7	11.4	7.9	5.2		13.3	9.5	6.7	4.4		9.8	6.9	5.1	3.4	
7HL 3		40 PSI	10.3	12.1	9.8	6.4		9.4	11.2	9.0	5.9		8.2	9.7	7.8	5.1		6.4	8.3	6.6	4.3		3.1	6.3	5.1	3.3	
		50 PSI		4.6	7.3	6.3			4.3	6.7	5.8			3.7	5.8	5.0			2.6	4.9	4.3			1.0	3.8	3.3	
		60 PSI			3.5	5.8				3.2	5.3				2.8	4.6				2.4	3.9					3.0	
		Shut-off-PSI	55	59	70	72		53	57	66	67		50	55	64	65		48	53	61	63		46	51	59	61	
7HI		JET Package	12SD	11SD	CKI	CK5	СК1	12SD	11SD	СКІ	CK5	СК1	12SD	11SD	CKI	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CI
		Venturi N32P	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-7
		Nozzle J34P	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-4
	3/4	20 PSI	24.2	20.3	14.5	12.6	8.6		19.4	13.9	12.1	8.3	20.2	16.9	12.1	10.5	7.2	17.7	13.6	10.3	8.2	6.1	12.5	10.4	7.9	6.2	4
		30 PSI		20.3	14.4	12.4			19.4		11.8	8.2	20.0	16.9	_	10.3	7.1	17.7	13.6	10.2	8.0	6.0	12.5	10.4	7.8	6.0	4
		40 PSI	16.7	16.4	13.7	12.2	8.3	16.0	15.8	13.1	11.7	7.9	13.9	13.7	11.4	10.2	6.9	16.0	11.5	9.7	7.8	5.9	10.3	8.3	7.4	5.8	4
7HL		50 PSI			12.6	12.0	8.2			12.1	11.5	7.8			10.5	10.0	6.8			8.9	7.7	5.8			6.8	5.7	4
		60 PSI			6.0	8.2	6.1			5.8	7.8	5.9			5.0	6.8	5.1			4.3	5.8	4.3			3.3	4.8	3
		70 PSI				4.2	2.9				4.0	2.8				3.5	2.4				2.8	2.0				2.0	1
		Shut-off-PSI	61	62	71	80	82	59	60	69	78	79	57	58	67	76	77	54	55	65	74	75	52	53	63	72	7
		JET PACKAGE	12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD			12SD	CK2	60SD		
		Venturi N32P	-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64		
		Nozzle J34P	-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45		
Н	1	20 PSI	26.8	21.6	18.4			24.6	19.9	16.9			21.4	17.3	14.7			18.2	14.7	12.5			13.9	11.2	9.6		
-	(30 PSI	26.5	21.5	18.1			24.4	19.8	16.7			21.2	17.2	14.5			18.0	14.6	12.3			13.8	11.2	9.4		
		40 PSI	22.9	21.3	17.5			21.0	19.6	16.1			18.3	17.0	14.0			15.6	14.5	11.9			11.9	11.1	9.1		
		50 PSI	15.1	16.8	17.3			13.9	15.4	15.9			12.1	13.4	13.8			10.3	11.4	11.7			7.9	8.7	9.0		Ĺ
		60 PSI		4.0	15.6				3.7	14.4				3.2	12.5				2.7	10.6				2.1	8.1		
OHL		70 PSI			4.1					3.8					3.3					2.8							([

57 67 73

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NOTE: Pumps are supplied with 30-50 pressure switch setting. Cut-in/Cut-out pressure settings are adjustable.

59 69 75

Shut-off-PSI 61 71 77

CB5137WS

55 65 71

Cast iron, self-priming convertible jet pumps

			CE (Capacity in o		nute)												
								PU	JMPIN	IG DE	PTHI	N FEE	ΞT				MP SHUT-OFF SSURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
		CK3	J32P-26	J34P-41	9.4	8.0	6.6									77	68
5HL	1/2	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
SHL	1/2	CK5	N32P-66B	J34P-45	7.3	6.2	5.0	4.0								83	69
		55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5				96	63
		CK1	N32P-72	J34P-43	13.2	10.8	8.4	6.3	4.2							74	56
7HL	3/4	CK2	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					105	80
		54SD	J32P-22	J34P-44	8.2	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
10HL	1	54SD	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

NOTE: Tank body on 10HL pump tapped 1-1/4" x 1". On 10HL pump, drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump.

			CE (Capacity in o		nute)												
								PU	MPIN	IG DE	PTHI	N FEE	т				MP SHUT-OFF SSURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5HL	1/2	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0						82	54
7HL	3/4	10AP	J32P-24	J34P-44	10.5	10.0	8.1	6.2								96	79
/ NL	3/4	54AP	J32P-22	J34P-44	6.0	5.3	4.8	4.2	4.1	3.7	3.5	2.8	2.1	1.6		95	53
10HL	1	9AP	J32P-29	J34P-44	11.7	11.1	9.8	6.8								69	57
IUHL	1	8AP	J32P-18	J34P-42	6.7	5.8	5.3	4.7	4.5	4.1	3.8	3.1	2.6	2.0	1.6	129	72
DE	EP WE	LL (40 PSI	3" SINGLE PI	PE													
- FIII	1/0	9CP	J32P-26	J34P-41	9.4	8.0	6.6									77	68
5HL	1/2	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
		18CP	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					106	80
7HL	3/4	54CP	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
		57CP	J32P-33	P122-108	18.0	15.4	12.8	10.8								81	68
10HL	1	54CP	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

Tank body on HLE pump tapped 1-1/4" x 1". Drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

125 CB5137WS

ProJet[™] SL/SLJ Series

Cast iron, self-priming convertible jet pumps





The ProJet SL convertible jet pumps offer a proven cast iron self-priming design available in 1/2 to 1-1/2 HP models. The ProJet SL convertible jets utilize the built-in regulators, offering easier priming and better range of performance from a complete line of shallow well, 4" double pipe, 2" and 3" single pipe jet packages.

APPLICATIONS

15SL/15SLJ*

Water systems and sprinkling... for homes, farms and cottages.

SPECIFICATIONS

Body and Seal Plate: Close-grained

cast iron

Diffuser: Reinforced polypropylene with

brass wear ring

stainless steel

Base: Steel, 12 gauge

Max. Liquid Temperature: 140°F

Max. Inlet Pressure: 50 PSI

Pressure Switch Pre-Set: 30-50 PSI Suction Ports: "Suction-over-Drive"

Impeller: High-strength Noryl®

Shaft: One-piece threaded 416

ORDERING INFORMATION PIPE TAPPIPNG SIZES MOTOR APPROX. CATALOG DRIVE DISCH. **NUMBER** HP DESCRIPTION SUCT. WT.LBS. VOLTAGE 5SL/5SLJ* 1/2 Deep Well Jet 1-1/4" 1" 115/230 40 1" 7SL/7SLJ* 3/4 Deep Well Jet 1-1/4" 1" 1" 115/230 42 10SL/10SLJ* 1 Deep Well Jet 1-1/4" 1" 1" 115/230 60

1-1/4"

FEATURES

Quality Construction: Close-grained cast iron pump body is rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Pressure Switch: High-quality, cut-in pressure setting is adjustable. Fixed 20 PSI differential.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: 416 stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: Dustproof canopy protects all electrical components from dirt, dust and insects; ventilating air cannot contaminate vital switching components... eliminates the most common cause of motor

1-1/2

Deep Well Jet

1"

115/230

65

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^{*} SLJ Models include ejector package.

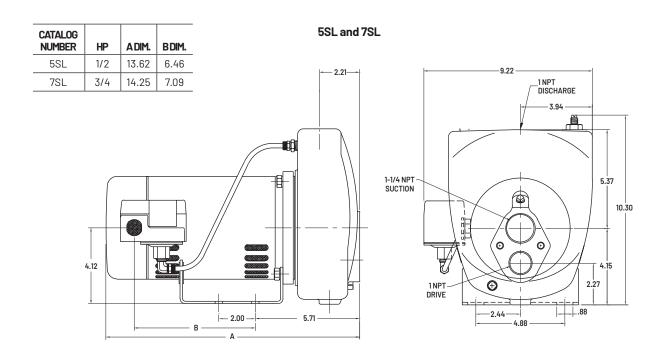
A Jet Package should be ordered with every SL Series Pump.

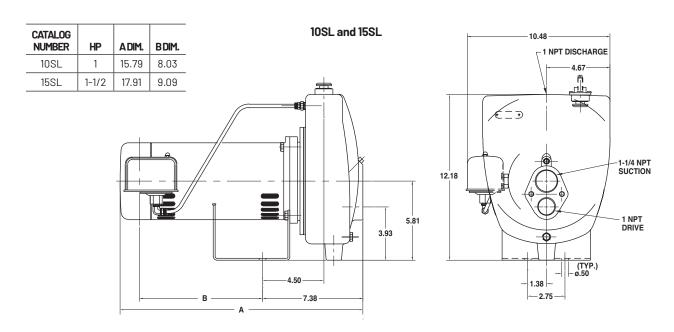
NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving flow of pump at relief pressure.

ProJet[™] SL/SLJ Series

Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS





Dimensions (in inches) are for estimating purposes only.

ProJet[™] SL/SLJ Series

Cast iron, self-priming convertible jet pumps

PUMP PERFORMANCE (Capacity in gallons per minute) SHALLOW WELL - 5', 10', 15', 20' AND 25' PUMPING DEPTHS

CAT.		DISCH.		<i>5</i> , 10									ING D	EPTI	1 TO \	NATE	RIN	FEET									
NO.	HP	PRESS.		5	FT. L	IFT			10	FT. L					FT. L					FT. L	JFT			25	FT. L	IFT	
		JET PACKAGE	10SD	29SD	СКЗ			10SD	29SD	СКЗ			10SD	29SD	CK3			10SD	29SD	CK3			10SD	29SD	CK3		
		Venturi N32P	-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B			-67B	-66B	-78B		
		Nozzle J34P	-44	-41	-41			-44	-41	-41			-44	-41	-41			-44	-41	-41			-44	-41	-41		
		20 PSI	12.0	9.1	5.9			9.7	8.4	5.4			12.0	7.3	4.7			9.7	6.2	4.0			6.7	4.7	3.1		
5SL	1/2	30 PSI	10.8	9.0	5.8			9.5	8.3	5.3			10.8	7.2	4.6			9.5	6.1	3.9			6.7	4.7	3.0		
		40 PSI	5.2	7.9	5.6			4.2	7.2	5.2			5.2	6.3	4.5			4.2	5.4	3.8			2.5	4.1	2.9		
		50 PSI		4.1	4.5				3.8	4.1				3.3	3.6				2.8	3.1				2.1	2.3		
		60 PSI			2.4					2.2					1.9					1.6							
		Shut-off-PSI	53	61	70			51	58	66			49	56	64			47	54	61			45	52	58		
		JET PACKAGE	11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5		11SD	10SD	29SD	CK5	
		Venturi N32P	-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B		-68B	-67B	-66B	-66B	$oxed{oxed}$
		Nozzle J34P	-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45		-44	-44	-41	-45	_
		20 PSI	20.6	14.4	10.1	6.6		19.0	13.2	9.3	6.1		16.5	11.5	8.1	5.3		13.3	9.5	6.9	4.5		9.8	6.9	5.3	3.4	$oxed{oxed}$
7SL	3/4	30 PSI	19.6	14.3	9.9	6.5		18.1	13.1	9.1	6.0		15.7	11.4	7.9	5.2		13.3	9.5	6.7	4.4		9.8	6.9	5.1	3.4	<u> </u>
		40 PSI	10.3	12.1	9.8	6.4		9.4	11.2	9.0	5.9		8.2	9.7	7.8	5.1		6.4	8.3	6.6	4.3		3.1	6.3	5.1	3.3	
		50 PSI		4.6	7.3	6.3			4.3	6.7	5.8			3.7	5.8	5.0			2.6	4.9	4.3			1.0	3.8	3.3	_
		60 PSI			3.5	5.8				3.2	5.3				2.8	4.6				2.4	3.9					3.0	_
		Shut-off-PSI	55	59	70	72		53	57	66	67		50	55	64	65		48	53	61	63		46	51	59	61	
		JET PACKAGE	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1
		Venturi N32P	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B		-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72
		Nozzle J34P	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43
		20 PSI	24.2	20.3	14.5	12.6	8.6	23.2	19.4	13.9	12.1	8.3	20.2	16.9	12.1	10.5	7.2	17.7	13.6	10.3	8.2	6.1	12.5	10.4	7.9	6.2	4.7
10SL	1	30 PSI		20.3	14.4	12.4	8.5	23.0	19.4	13.8	11.8	8.2	20.0	16.9	12.0	10.3	7.1	17.7	13.6	10.2	8.0	6.0	12.5	10.4	7.8	6.0	4.6
		40 PSI	16.7	16.4	13.7	12.2	8.3	16.0	15.8	13.1	11.7	7.9	13.9	13.7	11.4	10.2	6.9	11.8	11.5	9.7	7.8	5.9	10.3	8.3	7.4	5.8	4.5
		50 PSI			12.6	12.0	8.2			12.1	11.5	7.8			10.5 5.0	10.0	6.8 5.1			8.9 4.3	7.7 5.8	5.8 4.3			6.8 3.3	5.7 4.8	3.3
		60 PSI			6.0	8.2	6.1			5.8	7.8	5.9			0.0					4.0		2.0			٥.٥	2.0	
		70 PSI	01	60	71	4.2 80	2.9	E0.	60	60	78	2.8 79	F7	E0	67	3.5	2.4 77	E/c	EE	OE.	2.8	75	E0.	E.7	67	72	1.6
		Shut-off-PSI JET PACKAGE	61 12SD	62 CK2	60SD	00	02	59 12SD	60 CK2	69 60SD	70	78	57 12SD	58 CK2	67 60SD	76	11	54 12SD	55 CK2	65 60SD	74	75	52 12SD	53 CK2	63 60SD	12	73
		Venturi N32P	-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64			-65	-64	-64		\vdash
		Nozzle J34P	-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45			-44	-44	-45		
		20 PSI	26.8	21.6	18.4			24.6	19.9	16.9			21.4	17.3	14.7			18.2	14.7	12.5			13.9	11.2	9.6		
		30 PSI	26.5	21.5	18.1			24.4	19.8	16.7			21.2	17.2	14.5			18.0	14.6	12.3			13.8	11.2	9.4		
15SL	1-1/2	40 PSI	22.9	21.3	17.5			21.0	19.6	16.1			18.3	17.0	14.0			15.6	14.5	11.9			11.9	11.1	9.1		
		50 PSI	15.1	16.8	17.3			13.9	15.4	15.9			12.1	13.4	13.8			10.3	11.4	11.7			7.9	8.7	9.0		
		60 PSI		4.0	15.6				3.7	14.4				3.2	12.5				2.7	10.6				2.1	8.1		
		70 PSI			4.1					3.8					3.3					2.8							
		Shut-off-PSI	61	71	77			59	69	75			57	67	73			55	65	71			53	63	68		

PUMP PERFORMANO	CE-SLJ MODELS*				
Catalog	Ejector Package	Shallo	ow Well	Deep	Well
Number	(Included)	Nozzle	Venturi	Nozzle	Venturi
5SLJ	J198-26	J34P-41	N32P-66B	J34P-42	J32P-18
7SLJ	J198-27	J34P-41	N32P-66B	J34P-43	J32P-18
10SLJ	J198-28	J34P-43	N32P-72E	J34P-44	J32P-22
15SLJ	J198-29	J34P-44	N32P-64	J34P-44	J32P-22

 $Pumps\ are\ supplied\ with\ 30-50\ pressure\ switch\ setting.\ Cut-in\ pressure\ settings\ are\ adjustable.$

Cast iron, self-priming convertible jet pumps

PU DE	MP PE EP WE	RFORMAN ELL (40 PSI	CE(Capacity in o	gallons per mii P IPE	nute)												
								PUN	1PING	DEPT	HINF	EET					MP SHUT-OFF SSURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
EOL	1/2	4SD	J32P-24	J34P-41	5.9	4.5	3.4	2.3								68	54
5SL	1/2	15SD	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7						84	59
		CK3	J32P-26	J34P-41	9.4	8.0	6.6									77	68
7SL	3/4	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
/SL	3/4	CK5	N32P-66B	J34P-45	7.3	6.2	5.0	4.0								83	69
		55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5				96	63
		CK1	N32P-72	J34P-43	13.2	10.8	8.4	6.3	4.2							74	56
10SL	1	CK2	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					105	80
		54SD	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
15SL	1-1/2	54SD	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.5	4.8	4.2	3.6	2.9	127	76

 $Tank\ body\ on\ SLF\ pump\ tapped\ 1-1/4"\ x\ 1".\ On\ SLF\ pump,\ drop\ pipe\ should\ be\ increased\ to\ 1-1/2"\ x\ 1-1/4"\ to\ ensure\ adequate\ capacity\ from\ pump.$

PU DE	MP PE EP WE	RFORMAN ELL (40 PSI	CE(Capacity in (gallons per mir I PE	nute)												
								PUM	1PING	DEPT	HINF	EET					MP SHUT-OFF SSURE PSI
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5SL	1/2	8AP	J32P-18	J34P-42	4.7	4.1	3.4	2.5	1.9	1.5						84	58
7SL	3/4	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0						82	54
10SL	1	10AP	J32P-24	J34P-44	10.5	10.0	8.1	6.2								96	79
IUSL		54AP	J32P-22	J34P-44	6.0	5.3	4.8	4.2	4.1	3.7	3.5	2.8	2.1	1.6		95	53
15SL	1-1/2	9AP	J32P-29	J34P-44	11.7	11.1	9.8	6.8								69	57
100L	1-1/2	8AP	J32P-18	J34P-42	6.7	5.8	5.3	4.7	4.5	4.1	3.8	3.1	2.6	2.0	1.6	129	72
DEE	P WEL	_L (40 PSI)	3" SINGLE PIF	E													
		19CP	J32P-24	J34P-41	5.9	4.5	3.4	2.3								68	54
5SL	1/2	16CP	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7						84	59
		9CP	J32P-26	J34P-41	9.4	8.0	6.6									77	68
7SL	3/4	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2						94	70
		18CP	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4					106	80
10SL	1	54CP	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7	122	73
		57CP	J32P-33	P122-10B	18.0	15.4	12.8	10.8								81	68
15SL	1-1/2	54CP	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9	127	76

Tank body on SLF pump tapped 1-1/4" x 1". Drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump. Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

FL/FLJ Series

Cast iron, self-priming convertible jet pumps





FL Series Pumps feature a proven selfpriming "convertible" design. The same convertible jet can be attached to pump for use on shallow well installation, or be utilized in 4" or larger wells for use as a double pipe deep well jet.

FL Series Pumps provide high capacities up to 11 GPM...depths to 90 feet. They are rated for 30–50 PSI operation.

APPLICATIONS

Water systems and sprinkling... for homes, farms and cottages

SPECIFICATIONS

Body and Base: Close-grained cast iron

Impeller: Lexan°

Diffuser: Reinforced polypropylene

Shaft: One-piece threaded 416

stainiess stee

Pressure Switch Pre-Set: 30-50 PSI Suction Ports: Drive-over-Suction

ORDERI	NG INI	FORMATION					
CATALOG			PIPE	ETAPPIPNGSI	ZES	MOTOR	APPROX.
NUMBER	HP	DESCRIPTION	SUCT.	DRIVE	DISCH.	VOLTAGE	WT.LBS.
5FL/5FLJ*	1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	44
7FL/7FLJ*	3/4	Deep Well Jet	1-1/4"	1"	1"	115/230	45

FEATURES

Quality Construction: Close-grained cast iron pump body and base are rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Pressure Regulator: Simple, built-in regulator is performance proven. Adjustable for best performance on all deep well installations.

Lexan Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assures prolonged motor

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Dustproof Cover: Dustproof canopy protects all electrical components from dirt, dust and insects; ventilating air cannot contaminate vital switching components... eliminates the most common cause of motor failure.

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^{*}FLJ Models include ejector package.

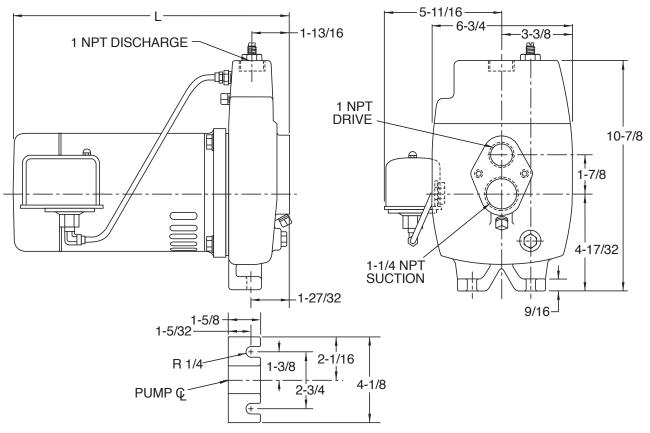
A Jet Package should be ordered with every FL Series Pump.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving flow of pump at relief pressure.

FL/FLJ Series

Cast iron, self-priming convertible jet pumps

OUTLINE DIMENSIONS



MOUNTING BRACKET DETAIL

CATALOG NUMBER	L
5FL	11-13/16
7FL	12-9/16

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMAN	CE-FLJ MODELS*				
Catalog	Ejector Package	Shallo	w Well	Deep	Well
Number	(Included)	Nozzle	Venturi	Nozzle	Venturi
5FLJ	J198-26	J34P-41	N32P-66B	J34P-42	J32P-18
7FLJ	J198-27	J34P-41	N32P-66B	J34P-43	J32P-18

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FL/FLJ Series

Cast iron, self-priming convertible jet pumps

PUMP PERFORMANCE (Capacity in gallons per minute) SHALLOW WELL - 5', 10', 15', 20' AND 25' PUMPING DEPTHS

CAT.		DISCHARGE						PUM	PING DE	PTH TO	WATER	IN FEET					
NO.	HP	PRESSURE	į	5 FT. LIF	т	1	0 FT. LII	FT	1	5 FT. LII	FT	2	20 FT. LI	FT		25 FT. LIF	-T
		JET PACKAGE	10SD	29SD		10SD	29SD		10SD	29SD		10SD	29SD		10SD	29SD	
		Venturi N32P	-67B	-66B		-67B	-66B		-67B	-66B		-67B	-66B		-67B	-66B	
		Nozzle J34P	-44	-41		-44	-41		-44	-41		-44	-41		-44	-41	
		20 PSI	12.0	9.1		9.7	8.4		12.0	7.3		9.7	6.2		6.7	4.7	
5FL	1/2	30 PSI	10.8	9.0		9.5	8.3		10.8	7.2		9.5	6.1		6.7	4.7	
		40 PSI	5.2	7.9		4.2	7.2		5.2	6.3		4.2	5.4		2.5	4.1	
		50 PSI		4.1			3.8			3.3			2.8			2.1	
		60 PSI															
		Shut-off-PSI	53	61		51	58		49	56		47	54		45	52	
		JET PACKAGE	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD	11SD	10SD	29SD
		Venturi N32P	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B	-68B	-67B	-66B
		Nozzle J43P	-44	-44	-41	-44	-44	-41	-44	-44	-41	-44	-44	-41	-44	-44	-41
		20 PSI	20.6	14.4	10.1	19.0	13.2	9.3	16.5	11.5	8.1	13.3	9.5	6.9	9.8	6.9	5.3
7FL	3/4	30 PSI	19.6	14.3	9.9	18.1	13.1	9.1	15.7	11.4	7.9	13.3	9.5	6.7	9.8	6.9	5.1
		40 PSI	10.3	12.1	9.8	9.4	11.2	9.0	8.2	9.7	7.8	6.4	8.3	6.6	3.1	6.3	5.1
		50 PSI		4.6	7.3		4.3	6.7		3.7	5.8		2.6	4.9		1.0	3.8
		60 PSI			3.5			3.2			2.8			2.4			
		Shut-off-PSI	55	59	70	53	57	66	50	55	64	48	53	61	46	51	59

NOTE: Pumps are supplied with 30-50 pressure switch setting. Cut-in pressure settings are adjustable.

PUMP PERFORMANCE (Capacity in gallons per minute)

			"DOUBLE PIPE											
							PUMP	ING DE	PTH IN	IFEET			MAX. PUMP PRESSU	
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	JET AT 20 FT. DEPTH	JET AT MAX. DEPTH
5FL	1/2	4SD	J32P-24	J34P-41	5.9	4.5	3.4	2.3					68	54
SFL	1/ 2	15SD	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7			84	59
7FL	3/4	54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2			94	70
/FL	3/4	55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5	96	63
DEE	P WEL	L(40 PSI) 2	"SINGLE PIPE											
5FL	1/2	8AP	J32P-18	J34P-42	4.7	4.1	3.4	2.5	1.9	1.5			84	58
													ĺ	

7FL	3/4	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0		82	54
DEE	P WEI	_L (40 PSI) 3	"SINGLE PIPE										
5FL	1/2	19CP	J32P-24	J34P-41	5.9	4.5	3.4	2.3				68	54
SFL	1/2	16CP	J32P-18	J34P-42	4.6	3.9	3.3	2.8	2.3	1.7		84	59
7FL	3/4	9CP	J32P-26	J34P-41	9.4	8.0	6.6					77	68
/FL	3/4	54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2		94	70

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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PL Series

Corrosion-resistant, convertible deep well jet pumps





Durability and corrosion resistance are built into every PL Series Pump, due to the rugged fiberglass reinforced thermoplastic pump construction. The engineered composite components are lightweight yet extremely resistant to sand and abrasive wear. The non-corrosive design and exceptional strength assure years of trouble-free operation.

APPLICATIONS

Water systems and sprinkling...

for homes, farms and cottages.

SPECIFICATIONS

Pump Body and Seal Plate: Dura-Glas®

Impeller: Noryl
Nozzle: Noryl
Venturi: Noryl
O-Ring: Buna-N
Clamp: Stainless steel
Shaft: Stainless steel

Diffuser: Reinforced polypropylene with

brass wear ring

Shallow Well Jet: Sold separately
Pressure Switch Pre-Set: 30-50 PSI
Suction Ports: Suction-over-Drive

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FEATURES

Superior Rustproof Construction: Pump body is Dura-Glas fiberglass reinforced thermoplastic—lightweight, rustproof and exceptionally strong. All components in contact with water are resistant to the corrosive and abrasive forces found in the most aggressive water conditions.

Precision Diffuser: Multi-port, reinforced polypropylene design primes faster and handles more air.

Precision-Molded Impeller: Precision-molded Noryl gives perfect balance and ultra-smoothness for highest performance and efficiency.

Pressure Regulator and Gauge:

Performance-proven, simple, built-in pressure regulator is adjustable for best performance on all deep well installations. Pressure gauge included.

Shaft Seal: Stainless steel heat sink provides maximum cooling of the mechanical shaft seal.

Heavy-Duty Motor: Dustproof canopy completely encloses electrical components and provides dust, dirt and insect protection. Ventilating air cannot contaminate vital switching components. Permanently lubricated, heavy-duty ball bearings ensure smooth, quiet operation and extended motor life.

Easy Serviceability: PL pumps are disassembled by removing the stainless steel clamp. Piping does not have to be disturbed. Seal replacement takes only a few minutes. "Control room" motor design makes all components easily accessible.

ORDER	ING INI	FORMATION					
CATALOG			PIPE	ETAPPIPNGSI	MOTOR	APPROX.	
NUMBER	HP	DESCRIPTION	SUCT.	DRIVE	DISCH.	VOLTAGE	WT.LBS.
5PL	1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	27
7PL	3/4	Deep Well Jet	1-1/4"	1"	1"	115/230	28
10PL	1	Deep Well Jet	1-1/4"	1"	1"	115/230	30
15PL	1-1/2	Deep Well Jet	1-1/4"	1"	1"	115/230	36

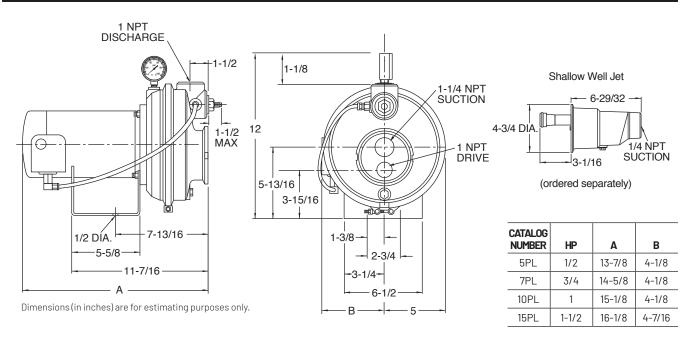
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CB5634WS

PL Series

Corrosion-resistant, convertible deep well jet pumps

OUTLINE DIMENSIONS



PUMP PERFORMANCE (C	apacity in gallons per	minute)
SHALLOW WELL		

				DYNAMIC		DISCHA	RGE PRESS	URE PSI		
CATALOG NUMBER	НР	S.W. JET NUMBER	PRESS. SWITCH SETTING	SUCTION LIFT FT.	20'	30'	40'	50'	60'	SHUT-OFF PRESSURE PSI
				5'	9.5	9.2	9.0	5.8	3.0	72
				10'	8.2	8.0	7.8	5.2	2.3	70
5PL	1/2	PKG 1 - 21N	30-50	15'	7.2	6.8	6.8	4.5	1.8	68
				20'	5.7	5.7	5.7	3.8		66
				25'	4.3	4.3	4.3	3.2		62
				5'	16.2	15.8	15.3	8.7	1.3	62
				10'	14.2	14.0	13.8	7.2		60
7PL	3/4	PKG 1- 22N	30-50	15'	12.2	12.0	11.8	5.3		58
				20'	9.7	9.7	9.2	3.7		55
				25'	7.2	6.8	6.8			52
				5'	21.3	21.0	20.7	13.2	4.2	62
				10'	18.8	18.7	18.3	11.1	1.7	60
10PL	1	PKG 1- 23N	30-50	15'	16.0	15.8	15.7	8.9		58
				20'	12.8	12.7	12.3	5.7		55
				25'	8.5	8.5	8.5			52
				5'	26.3	26.2	26.2	21.3	7.7	64
				10'	23.7	23.3	23.2	19.2	3.5	62
15PL	1-1/2	PKG 1- 24N	30-50	15'	20.3	20.2	20.0	16.3		60
				20'	16.2	16.0	15.8	11.2		57
				25'	11.5	11.3	11.3			54

 $\label{thm:conditional} \textbf{Tested} \ \textbf{and} \ \textbf{rated} \ \textbf{in} \ \textbf{accordance} \ \textbf{with} \ \textbf{Water} \ \textbf{Systems} \ \textbf{Council} \ \textbf{Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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PL Series

Corrosion-resistant, convertible deep well jet pumps

	PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 4" DOUBLE PIPE											
CAT.	НР	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'
EDI	1/0	4SD	J32P-24	J34P-41	4.5	3.5	2.3	1.3				
5PL	1/2	10SD	N32P-67B	J34P-44	9.5	7.0	4.5	2.0				
7PL	3/4	4SD	J32P-24	J34P-41	6.5	5.1	4.0	3.0	1.8	0.8		
10PL	1	4SD	J32P-24	J34P-41	8.4	7.3	6.2	5.0	4.1	2.9	2.0	1.1
15PL	1-1/2	11SD	N32P-68B	J34P-44	11.5	9.4	8.0	6.5	5.3	3.8	2.5	1.1

			Capacity in gallons	s per minute)											
CAT.								Р	UMPING	DEPTI	IN FE	ET			
NO.	HP	JET NO.	USES VENTURI	USES NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'
		13AP	J32P-26	J34P-44	5.8	3.8	1.0								
5PL	1/2	10AP	J32P-24	J34P-44	4.3	3.0	1.6								
		8AP	J32P-18	J34P-42	3.8	3.3	2.6	2.0	1.5						
		14AP	J32P-32	J34P-45	9.2	6.7	4.3								
7PL	3/4	10AP	J32P-24	J34P-44	6.2	4.8	3.7	2.3	1.2						
		8AP	J32P-18	J34P-42	4.1	3.7	3.1	2.6	2.1	1.6	1.2	0.8			
		15AP	J32P-33	J34P-41	12.3	9.2	5.7								
10PL	1	9AP	J32P-29	J34P-44	10.6	7.4	4.7	2.2							
		8AP	J32P-18	J34P-42	5.0	4.7	4.2	3.8	3.3	2.7	2.3	1.8	1.3		
		16AP	J32P-38	J34P-45	15.3	11.8	8.5	5.2							
15PL	1-1/2	9AP	J32P-29	J34P-44	-	12.3	9.3	6.4	4.0						
		8AP	J32P-18	J34P-42	-	5.7	5.0	4.6	4.2	3.7	3.3	2.8	2.4	1.8	1.3
DEE	P WEL	_L (40 PSI) 3	S" SINGLE PIPE												
		25CP	J32P-26	J34P-44	5.8	4.0	2.1								
5PL	1/2	19CP	J32P-24	J34P-41	-	4.5	3.5	2.3	1.3						
701	7.,	11CP	J32P-32	J34P-45	9.5	7.0	4.5	2.0							
7PL	3/4	19CP	J32P-24	J34P-41	-	6.5	5.1	4.0	3.0	1.8	0.8				
		26CP	J32P-33	J34P-41	13.0	9.8	6.0								
10PL	1	17CP	J32P-29	J34P-44	-	11.5	8.0	5.2	2.6						
		19CP	J32P-24	J34P-41	-	8.4	7.3	6.2	5.0	4.1	2.9	2.0	1.1		
15PL	1-1/2	10CP	J32P-38	J34P-45	16.6	13.3	9.5	6.0							
IDPL	1-1/2	15CP	J32P-22	J34P-43	-	8.6	7.9	6.9	6.2	5.4	4.4	3.2	2.2	1.5	0.9

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

135 CB5634WS

Cast iron, horizontal multi-stage



C US

LT2 Series Multi-Stage Jet Pumps are the highest performing pumps available in its category. The LT2

Series Convertible Jets utilize the built-in regulator, offering easier priming and better range of performance from a complete line of Shallow Well, 4" Double Pipe, 2" and 3" Single Pipe Jet Packages. Pump may also be operated as a self-priming centrifugal (to 25 ft.) to provide a wide range of high pressure applications.

APPLICATIONS

Water systems and sprinkling... for homes, farms and cottages.

SPECIFICATIONS

Body: One-piece rugged cast iron

Pump and Motor Shaft:

416 stainless steel

Impeller: Polycarbonate

Diffuser: Corrosion-resistant cast iron

Pressure Switch Pre-Set: 30-50 PSI

Suction Ports: Drive-over-Suction

ORDERII	ORDERING INFORMATION											
CATALOG	НР	DESCRIPTION	PIPE .	TAPPING	SIZES	STAGES	MOTOR	APPROX.				
NUMBER	1111	DESCRIPTION	SUCT.	DRIVE	DISCH.	STAGES	VOLTAGE	WT. LBS.				
7LT2	3/4	Deep Well Jet	1-1/4"	1"	1"	2	115/230	50				
10LT2	1	Deep Well Jet	1-1/4"	1"	1"	2	115/230	80				
15LT2	1-1/2	Deep Well Jet	1-1/4"	1"	1"	2	115/230	85				

AUTOM/	AUTOMATIC PRESSURE REGULATOR – DEEP WELL										
CATALOG NUMBER	DESCRIPTION	APPLICATION	APPROX. WT. LBS.								
PKG 107	Regulator, tubing, pipe plug and compression fitting	Required for ALL deep well installations	4								

FEATURES

Automatic Pressure Regulator: Fasteracting and quieter, design eliminates "hunting" for correct drive pressure. New improved stem and guide are precisely molded to assure efficient, trouble-free performance on all deep wells. See ordering information (deep well only).

Quality Construction: Close-grained cast iron pump body is rugged, one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Precision-Machined Diffusers:

Assure faster priming.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Polycarbonate Impellers: Precision-molded for perfect balance, and ultra-smooth for highest performance and efficiency.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.

Dustproof Cover: All electrical components are protected from dirt,

dust and insects by a dustproof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

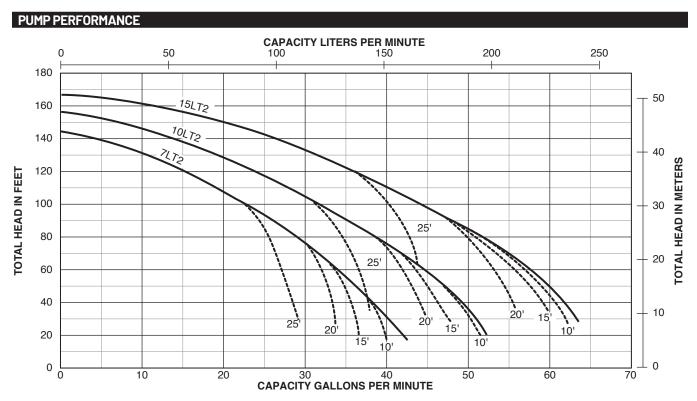
Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings are extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Order pump and pressure regulator, if required, from ordering information tables above.

A Jet Package and the Automatic Pressure Regulator, described above, are required on all deep well installations.

Cast iron, horizontal multi-stage



NOTE: Dotted lines indicate performance reduction at high suction lift.

PUMP PERF	ORMANCE (Cap AL APPLICATI	acity in gallons p	er minute)					
CATALOG	lib.	TOTAL		DISCI	HARGE PRESSUF	RE PSI		SHUT-OFF
NUMBER	HP	SUCTION LIFT FT.	20'	30'	40'	50'	60'	PRESSURE PSI
		5	37	30	24	15		60
		10	35	29	21	13		60
7LT2	3/4	15	33	27	19	9		60
		20	32	26	17	6		60
		25	31	24	15			60
		5	47	40	33	24	10	65
		10	46	38	31	21	7	65
10LT2	1	15	44	36	28	18		65
		20	42	35	26	15		65
		25	41	33	24	12		65
		5	60	53	46	36	23	68
		10	58	52	43	33	21	68
15LT2	1-1/2	15	56	49	41	30	16	68
		20	55	47	39	27	12	68
		25	54	41	36	25		68

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. PKG 107 Regulator, tubing, pipe plug and compression fitting is required for all DEEP WELL installations.

Cast iron, horizontal multi-stage

UMP PERFO	DRMAN	CE: SHALLOW	WELL							
CATALOG	НР	JET*	USES	USES	DISCH.		TOTA	L SUCTION LI	FT FT.	
NUMBER	HP	NUMBER	VENTURI	NOZZLE	PRESS. PSI	5'	10'	15'	20'	25'
					20	9.6	8.2	7.0	5.8	3.9
					30	9.1	7.9	6.5	5.6	3.9
					40	8.8	7.7	6.3	5.6	3.9
7LT2	3/4	PKG 1 - 29SD	N32P-66B	J34P-41	50	8.5	7.6	6.2	5.6	3.9
/LIZ	3/4	FNG 1- 295D	NOZE-00B	0345-41	60	7.7	7.3	6.2	5.6	3.9
					70	5.5	5.1	4.7	4.2	3.6
					80	3.5	3.1	2.8	2.3	1.9
					Shut-off	102	96	96	96	90
					20	13.0	11.2	9.8	7.8	5.8
					30	12.5	11.0	9.5	7.6	5.7
					40	12.2	10.9	9.4	7.6	5.7
10LT2	1	PKG 1 - 10SD	N32P-67B	J34P-44	50	12.1	10.8	9.2	7.6	5.7
IULIZ	'	PKG 1 - 105D	N32P-0/B	J34P-44	60	12.0	10.8	9.2	7.6	5.7
					70	10.2	9.6	8.6	7.4	5.7
					80	7.4	6.8	6.2	5.5	4.8
					Shut-off	108	108	108	102	102
					20	15.9	13.3	12.2	9.6	7.0
					30	15.6	13.2	12.2	9.5	7.0
					40	15.3	13.1	12.1	9.4	6.9
					50	14.9	13.0	11.9	9.3	6.8
					60	14.4	12.9	11.7	9.2	6.7
15LT2	1-1/2	PKG 1 - 10SD	N32P-67B	J34P-44	70	13.7	12.7	11.5	9.0	6.6
					80	12.6	12.1	10.8	8.7	6.4
					90	9.5	8.5	7.8	7.2	5.7
					100	5.9	5.0	4.4	3.8	3.2
					Shut-off	120	120	114	114	108

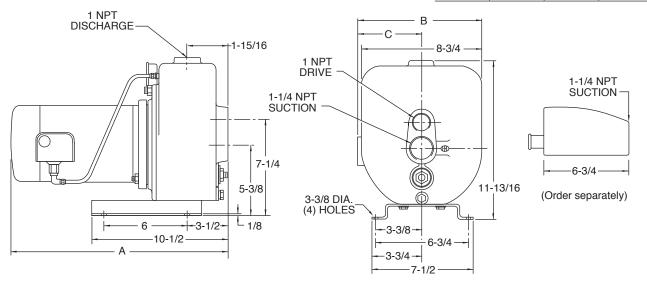
^{*} Order Jet Package separately.

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source[®] tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

OUTLINE DIMENSIONS

Cat. No.	Α	В	С
7LT2	16-7/8	9-1/2	5-1/8
10LT2	17-3/4	9-1/2	5-1/8
15LT2	18-1/4	10	5-5/8



Dimensions (in inches) are for estimating purposes only.

Cast iron, horizontal multi-stage

			E(Capacity i		er min	ute)													
			USES	USES						PU	MPING	DEPT	H IN FE	ET					
CAT. NO.	HP	JET NO.	VENTURI	NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
		13AP	J32P-26	J34P-44	12.0	10.8	9.6	8.1	6.9	5.5									
7LT2	3/4	22AP	J32P-22	J34P-43					7.9	6.7	5.5	4.7	3.9	3.0					
		8AP	J32P-18	J34P-42									4.0	3.6	3.1	2.7	2.2		
		5AP	J32P-29	J34P-41	16.3	15.6	14.1	12.0	9.9	8.2	6.0								
10LT2	1	4AP	J32P-24	J34P-41					8.9	7.9	7.0	5.8	4.7	3.6	2.5				
		19AP	J32P-20	J34P-43											4.0	3.2	2.3	1.8	1.3
		15AP	J32P-33	J34P-41	20.0	18.5	17.0	13.6	10.4	7.6	5.0								
15LT2	1-1/2	9CP	J32P-26	J34P-41					10.6	9.2	8.0	6.0	4.5	3.7	3.0	2.2			
		23AP	J32P-20	J34P-44											4.3	3.5	2.7	2.4	2.0
DEEP W	VELL 3	S"SINGL	E PIPE: 40	PSI															
		17CP	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
7LT2	3/4	18CP	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
		16CP	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
10LT2	1	7CP	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
IULIZ	'	9CP	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		10CP	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
15LT2	1-1/2	9CP	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
		19CP	Factory Installed	J34P-41											6.9	6.1	5.3	4.6	4.1
DEEP W	VELL 4	+" DOUB	LE PIPE: 4	0 PSI															
		CK2	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
7LT2	3/4	CK2	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
7212	074	15SD	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
		СКЗ	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
10LT2	1	CK3	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		CK1	J32P-20	J34P-43											5.0	4.5	3.9	3.5	3.0
		CK4	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
15LT2	1-1/2	CK3	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
		4SD	FACTORY Installed												6.9	6.1	5.3	4.6	4.1

 ${\it Tested} \ {\it and} \ {\it rated} \ {\it in} \ {\it accordance} \ {\it with} \ {\it Water} \ {\it Systems} \ {\it Council} \ {\it Standards}.$

NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

AUTOMATIC PRESSURE REGULATOR - DEEP WELL										
CATALOG NUMBER	DESCRIPTION	APPLICATION	APPROX. WT. LBS.							
PKG 107	Regulator, tubing, pipe plug and compression fitting	Required for ALL deep well installations	4							

MS Series

Cast Iron



The MS Series Vertical Jet Pumps are the industry standard deep well jet pumps for over-the-well "bolt-on" installations.

The MS Series Jet Pumps include the pre-plumbed external automatic regulator, pressure gauge, pressure switch, and a complete line of casing adapters to drive the 4" double pipe or 2" and 3" single pipe jet packages.

APPLICATIONS

Water systems and sprinkling... for homes, farms and cottages.

SPECIFICATIONS

Body: Rugged cast iron **Pump and Motor Shaft:**416 stainless steel

Impellers: Noryl®

Diffuser: Close-grained cast iron

ORDERII	ORDERING INFORMATION														
CATALOG			MAX. PRESS.	PIPE 1	APPING	SIZES	MOTOR	APPROX.							
NUMBER	HP	DESCRIPTION	REG. SETTING	SUCT.	DRIVE	DISCH.	VOLTAGE	WT. LBS.							
10MS	1	Deep Well Jet	60 PSI	1-1/4"	1-1/4"	1"	115/230	73							
15MS	1-1/2	Deep Well Jet	85 PSI	1-1/4"	1-1/4"	1"	230	120							
20MS	2	Deep Well Jet	95 PSI	1-1/4"	1-1/4"	1"	230	125							

ADAPTE	RFLANGE	
CATALOG NUMBER	DESCRIPTION	USED WITH
J216-26	1-1/4" x 1"	Offset single pipe, 4" double pipe through 3/4 HP
J216-27	1-1/4" x 1-1/4"	4" double pipe 1, 1-1/2 and 2 HP

FEATURES

Automatic Pressure Regulator: Fasteracting and quieter, design eliminates "hunting" for correct drive pressure. New, improved stem and guide are precisely molded to assure efficient, trouble-free performance on all deep wells.

Quality Construction: Precision-machined, close-grained cast iron pump body and base are specially treated to resist corrosion.

Noryl Impellers: Precision-molded for perfect balance, and ultra-smooth for highest performance and efficiency.

Pressure Switch: High quality. Differential and cut-in/cut-out pressure settings are adjustable.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.

Mechanical Shaft Seal: Precision-lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Dustproof Cover: All electrical components

are protected from dirt,

dust and insects by a dustproof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.

Balanced Rotor: Rotor is diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Permanently lubricated sealed bearings are extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

Order pump from ordering information table above. A Jet Package should be ordered with every MS Series Pump. All installations require an appropriate size adapter flange or casing adapter if bolt-on feature is desired.

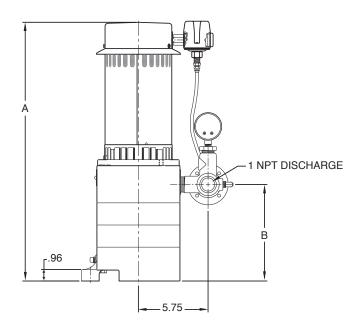
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MS Series

Cast Iron

OUTLINE DIMENSION



Cat. No.	Α	В
10MS	18-3/8	5-5/8
15MS	20-7/16	7-1/2
20MS	20-15/16	7-1/2

Dimensions (in inches) are for estimating purposes only.

	PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 4" DOUBLE PIPE																									
						PUMPING DEPTH IN FEET														MAX. PUMP SHUT-OFF PRESS. PSI						
CAT.	HP	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	280'	300'	320'	JET AT MIN. DEPTH	JET AT MAX. DEPTH
10MS	1	23SD	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
10110		15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
15MS	1-1/2	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
10110	1-1/2	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7		314	172
20MS	2	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0							195	110
ZUMS		15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.5	4.3	4.0	3.3	2.7	314	172

 $\label{thm:conditional} \textbf{Tested and rated in accordance with Water Systems Council Standards.}$

NOTE: Pumps installed with a Pro-Source * tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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MS Series

Cast Iron

	PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 2" SINGLE PIPE																						
						PUMPING DEPTH IN FEET															MAX. SHUT-OF P:	F PRESS.	
CAT.	HP	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	JET AT MIN. DEPTH	JET AT MAX. DEPTH
10MS	1	12AP	J32P-24	J34P-42	12.1	11.3	11.2	10.0	8.8	7.6	6.5	5.6	3.3	1.8								118	80
10110	'	8AP	J32P-18	J34P-42	5.5	5.5	5.3	5.3	5.2	5.1	5.0	5.0	5.0	5.0	4.5	4.2	2.0					198	126
1EM0	1 1/0	12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.5	11.2	9.7	8.3	6.8	5.5	4.2	3.3						162	110
15MS	1-1/2	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.1	5.0	5.0	5.0	4.8	4.3	3.5	2.7	1.7		266	158
00M0	0	12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.7	11.2	11.0	10.3	8.3	7.5	6.3	5.3						193	139
20MS 2	2	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.1	5.0	4.8	4.7	4.3	3.7	3.2	2.5	312	192

	PUMP PERFORMANCE (Capacity in gallons per minute) DEEP WELL (40 PSI) 3" SINGLE PIPE																									
						PUMPING DEPTH IN FEET														SHUT-OF	PUMP F PRESS. PSI					
CAT.	НР	JET NO.	USES VENTURI	USES NOZZLE	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240	260'	280'	300'	320'	JET AT MIN. DEPTH	JET AT MAX. DEPTH
10MS	1	23CP	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
10110		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
		23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
15MS	1-1/2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	4.3	4.0	3.2	2.2					210	110
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.7	4.0	3.8	3.0	2.3	1.7		268	132
		23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0							195	110
20MS	2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	5.3	5.0	4.7	4.0	3.0	2.2			250	128
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7	314	172

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a Pro-Source * tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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Intelliboost® R Series

Multi-stage variable frequency drive booster pump



The Intelliboost° is the only TRUE variable speed booster with an LCD screen that gives you an easy to use, all-in-one solution for not only boosting, but also delivering a constant pressure throughout the system. This dependable unit quickly enhances your customer's system with smart controls that adjusts to their water usage.

APPLICATIONS

• Residential Boosting

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- Water Transfer
- Turf Irrigation

SPECIFICATIONS

Pump Case: Stainless Steel

Diffuser: Reinforced Polypropylene **Impeller:** Reinforced Polypropylene

Mechanical Shaft Seal: Carbon, Ceramic,

Stainless Steel

Mounting Base: Steel

FEATURES

TRUE Variable Speed: The Intelliboost features a variable speed control that adjusts itself as demand changes to hold water pressure (up to 60psi) at the desired level.

All-In-One Unit: Includes pump, variable speed drive and tank all in one unit for quick and easy install.

Simple Startup: Unit is preset to boost 60psi, allowing you to plumb it, wire it, power up and go!

Built-in Check Valve: Includes a check valve after the discharge to further protect your system.

LCD Screen: No blinking lights! The Intelliboost has an easy-to-read LCD screen that tells you the status of your unit in plain text.

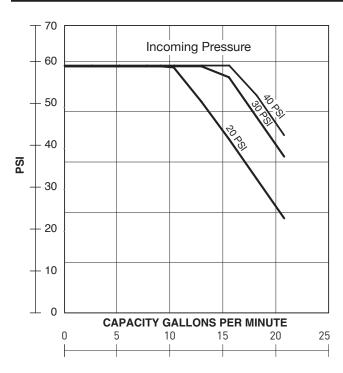
ORDERING IN	ORDERING INFORMATION														
Catalan	Catalog Pipe Tapping Size														
Catalog Number	HP	Input Voltage	Phase	Suction	Discharge	Approx. Wt. Lbs.									
MIB0715B	3/4	230	1	1"	1″	30									

CB12016WS

Intelliboost® R Series

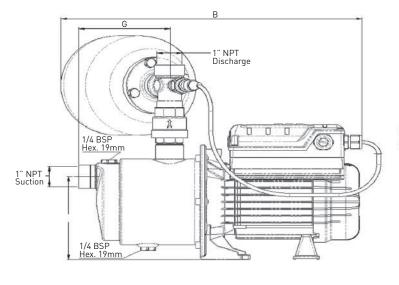
Multi-stage variable frequency drive booster pump

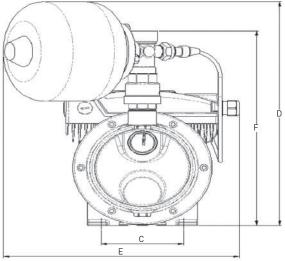
PUMP PERFORMANCE



	Booste	r Set At:											
Incoming Household Pressure	50 PSI	60 PSI											
	Boosted Household Pressure												
00 001	50 PSI	60 PSI											
20 PSI	Household Water Usage												
	Up to 13 GPM	Up to 10 GPM											
	Boosted Household Pressure												
70 DOI	50 PSI	60 PSI											
30 PSI	Household Water Usage												
	Up to 19 PM	Up to 15 GPM											
	Boosted Hous	ehold Pressure											
40 PSI	50 PSI	60 PSI											
40 PSI	Household Water Usage												
	Up to 21 GPM	Up to 19 GPM											

OUTLINE DIMENSIONS





Dimensions (inch)

А	В	С	D	E	F	G
5.1	15.0	3.9	13.7	11.8	12.0	4.6

144 CB12016WS







The MGP/MGPS Booster Pumps are the most durable booster pump available. The proven SignaSeal floating impeller design minimizes thrust loads allowing for continuous operation without damage to motor bearings, mechanical seal or pump hydraulic components.

APPLICATIONS

Car wash

Filtration and reverse osmosis

Residential, commercial or agricultural

pressure washing

Booster and spray systems

HVAC

General purpose pumping

SPECIFICATIONS

Max. Inlet Pressure: 80 PSI
Max. Working Pressure: 315 PSI

Max. Suction Lift: 15 feet

Maximum Limits: Prolonged use with liquids above 140°F is not recommended.

Discharge:

MGP Series: cast iron
MGPS Series: stainless steel
Motor Adapter and Base:

MGP Series: cast iron
MGPS Series: stainless steel
Shell: Stainless steel 304 grade

Impeller: Acetal

Diffuser: Polycarbonate

Shaft: Stainless steel 304 grade

O-Rings: Buna-N

Mechanical Seal: Carbon/ceramic,

Buna-N

FEATURES

SignaSeal Staging System: The proven SignaSeal staging system utilizes a ceramic wear surface that, when incorporated with Sta-Rite's "true" independent floating impellers, dominates with 1st-in-class performance, superior sand handling and thrust management staging system.

Acetal Impellers: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffusers: Superior performance with high resistance to corrosion and abrasion.

Mechanical Shaft Seal: Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...assure prolonged motor life.

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency; dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive.

Dustproof Cover: All electrical components are protected from dirt,

dust and insects by a dustproof canopy; ventilating air cannot contaminate.

TEFC Models available. Contact Customer

Service.

Catalo	g Number	0.014			Pipe Tapping Sizes		Motor	Shipping	
Cast Iron	Stainless Steel	GPM	HP	Phase	Stages	Inlet	Outlet	Voltage	Wt. (lbs.)
MGP7C	MGPS7C		1/2	1	9	3/4"	3/4"	115/230	42
MGP7C3	MGPS7C3		1/2	3	9	3/4"	3/4"	208-230/460	42
MGP7D	MGPS7D		3/4	1	12	3/4"	3/4"	115/230	48
MGP7D3	MGPS7D3	7	3/4	3	12	3/4"	3/4"	208-230/460	48
MGP7E	MGPS7E		1	1	16	3/4"	3/4"	115/230	59
MGP7E3	MGPS7E3		1	3	16	3/4"	3/4"	208-230/460	59
MGP10C	MGPS10C		1/2	1	6	3/4"	3/4"	115/230	40
MGP10C3	MGPS10C3		1/2	3	6	3/4"	3/4"	208-230/460	40
MGP10D	MGPS10D		3/4	1	8	3/4"	3/4"	115/230	46
MGP10D3	MGPS10D3		3/4	3	8	3/4"	3/4"	208-230/460	46
MGP10E	MGPS10E	10	1	1	10	3/4"	3/4"	115/230	57
MGP10E3	MGPS10E3	10	1	3	10	3/4"	3/4"	208-230/460	57
MGP10F	MGPS10F		1-1/2	1	14	3/4"	3/4"	230	71
MGP10F3	MGPS10F3		1-1/2	3	14	3/4"	3/4"	208-230/460	71
MGP10G	MGPS10G		2	1	16	3/4"	3/4"	230	79
MGP10G3	MGPS10G3		2	3	16	3/4"	3/4"	208-230/460	79
MGP20E	MGPS20E		1	1	7	1″	1"	115/230	55
MGP20E3	MGPS20E3		1	3	7	1″	1"	208-230/460	55
MGP20F	MGPS20F		1-1/2	1	9	1″	1"	230	68
MGP20F3	MGPS20F3	00	1-1/2	3	9	1″	1"	208-230/460	68
MGP20G	MGPS20G	20	2	1	11	1″	1"	230	74
MGP20G3	MGPS20G3		2	3	11	1″	1"	208-230/460	74
MGP20H	MGPS20H		3	1	15	1"	1"	208-230-1	59
MGP20H3	MGPS20H3		3	3	15	1"	1"	208-230/460-3	55
MGP30E	MGPS30E		1	1	5	1-1/4"	1-1/4"	115/230-1	47
MGP30E3	MGPS30E3		1	3	5	1-1/4"	1-1/4"	208-230/460-3	44
MGP30F	MGPS30F		1-1/2	1	6	1-1/4"	1-1/4"	230-1	54
MGP30F3	MGPS30F3	30	1-1/2	3	6	1-1/4"	1-1/4"	208-230/460-3	49
MGP30G	MGPS30G		2	1	7	1-1/4"	1-1/4"	230-1	57
MGP30G3	MGPS30G3		2	3	7	1-1/4"	1-1/4"	208-230/460-3	53
MGP30H	MGPS30H		3	1	11	1-1/4"	1-1/4"	208-230-1	59
MGP30H3	MGPS30H3		3	3	11	1-1/4"	1-1/4"	208-230/460-3	55

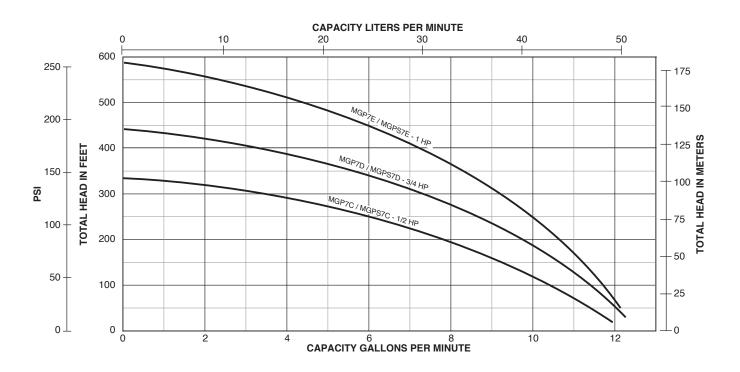
 $\textbf{NOTE:} \ \texttt{ODP} \ motor is \ standard, for \ \texttt{TEFC} \ motors, \ contact \ \texttt{Customer Service}.$

ORDERING INFORMATION (ACCESSORIES)						
Pkg. No.	Description	Approx. Wt. Lbs.				
SUCTION						
83	Suction hose - 3/4" 150 PSI hose, 6 ft. section with two (2) female hose fittings	3				
85	Two (2) garden hose/NPT adapters – 3/4" NPT male to 3/4" garden hose male	3				
150 PSI RATED* DISCHARGE						
84	Discharge hose – 3/4" 150 PSI hose, 25 ft. section with male and female garden hose fittings	10				
86	High-pressure pistol-grip nozzle with three (3) nozzles (No. 56, 50 and 49)	2				

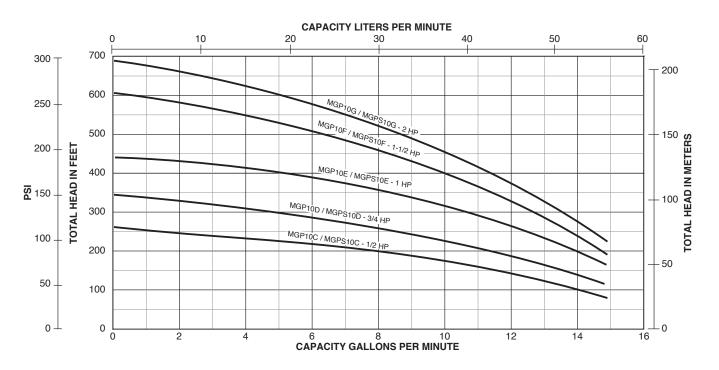
^{*}To select proper discharge accessories for your pump, add incoming pressure to pump output pressure, to determine total discharge pressure.

Example: Incoming pressure 20 PSI + pump output pressure (HP7C at 0 GPM, 300') 87 PSI = Total 150 PSI at discharge = 150 PSI rated discharge accessories

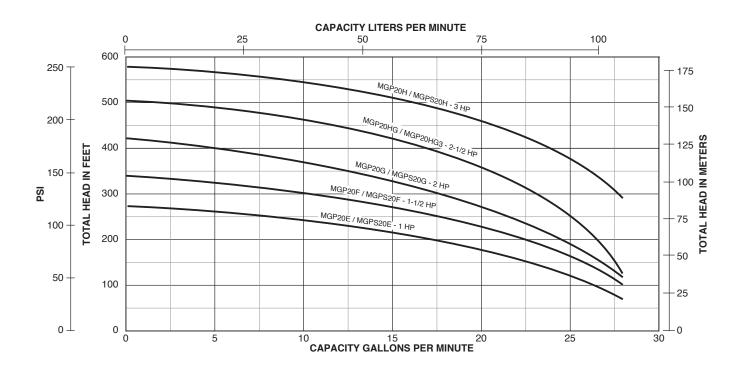
PUMP PERFORMANCE: 7 GPM



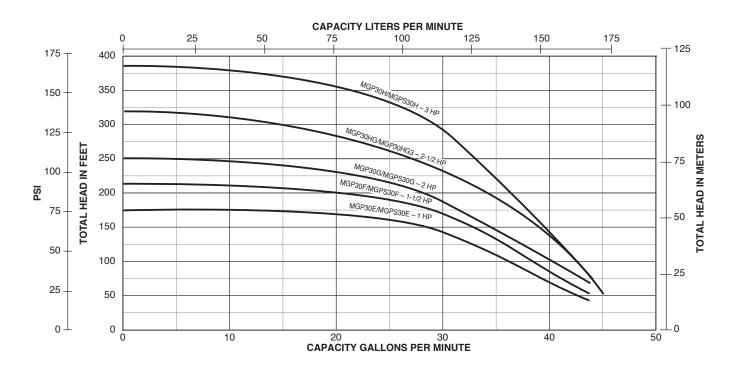
PUMP PERFORMANCE: 10 GPM



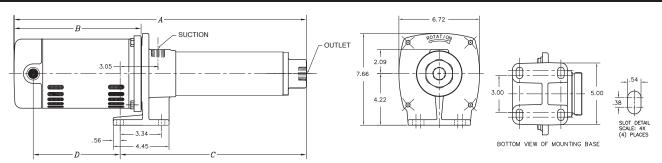
PUMP PERFORMANCE: 20 GPM



PUMP PERFORMANCE: 30 GPM



OUTLINE DIMENSIONS



Catalog	HP	Α	В	С	D
Number					
MGP7C	1/2	24.28	10.38	15.76	6.68
MGP7C3	1/2	26.41	9.88	18.39	6.68
MGP7D	3/4	27.41	10.88	18.39	7.69
MGP7D3	3/4	30.41	10.38	21.89	7.28
MGP7E	1	31.91	11.88	21.89	8.69
MGP7E3	1	22.15	10.88	13.13	7.68
MGP10C	1/2	22.87	11.60	13.13	8.44
MGP10C3	1/2	21.15	9.88	13.13	6.68
MGP10D	3/4	24.99	11.97	14.88	8.81
MGP10D3	3/4	25.15	10.38	16.63	7.28
MGP10E	1	27.80	13.03	16.63	9.87
MGP10E3	1	24.78	10.88	15.76	7.68
MGP10F	1-1/2	31.18	13.78	19.26	10.31
MGP10FG	1-1/2	31.91	11.88	21.89	8.69
MGP10G	2	36.44	13.78	24.52	10.62
MGP10G3	2	32.66	12.63	21.89	9.44
MGP20E	1	26.85	13.03	15.68	9.87
MGP20E3	1	26.93	10.88	17.91	7.68
MGP20F	1-1/2	29.83	13.78	17.91	10.31
MGP20F3	1-1/2	30.16	11.88	20.14	8.69
MGP20G	2	32.06	13.78	20.14	10.62
MGP20G3	2	26.53	12.63	15.76	9.44
MGP30E	1	25.08	11.88	14.92	8.69
MGP30E3	1	24.08	10.88	14.92	7.69
MGP30F	1-1/2	27.26	12.63	16.35	9.44
MGP30F3	1-1/2	26.51	11.88	16.35	8.69
MGP30G	2	28.49	12.42	17.79	9.47
MGP30G3	2	28.70	12.63	17.79	9.44
MGP30HG	2-1/2	32.24	13.18	20.78	10.25
MGP30HG3	2-1/2	32.26	13.20	20.78	10.28
MGP30H	3	35.86	14.05	23.53	11.12
MGP30H3	3	33.73	11.92	23.53	8.97

STAINLESS STEEL							
Catalog Number	HP	Α	В	С	D		
MGPS7C	1/2	25.39	11.60	15.65	8.44		
MGPS7C3	1/2	26.27	9.88	18.25	6.68		
MGPS7D	3/4	28.36	11.97	18.25	8.81		
MGPS7D3	3/4	26.77	10.38	18.25	7.28		
MGPS7E	1	31.89	11.97	21.78	8.81		
MGPS7E3	1	30.80	10.88	21.78	11.94		
MGPS10C	1/2	22.76	11.60	13.02	8.44		
MGPS10C3	1/2	22.79	9.88	14.77	6.68		
MGPS10D	3/4	24.88	11.97	14.77	8.81		
MGPS10D3	3/4	25.04	10.38	16.52	7.28		
MGPS10E	1	27.69	13.03	16.52	9.87		
MGPS10E3	1	29.05	10.88	20.03	7.68		
MGPS10F	1-1/2	31.95	13.78	20.03	10.31		
MGPS10F3	1-1/2	31.80	11.88	21.78	8.69		
MGPS10G	2	33.70	13.78	21.78	10.62		
MGPS10G3	2	27.22	12.63	16.45	9.44		
MGPS20E	1	26.74	13.03	15.57	9.87		
MGPS20E3	1	26.82	10.88	17.80	7.68		
MGPS20F	1-1/2	29.72	13.78	17.80	10.31		
MGPS20F3	1-1/2	30.05	11.88	20.03	8.69		
MGPS20G	2	31.95	13.78	20.03	10.62		
MGPS20G3	2	26.42	12.63	15.65	9.44		
MGPS30E	1	26.23	13.03	14.92	9.87		
MGPS30E3	1	24.08	10.88	14.92	7.69		
MGPS30F	1-1/2	28.10	13.47	16.35	10.31		
MGPS30F3	1-1/2	26.51	11.88	16.35	8.69		
MGPS30G	2	29.85	13.78	17.79	10.62		
MGPS30G3	2	28.70	12.63	17.79	9.44		
MGPS30HG	2-1/2	32.24	13.18	20.78	10.28		
MGPS30HG3	2-1/2	32.26	13.20	20.78	10.28		
MGPS30H	3	35.86	14.05	23.53	11.12		
MGPS30H3	3	33.73	11.92	23.53	8.97		

A jet package should be ordered with every convertible deep well jet pump.

ORDERING INFORMATION		Head with Down Ond
Package	Jet Number	Used with Pump Series
SHALL	OW WELL AND 4" DEEP WELL DOUI	1
	PKG 1-4SD	SL, HL, FL, LT2
	PKG 1-10SD	SL, HL, FL, LT2
	PKG 1-11SD	SL, HL, FL, LT2
kg 1 SD	PKG 1-12SD	SL, HL, FL, LT2
or shallow	PKG 1-15SD	SL, HL, FL, LT2
ell applications	PKG 1-23SD	MS, PL
or all 4" double	PKG 1-27SD	SL, HL, FL
ipe applications	PKG 1-29SD	SL, HL, FL, LT2
	PKG 1-54SD	SL, HL, FL
	PKG 1-55SD	SL, HL, FL
	PKG 1-60SD	SL, HL
SHALLOW	WELL AND 4" DEEP WELL DOUBLE	PIPE - KITS
	PKG CK1	SL, HL, LT2, SSJ
kg CK _	PKG CK2	SL, HL, LT2, SSJ
ome on CD into above	PKG CK3	SL, HL, LT2, SSJ, FL
ame as SD jets above, rith three (3) venturis	PKG CK4	LT2, SSJ
	PKG CK5	SL, HL, LT2, SSJ
4" DEEP WE	ELL DOUBLE PIPE WITH ACCESSOR	Y PACKAGES
	PKG 2A-4SD	SL, HL, FL, LT2
	PKG 2A-15SD	SL, HL, FL, LT2
kg 2A SD	PKG 2A-23SD	MS, PL
	PKG 2A-54SD	SL, HL, FL
	PKG 2A-55SD	SL, HL, FL
PL SERII	ES PLASTIC SHALLOW WELL JET P	ACKAGES
	PKG 1-21N	PL
kg 1 - 🔃 🔠 N	PKG 1-22N	PL
or all shallow well	PKG 1-23N	PL
pplications	PKG 1-24N	PL

Continued On Next Page.

ORDERING INFORMATION							
Accessory Package							
Catalog Number	Description	Approx. Wt. Lbs.					
PKG 2A	Poly Pipe and Foot Valve Kit (1-1/4" Brass)	3					



PKG 1- _ SD SHALLOW WELL & DEEP WELL



PKG CK _



PKG 2A- _ SD
DOUBLE PIPE



PKG 1- N
PL SHALLOW WELL



PKG 2AACCESSORY PACKAGE

A jet package should be ordered with every convertible deep well jet pump.

Package	Jet Number	Suction Tapping	Used with Pump Series
	2" SIN	IGLE PIPE*	
	PKG 1-54 AP		SL, HL, FL
	PKG 1-23 AP	Ī [LT2
	PKG 1-22 AP	1	LT2
	PKG 1-18 AP	1	LT2
	PKG 1-19 AP	1	LT2
KG 1** AP	PKG 1-16 AP & APB	1	PL, SSJ
KG1 APB	PKG 1-15 AP	1	PL, LT2, SSJ
4 lbs.)	PKG 1-14 AP	1	PL, SSJ
et with built-in	PKG 1-13 AP	1-1/4" M and 1" F	PL, LT2
heck valve	PKG 1-12 AP & APB	andir	MS
ar all 9" aingle nine	PKG 1-10 AP & APB	1	SL, HL, PL, SSJ
or all 2" single pipe eep well applications	PKG 1-9 AP & APB	1	SL, HL, PL, SSJ
	PKG 1-8 AP & APB	1	SL, HL, PL, LT2, SSJ, MS, FL
	PKG 1-7 AP & APB	1	LT2
	PKG 1-5 AP	1	LT2
	PKG 1-4 AP	1	LT2
	PKG 1-2 AP	Ī [LT2
	3" SIN	IGLE PIPE	
	PKG 1-57 CP		SL, HL
	PKG 1-54 CP	1	SL, HL, FL
	PKG 1-26 CP	1	PL, SSJ
	PKG 1-25 CP	1	PL
	PKG 1-23 CP	1	MS
KG 1** CP	PKG 1-22 CP	1	LT2, MS
3 lbs.)	PKG 1-19 CP	1 [SL, HL, PL, LT2, SSJ, FL
et with built-in	PKG 1-18 CP	1-1/4" M and 1" F	SL, HL, LT2
heck valve	PKG 1-17 CP	alluir	PL, LT2, SSJ, MS
or all 3" single pipe	PKG 1-16 CP	Ī [SL, HL, LT2, SSJ, MS, FL
eep well applications	PKG 1-15 CP	1	PL, SSJ
	PKG 1-11 CP	1	PL, SSJ
	PKG 1-10 CP	1	PL, LT2
	PKG 1-9 CP	1	SL, HL, LT2, FL
	PKG 1-7 CP	1	LT2



PKG 1- _ _ AP

2" SINGLE PIPE CAST IRON

ΩR

PKG 1- _ _ APB

2" SINGLE PIPE BRASS

PKG 1- _ _ CP 3" SINGLE PIPE

^{**}For casing adapter, please see following page.

ORDERING INFORMATION								
	TURNED COUPLING							
Catalog Number	Catalog Number Description Approx. Wt. Lbs.							
U11-1	Turned Coupling (1-1/4" NPT)	1						



PKG U11-1 TURNED COUPLING

^{*}Order one (1) U11-1 turned coupling for each length of drop pipe.



View A Vertical – Straight Offset Casing Adapter



View B Vertical – Bolt-on Casing Adapter



View C Horizontal – Right Angle Casing Adapter Drive-Over-Suction



View D Horizontal – Right Angle Casing Adapter Suction-Over-Drive

ACCESSORIES				
Catalog Number	View	Description	Approx. Wt. Lbs.	Use with Pump Series
		CASING ADAPTE	RS	
J216-13A	А	2" vertical – straight offset	6	General Usage
J216-21	В	2" vertical – bolt-on	6	SSJ, MS
J216-23	В	3" vertical – bolt-on	7	SSJ, MS
J216-16A	С	2" horizontal – right angle – drive-over- suction	7	FL, LT2
J216-18A	С	3" horizontal – right angle – drive-over- suction	9	FL, LT2
J37-4	-	Offset nipple (1" NPT x 4-3/4")	1	General Usage
J216-29B	-	2" concentric pipe – pitless adapter	6	SSJ, MS
J216-42	-	2" concentric pipe – pitless adapter	6	FL, LT2
J216-44 D 2" horizontal – right drive		2" horizontal – right angle –suction-over- drive	7	SL, HL
		FOOT VALVES	3	
U212-28	Е	3/4" foot valve and strainer	1	
U212-93	Е	1" foot valve and strainer	1	View E
U212-94	Е	1-1/4" foot valve and strainer	2	Foot
U212-92	E	1-1/2" foot valve and strainer	3	Valves
U212-16	Е	2" foot valve and strainer	3	
		PRESSURE REGULATOR		View F Pressure
PKG 107	F	Regulator, tubing, pipe plug and compression fitting	4	Regulator

ACCESSORIES (CONT'D.)						
AIR VOLUME CONTROLS							
Catalog Number	Description	Approx. Wt. Lbs					
U238-5A	AVC, 1/4" compression fitting for copper tube, nipple, instruction sheet, jet type	1					
U238-5B	AVC, 1/4" compression fitting for plastic tube, nipple, instruction sheet, jet type	1					
J238-10B	AVC, 1/4" plastic tubing, compression fittings, reducer bushing and instruction sheet	3					
E238-2	Air volume control – submersible	1					
U238-4	AVC bulk. No fittings.	1					
U238-5E	AVC boxed. No fittings or nipple.	1					
U78-774P	Plastic AVC reducer bushing, 1-1/4" x 1/4"	1					
	TANK MOUNTING PACKAGES -PRO-SOURCE® TANKS						
PKG 111	For tank mounting PL and PN Series jet pumps	2					
PKG 112	For tank mounting HN, SN, FN, HL, SL, and FL Series Jet Pumps	2					
PKG 198	Jet Pump to Tank Mounting Bracket	3					
PKG 207	Pump-to-Tank Fitting Package – all galvanized fittings	4					
	REVERSING ADAPTER						
PKG 108	Adapter, gasket, capscrews, 1" x 1-1/4"	4					
	PRESSURE GAUGES						
U239-2	Pressure gauge, bottom mount 1/4", 0-100 PSI	1					
U239-3	Pressure gauge, bottom mount 1/8", 0-100 PSI	1					
U239-3A	U239-3 with 1/4" x 1/8" reducer bushing	1					
U239-8	Pressure gauge, bottom mount 1/4", 0-200 PSI	1					
U78-107DT	Reducer bushing for U239-3 1/4" x 1/8"	1					



U238-5 Air Volume Controls (Jet pump type)



E238-2 Air Volume Control (Submersible type)



Reducer Bushing



Tank Mounting Packages



Pressure Gauge



PKG 108 Reversing Adapter Drive over suction to suction over drive



PKG 198 Universal Jet Pump to Tank Mounting Bracket



Built Tough...for Quality

Every Pro-Source® Composite tank utilizes a durable, FDA approved air cell which is resistant to chlorine and will not promote taste or odor problems associated with iron bacteria that may be present in the water supply.

Built Tough...for Durability

Each tank is wrapped with more than three miles of overlapping, continuous fiberglass strands, sealed with high-grade epoxy resin, then oven-cured. Tough composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

Built Tough...for Easy Installation and Service

Not only is composite construction tougher, it's also more lightweight...as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person. Repairable with the tank installed.

NSF/ANSI 61 Drinking Water

ORDERING IN	ORDERING INFORMATION								
Catalog	r Gal / liter Diameter Height Tap	Tank	Tank	Discharge	Water Yield Per	Pump Cycle Pressure	Switch Setting		
Number		Tapping Inch / cm	20-40 Gal./ Liter	30-50 Gal./Liter	40-60 Gal./ Liter				
PSC-14-4	14.5 / 55	16 / 41	28.2 / 71.6	1/2.5	4.9 / 18.7	4.4 / 16.5	3.8 / 14.3		
PSC-20-6	19.8 / 75	16 / 41	34.1 / 86.6	1/2.5	6.7 / 25.5	5.9 / 22.5	5.1 / 19.5		
PSC-30-9	29.5 / 112	16 / 41	46.3 / 117.6	1/2.5	10.0 / 38.1	8.9 / 33.5	7.7 / 29.1		
PSC-40-12	40.3 / 153	16 / 41	59.0 / 149.9	1/2.5	13.7 / 52.0	12.1 / 45.8	10.5 / 39.8		
PSC-48-14	47.1 / 178	21 / 53	43.6 / 110.7	1.25 / 3.1	16.0 / 60.5	14.1 / 53.5	12.2 / 46.3		
PSC-60-20	60 / 227	24 / 61	44.4 / 112.8	1.25 / 3.1	20.4 / 77.2	18.0 / 68.1	15.6 / 59.0		
PSC-80-23	79.6 / 301	21 / 53	65.5 / 166.4	1.25 / 3.1	27.1 / 102.3	23.8 / 90.4	20.7 / 78.3		
PSC-85-25	86.7 / 328	24 / 61	57.2 / 145.3	1.25 / 3.1	29.5 / 111.5	26.0 / 98.5	22.5 / 85.3		
PSC-119-35	119.7 / 453	24 / 61	75.4 191.5	1.25 / 3.1	40.7 / 154	35.9 / 135.9	31.1 / 117.8		

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Maximum Operating Pressure = 125 PSI, PSC - 80-23 has a maximum operating pressure of 125 PSI. Maximum Internal Water Temperature: 120°F (49°C). Maximum Ambient Air Temperature: 120°F (49°C). Distance from base to center line of connection is 2-1/4" (5.7 cm)*. Allow 12" (30.5 cm) for service clearance.

*1-3/4" (4.4 cm) for 16" diameter tanks

Certified to ANSI/NSF 61, Drinking Water System Components

CB4567WS

APPLICATIONS

Use wherever pressurized tanks are needed in water systems applications.

SPECIFICATIONS

Inner Liner: One-piece high-density polyethylene

Outer Shell: Fiberglass-wound, oven-cured, and epoxy resin sealed

Exclusive Air Cell: Heavy gauged PEU, meets Water Quality Association standards

Base: Rotatable base with quick connect **Service Connection:** Stainless steel,

300 grade

FEATURES

Durable Composite Construction: A rugged one-piece molded inner liner of premium high-density polyethylene.

Miles of continuous overlapping fiberglass strands, sealed with oven-cured epoxy, make the outer shell impervious to rust, dents and ultra-violet rays (no paint to scratch and touch up).

Air Cell: Seamless, durable PEU air cell is full replaceable and constructed of heavy-gauge engineered polymer. Meets Water Quality Assocation standards.

Tank Base: Rigid molded ABS is the sturdiest composite base on the market. Corrosion- and impact-resistant.

Replaceable Air Cell: Generous and accessible air cell opening facilitates easy removal and re-installation of replacement air cell (with the professional contractor in mind). Replaceable on PSC line of Fibrewound.

Stainless Steel Service Connection:

300 grade, the professional's choice

TANK SIZING RULE:

Size tank for one gallon of drawdown for each gallon per minute at pump capacity.

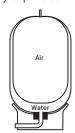
Example: For a 1 HP, 20 GPM unit pumping 20 gallons per minute on a 30-50 pressure switch setting, the properly sized Pro-Source composite tank is a PSC-80-23, which has a 23.8 gallon drawdown.

156 CB4567WS

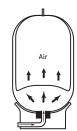
OPERATING CYCLE

1.Pro-Source Composite tank is nearly empty: air cell

is fully expanded



2. Water is pumped into tank: air in cell is compressed



3. Pump-up cycle is complete: air is now compressed to "cut off" setting of pressure switch



4. Water is drawn from tank:pressure in air cell provides
water as needed, until tank is
empty and cycle repeats



ART A TANK SELECTION CHART									
Pump	20	-40	30-	-50	40-60				
GPM	Runtimes								
	1 Minute	2 Minute	1 Minute	2 Minute	1 Minute	2 Minute			
5	PSC-20-6	PSC-30-9	PSC-20-6	PSC-40-12	PSC-20-6	PSC-40-12			
7.5	PSC-30-9	PSC-48-14	PSC-30-9	PSC-60-20	PSC-30-9	PSC-60-20			
12.5	PSC-40-12	PSC-80-23	PSC-48-14	PSC-85-25	PSC-60-20	PSC-119-35			
15	PSC-48-14	PSC-119-35	PSC-60-20	PSC-119-35	PSC-60-20	PSC-119-35			
20	PSC-60-20	PSC-119-35	PSC-80-23	PSC-80-23(2)	PSC-80-23	PSC-80-23(2)			
30	PSC-85-25	PSC-85-25(2)	PSC-119-35	PSC-119-35(2)	PSC-119-35	PSC-119-35 (2)			
50	PSC-80-23(2)	PSC-119-35(3)	PSC-85-25(2)	PSC-119-35(3)	PSC-119-35(2)	PSC-119-35 (3)			

NOTE: Drawdown will be affected by operating temperature of the system, accuracy of the pressure switch and gauge, the actual precharge pressure, and rate of fill.

HART B											
	DRAWDOWN VOLUME MULTIPLIER* (APPROXIMATE)										
Pump Off		PUMP START PRESSURE - PSI									
Pressure PSI	10	20	30	40	50	60	70	80			
20	0.26										
30	0.41	0.22									
40		0.37	0.18								
50		0.46	0.31	0.15							
60			0.40	0.27	0.13						
70			0.47	0.35	0.24	0.12					
80				0.42	0.32	0.21	0.11				
90				0.48	0.38	0.29	0.19	0.10			
100					0.44	0.35	0.26	0.17			

^{*}Utilize this chart if proper selection cannot be made using tank selection chart. Drawdown based on Boyle's Law.

Procedure:

2. Insert multiplier (X) into the following formula:

Pump GPM x Min Runtime = Minimum Tank

Multiplier (X) Capacity Required

^{1.} Identify drawdown multiplier relating to specific application.

^{3.} Refer to "Ordering Information" Table - Max. Capacity Gals.

Contact



NSF/ANSI 61 Drinking Water

Built Tough...for Quality

Professional grade composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

Built Tough...for Durability

Each tank is wrapped with more than three miles of overlapping, continuous fiberglass strands, sealed with high-grade epoxy resin, then oven-cured.

Built Tough... for Easy Installation

Composite construction is lightweight... as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person.

APPLICATIONS

Residential Water Systems
Industrial, Commercial and Agricultural

SPECIFICATIONS

Inner Liner: One-piece high-density polyethylene

Outer Shell: Fiberglass-wound and epoxy resin sealed

Upper and Lower Flanges: Reinforced polypropylene

Base: One-piece ABS

Service Connections: Reinforced

polypropylene

FEATURES

Durable Composite

Construction: A rugged one-piece molded inner liner of premium high-density polyethylene. Miles of continuous overlapping fiberglass strands, sealed with oven-cured epoxy, make the outer shell impervious to rust, dents and ultra-violet rays (no paint to scratch and touch up).

Tank Base: Rigid ABS is the sturdiest composite base on the market. Corrosionand impact-resistant. Base rotates 360° for ease-of-service hook-up.

Composite Service Connection:

Threaded for ease of installation.

ORDERING INFORMATION

FCT SERIES CONTACT TANKS

Catalog Number	Maximum Capacity Gal./Liter	Maximum Operating Pressure PSI/kPa/Bar	Diameter Inch/cm	Overall Height Inch/cm	Height Inlet/ Outlet to Floor Inch/cm	Top System Connection	Bottom System Connection	Assembly Weight Lbs./kg			
FCT40	40/151	75/500/5.0	16/41	57.25/145	1.5/3.8	1-1/4" Socket	1-1/4" Socket	28/12.7			
FCT80	80/303	75/500/5.0	21/53	62.75/159	2/5.1	1-1/4" Socket	1-1/4" Socket	43/19.5			
FCT120	120/454	75/500/5.0	24/61	73.25/186	2/5.1	1-1/4" Socket	1-1/4" Socket	63/28.6			

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Maximum external operating temperature 120°F (49°C). Maximum internal operating temperature 100°F (38°C). Minimum operating temperature 40°F (4°C).

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CB6052WS

Sideport Contact/Air Over Water

SP Series Sideport Contact Tanks



(P)

NSF/ANSI 61 Drinking Water

Built Tough...for Quality

Professional grade composite construction means longer lasting tanks that will not rust, corrode, dent or scratch.

Built Tough...for Durability

Each tank is wrapped with more than three miles of overlapping, continuous fiberglass strands, sealed with high-grade epoxy resin, then oven-cured.

Built Tough... for Easy Installation

Composite construction is lightweight... as little as half the weight of steel tanks. Installation is faster, easier and can be handled by one person.

APPLICATIONS

Residential Water Systems
Industrial, Commercial and Agricultural

SPECIFICATIONS

Inner Liner: One-piece high-density

polyethylene

Outer Shell: Fiberglass-wound and

epoxy resin sealed

Upper and Lower Flanges:

Reinforced polypropylene

Base: One-piece ABS

Service Connections: Reinforced

polypropylene

FEATURES

Durable Composite

Construction: A rugged one-piece molded inner liner of premium high-density polyethylene. Miles of continuous overlapping fiberglass strands, sealed with oven-cured epoxy, make the outer shell impervious to rust, dents and ultra-violet rays (no paint to scratch and touch up).

Tank Base: Rigid ABS is the sturdiest composite base on the market. Corrosionand impact-resistant. Base rotates 360° for ease-of-service hook-up.

Composite Service Connection:

Threaded for ease of installation.

ORDERING INFORMATION

SP SERIES SIDEPORT CONTACT TANKS

Catalog Number	Maximum Capacity Gal./Liter	Drawdown 30-50 Setting Gallons/Liters	Diameter Inch/cm	Overall Height Inch/cm	Height Inlet/Outlet to Floor Inch/cm	Height Sideport to Floor Inch/cm	Unit Ship Weight Lbs./kg
SP-7	30/114	7/26	16/41	43.75/111	1.5/3.8	14/35.6	26/11.8
SP-9	40/151	9/34	16/41	56.5/144	1.5/3.8	15.5/39.4	35/15.9
SP-9SQ	47/178	9/34	21/53	41.25/105	2/5.1	16.9/42.9	48/21.8
SP-18	80/303	18/67	21/53	62/157	2/5.1	18.3/46.5	67/30.5
SP-26	120/454	26/98	24/61	72.5/184	2/5.1	20.2/51.3	97/44.1

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Maximum Operating Pressure = 100 PSI

1-1/4" System connections sidewall. Customer-supplied air control valve. Bottom, dual port 1-1/4" PVC.



U238-5 Air Volume Controls (Jet pump type)



E238-2 Air Volume Control (Submersible type)

Certified to ANSI/NSF 61, Drinking Water System Components. In order to provide the best products possible, specifications are subject to change.

CB6052WS

SSHM-2 Series

Multi-stage



The SSHM-2 multi-stage series of sprinkler pumps delivers highperformance without priming problems and delays.

The SSHM-2 multi-stage series is designed for minimal electrical consumption and quiet operation from the professional-grade motor. The SSHM-2 multi-stage series offers first-in-class priming capabilities of up to 15 foot lifts!

APPLICATIONS

Residential and commercial turf irrigation Residential water systems Shower and washing systems Water transfer Heating and air conditioning systems Water features and fountains

SPECIFICATIONS

Motor Bracket and Integral Pump Base:

Close-grained cast iron, 1-1/2" NPT inlet connection, stable heavy-duty design for rigid pipe and solid base mountings

Discharge: Close-grained cast iron, 1-1/4" NPT discharge connection, with easyaccess drain port for end of season draining and winterization

Impellers and Diffusers: Noryl* precision-molded extra-smooth ports to maximize efficiency and performance

Outer Shell: Polished 304 stainless steel

Shaft: 303 stainless steel

Priming Valve: Special brass priming valve for trouble-free operation during the initial pump priming

Mechanical Seal: High-pressure seal, carbon-ceramic seal faces, Buna-N elastomers

Heavy-Duty Motor: 2 HP, single-phase, 3450 RPM, 230-volt, high-service factor, capacitor-start/capacitor-run, open drip-proof motor, rated for continuous-duty operation. 230/460 TEFC available

Maximum Inlet Pressure: 20 PSI
Maximum Discharge Pressure: 155 PSI

Maximum Operating Temperature: 120°F (49°C) Maximum Suction Lift: 15 feet Number of Stages: 3 or 4

ORDERIN	ORDERING INFORMATION											
Catalog			Pipe Tap	ping Sizes	Matau Valtana	Annual We I ha						
Number	Stages	HP	Suction	Discharge	Motor Voltage	Approx. Wt. Lbs.						
B86073	3	2	1-1/2" NPT	1-1/4" NPT	230 1ø	95						
B86074	3	2	1-1/2" NPT	1-1/4" NPT	230/460 TEFC	95						
B82456-01	4	2	1-1/2" NPT	1-1/4" NPT	230 1ø	95						
B82639	4	2	1-1/2" NPT	1-1/4" NPT	230/460 TEFC	95						

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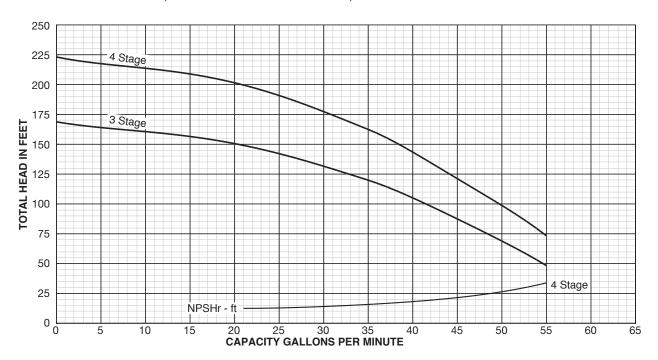
160 CB6044WS

SSHM-2 Series

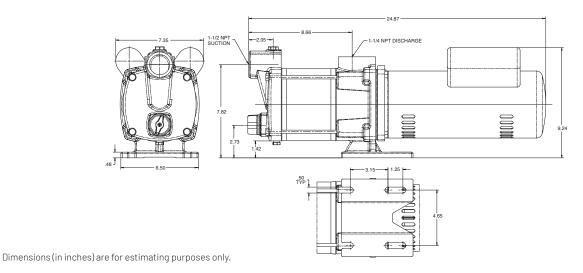
Multi-stage

PUMP PERFORMANCE

NOMINAL RPM: 3450, BASED ON FRESH WATER @ 68°F, MAXIMUM WORKING PRESSURE: 175 PSI



OUTLINE DIMENSIONS



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CB6044WS

LTHH Series

Self-priming centrifugal



The LTHH Series* of cast iron sprinklers offers superior unmatched performance, available in 1 HP through 2-1/2 HP models.

The LTHH models offer "single-body-fill" priming to 25-foot lifts, in less than 5 minutes!

The LTHH models exceed the strict safety requirements of Underwriters Laboratories UL778, and CSA. Required by many state and local codes.

The LTHH models are completely interchangeable with the original LTH Series models, saving costly plumbing "change-out" dollars and installation headaches!

*Single- and three-phase available

APPLICATIONS

safely operated by timer or other

Contractors...for dewatering excavation,

pumping, liquid transfer and supply operations

SPECIFICATIONS

Body and Seal Plate: Close-grained

cast iron

Impeller: Noryl®

Diffuser: Reinforced polypropylene Shaft: One-piece threaded 300 grade

stainless steel

Base: Steel, 10 gauge Motor: 2-compartment

FEATURES

Rugged Construction: Close-grained cast iron body, specially treated for corrosion resistance.

Noryl Impeller: Precision-molded for perfect balance...ultra-smooth for highest performance and efficiency.

Precision-Molded Diffuser: Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser.

High Head Models: Deliver up to 145' of head with capacities to 95 GPM.

Easy Serviceability: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Motor Windings: Superior insulation materials protect against excessive moisture and contaminants...ensures prolonged motor

Balanced Rotor: Diecast under high pressures for uniform performance and greater efficiency, dynamically balanced.

Drain Port: Provided for easy winterizing.

Max. Operating Pressure: 100 PSI

Residential irrigation pump...can be automatic device

water transfer and supply

Agriculture...seed bed and plot irrigation, stock watering

Industrial...sump drainage, marine

ORDERING INFORMATION

CINDEINING	I OIN IA	IIIOIN								
	High Head									
Catalog	ш	William	Di	Pipe Tap	ping Sizes	Approx. Wt.				
Number	HP	Voltage	Phase	Suction	Discharge	Lbs.				
10LTHH	1	115/230	1	2"	1-1/2"	52				
10LTHH3	1	208-230/460	3	2"	1-1/2"	52				
10LTHH3-575T	1	115/230	3	2"	1-1/2"	57				
15LTHH	1-1/2	208-230/460	1	2"	1-1/2"	58				
15LTHH3	1-1/2	115/230	3	2"	1-1/2"	58				
15LTHH3-575T	1-1/2	208-230/460	3	2"	1-1/2"	63				
20LTHH	2	115/230	1	2"	2"	83				
20LTHH3	2	208-230/460	3	2"	2"	83				
20LTHH3-575T	2		3	2"	2"	88				
25LTHH	2-1/2		1	2"	2"	85				
25LTHH3	2-1/2		3	2"	2"	85				
25LTHH3-575T	2-1/2		3	2"	2"	90				

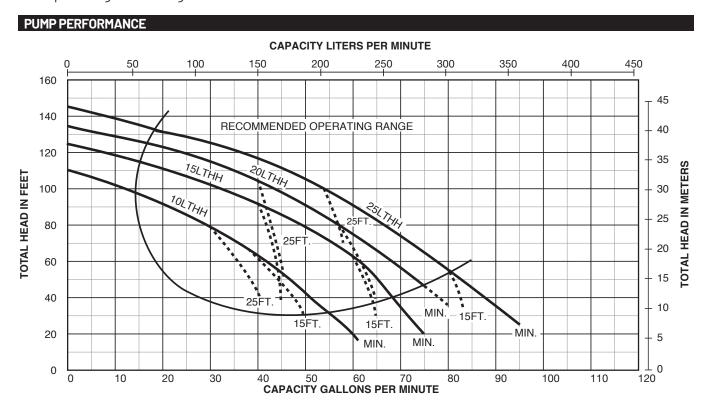
NOTE: All single-phase motors shipped from the factory set at 230 volt.

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LTHH Series

Self-priming centrifugal



NOTE: Dotted lines indicate performance reduction at high suction lift.

Catalog	HP	Discharge	Pressure		Suction Lift in Feet						
Number	пР	PSI	Feet Head	5'	10'	15'	20'	25'			
		20	46.2	48	45	40	37	33			
10LTHH	1	30	69.3	33	30	26	22	16			
	40	92.4	15	10	_	_	_				
		20	46.2	64	62	60	57	54			
15LTHH 1-1/2	30	69.3	53	50	46	42	37				
		40	92.4	35	30	25	19	_			
		20	46.2	72	70	67	65	62			
20LTHH	2	30	69.3	60	58	54	51	47			
ZULIHH	2	40	92.4	45	42	37	30	27			
		50	115.5	23	16	_	_	_			
		20	46.2	83	80	77	74	71			
25LTHH 2-1/2	30	69.3	70	67	63	60	55				
	40	92.4	56	52	48	40	35				
		50	115.5	36	28	20	_	_			

Tested and rated in accordance with Water Systems Council Standards.

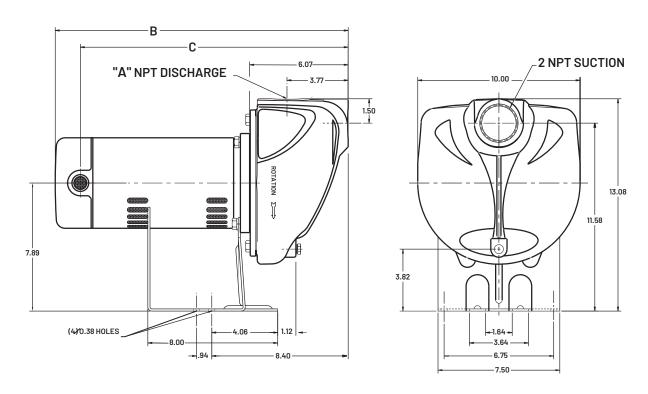
NOTE: Pumps installed with a Pro-Source* tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

163 CB5563WS

LTHH Series

Self-priming centrifugal

OUTLINE DIMENSIONS



Catalog Number	A NPT	В	С
10LTHH	1-1/2" NPT	17.04	16.57
10LTHH3	1-1/2" NPT	15.45	15.04
10LTHH3-575T	1-1/2" NPT	17.35	13.29
15LTHH	1-1/2" NPT	18.10	17.63
15LTHH3	1-1/2" NPT	15.95	15.45
15LTHH3-575T	1-1/2" NPT	18.60	14.54
20LTHH	2" NPT	18.54	18.38
20LTHH3	2" NPT	18.22	16.75
20LTHH3-575T	2" NPT	16.95	14.85
25LTHH	2" NPT	18.85	18.69
25LTHH3	25LTHH3 2" NPT		17.50
25LTHH3-575T	2" NPT	18.91	14.85

 ${\bf Dimensions\,(in\,inches)\,are\,for\,estimating\,purposes\,only.}$

164 CB5563WS

BPD Series

Corrosion-resistant, self-priming sprinkler pumps



Quick priming BPD Series Pumps feature lightweight construction in a self-priming design. These models offer a stronger pump body with reinforcement ribs and also a new 2" suction that is designed for the professional pump contractor.

APPLICATIONS

Lawn and landscape sprinkling; self-primer out of tanks or cisterns.

165

Light chemical transfer for compatible fluids.

ORDERING INFORMATION										
Catalog	up	Pipe Tap	oing Sizes	Matau Valtana	A WA I b					
Number	HP	Suction	Discharge	Motor Voltage	Approx. Wt. Lbs.					
BPDH10	1	2"	1-1/2"	115/230	38					
BPDH15	1-1/2	2"	1-1/2"	115/230	41					
BPDH20	2	2"	2"	115/230	52					
BPHD25	2-1/2	2"	2"	115/230	54					

NOTE: All motors are shipped from the factory set at 230 volt.

SPECIFICATIONS

Body and Base: Fiberglassreinforced thermoplastic Impeller: Engineered polymer Diffuser: Polypropylene Shaft: 300 grade stainless steel

FEATURES

Quality Construction: Fiberglass-reinforced thermoplastic provides total corrosion resistance and high resistance to sandy water.

Lightweight Design: Space-age materials make these pumps more portable than conventional cast iron pumps.

Composite Impeller: Highest performance and efficiency from ultra-smooth materials Precision-Molded for perfect balance.

Easily Serviced: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Dustproof Cover: Electrical components protected from dust and insects.

Heavy-Duty Motor: Heavy-duty 1 through 2-1/2 HP motors. Designed for continuous operation. Stainless steel shaft.

Dual Voltage Capability: 1 and 1-1/2 HP motors have dual voltage motors and are shipped at the 230-volt setting. 2 and 2-1/2 HP are 230-volt setting only.

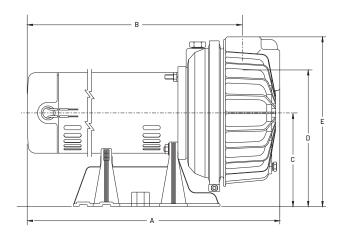
Max. Operating Pressure: 60 PSI

CB4870WS

BPD Series

Corrosion-resistant, self-priming sprinkler pumps

OUTLINE DIMENSIONS

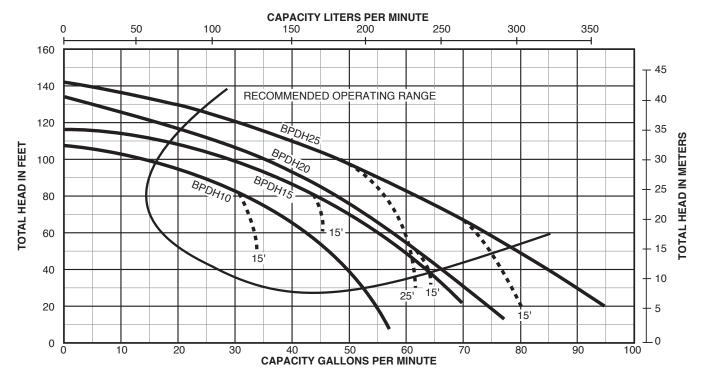


Catalog Number	Α	В	С	D	E
BPDH10	17-5/8	15-1/8	6-9/16	9-9/16	11-13/16
BPDH15	18-3/4	16-1/4	6-9/16	9-9/16	11-13/16
BPDH20	20	16-3/16	6-9/16	8-7/8	12-3/8
BPDH25	20	16-3/16	6-9/16	8-7/8	12-3/8

Dimensions (in inches) are for estimating purposes only.

PERFOR	PERFORMANCE (Capacity in gallons per minute)																			
Disch.			DH10 - 1					H15 - 1.	5 HP			BPD)H20 - 2	2 HP			BPD	H25 - 2.	.5 HP	
Press.	Press. Distance Above Water																			
PSI	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'	5'	10'	15'	20'	25'
10	53	52	50	48	46	67	66	64	61	59	70	69	67	64	62	90	88	86	82	80
20	45	42	39	37	35	59	56	54	50	47	61	59	56	53	50	79	76	72	70	65
30	35	31	27	24	18	48	44	40	37	32	50	48	44	41	37	66	62	57	55	50
40	17	10				31	26	20	10		36	33	25	23	19	50	45	42	37	32
50											16	9				30	23	20		

PUMP PERFORMANCE



 ${\tt NOTE:}\ Dotted\ lines\ indicate\ performance\ reduction\ at\ high\ suction\ lift.$

166 CB4870WS

Self-priming centrifugal pumps





Suction flange with flapper check included.



Some of the fastest priming pumps on the market. Available in high head or medium head series. Features mechanical seals, easy service design, heavy-duty motors, rugged construction. Available in 3 and 5 HP.

Optional 6" and 8" Trap Packages are available.

APPLICATIONS

Lawn Sprinkling...operate from 1 to 30 or more heads. Can be safely operated by timer or other automatic device.

Contractors...for dewatering excavation, jetting, water transfer and supply operations.

Agriculture...seed bed and plot irrigation, stock watering, fire protection.

Industrial...sump drainage, fire protection, marine pumping, liquid transfer and supply operations.

SPECIFICATIONS

Body and Base: Close-grained cast iron

Impeller: Bronze **Diffuser:** Cast iron

Shaft: Carbon steel inside removable shaft sleeve of stainless steel.

Max Inlet Pressure: 20 PSI

Max Discharge Pressure: 100 PSI
Max Liquid Temperature: 60°C/140°F
Max Ambient Air Temperature:

40°C/104°F

FEATURES

3 and 5 HP: Both high head and medium head models offer heavy-duty motors, easy service design, and air volume control tapping.

Drain Port: Provided for easy winterizing.

Medium Head Models: Deliver up to 115' of head with capacities to 159 GPM.

High Head Models: Deliver up to 138' of head with capacities to 162 GPM.

Easy Serviceability: Normal wearing parts are easily accessible for service and replacement, without disturbing piping or mounting.

Heavy-Duty Motors: Designed for continuous operation. Capacitor start, will not cause electrical interference with TV or other appliances. Nationally known motors have ball bearing, stainless steel shaft. For single- and three-phase operation, 3450 RPM.

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Self-priming centrifugal pumps

			HIGH HEAD	1		_	
Catalog	HP	Pipe Tapp	ing Sizes	Matau Valtana	Phase	Max. Load	
Number	пР	Suction Flanges	Top Discharge	Motor Voltage	Phase	Amps	Approx. Wt. Lbs.
S40094	3	2"	1-1/2"	230	1	13.4	144
S40093	3	2"	1-1/2"	208-230/460	3	8.6/4.3	144
S40097	5	2-1/2"	2"	230	1	22	184
S40096	5	2-1/2"	2"	208-230/460	3	13.2/6.6	184
			MEDIUM HEA	VD			
S40100	3	2-1/2"	2"	230	1	13.4	137
S40099	3	2-1/2"	/2"	208-230/460	3	8.6/4.3	137
S40102	5	3"	2-1/2"	230	1	22	184
S40103	5	3"	2-1/2"	2230/460	3	13.2/6.6	184

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SUCTION FLAN	SUCTION FLANGES (Order separately – required for suction tap sizes)										
Package 52 -	Package 52 - Package 53 - Package 72 - Package 73 -										
1-1/2" 2" 2-1/2" 3"											







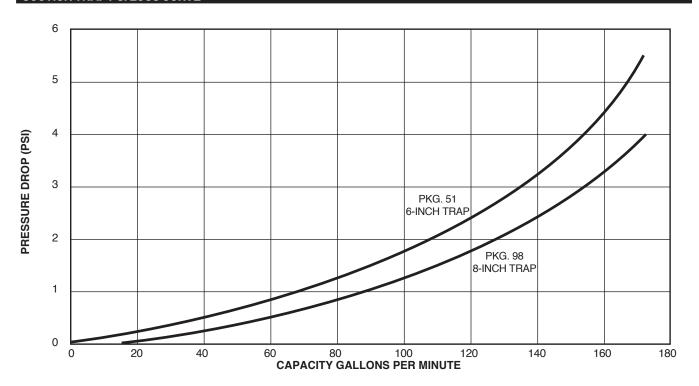
2-1/2" 3" NPT

Self-priming centrifugal pumps

6" AND 8" TRAP PACKAGES										
Catalog Number	Catalog Number Description Suction									
PKG 51	6" Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	2" NPT	20							
PKG 76	Cast Iron Flange for Remote Installation	3" NPT	4							
PKG 98	8" Cast Iron Trap with Basket (For C, CC, and D Series Pumps)	3" NPT	40							

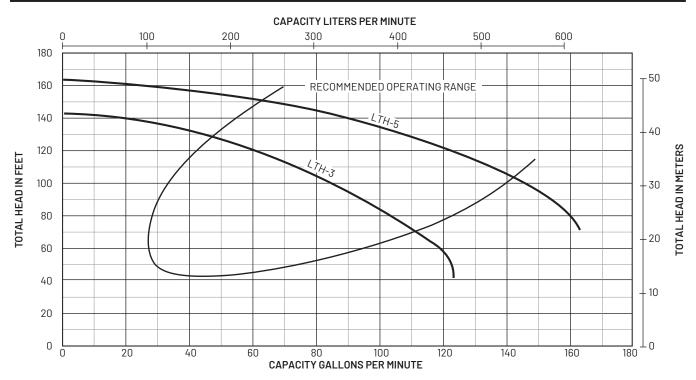


SUCTION TRAP PSI LOSS CURVE



Self-priming centrifugal pumps

PUMP PERFORMANCE: HIGH HEAD

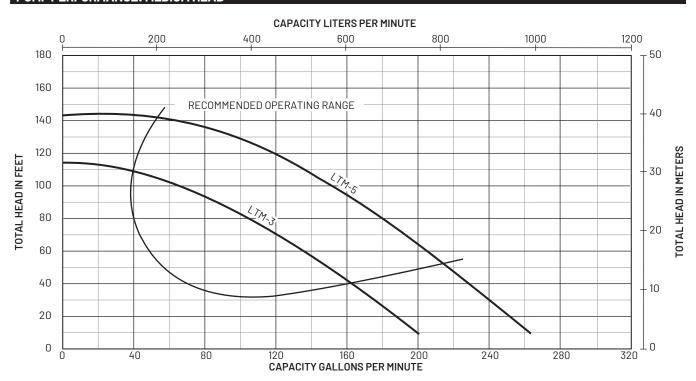


PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

LTH HIGH HEAD Discharge **Suction Lift in Feet** HP Cat. No. **PSI Feet Head** 10' 20' 46.2 69.3 S40094/ S40093 92.4 115.5 46.2 69.3 S40097/ 92.4 S40096 115.5 138.6

Self-priming centrifugal pumps

PUMP PERFORMANCE: MEDIUM HEAD



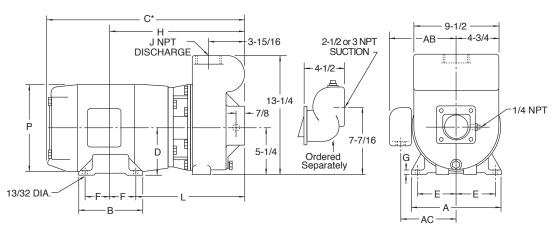
PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)

	LTH MEDIUM HEAD										
0.1 N	HP	Discl	narge	Suction Lift in Feet							
Cat. No.		PSI	Feet Head	5'	10'	15'	20'	25'			
		20	46.2	159	154	146	138	99			
S40099/ S40100	3	30	69.3	126	118	110	101	86			
340100		40	92.4	85	75	51	26	-			
		20	46.2	214	209	202	194	162			
S40102/	_	30	69.3	185	179	172	165	158			
S40103	5	40	92.4	153	146	139	130	120			
		50	115.5	114	101	85	65	28			

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Self-priming centrifugal pumps

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

DIMENSIONS IN	DIMENSIONS IN INCHES													
Catalog Number	HP	Α	В	C*	D	E	F	G	Н	J	L	Р	AB	AC
LTH	3	9	6	20-3/4	4-1/2	3-3/4	2-1/4	1/2	15	1 - 1/2"	12-3/4	9-3/4	8-1/8	6-1/2
LTH	5	9	7	21-3/4	4-1/2	3-3/4	2-3/4	1/2	15-1/2	2"	12-3/4	9-3/4	9	7
LTM	3	9	6	20-3/4	4-1/2	3-3/4	2-1/4	1/2	15	2"	12-3/4	9-3/4	8-1/8	6-1/2
LTM	5	9	7	21-3/4	4-1/2	3-3/4	2-3/4	1/2	15-1/2	2 - 1/2"	12-3/4	9-3/4	9	7

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*Overall length (C) is shown for single-phase motors. Three-phase motors are slightly smaller. Dimensions are for estimating purposes only. Pump body has additional built in 1-1/2" NPT side discharge tap.

Type C Straight Centrifugal



The Type C Pump is a compact, horizontal, single stage, centrifugal pump close-coupled to an electric motor. The removal of readily accessible bolts (back pull-out construction), permits the removal of the pumping element, exposing the impeller and seal for inspection, without disturbing the piping..

APPLICATIONS

General farm or home irrigation, air conditioning, and refrigeration.

SPECIFICATIONS

Body and Base: Gray cast iron

Bracket: Cast iron Impeller: Silicon bronze

Shaft: Threaded stainless steel

ORDERING INFORMATION									
Model Number	HP	Catalog Number	Phase	Volts	Suct.	Disch.	Approx. Wt. Lbs.		
C1-1/4TPMS		B53602S	1	230			65		
	1	B53603S	3	208/230/460	1-1/2"	1-1/4"			
		B53603SMS2	3	575					
01 1/0TDM0	3	B59212S	1	230	2"	1-1/2"	61		
C1-1/2TPMS	٦	B59213S	3	208/230/460	2	1-1/2	01		
		B53616S	1	230					
C2MPS	3	B53617S	3	208/230/460	2-1/2"	2"	61		
		B53617SMS2	3	575					

FEATURES

Flow Rates: In excess of 160 U.S. gallons

per minute

Operating Pressure: 100 PSI Discharge sizes: 1-1/4" - 2" Temperature: Up to 200 F

Volute Case: Precision machined gray cast iron with NPT tapped openings for suction and discharge. Standard discharge position is horizontal, as pictured. Volute may be rotated for

vertical-up discharge

Impeller: Enclosed multi-vane silicon bronze impeller is balanced to eliminate vibration and provide smooth, quiet operation. Impeller is threaded on motor

shaft for positive alignment

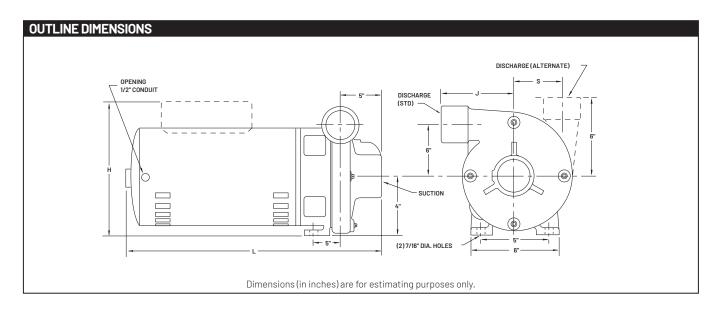
Motor Shaft: Stainless steel shaft is threaded for direct mounting of impeller. A short shaft extension to the impeller increases shaft rigidity and extends bearing life

Motor: Heavy-duty, 3 HP, flangemounted motor designed for continuous 3600 RPM operation. Two ball bearings are permanently lubricated, eliminating the need for re-lubrication service. Open, drip-proof enclosures are standard. All models can be furnished with either singlephase (230V) or three-phase (230/460) motors. Totally enclosed fancooled motor is avail able for three-

phase power

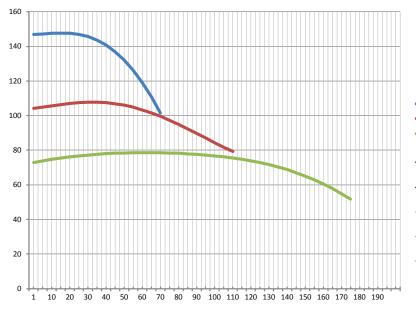
173 CB5040WS

Type C Straight Centrifugal



DIMENSIONAL DATA										
Model Number	НР	Suction (NPT)	Discharge Phase	H*	J	К	L*	s	М	
C1-1/4TPMS	3	1-1/2	1-1/4	9-1/4	5	2-1/2	16-15/16	3-5/16	1-7/8	
C1-1/2TPHS	3	2	1-1/2	8-1/4	5	2-11/16	17-1/4	3-1/2	2	
C2MPS	3	2-1/2	2	9-1/4	4-7/8	2-5/16	17-1/4	3-1/16	2-7/16	

PUMP PERFORMANCE





BASIC	IMP DIA	PEI _{CL}		
C1-1/4TM	5.94	0.70		
C1-1/2TH	4.88	0.83		
C2M	4.50	0.89		

174 CB5040WS

ECC5 Series

Self-priming centrifugal pump





The ECC5 Series self-priming centrifugal pump is a rugged cast iron pump capable of priming up to 20' vertically and will handle solids up to 0.225" diameter. The unit is equipped with a 1/2 HP 115-volt motor and features 1-1/4" suction and discharge.

APPLICATIONS

Effluent and Wastewater Removal
Sump Drainage
Dewatering
Circulation
Fountains

UL778/CSA1

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SPECIFICATIONS

Volute: Cast iron

Impeller: Polycarbonate **Diffuser:** Thermoset

Shaft: One-piece threaded stainless steel

Base: Steel 12 gauge

Maximum Liquid Temperature Limits:

130°F (55°C)

FEATURES

Motor: 1/2 HP, 3450 RPM, 115-volt split phase, 60 Hz. Built-in thermal overload protection with automatic reset.

Mechanical Seal: Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal part.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation.

Built-in Convenience: Comes complete with built-in overload protection with automatic reset and a built-in check valve.

Power Cord: 10', 115 volt.

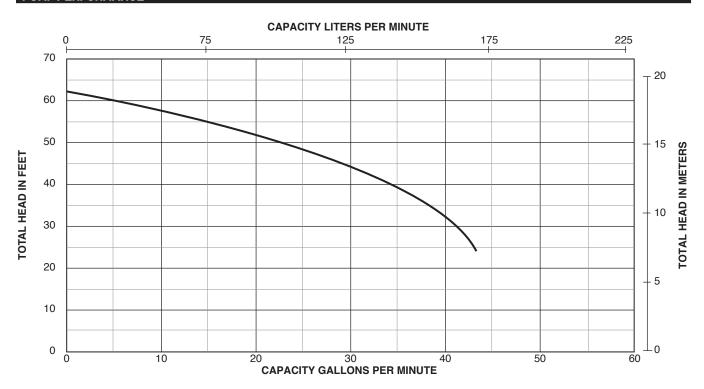
ORDERING INFORMATION								
Catalog Number	HP	Volts	Phase/Cycles					
ECC5510MB	1/2	115	1/60					

CB5636WS

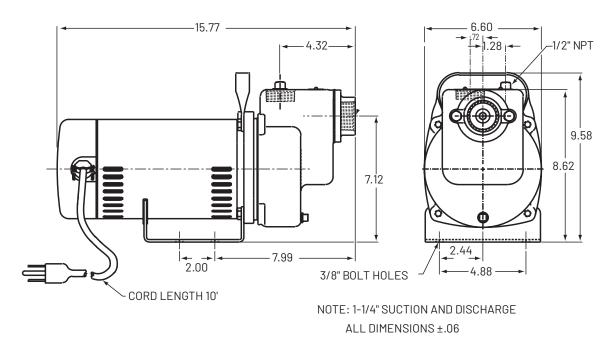
ECC5 Series

Self-priming centrifugal pump

PUMP PERFORMANCE



OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

176 CB5636WS

SSCXN Series - Stainless Steel



The SSCXN Series Centrifugal Pumps feature high-head performance and quiet operation. These pumps are remarkably versatile and have corrosion-resistant dependability.

APPLICATIONS

Ideal choice for a wide range of pump applications and varying temperature conditions

SPECIFICATIONS

Pump Body - Stainless steel Impeller - Noryl Multiple Seal Options

FEATURES

Stainless Steel Housing and Shaft -

Maximum corrosion resistance in chemical as well as water applications; smooth flow path assures quiet operation.

High Temperature Rating - The SSCXN Series centrifugal pumps are designed for temperatures up to 185°F.

Mechanical Shaft Seal - Precision lapped and highly polished carbonceramic, stainless steel construction with buna elastomers; delivers long-life reliability.

Multiple Seal Options – Choice of three seal options to meet a wide variety of pump applications.

- The standard seal in a SSCX Series is a Buna carbon/ceramic. The volute uses a Buna 0-ring to seal the pumping chamber sections.
- Viton with carbon/ceramic faces, includes Viton 0-ring change out in pump volute.
- Viton with carbon/silicon carbide faces, includes Viton O-ring change out in pump volute.

Noryl Composite Impeller – Precision molded for perfect balance and lasting quality; ultra-smooth flow ports maximize performance and efficiency. 304SS impeller insert for increased durability.

Drain/Vent Ports – Priming and draining is easier, faster.

Max. Operating Pressure - 125 PSI

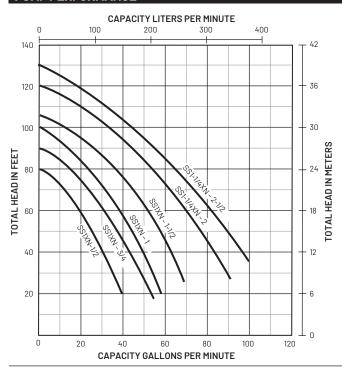
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SSCXN Series - Stainless Steel

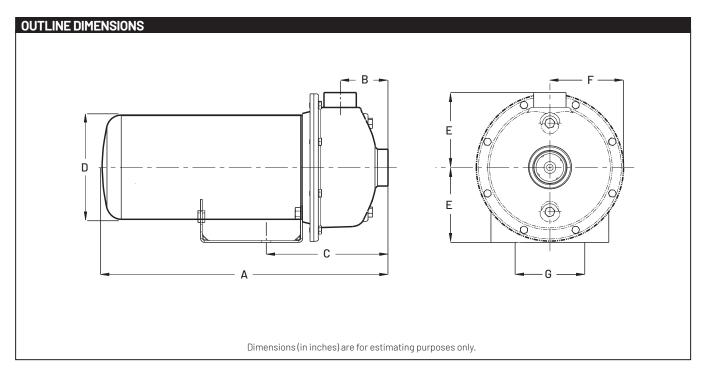
ORDERING INFO	RMATION							
MODEL NUMBER	CATALOG NUMBER	HP	SUCTION	DISCHARGE	MOTOR VOLTAGE	PHASE	ENCLOSURE	APPROX. WT. LBS.
	B78635				115/230	1	ODP	29
001//N 1/0	B78636	1/0		1"	230/460	3	ODP	29
SS1XN-1/2	B78647	1/2	1-1/4"	'	115/230	1	TEFC	32
	B78648				230/460	3	TEFC	32
	B78637		1-1/4"	1" -	115/230	1	ODP	38
001/N 7//	B78638	3/4			230/460	3	ODP	38
SS1XN-3/4	B78649				115/230	1	TEFC	41
	B78650				230/460	3	TEFC	41
-	B78639	1	1-1/4"	1"	115/230	1	ODP	47
	B78640				230/460	3	ODP	47
SS1XN-1	B78651	'			115/230	1	TEFC	50
	B78652				230/460	3	TEFC	50
	B78641				115/230	1	ODP	62
SS1XN-1-1/2	B78642	1 1/0	1 1//"	1"	230/460	3	ODP	62
221XIV-1-1/ Z	B78653	1-1/2	1-1/4"		115/230	1	TEFC	65
	B78654				230/460	3	TEFC	65
CC1 1// VNL 0	B78643	0	1 1/0"	1 1//."	230	1	ODP	77
SS1-1/4XN-2	B78644	2	1-1/2"	1-1/4"	230/460	3	ODP	77
001 1//VN 0 1/0	B78645	0.1/0	1 1/0"	1 1//."	230	1	ODP	90
SS1-1/4XN-2-1/2	B78646	2-1/2	1-1/2"	1-1/4"	230/460	3	ODP	90

PUMP PERFORMANCE



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SSCXN Series - Stainless Steel



DIMENSIO	DIMENSIONS IN INCHES - SSCXN OPD											
HP	NPT Suct.	NPT Disch.	A (1 phase)	A (3 phase)	В	С	D	Е	F	G		
1/2	1-1/4	1	13.2	13.5	2.43	6.51	5.63	4.13	4.06	4.875		
3/4	1-1/4	1	13.2	13.5	2.43	6.51	5.63	4.13	4.06	4.875		
1	1-1/4	1	14.2	14.0	2.43	6.51	5.63	4.13	4.06	4.875		
1-1/2	1-1/4	1	14.5	14.5	2.43	6.51	5.63	4.13	4.06	4.875		
2	1-1/2	1-1/4	16.0	15.7	2.63	6.71	5.63	4.13	4.06	4.875		
2-1/2	1-1/2	1-1/4	16.9	16.4	2.63	6.71	5.63	4.13	4.06	4.875		

DIMENSIO	DIMENSIONS IN INCHES - SSCXN TEFC										
HP	NPT Suct.	NPT Disch.	A (1 phase)	A (3 phase)	В	С	D	Е	F	G	
1/2	1-1/4	1	14.0	14.2	2.43	6.51	6.44	4.13	4.06	4.875	
3/4	1-1/4	1	14.9	14.2	2.43	6.51	6.44	4.13	4.06	4.875	
1	1-1/4	1	15.7	15.2	2.43	6.51	6.44	4.13	4.06	4.875	
1-1/2	1-1/4	1	16.2	15.2	2.43	6.51	6.44	4.13	4.06	4.875	

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CB2051WS

CP/CB Series

General purpose centrifugal pumps



The CP/CB Series Pumps feature heavy-duty cast iron construction and are offered in high and medium head models, with Noryl® or silicon bronze impellers.

APPLICATIONS

Water Systems and Sprinkling – for homes, farms, and industry

SPECIFICATIONS

Volute and Seal Plate: close-grained cast iron

Impellers: CP Series = Noryl; **CB Series** = silicon bronze

Base Plate: 12 gauge stamped steel **Motor Shaft:** 300 series stainless steel **Mechanical Seal:** Carbon ceramic faces,

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BUNA-N cup and bellows

FEATURES

1/2hp through 2-1/2hp: high head performance models, heavy-duty motors, easy serviceability, and four-position discharge

Drain Port: provided for easy winterizing

Performance Range, High Head Models: up to 150'+ of head, with capacities to over 100 gpm.

Performance Range, Medium Head Models: up to 100'+ of head, with capacities to over 110 qpm.

Easy Serviceability: all models feature a replaceable wear ring, and a back pull-out design

CP Series - Noryl Impellers: abrasion resistant for normal applications and working temperatures to 140 F

CB Series – Silicon Bronze Impellers: include shaft seals rated for working temperatures to 225 F

CB5041WS

CP/CB Series General PurposeGeneral Purpose - Cast Iron

ORDERING INFORMA	ΙП	ON	1
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Norvi'i	Impeller	Silicon Bro	nze impeller		Ding To	ping Sizes			Δ
Model Number	Catalog Number	Model Number	Catalog Number	HP	Suct.	Disch.	Motor Voltage	Phase	Approx. Wt. Lbs.
CP1XPHS	S39516	CB1XPHS	S39529		1-1/4"	1"	115/230	1	39
CP1XPHS	S39517	CB1XPHS	S39530	1/2	1-1/4"	1"	208-230/460	3	39
CP1XPHS	S39517-575T	CB1XPHS	S39530-575T		1-1/4"	1"	575	3	40
CP1XPHS	S39518	CB1XPHS	S39531		1-1/4"	1"	115/230	1	42
CP1XPHS	S39519	CB1XPHS	S39532	3/4	1-1/4"	1"	208-230/460	3	42
CP1XPHS	S39519-575T	CB1XPHS	S39532-575T		1-1/4"	1"	575	3	43
CP1XPHS	S39520	CB1XPHS	S39533		1-1/4"	1"	115/230	1	45
CP1XPHS	S39521	CB1XPHS	S39534	1	1-1/4"	1"	208-230/460	3	45
CP1XPHS	S39521-575T	CB1XPHS	S39534-575T		1-1/4"	1″	575	3	46
CP1XPHS	S39522	CB1XPHS	S39535		1-1/4"	1″	115/230	1	49
CP1XPHS	S39523	CB1XPHS	S39536	1-1/2	1-1/4"	1″	208-230/460	3	49
CP1XPHS	S39523-575T	CB1XPHS	S39536-575T		1-1/4"	1″	575	3	50
CP1-1/4TPHS	S39524	CB1-1/4TPHS	S39537		1-1/2"	1-1/4"	115/230	1	69
CP1-1/4TPHS	S39525	CB1-1/4TPHS	S39538	2	1-1/2"	1-1/4"	208-230/460	3	69
CP1-1/4TPHS	S39525-575T	CB1-1/4TPHS	S39538-575T		1-1/2"	1-1/4"	575	3	70
CP1-1/2TPHS	S39526	CB1-1/2TPHS	S39539		2″	1-1/2"	115/230	1	74
CP1-1/2TPHS	S39527	CB1-1/2TPHS	S39540	2-1/2	2″	1-1/2"	208-230/460	3	74
CP1-1/2TPHS	S39527-575T	CB1-1/2TPHS	S39540-575T		2"	1-1/2"	575	3	75
MEDIUM HEAI	D								
Noryl I	lmpeller	Silicon Bronze Impeller							Approx
Model	Model Catalog		Catalog	HP	Pipe Tap	pping Sizes	Motor Voltage	Phase	Wt.
Number	Number	Number	Number		Suct.	Disch.	Voltage		Lbs.
CP1MPS	S39489	-	-	1/3	1-1/4"	1″	115	1	39
CP1MPS	S39490	CB1MPS	S39503		1-1/4"	1″	115/230	1	39
CP1MPS	S39491	CB1MPS	S39504	1/2	1-1/4"	1″	208-230/460	3	39
CP1MPS	S39491-575T	CB1MPS	S39504-575T		1-1/4"	1″	575	3	40
CP1MPS	S39492	CB1MPS	S39505		1-1/4"	1″	115/230	1	42
CP1MPS	S39493	CB1MPS	S39506	3/4	1-1/4"	1″	208-230/460	3	42
CP1MPS	S39493-575T	CB1MPS	S39506-575T		1-1/4"	1″	575	3	43
CP1-1/4XPS	S39494	CB1-1/4XPS	S39507		1-1/2"	1-1/4"	115/230	1	43
CP1-1/4XPS	S39495	CB1-1/4XPS	S39508	1	1-1/2"	1-1/4"	208-230/460	3	43
CP1-1/4XPS	S39495-575T	CB1-1/4XPS	S39508-575T		1-1/2"	1-1/4"	575	3	44
CP1-1/4XPS	S39496	CB1-1/4XPS	S39509		1-1/2"	1-1/4"	115/230	1	54
CP1-1/4XPS	S39497	CB1-1/4XPS	S39510	1-1/2	1-1/2"	1-1/4"	208-230/460	3	54
CP1-1/4XPS	S39497-575T	CB1-1/4XPS	S39510-575T	. 1/ =	1-1/2"	1-1/4"	575	3	55
CP1-1/4XPS	S39498	CB1-1/4XPS	S39511		1-1/2"	1-1/4"	230	1	66
	S39499	CB1-1/4XPS	S39512	2	1-1/2"	1-1/4"	208-230/460	3	66
CP1_1//,YP9	503433			۷		1-1/4"	575	3	67
CP1-1/4XPS	\$30400_E7ET	CB1_1//\VD9							
CP1-1/4XPS CP1-1/4XPS	S39499-575T	CB1-1/4XPS	S39512-575T		1-1/2"	1			
CP1-1/4XPS		CB1-1/2XPS	S39513	0 1/0	2"	1-1/2"	115/230	1	74
CP1-1/4XPS	S39499-575T vailable			2-1/2	1	1			

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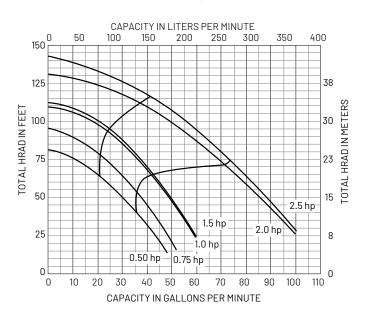
CB5041WS

CP/CB Series

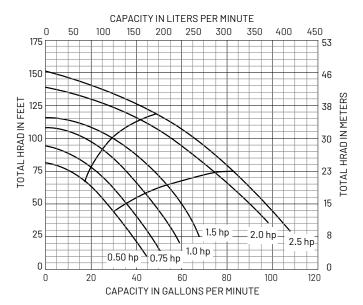
General purpose centrifugal pumps

PUMP PERFORMANCE: HIGH HEAD

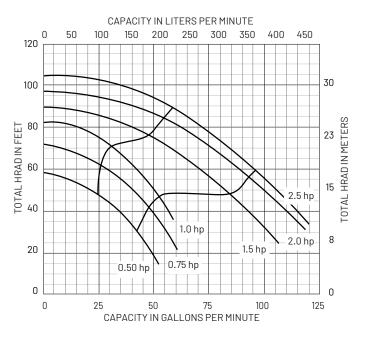
PUMP PERFORMANCE: HIGH HEAD, SILICON BRONZE IMPELLER



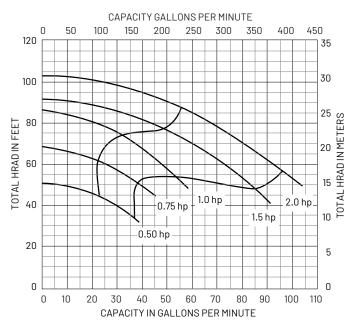
PUMP PERFORMANCE: HIGH HEAD, NORYL® IMPELLER



PUMP PERFORMANCE: MEDIUM HEAD, SILICON BRONZE IMPELLER



PUMP PERFORMANCE: MEDIUM HEAD, NORYL IMPELLER



Tested and rated in accordance with Water Systems Council Standards.

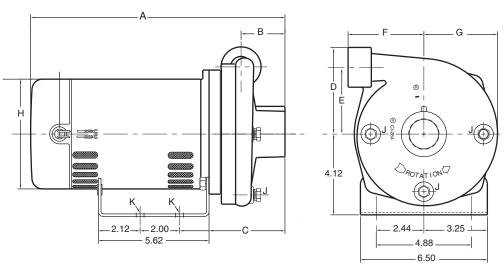
NOTE: Pumps installed with a Pro-Source at 100 PSI relief valve. Pumps with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

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CP/CB Series

General purpose centrifugal pumps

OUTLINE DIMENSIONS



Dimensions (in inches) are for estimating purposes only.

DIMENSIONS (IN INCHES)													
	HIGH HEAD												
HP	NPT Suct.	NPT Disch.	A (1 Phase)	A (3 Phase)	В	С	D	E	F	G	н	NPT J	К
1/2	1-1/4	1	11-21/32	13-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
3/4	1-1/4	1	11-25/32	13-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
1	1-1/4	1	12-25/32	13-7/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
1-1/2	1-1/4	1	13-39/64	14-3/8	2-1/16	5-9/16	4-1/2	3-7/16	3-7/8	3-15/16	5-5/8	1/4	3/8 Dia.
2	1-1/2	1-1/4	16-3/4	16-15/16	2-13/16	6-5/16	4-27/32	3-13/32	4-5/8	4	6-7/16	1/4	3/8 Dia.
2-1/2	2	1-1/2	17-3/4	17-1/4	2-13/16	6-5/16	4-27/32	3-13/32	4-5/8	4	6-7/16	1/4	3/8 Dia.
						MEDIUM I	HEAD						
1/2	1-1/4	1	11-7/32	12-15/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
3/4	1-1/4	1	11-31/32	12-15/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
1	1-1/2	1-1/4	12-11/32	13-7/16	1-7/16	5-1/8	4-7/16	3-1/4	2-1/4	3-1/4	5-5/8	1/4	3/8 Dia.
1-1/2	1-1/2	1-1/4	13-25/32	14-9/16	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	5-5/8	1/4	3/8 Dia.
2	1-1/2	1-1/4	16-3/16	16-3/8	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	6-7/16	1/4	3/8 Dia.
2-1/2	2	1-1/2	17-3/16	16-11/16	2	5-3/4	4-13/16	3-1/2	4-1/4	3-15/16	6-7/16	1/4	3/8 Dia.

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Pro-Source® Pumper Series

Engine-driven pumps



Lightweight, corrosion-resistant, engineered composite pump construction make this enginedriven pump extremely versatile for applications where electrical power is not available.

Powered by a powerful 6-1/2 HP, PowerPro 4-cycle gasoline engine, rated for continuous-duty, equipped with professional-grade features like an automatic low-oil safety cut, manual throttle, choke and shut-off controls. Securely mounted within a rugged steel framed rollcage, reinforced with steel cross-members, coated for corrosion resistance, equipped with noisedampening, non-slip rubber feet.

Suction lift capability of 25 feet.

APPLICATIONS

Water Transfer and Supply Sprinkler Turf Irrigation

Dewatering

Fire Protection

Agriculture, Light Commercial and Marine

ORDERING INFORMATION Catalog Number HP Description Pipe Tapping Sizes Approx. Wt. Lbs./Kg EDP55RV 6-1/2 Engine-driven pump w/rollcage 2" NPT 2" NPT 46/20.9

ACCESSORIES						
Catalog Number	Description	Approx. Wt. Lbs./Kg				
FP2735	2" x 15' Suction Hose Kit	15/6.8				
FP2731	2" x 25' Discharge Hose Kit	6/2.7				



FP2735 Suction



FP2731 Discharge Hose Kit

SPECIFICATIONS

Body: Reinforced corrosion-resistant thermoplastic

Impeller: Polymer

Diffuser: Reinforced corrosion-resistant thermoplastic

O-rings: Viton

Seals: Viton mechanical

Check Valve: Viton

Rollcage: Coated steel frame with cross-member and stay-in-place (no-slip)

rubber feet

Engine: 6-1/2 HP

Dimensions: 21"H x 17"D x 21"L **Fasteners:** 300 grade stainless steel

FEATURES

Rugged Lightweight Design

Corrosion-Resistant Composite Pump Construction

Chemical-Resistant Viton Seals, O-rings with Stainless Steel Fasteners

Built-in Check Valve

ACCESSORIES

Suction Hose Kit: Built-in 2" NPTF swivel fitting and 2" NPTM fitting for easy hookup; coil-reinforced wall prevents collapse; includes aluminum suction screen to prevent debris from reaching pump

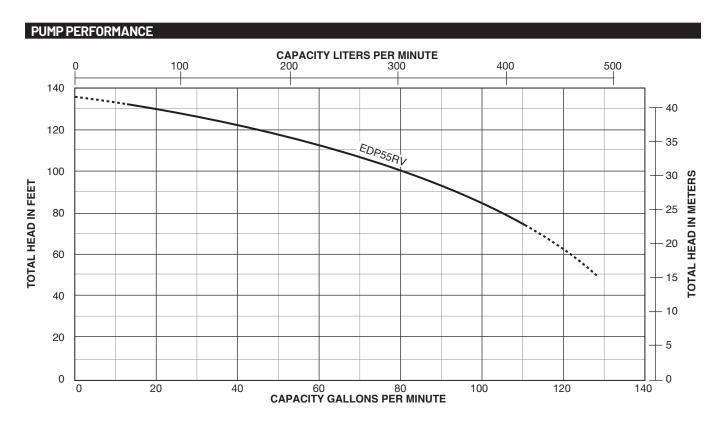
Discharge Hose Kit: Built-in

2" NPTF swivel fitting and 2" NPTM fitting for easy hookup; collapsible for easy roll-up and storage; reinforced wall adds durability

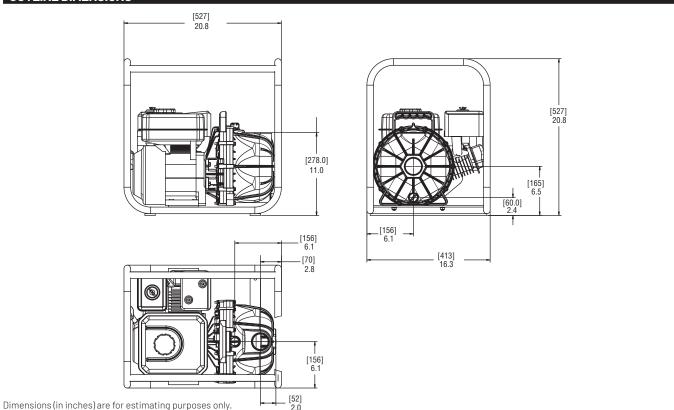
184 CB6212WS

Pro-Source® Pumper Series

Engine-driven pumps



OUTLINE DIMENSIONS



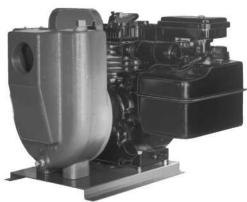
185

CB6212WS

EDD/EEDD Series

Engine-driven self-priming pumps





Series EEDDH

186

ORDERING INFORMATION							
Catalog	НР	Description	Fuel Tank	Pipe Tapp	Approx. Wt.		
Number	HP	Description	Size	Suction	Discharge	Lbs.	
EDDH	3	Gasoline-powered pump	3 Quarts	2"	2"	65	
EEDDH	3	Gasoline-powered pump	3 Quarts	2"	2"	70	
EEDD	-	Gasoline-powered pump	-	2"	2"	38	

Design Series EDDH - Engine-driven without stub shaft Design Series EEDDH - Engine-driven with stub shaft Design Series EEDD - Stub shaft pump only These engine-driven centrifugal pumps can be used where electrical power is not available. Powerful 4-cycle gasoline engines get the job done faster and more efficiently.

Close-coupled EDDH has pump and engine close-coupled on all-steel base...16" long, 14" wide and 13-1/8" high. EDDH features 5/8" diameter, ductile iron threaded shaft extension.

Frame-mounted EEDDH features pump and engine frame-mounted on all-steel base...18-11/16" long, 14" wide and 13-1/8" high. Stub shaft allows easy replacement with other gasoline-powered engines. EEDDH has 3/4" diameter keyed ductile iron shaft extension.

Order Catalog No. EEDD for pump end only, supplied without engine, to be used with 5/8" or 3/4" shaft in gasolineengine-driven applications. Pump is identical in design to stub-shaft EEDDH.

SPECIFICATIONS

Body: Close-grained cast iron

Impeller: Cast iron
Diffuser: Cast iron
Diffuser Ring: Buna-N
Stub Shaft (EEDD only):

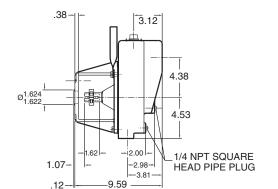
416 stainless steel

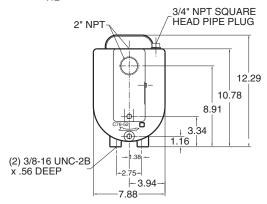
CB4524WS

EDD/EEDD Series

Engine-driven self-priming pumps

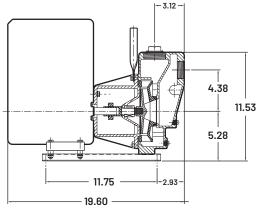
OUTLINE DIMENSIONS: EEDD

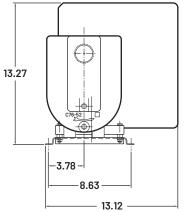




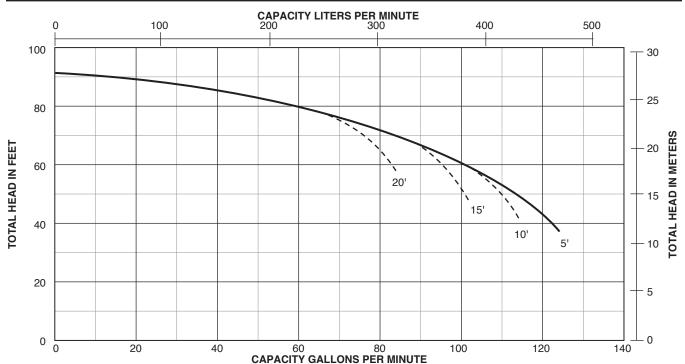
Dimensions (in inches) are for estimating purposes only.

OUTLINE DIMENSIONS: EEDDH





PUMP PERFORMANCE



NOTE: Dotted lines indicate performance reduction at high suction lift.

187 CB4524WS

Water Systems Product Nomenclature

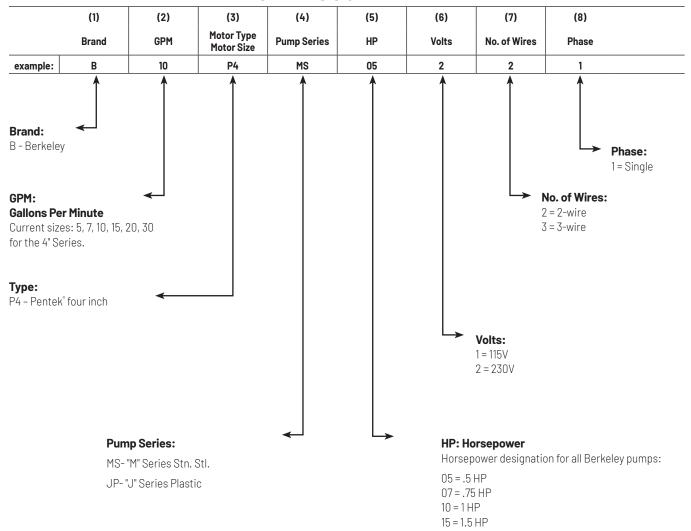
Berkeley® Catalog Numbers define products for you.

The following paragraphs describe number assignments and their meanings for 4" submersibles, jets and small centrifugal pumps.

4" SUBMERSIBLE PUMP CATALOG NUMBERS

Submersible pump catalog numbers are patterned like this:

B10P4MS05221



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Water Systems Product Nomenclature

JET PUMP CATALOG NUMBERS

Jet pump catalog numbers are patterned like this:

5SN-L

	(1)	(2)	(3)	
	HP	type	dash#	
example:	5	SN	-L	

(1) HP: HORSEPOWER

Horsepower designation for all Berkeley Pumps:

5 = 1/2 HP 15 = 1-1/2 HP 7 = 3/4 HP 20 = 2 HP 10 = 1 HP 25 = 2-1/2 HP

(2) type - First Letter in DESIGN SERIES
Second Letter (N) - Shallow Well
(L) - Deep Well

(3) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

SMALL CENTRIFUGAL PUMP CATALOG NUMBERS

Centrifugal pump catalog numbers are patterned like this:

10LTHH

	(1)	(2)	(3)	(4)	(5)
	HP	type	head	PH	dash#
example:	10	LTH	Н	3	-01

(1) HP-HORSEPOWER

Horsepower designation for all BERKELEY pumps:

5 = 1/2 HP 15 = 1-1/2 HP 7 = 3/4 HP 20 = 2 HP 10 = 1 HP 25 = 2-1/2 HP

(2) type - PUMP DESIGN SERIES

(3) head - HEAD DESIGN

H = high head

M = medium head

(4) PH-PHASE

3 = 3 phase

(5) dash# - ENGINEERING SERIES NUMBER (dash number)

Indicates product improvements.

STEEL TANK CATALOG NUMBERS

Steel tank catalog numbers are patterned like this:

PS19T

	(1)	(2)	(3)
	type	size	dash#
example:	PS	19T	-T02

(1) type: TANK DESIGN SERIES

(2) S = "short" stand-up type
T = "tall" stand-up type
H = "horizontal" pump mount type

(3) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

FIBREWOUND TANKS

Fibrewound tank catalog numbers are patterned like this:

PSC-35-10

	(1)	(2)	(3)	(4)
	type	size	drawdown	dash#
example:	PSC	35	-10	-01

(1) type: TANK DESIGN SERIES

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(2) size: Tank vessel capacity in U.S. gallons

(3) drawdown: U.S. gallons drawdown with a 30-50 system pressure

(4) dash#: ENGINEERING SERIES NUMBER (dash number)

Indicates small product improvements.

CB5064WS

Sizing Home Water Systems

Pentair has developed the following "Rule of Thumb" formula for sizing home water systems that will be applicable in many instances:

Simply count the fixtures and water outlets in the home. This method bases the approximate pumping capacity on use at the rate of a gallon per minute per fixture, and avoids the possibility of undersizing.

For instance, let us assume you count the following list of fixtures and water outlets in your home:

Kitchen:	Sink/Dishwasher (count as 1 fixture)	1 1		
Bath:	Lavatory Tub Toilet	1 1 1		
Powder Room:	Lavatory Toilet	1		
Laundry and Utility Room:				

Automatic washing machine
(count as one fixture) 1
Laundry tubs 1
Shower 1
Outdoor faucets 2

Total fixtures and outlets

Be sure that your pump installer provides a water system that will deliver 12 gallons per minute at the desired pressure.

Average Water Requirements for General Service Around the Home and Farm

Each person per day, for all purposes	50 gal.
Each horse, dry cow or beef animal per day	12 gal.
Each milking cow per day	35 gal.
Each hog per day	4 gal.
Each sheep per day	2 gal.
Each 100 chickens per day	4 gal.

Average Amount of Water Required By Various Home and Yard Fixtures

Drinking fountain, continuously flowing,	50 to 100 gal. per day
Each shower bath	Up to 60 gal.
To fill bathtub	30 gal.
To flush toilet	6 gal.
To fill lavatory	2 gal.
To sprinkle 1/4" of water on each	
1000 sq. feet of lawn	160 gal.
Dishwasher – per load	3 gal.
Automatic washer – per load	Up to 50 gal.
Regeneration of domestic water softener	50-100 gal.

Average Flow Rate Requirements by Various Fixtures

(GPM equals gallons per minute; GPH equals gallons per hour)

Shower	4 to 6 GPM
Bathtub	4 to 8 GPM
Toilet	4 to 5 GPM
Lavatory	1 to 3 GPM
Kitchen sink	2 to 3 GPM
1/2" hose and nozzle	200 GPH
3/4" hose and nozzle	300 GPH
Lawn sprinkler	120 GPH

Pounds Pressure - Feet of Head

Each pound of pressure developed by a pumping system is equal to 2.31 feet of head (feet of lift). Therefore, 10 pounds of pressure (PSI) will lift water vertically 23.1 feet. The following chart converts pressure to feet of head at various settings from 1 to 100 PSI.

This can be calculated for any setting using the following formula:

Pounds per Sq. Inch = <u>Head in Feet</u> 2.31

Head in Feet = Pounds per Sq. In. x 2.31

CONVERSION TABLE

POUNDS PRESSURE/FEET OF HEAD									
Pounds Pressure	Feet of Head								
1	2.31								
5	11.6								
10	23.1								
15	34.7								
20	46.2								
25	57.7								
30	69.3								
35	80.8								
40	92.4								
45	103.9								
50	115.5								
60	138.6								
65	150.1								
70	161.7								
75	173.2								
80	184.8								
85	196.3								
90	207.9								
95	219.4								
100	231.0								

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Pipe Friction Loss Charts 1/2"-1-1/4" I.D.

LOSS	S OF H	EAD IN	IFEET	DUE T	O FRIO	CTION	PER 10	O FEE	T OF P	IPE									
		1/2"		3/4"						1"				1-1/4"					
Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID .622"	Steel C=100 ID .622"	Copper C=130 ID .625"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID .824"	Steel C=100 ID .824"	Copper C=130 ID .822"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.049"	Steel C=100 ID 1.049"	Copper C=130 ID 1.062"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.380"	Steel C=100 ID 1.380"	Copper C=130 ID 1.368"
0.5	0.5	0.314	0.582	0.35	1.5	0.9	0.61	1.13	0.7	2	0.74	0.322	0.595	0.345	4	0.9	0 .304	0.564	0.364
1	1.1	1.14	2.1	1.26	2	1.2	1.04	1.93	1.21	3	1.1	0.68	1.26	0.732	5	1.1	0.46	0.853	0.545
1.5	1.6	2.38	4.44	2.67	2.5	1.5	1.57	2.91	1.82	4	1.5	1.15	2.14	1.24	6	1.3	0.649	1.2	0.765
2	2.1	4.1	7.57	4.56	3	1.8	2.21	4.08	2.56	5	1.9	1.75	3.42	1.88	7	1.5	0.86	1.59	1.02
2.5	2.6	6.15	11.4	6.88	3.5	2.1	2.93	5.42	3.4	6	2.2	2.45	4.54	2.63	8	1.7	1.1	2.04	1.31
3	3.2	8.65	16	9.66	4	2.4	3.74	6.94	4.36	8	3.0	4.16	7.73	4.5	10	2.1	1.67	3.08	1.98
3.5	3.7	11.5	21.3	12.9	4.5	2.7	4.66	8.63	5.4	10	3.7	6.31	11.7	6.77	12	2.6	2.33	4.31	2.75
4	4.2	14.8	27.3	16.4	5	3.0	5.66	10.5	6.57	12	4.5	8.85	16.4	9.47	14	3.0	3.1	5.73	3.64
4.5	4.8	18.3	33.9	20.4	6	3.6	7.95	14.7	9.22	14	5.2	11.8	21.8	12.6	16	3.4	3.96	7.34	4.68
5	5.3	22.2	41.2	24.8	7	4.2	10.6	19.6	12.2	16	5.9	15.1	27.9	16.2	18	3.9	4.93	9.13	5.81
5.5	5.8	26.6	49.2	29.5	8	4.8	13.5	25	15.7	18	6.7	18.7	34.7	20.1	20	4.3	6	11.1	7.1
6	6.3	31.2	57.8	34.8	9	5.4	16.8	31.1	19.5	20	7.4	22.8	42.1	24.4	25	5.4	9.06	16.8	10.7
6.5	6.9	36.2	67	40.2	10	6.0	20.4	37.8	23.7	22	8.2	27.1	50.2	28.8	30	6.4	12.7	23.5	15
7	7.4	41.5	76.8	46.1	11	6.6	24.4	45.1	28.2	24	8.9	31.9	59	34	35	7.5	16.9	31.2	20
7.5	7.9	47.2	87.3	52.5	12	7.2	28.6	53	33.2	26	9.7	36.9	68.4	39.7	40	8.6	21.6	40	25.6
8	8.4	53	98.3	59.4	13	7.8	33.2	61.5	38.5	28	10.4	42.5	78.5	45.5	50	10.7	32.6	60.4	38.7
8.5	9.0	59.5	110	66	14	8.4	38	70.5	44.2	30	11.1	48.1	89.2	51.6	60	12.9	45.6	84.7	54.1
9	9.5	66	122	73.5	16	9.6	48.6	90.2	56.6	35	13.0	64.3	119	68.7	70	15.0	61.5	114	72.2
9.5	10.0	73	135	81	18	10.8	60.5	112	70.4	40	14.8	82	152	88	80	17.2	77.9	144	92.4
10	10.6	80.5	149	89.4	20	12.0	73.5	136	83.5	45	16.7	102	189	109	90	19.3	96.6	179	115

NOTE: Recommended velocity is 5 FPS (feet per second) with a maximum of 7 FPS.

RICTION LOSSES T	HROUGH FITTINGS	IN TERMS (F EQUIVALE	ENT LENGTH	IS OF PIPE								
Type Fitting and	Pipe and Fitting	Equivalent Length of Pipe – Nominal Size Fitting and Pipe											
Application	Material (Note 1)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2					
Threaded Adapter	Copper	1	1	1	1	1	1	1					
Plastic or Copper to Thread	Plastic	3	3	3	3	3	3	3					
	Steel	2	3	3	4	4	5	6					
90° Standard Elbow	Copper	2	3	3	4	4	5	6					
	Plastic	4	5	6	7	8	9	10					
Insert Coupling	Plastic	3	3	3	3	3	3	3					
	Steel	4	5	6	8	9	11	14					
Standard Tee	Copper	4	5	6	8	9	11	14					
	Plastic	7	8	9	12	13	17	20					
Gate Valve	Note (2)	2	3	4	5	6	7	8					

Note (1) Loss Figures are based on equivalent lengths of indicated pipe material.

Note (2) Loss Figures for screwed valves are based on equivalent lengths of steel pipe.

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Pipe Friction Loss Charts 1-1/2"-2-1/2" I.D.

LOSS	OF HEAD	IN FEET	DUE TO	FRICTIO	N PER 10	O FEET	OF PIPE								
		1-1/2"					2"			2-1/2"					
Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 1.61"	Steel C=100 ID 1.61"	Copper C=130 ID 1.60"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 2.067"	Steel C=100 ID 2.067"	Copper C=130 ID 2.062"	Flow U.S. Gal. Min.	Velocity Plastic ft/sec	Plastic C=140 ID 2.469"	Steel C=100 ID 2.469"	Copper C=130 ID 2.50"	
4	0.6	0.144	0.267	0.165	10	1.0	0.233	0.431	0.268	20	1.3	0.353	0.654	0.375	
6	0.9	0.305	0.565	0.358	15	1.4	0.495	0.916	0.569	30	2.0	0.75	1.39	0.792	
8	1.3	0.52	0.962	0.611	20	1.9	0.839	1.55	0.962	40	2.7	1.27	2.36	1.35	
10	1.6	0.785	1.45	0.923	25	2.4	1.27	2.35	1.45	50	3.4	1.92	3.56	2.04	
12	1.9	1.1	2.04	1.29	30	2.9	1.78	3.29	2.03	60	4.0	2.69	4.99	2.86	
14	2.2	1.46	2.71	1.71	35	3.3	2.36	4.37	2.71	70	4.7	3.58	6.64	3.82	
16	2.5	1.87	3.47	2.2	40	3.8	3.03	5.6	3.47	80	5.4	4.59	8.5	4.88	
18	2.8	2.33	4.31	2.75	45	4.3	3.76	6.96	4.31	90	6.0	5.72	10.6	6.06	
20	3.2	2.83	5.24	3.31	50	4.8	4.57	8.46	5.24	100	6.7	6.9	12.8	7.37	
25	3.9	4.26	7.9	5	55	5.3	5.46	10.1	6.22	110	7.4	8.25	15.3	8.8	
30	4.7	6	11.1	7	60	5.7	6.44	11.9	7.34	120	8.0	9.71	18	10.3	
35	5.5	7.94	14.7	9.35	70	6.7	8.53	15.8	9.78	130	8.7	11.3	20.9	12	
40	6.3	10.2	18.9	12	80	7.6	10.9	20.2	12.5	140	9.4	12.9	23.9	13.7	
45	7.1	12.63	23.4	14.9	90	8.6	13.6	25.1	15.6	150	10.1	14.7	27.3	15.6	
50	7.9	15.4	28.5	18.1	100	9.6	16.5	30.5	18.9	160	10.7	16.6	30.7	17.6	
55	8.7	18.35	34	21.5	110	10.5	19.7	36.4	22.5	170	11.4	18.5	34.3	19.7	
60	9.5	21.6	40	25.3	120	11.5	23.1	42.7	26.6	180	12.1	20.6	38.1	21.9	
65	10.2	25.1	46.4	29	130	12.4	26.8	49.6	30.7	190	12.7	22.7	42.1	24.2	
70	11.0	28.7	53.2	33.8	140	13.4	30.6	56.9	35.2	200	13.4	25	46.3	26.6	
75	11.8	32.6	60.4	38	150	14.3	35	64.7	40.1	220	14.7	29.8	55.3	31.8	
80	12.6	36.8	68.1	43.1	160	15.3	39.3	72.8	45.1	240	16.1	35.8	66.4	37.4	
85	13.4	41.2	76.2	47.6	170	16.3	44	81.4	50.5	260	17.4	41.6	75.3	43.3	
90	14.2	45.7	84.7	53.6	180	17.2	48.9	90.5	56.1	280	18.8	46.6	86.3	49.4	
95	15.0	50.5	93.6	58.8	190	18.2	54	100	62	300	20.1	52.9	98.1	56.8	
100	15.8	56.6	103	65.1	200	19.1	59.4	110	68						

NOTE: Recommended velocity is 5 FPS (feet per second) with a maximum of 7 FPS.

Note (1) Loss Figures are based on equivalent lengths of indicated pipe material Note (2) Loss Figures for screwed valves based on equivalent lengths of steel pipe.

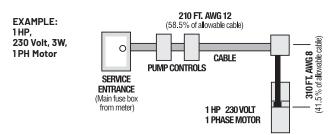
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Cable Selection

Stainless steel, 4" submersible motors

TWO DIFFERENT CABLE SIZES CAN BE USED

The example below is for reference. Depending on the installation, any number of combinations may be used, as long as the total percentage length of the two cables used does not exceed 100%. This is to ensure that adequate voltage will be supplied to the motor.



In a replacement installation, the well already has 210 feet of buried #12 cable between the service entrance and the well head. The question is: What size cable is required in the well with a 1 HP, 230 Volt, 1 PH, 3W motor setting at 310 feet?

- According to the table, #12 cable is large enough for the 1 HP motor so the percent of the maximum allowable cable used by the 210-foot run is 210 ÷ 359 = 58.5%, since 359 feet is the total allowable.
- With 58.5% of the total allowable cable already used between the service entrance and the well head, only 41.5% is left for the well. Therefore, the 310 feet needed in the well can only utilize 41.5% of the total feet allowed in the table.
- 3. From the table, 41.5% of the 573 feet for #10 cable equals only 238 feet, so a larger size is needed. For #8, 41.5% of 908 feet = 377 feet. As a result, #8 can be used for the 310 feet in the well.

CAUTION USE OF WIRE SIZE SMALLER THAN LISTED WILL VOID WARRANTY.

MOTOR LEAD LENGTHS: PENTEK® 2-WIRE PSC MOTORS 60C AND 75C INSULATION - AWG COPPER WIRE SIZE **60 HZ MOTOR RATING** HP 1/0 2/0 3/0 4/0 **VOLTS** 1/2 1/2 3/4

MOTOR LEAD LENGTHS: PENTEK 3-WIRE MOTORS

CSIR CONTROL BOXES

1-1/2

60 HZ MOTOR	RATING				60	C AND 75	CINSULA	TION - AW	/G COPPE	R WIRE S	IZE			
VOLTS	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
115	1/2	94	150	240	380	591	942	1184	1495	1883	2377	2999	3786	4770
	1/2	348	553	883	1398	2175	3467	4359	5505	6935	8753			
230	3/4	277	441	704	1115	1734	2765	3476	4390	5530	6981	8807		
	1	231	367	585	927	1442	2299	2891	3651	4599	5805	7324		

CSCR CONTROL BOXES

60 HZ MOTOR	RATING	60C AND 75C INSULATION – AWG COPPER WIRE SIZE												
VOLTS	HP	14	12	10	8	6	4	3	2	1	1/0	2/0	3/0	4/0
	1/2	438	697	1112	1761	2740	4369	5492	6936	8738	11029			
	3/4	359	571	912	1444	2246	3581	4502	5685	7162	9040	11406		
	1	296	471	751	1190	1852	2952	3711	4686	5904	7452	9402		
230	1-1/2	199	317	505	801	1246	1986	2496	3153	3972	5013	6325		
	2	180	286	456	722	1123	1790	2251	2843	3581	4520	5703		
	3	133	211	337	534	830	1324	1664	2102	2648	3342	4217	5323	
	5			206	326	507	809	1017	1284	1618	2042	2577	3253	

All lengths in feet.

NOTE: Based on service factor amps, 30C ambient and 5% voltage drop.

(1) This table is based on copper wire. If aluminum wire is used it must be two sizes larger. Example: When the table calls for #12 copper wire you would use #10 aluminum wire.

(2) Cables #14 to 4/0 are AWG sizes.

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Cable Selection

Stainless steel, 4" submersible motors

HZ MOTOF	RATING				60	C AND 75	CINSULA	TION - AW	/G COPPE	R WIRE S	IZE			
VOLTS	HP	14 12 10 8 6 4 3 2 1 1/0										2/0	3/0	4/(
	0.5	629	1000	1595	2526	3931								
	3/4	468	745	1188	1881	2927								
	1	386	614	979	1551	2414	3848	4837						
200	1.5	290	461	735	1163	1810	2886	3628						
200	2	237	376	600	951	1479	2358	2965	3744	4717	5954			
	3	183	292	465	737	1147	1828	2298	2902	3656	4614			
	5	109	173	276	438	681	1086	1365	1724	2172	2741	3458	4366	550
	7.5	73	117	186	295	459	731	919	1161	1462	1846	2329	2940	370
	0.5	844	1342	2140	3389	5274	8408	10570						
	0.75	633	1006	1605	2542	3956	6306	7927	10011					
	1	516	821	1310	2075	3229	5148	6471	8172					
070	1.5	383	610	973	1541	2397	3822	4804	6067	7643	9648			
230	2	316	503	803	1271	1978	3153	3964	5006	6306	7960	10042		
	3	251	399	636	1007	1567	2497	3140	3965	4995	6305	7954	10042	126
	5			367	581	904	1441	1812	2288	2883	3639	4591	5795	730
	7.5				385	599	955	1201	1517	1911	2412	3043	3842	484
	0.5	3374	5367	8561										
	0.75	2531	4025	6420	10168									
	1	2024	3220	5136	8135									
	1.5	1489	2368	3777	5981									
460	2	1234	1964	3132	4960	7718								
	3	955	1519	2423	3837	5971								
	5	595	947	1511	2393	3723	5935							
	7.5	375	596	951	1506	2344	3737	4698	5933	7474				
	10	294	468	747	1182	1840	2933	3687	4656	5866				
	1.5	2433	3870	6173										
	2	1917	3049	4864	7703									
575	3	1543	2454	3915	6200									
	5	832	1324	2112	3345	5205								
	7.5	633	1006	1605	2542	3956								

All lengths in feet.

NOTE: Based on service factor amps, 30C ambient and 5% voltage drop.

(3) Cables #14 to 4/0 are AWG sizes.

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⁽¹⁾ This table is based on copper wire. If aluminum wire is used it must be two sizes larger. Example: When the table calls for #12 copper wire you would use #10 aluminum wire.

⁽²⁾ The portion of the total cable that is between the service entrance and a 3-phase motor starter should not exceed 25% of the total maximum length to assure reliable starter operation.

Warranty

Pentair BERKELEY® warrants to the original consumer purchaser ("Purchaser" or "You") of the products listed in the table below, that they will be free from defects in material and workmanship for the Warranty Period shown in the table below.

Product	Warranty Period
Water Systems:	
Water Systems Products — jet pumps, small centrifugal pumps, submersible pumps and related accessories	whichever occurs first: 12 months from date of original installation, or 18 months from date of manufacture
Pentair Pro-Source® Composite Tanks	5 years from date of original installation
Pentair Pro-Source Steel Pressure Tanks	5 years from date of original installation
Pentair Pro-Source Epoxy-Lined Tanks	3 years from date of original installation
Agricultural/Commercial:	
Centrifugals - close-coupled motor drive, frame mount, SAE mount, engine drive, VMS, SSCX, SSHM	12 months from date of original installation, or 24 months from date of manufacture
Submersible Turbines, 6" diameter and larger	12 months from date of original installation, or 24 months from date of manufacture

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Examples that may result in denial of a warranty claim (this list is not all inclusive):

- Damage caused by careless handling, improper repackaging, or shipping.
- · Damage due to misapplication, misuse, abuse, or failure to operate equipment as specified in the owner's manual.
- Damage caused by failure to install products as specified in the owner's manual.
- · Damage due to unauthorized product modifications or failure to use Pentair original replacement parts.
- · Damage caused by negligence, or failure to properly maintain products as specified in the owner's manual.
- Damage caused by water freezing inside the product.
- · Accidental damage, fire, acts of God, or other circumstances outside the control of Pentair.

Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient compensated, extra-quick trip overload relays of the recommended size or the warranty is void.

All impeller diameters specified in the BEC2 pump sizing program have been tested and determined to not exceed the service factor of the specified motor. Oversized impeller diameters can be requested, however, use of an oversized impeller will void any warranty claims.

Your only remedy, and BERKELEY's only duty under this warranty, is that BERKELEY repair or replace defective products (at BERKELEY's choice). THE REMEDIES DESCRIBED HERE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS WARRANTY.

You must pay all labor and shipping charges associated with the warranty and must request warranty service through the installing dealer as soon as a problem is discovered. No request for service will be accepted if received after the Warranty Period has expired. This warranty is not transferable.

BERKELEY'S LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE PRODUCT AT ISSUE. BERKELEY SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE, OR CONTINGENT DAMAGES OR LOSSES WHATSOEVER, WHETHER DIRECT OR INDIRECT. THE FOREGOING WARRANTY IS EXCLUSIVE. EXCEPT FOR THE WARRANTY SET FORTH HEREIN, BERKELEY MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE PRODUCTS, INCLUDING, BUT NOT TO ANY WARRANTIES OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

THE FOREGOING WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on the duration of an implied warranty, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

This Warranty is effective July 14, 2020 and replaces all undated warranties and warranties dated before July 14, 2020.

BERKELEY

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