



4" submersible pumps – 5 and 7 gpm TrimLine™



Precision-engineered, corrosion-resistant Series J 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 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 – Acetal

SERIES J COMPOSITE

FEATURES

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 – 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 poppet type check valve.

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

Intake Screen – Corrosion-proof polypropylene.

PENTEK® XE Motor – 2 and 3 wire NEMA standard all stainless construction water filled motors.

Delrin® is a registered trademark of E.I. DuPont de Nemours and Co. Nylatron® is a registered trademark of Polymer Corp. PENTEK® and BERKELEY® are registered trademarks of Pentair Water. PRO-SOURCE™, SignaSeal™, and TrimLine™ are trademarks of Pentair Water.

In order to provide the best products possible, specifications are subject to change.



4" submersible pumps – 5 and 7 gpm TrimLine™

ORDERING INFORMATION

GPM	Motor Type	HP	Stgs.	PH	Volt	Assembled Pump			Pump End			Motor		Control Box	
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Weight Pounds*	Catalog Number	Weight Pounds*
5	2 Wire	1/2	13	1	115	B5P4JP05121	27-1/2	29	SL5P4CJ	18	12	P42B0005A1	19		
		1/2	13	1	230	B5P4JP05221	27-1/2	29	SL5P4CJ	18	12	P42B0005A2	19		
		3/4	18	1	230	B5P4JP07221	32-3/4	34	SL5P4DJ	22	15	P42B0007A2	23		
		1	22	1	230	B5P4JP10221	37	38	SL5P4EJ	25-1/4	17	P42B0010A2	25		
		1-1/2	30	1	230	B5P4JP15221	47	45	SL5P4FJ	32	21	P42B0015A2	29		
	3 Wire	1/2	13	1	115	B5P4JP05131	27-1/2	29	SL5P4CJ	18	12	P43B0005A1	19	SMC-IR0511	4
		1/2	13	1	230	B5P4JP05231	27-1/2	29	SL5P4CJ	18	12	P43B0005A2	18	SMC-CR0521	4
		3/4	18	1	230	B5P4JP07231	32-3/4	24	SL5P4DJ	22	15	P43B0007A2	21	SMC-CR0721	4
		1	22	1	230	B5P4JP10231	37	38	SL5P4EJ	25-1/4	17	P43B0010A2	23	SMC-CR1021	4
		1-1/2	30	1	230	B5P4JP15231	45-1/2	45	SL5P4FJ	32	21	P43B0015A2	27	SMC-CR1521	7
		1-1/2	30	3	230				SL5P4FJ	32	21	P43B0015A3	23		
		1-1/2	30	3	460				SL5P4FJ	32	21				
7	2 Wire	1/2	10	1	115	B7P4JP05121	25-1/2	27	SL7P4CJ	16	12	P42B0005A1	19		
		1/2	10	1	230	B7P4JP05221	25-1/2	27	SL7P4CJ	16	12	P42B0005A2	19		
		3/4	13	1	230	B7P4JP07221	29	32	SL7P4DJ	18-1/2	15	P42B0007A2	23		
		1	17	1	230	B7P4JP10221	33-3/4	37	SL7P4EJ	22	17	P42B0010A2	25		
		1-1/2	22	1	230	B7P4JP15221	42-1/2	47	SL7P4FJ	27-1/4	21	P42B0015A2	29		
	3 Wire	1/2	10	1	115	B7P4JP05131	25-1/2	27	SL7P4CJ	16	12	P43B0005A1	19	SMC-IR0511	4
		1/2	10	1	230	B7P4JP05231	25-1/2	27	SL7P4CJ	16	12	P43B0005A2	18	SMC-CR0521	4
		3/4	13	1	230	B7P4JP07231	29	32	SL7P4DJ	18-1/2	15	P43B0007A2	21	SMC-CR0721	4
		1	17	1	230	B7P4JP10231	33-3/4	37	SL7P4EJ	22	17	P43B0010A2	23	SMC-CR1021	4
		1-1/2	22	1	230	B7P4JP15231	41	44	SL7P4FJ	27-1/4	21	P43B0015A2	27	SMC-CR1521	7
		1-1/2	22	3	230				SL7P4FJ	27-1/4	21	P43B0015A3	23		
		1-1/2	22	3	460				SL7P4FJ	27-1/4	21				

*Length and Weight are approximate.

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

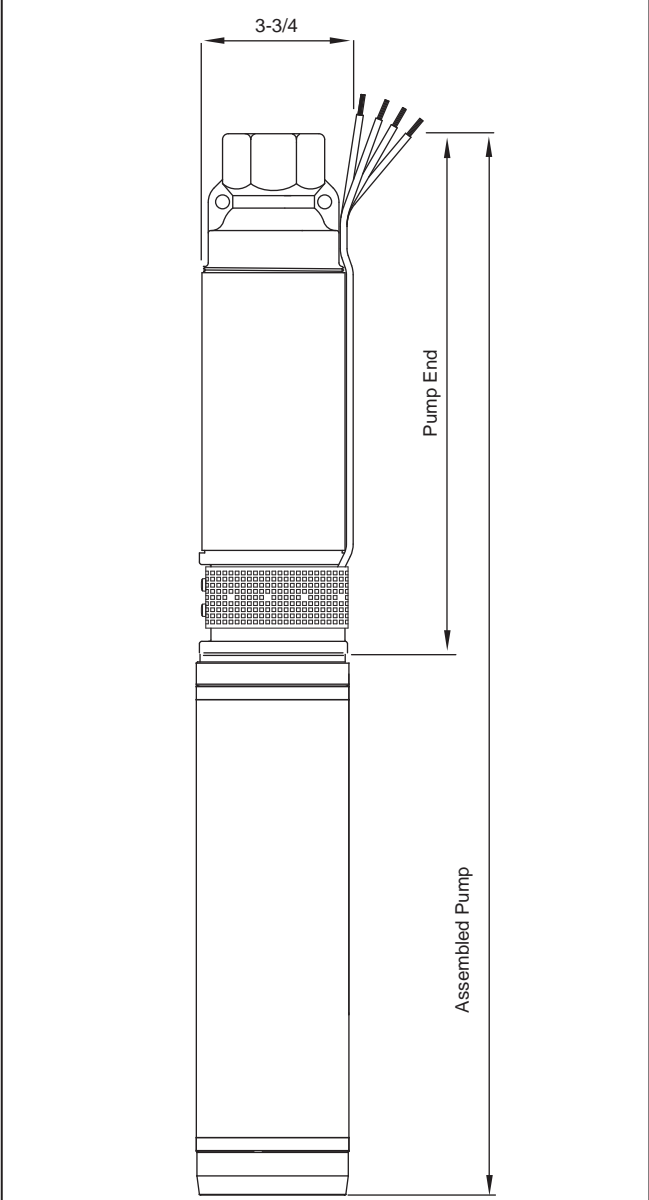
NOTE: Motor, Control Box or Magnetic Starter must be ordered separately.

Discharge NPT is 1-1/4".



4" submersible pumps – 5 and 7 gpm TrimLine™

OUTLINE DIMENSIONS

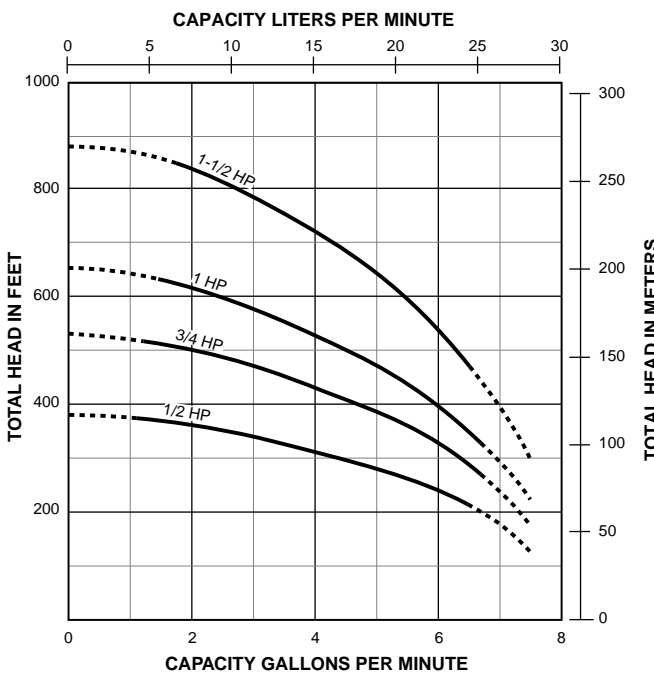


Discharge	
5 GPM	1-1/4" NPT
7 GPM	1-1/4" NPT

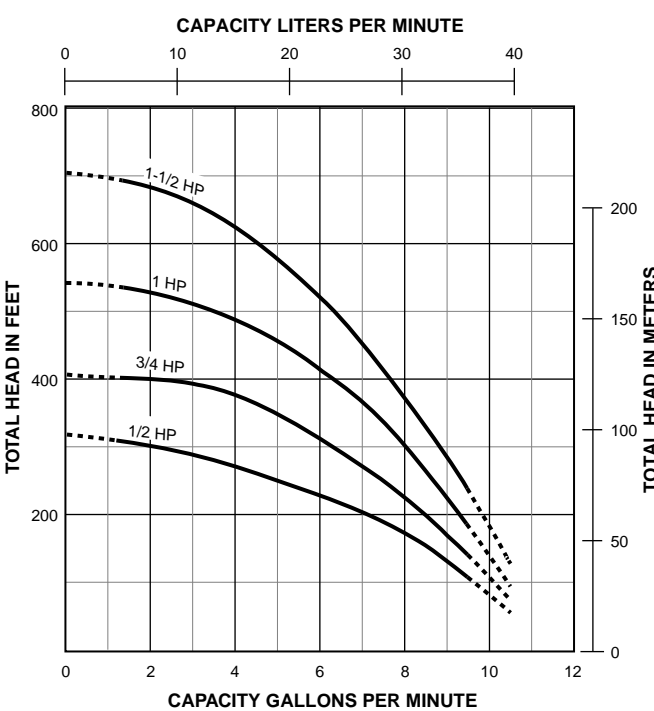
For dimensions, refer to Ordering Information table.

Dimensions (in inches) are for estimating purposes only.

PUMP PERFORMANCE – 5 GPM



PUMP PERFORMANCE – 7 GPM



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.



4" submersible pumps – 5 and 7 gpm TrimLine™

PUMP PERFORMANCE (Capacity in Gallons Per Minute)

7 GALLONS PER MINUTE

HP	PSI	Pumping Depth in Feet																		Shutoff Head						
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	Feet	PSI				
1/2	0	—	11.0	10.4	9.9	9.5	9.0	8.6	8.1	7.5	5.7	3.2									322	139				
	20	10.2	9.2	9.3	8.9	8.6	8.1	7.6	6.7	5.4	3.6															
	30	9.7	9.3	8.9	8.6	8.1	7.6	6.8	5.9	5.0																
	40	9.2	8.9	8.5	8.1	7.6	7.0	6.0	5.0	3.6																
	50	8.8	8.5	8.0	7.6	7.0	6.0	5.1	3.9																	
	60	8.4	8.0	7.5	6.8	6.2	5.1	4.0																		
3/4	0	—	—	11.0	10.4	9.9	9.5	9.2	8.9	8.5	7.6	6.5	5.0	2.3							409	177				
	20	10.7	10.2	9.9	9.5	9.3	8.9	8.6	8.2	7.7	6.5	5.2	3.0													
	30	10.1	9.8	9.4	9.2	8.9	8.6	8.2	7.8	7.2	6.0	4.2														
	40	9.7	9.4	9.1	8.9	8.7	8.3	7.9	7.3	6.7	5.2	3.1														
	50	9.4	9.1	8.9	8.6	8.3	7.9	7.3	6.7	6.1	4.3															
	60	9.0	8.8	8.5	8.2	7.9	7.4	6.7	6.1	5.4	3.1															
1	0	—	—	—	10.8	10.4	10.0	9.7	9.4	9.1	8.6	8.0	7.3	6.4	5.2	3.7					545	236				
	20	—	10.6	10.3	10.0	9.8	9.4	9.2	8.9	8.6	8.1	7.3	6.5	5.3	3.8											
	30	10.5	10.2	9.9	9.7	9.4	9.2	8.9	8.6	8.4	7.7	6.9	6.0	4.6	2.8											
	40	10.2	9.9	9.7	9.4	9.2	9.0	8.6	8.4	8.1	7.4	6.5	5.3	3.9												
	50	9.9	9.6	9.3	9.2	9.0	8.6	8.4	8.2	7.8	7.0	6.1	5.3	3.0												
	60	9.5	9.3	9.2	8.9	8.7	8.4	8.2	7.8	7.5	6.6	5.5	4.0													
1-1/2	0	—	—	—	—	10.9	10.4	10.1	9.9	9.7	9.2	8.8	8.4	7.9	7.3	6.6	5.8	4.8	3.5		705	305				
	20	—	—	10.7	10.4	10.2	9.9	9.7	9.4	9.2	8.8	8.5	8.0	7.3	6.7	5.8	4.9	3.7								
	30	11.0	10.7	10.4	10.2	9.9	9.3	9.5	9.2	9.0	8.7	8.2	7.7	7.1	6.3	5.9	4.4	2.7								
	40	10.6	10.3	10.2	9.9	9.5	9.3	9.2	9.1	8.8	8.5	8.0	7.4	6.7	5.9	4.9	3.7									
	50	10.3	10.1	9.9	9.7	9.5	9.2	9.1	8.8	8.7	8.3	7.7	7.1	6.5	5.4	4.6	2.8									
	60	10.1	9.8	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.0	7.5	6.8	6.0	5.0	4.1										

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.