

STA-RITE® HS Series Stainless Steel

Signature 2000® 5 and 7 gpm TrimLine™ 4" submersible pumps



POWERED BY
PENTEK®



Precision-engineered, high-quality, rugged Signature 2000® 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 O.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

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 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: 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.

Nylatron® is a registered trademark of Polymer Corp.
All other brand or product names are trademarks or registered trademarks of Pentair Ltd.

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ORDERING INFORMATION

GPM	MOTOR TYPE	HP	STGS.	PH	VOLT	ASSEMBLED PUMP			PUMP END			MOTOR		CONTROL BOX	
						CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	LENGTH IN.*	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT LBS.*	CATALOG NUMBER	WEIGHT LBS.*
5	2 WIRE	1/2	13	1	115	S5P4HS05121	27-1/2	28	L5P4CHL	18	12	P42B0005A1	19		
		1/2	13	1	230	S5P4HS05221	27-1/2	28	L5P4CHL	18	12	P42B0005A2	19		
		3/4	18	1	230	S5P4HS07221	32-3/4	34	L5P4DHL	22	15	P42B0007A2	23		
		1	22	1	230	S5P4HS10221	37	39	L5P4EHL	25-1/4	17	P42B0010A2	25		
		1-1/2	30	1	230	S5P4HS15221	47	51	L5P4FHL	32	21	P42B0015A2	29		
	3 WIRE	1/2	13	1	115	S5P4HS05131	27-1/2	28	L5P4CHL	18	12	P43B0005A1	19	SMC-IR0511	4
		1/2	13	1	230	S5P4HS05231	27-1/2	28	L5P4CHL	18	12	P43B0005A2	18	SMC-CR0521	4
		3/4	18	1	230	S5P4HS07231	32-3/4	34	L5P4DHL	22	15	P43B0007A2	21	SMC-CR0721	4
		1	22	1	230	S5P4HS10231	37	39	L5P4EHL	25-1/4	17	P43B0010A2	23	SMC-CR1021	4
		1-1/2	30	1	230	S5P4HS15231	45-1/2	48	L5P4FHL	32	21	P43B0015A2	27	SMC-CR1521	7
		1-1/2	30	3	230				L5P4FHL	32	21	P43B0015A3	23		
		1-1/2	30	3	460				L5P4FHL	32	21	P43B0015A4	23		
		2	38	1	230				L5P4GHL	37-3/4	25	P43B0020A2	31	SMC-CR2021	7
		2	38	3	230				L5P4GHL	37-3/4	25	P43B0020A3	23		
		2	38	3	460				L5P4GHL	37-3/4	25	P43B0020A4	23		
7	2 WIRE	1/2	10	1	115	S7P4HS05121	25-1/2	27	L7P4CHL	16	11	P42B0005A1	19		
		1/2	10	1	230	S7P4HS05221	25-1/2	27	L7P4CHL	16	11	P42B0005A2	19		
		3/4	13	1	230	S7P4HS07221	29	32	L7P4DHL	18-1/2	13	P42B0007A2	23		
		1	17	1	230	S7P4HS10221	33-3/4	37	L7P4EHL	22	15	P42B0010A2	25		
		1-1/2	22	1	230	S7P4HS15221	42-1/2	47	L7P4FHL	27-1/4	17	P42B0015A2	29		
	3 WIRE	1/2	10	1	115	S7P4HS05131	25-1/2	27	L7P4CHL	16	11	P43B0005A1	19	SMC-IR0511	4
		1/2	10	1	230	S7P4HS05231	25-1/2	27	L7P4CHL	16	11	P43B0005A2	18	SMC-CR0521	4
		3/4	13	1	230	S7P4HS07231	29	32	L7P4DHL	18-1/2	13	P43B0007A2	21	SMC-CR0721	4
		1	17	1	230	S7P4HS10231	33-3/4	37	L7P4EHL	22	15	P43B0010A2	23	SMC-CR1021	4
		1-1/2	22	1	230	S7P4HS15231	41	44	L7P4FHL	27-1/4	17	P43B0015A2	27	SMC-CR1521	7
		1-1/2	22	3	230				L7P4FHL	27-1/4	17	P43B0015A3	23		
		1-1/2	22	3	460				L7P4FHL	27-1/4	17	P43B0015A4	23		
		2	28	1	230				L7P4GHL	32-1/2	20	P43B0020A2	31	SMC-CR2021	7
		2	28	3	230				L7P4GHL	32-1/2	20	P43B0020A3	27		
		2	28	3	460				L7P4GHL	32-1/2	20	P43B0020A4	27		
		3	36	1	230				L7P4HHL	39-1/2	24	P43B0030A2	37	SMC-CR3021	8
		3	36	3	230				L7P4HHL	39-1/2	24	P43B0030A3	37		
		3	36	3	460				L7P4HHL	39-1/2	24	P43B0030A4	37		

*Length and Weight are approximate.

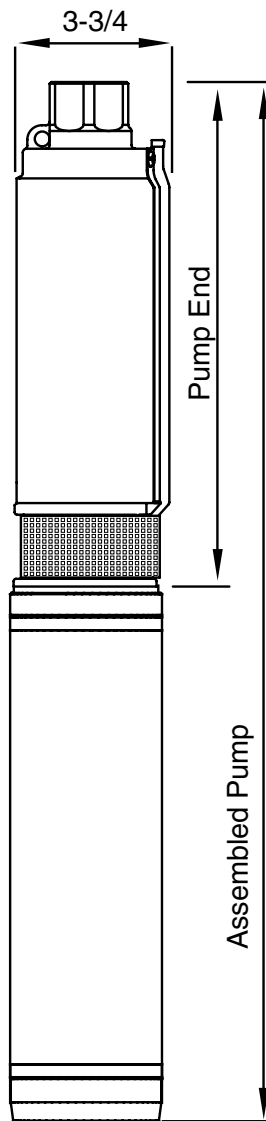
TrimLine™ version maximum outside diameter is 3-3/4". Standard version maximum outside diameter is 3-7/8".

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

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OUTLINE DIMENSIONS

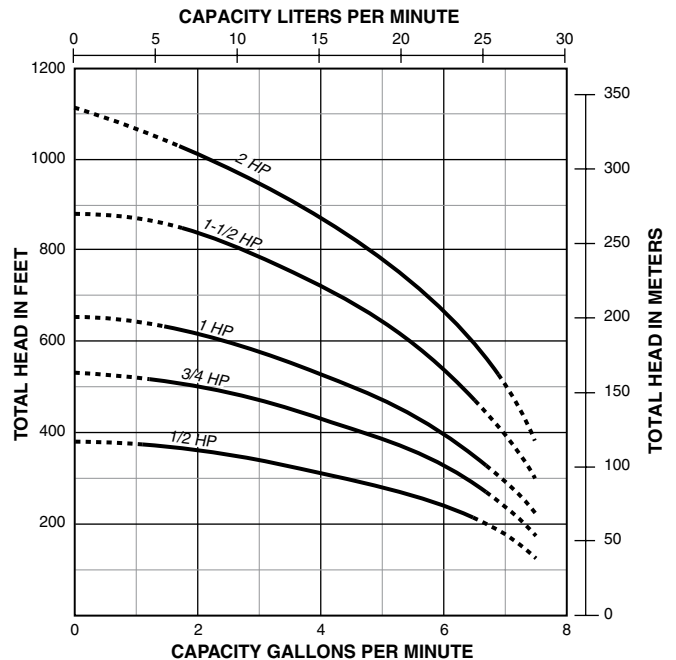


DISCHARGE

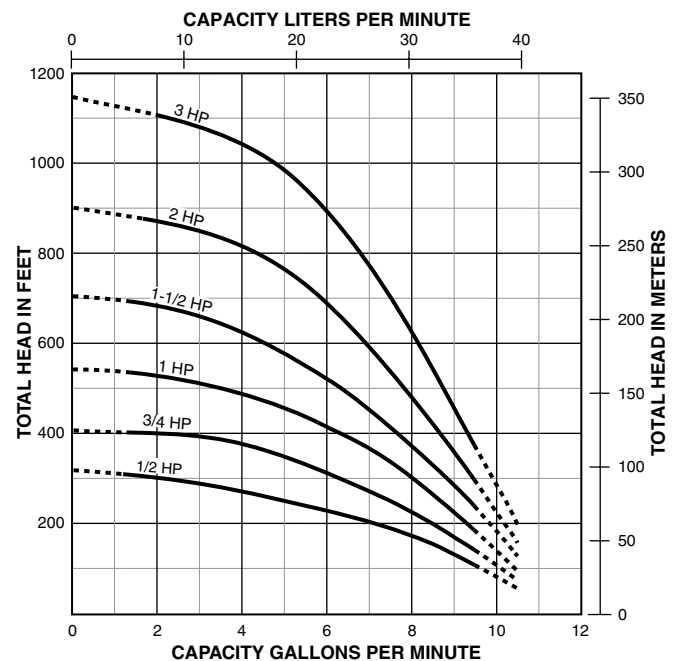
5 GPM	1-1/4" NPT
7 GPM	1-1/4" NPT

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.

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5 GALLONS PER MINUTE										PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																				SHUT-OFF HEAD	
HP	PSI	PUMPING DEPTH IN FEET																				SHUT-OFF HEAD									
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	FEET	PSI		
1/2	0	-	-	-	-	-	7.4	7.2	7.0	6.7	5.7	4.3	2.7															380	164		
	20	-	-	-	7.4	7.3	7.0	6.7	6.3	5.7	4.5	2.8																			
	30	-	-	7.4	7.2	7.1	6.8	6.3	5.8	5.2	3.6	1.5																			
	40	-	7.4	7.2	7.0	6.8	6.4	5.8	5.3	4.6	2.9																				
	50	7.3	7.2	7.0	6.7	6.4	5.9	5.3	4.7	3.7	1.7																				
	60	7.2	6.9	6.7	6.3	5.9	5.3	4.7	3.8	3.0																					
3/4	0	-	-	-	-	-	-	7.4	7.3	6.9	6.4	5.6	4.7	3.4	2.0													531	230		
	20	-	-	-	-	-	7.4	7.3	7.1	6.9	6.5	5.7	4.8	3.5	2.2																
	30	-	-	-	-	7.4	7.3	7.1	7.0	6.7	6.1	5.3	4.2	3.0	1.1																
	40	-	-	-	7.4	7.3	7.2	7.0	6.8	6.5	5.7	4.9	3.6	2.4																	
	50	-	-	7.4	7.3	7.2	7.0	6.8	6.5	6.2	5.4	4.3	3.1	1.3																	
	60	7.5	7.4	7.3	7.1	7.0	6.8	6.5	6.2	5.8	4.9	3.6	2.4																		
1	0	-	-	-	-	-	-	-	7.5	7.2	7.0	6.5	6.0	5.3	4.5	3.4	2.4											652	282		
	20	-	-	-	-	-	-	7.5	7.4	7.2	7.0	6.6	6.0	5.3	4.5	3.5	2.5														
	30	-	-	-	-	-	7.5	7.4	7.3	7.2	6.9	6.3	5.8	5.1	4.1	3.1	1.7														
	40	-	-	-	-	7.5	7.4	7.3	7.2	7.0	6.7	6.1	5.4	4.6	3.6	2.6	0.3														
	50	-	-	-	7.5	7.4	7.3	7.2	7.0	6.9	6.4	5.8	5.1	4.1	3.1	1.9															
	60	-	-	7.5	7.4	7.3	7.2	7.0	6.9	6.7	6.1	5.5	4.7	3.6	2.7	0.7															
1-1/2	0	-	-	-	-	-	-	-	-	-	7.4	7.2	7.0	6.7	6.4	5.9	5.5	4.9	4.1	3.4	2.7	1.6						882	382		
	20	-	-	-	-	-	-	-	-	7.4	7.2	7.0	6.8	6.4	6.0	5.5	5.0	4.2	3.5	2.8	1.7										
	30	-	-	-	-	-	-	-	7.5	7.3	7.1	6.9	6.6	6.2	5.7	5.3	4.6	3.8	3.2	2.4	0.7										
	40	-	-	-	-	-	-	7.5	7.4	7.2	7.1	6.8	6.4	6.0	5.6	5.0	4.3	3.6	2.8	1.8											
	50	-	-	-	-	-	7.5	7.4	7.3	7.1	6.9	6.6	6.2	5.8	5.3	4.7	3.9	3.2	2.5	1.1											
	60	-	-	-	-	7.5	7.4	7.3	7.2	7.1	6.8	6.5	6.0	5.6	5.0	4.3	3.6	2.9	1.8												
2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	7.0	6.8	6.5	6.2	5.9	5.5	5.0	4.5	4.0	3.3	2.4	1.5	1120	485			
	20	-	-	-	-	-	-	-	-	-	-	-	-	7.0	6.8	6.5	6.2	5.9	5.5	5.0	4.5	4.0	3.3	2.4	1.5						
	30	-	-	-	-	-	-	-	-	-	-	-	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						
	40	-	-	-	-	-	-	-	-	-	-	7.3	7.0	6.8	6.5	6.2	5.9	5.5	5.0	4.5	4.0	3.3	2.4	1.5							
	50	-	-	-	-	-	-	-	-	-	7.4	7.2	6.9	6.6	6.4	6.1	5.8	5.4	4.9	4.4	3.9	3.1	2.2	1.2							
	60	-	-	-	-	-	-	-	-	-	7.3	7.1	6.8	6.5	6.2	6.0	5.6	5.1	4.6	4.1	3.2	2.5	1.6								

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.

STA-RITE® HS Series Stainless Steel

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7 GALLONS PER MINUTE										PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)																				SHUT-OFF HEAD	
HP	PSI	PUMPING DEPTH IN FEET																				SHUT-OFF HEAD									
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	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	9.7	9.5	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															
2	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								900	389
	20	-	-	-	10.8	10.6	10.4	10.1	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.1	6.6	5.8	5.1	4.3	3.8									
	30	-	11.0	10.7	10.6	10.4	10.1	10.0	9.7	9.5	9.2	8.9	8.6	8.3	7.9	7.4	6.9	6.2	5.5	4.7	3.8										
	40	10.9	10.7	10.5	10.4	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	3.2										
	50	10.7	10.5	10.3	10.1	10.0	9.8	9.6	9.4	9.3	8.9	8.7	8.3	7.9	7.4	6.9	6.3	5.5	4.8	4.0	2.3										
	60	10.4	10.3	10.1	10.0	9.8	9.6	9.4	9.3	9.1	8.8	8.5	8.1	7.7	7.2	6.7	6.0	5.8	4.5	3.3											
3	0	-	-	-	-	-	-	10.8	10.5	10.1	9.9	9.5	9.3	9.0	8.8	8.6	8.3	8.0	7.6	7.3	6.8	6.4	5.7	5.2	4.7	3.9	2.5			1150	498
	20	-	-	-	-	10.9	10.6	10.4	10.2	9.9	9.5	9.3	9.0	8.8	8.6	8.3	8.1	7.7	7.4	6.9	6.5	5.8	5.2	4.8	4.0	3.1					
	30	-	-	-	10.9	10.6	10.4	10.2	10.0	9.6	9.4	9.2	8.9	8.7	8.4	8.1	7.9	7.4	7.0	6.6	6.0	5.4	5.8	4.3	3.5						
	40	-	-	10.9	10.7	10.4	10.3	10.0	10.0	9.6	9.4	9.1	8.8	8.6	8.3	8.1	7.8	7.4	7.0	6.5	5.9	5.3	4.9	4.2	3.2						
	50	-	11.0	10.8	10.6	10.4	10.3	10.0	10.0	9.7	9.4	9.2	8.9	8.7	8.5	8.1	7.9	7.5	7.1	6.6	6.1	5.5	5.1	4.4	3.6						
	60	11.0	10.7	10.6	10.4	10.3	10.0	10.0	9.7	9.6	9.4	9.1	8.9	8.7	8.4	8.1	7.8	7.4	7.0	6.6	5.9	5.3	4.9	4.2	3.3						

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