

### PREDATOR™ / PREDATOR PLUS™

The Predator™ Series 4" submersible pumps have a proven track record for reliability and performance, and are the preferred brand by many industry professionals. Stainless steel construction and self-lubricating impellers provide reliable performance under the most demanding conditions. The Predators also feature the PENTEK® XE Series, high-thrust motor for increased efficiency and extended service life.

#### APPLICATIONS

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

#### SPECIFICATIONS

- Shell – 304 Stainless Steel
- Discharge – Predator Plus: 304 Stainless Steel; Predator: High Density Composite Resin
- Discharge Bearing – Nylatron®
- Impellers – Noryl®
- Diffusers – Noryl
- Suction Caps – Noryl
- Shaft and Coupling – 304 Stainless Steel
- Intake – 304 Stainless Steel
- Intake Screen – 304 Stainless Steel
- Cable Guard – 304 Stainless Steel
- Check Valve – Polyester Teflon®
- Fasteners – 304 Stainless Steel

Noryl® is a registered trademark of the General Electric Company. Nylatron® is a registered trademark of The Polymer Corporation. PENTEK® is a registered trademark of Pentair Water. Teflon® is a registered trademark of Dupont. Predator™/Predator Plus™ are trademarks of Pentair Water.



#### FEATURES

##### Nothing Better

Top-of-the-line 4" submersible pump is unequalled in the marketplace

##### Stainless Steel (Predator Plus only)

Shell, discharge bowl, shaft and coupling, wear ring and suction screen – all lead-free

##### Gritty Performance

Self-lubricating impellers resist abrasion from grit and sand – proven to outlast the competition

##### Supreme Power

Features the high-thrust PENTEK XE motor for the ultimate in power, efficient performance and longer life. Thermal overload and lightning protected.

##### On the Job

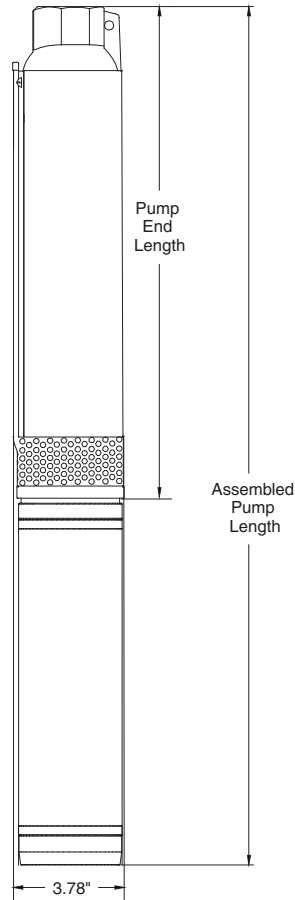
Field serviceable, threaded pump assembly

##### An Eye for Safety

Built-in eyelet for safety line connection



### OUTLINE DIMENSIONS



### CABLE SELECTION

#### THREE WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		AWG Copper Wire Size										
Volts	HP	14	12	10	8	6	4	3	2	1	0	00
115	1/2	87	138	221	349	544	867	1090	1376	1734	2188	2761
230	1/2	348	553	883	1398	2175	3467	4359	5505	6935	8753	11044
	3/4	264	420	670	1061	1651	2632	3309	4178	5264	6644	8383
	1	226	359	573	908	1413	2252	2831	3575	4504	5685	7173
	1-1/2	197	314	501	793	1234	1968	2474	3124	3936	4968	6268

#### TWO WIRE CABLE, 60 Hz (Service Entrance to Motor – Maximum Length in Feet)

Motor Rating		AWG Copper Wire Size										
Volts	HP	14	12	10	8	6	4	3	2	1	0	00
115	1/2	115	183	293	463	721	1150	1445	1825	2299	2902	3662
230	1/2	466	742	1183	1874	2915	4648	5843	7379	9295	11733	14803
	3/4	342	545	869	1376	2141	3413	4291	5419	6826	8617	10871
	1	241	383	611	968	1506	2400	3018	3811	4801	6060	7646
	1-1/2	199	317	505	801	1246	1986	2496	3153	3972	5013	6325

### ORDERING INFORMATION

GPM	Motor Type	HP	Stg.	PH	Volt	Assembled Pump			Pump End		PENTEK® Motor		Control Box
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number	
5	2-Wire	1/2	11	1	115	2ST51-5-P4	22-1/2	36	ST5-5	13	P42B0005A1		
		1/2	11	1		2ST52-5-P4	22-1/2	36	ST5-5	13	P42B0005A2		
		3/4	15	1		2ST72-5-P4	26-1/2	40	ST72-5	16	P42B0007A2		
		1	19	1		2ST102-5-P4	30-1/2	45	ST10-5	18-1/2	P42B0010A2		
		1-1/2	26	1		2ST152-5-P4	39	54	ST15-5	23-1/2	P42B0015A2		
	3-Wire	1/2	11	1	230	3ST51-5-P4	22-1/2	33	ST5-5	13	P43B0005A1	SMC-CR0511	
		1/2	11	1		3ST52-5-P4	22-1/2	33	ST5-5	13	P43B0005A2	SMC-CR0521	
		3/4	15	1		3ST72-5-P4	26-1/2	37	ST72-5	16	P43B0007A2	SMC-CR0721	
		1	19	1		3ST102-5-P4	30-1/2	43	ST10-5	18-1/2	P43B0010A2	SMC-CR1021	
		1-1/2	26	1		3ST152-5-P4	39	52	ST15-5	23-1/2	P43B0015A2	SMC-CR1521	
8	2-Wire	1/2	9	1	115	2ST51-8-P4	22	35	ST5-8	12-1/2	P42B0005A1		
		1/2	9	1		2ST52-8-P4	22	35	ST5-8	12-1/2	P42B0005A2		
		3/4	12	1		2ST72-8-P4	26	39	ST7-8	15	P42B0007A2		
		1	15	1		2ST102-8-P4	29-1/2	42	ST10-8	17-1/2	P42B0010A2		
		1-1/2	20	1		2ST152-8-P4	37	49	ST15-8	21-1/2	P42B0015A2		
		2	24	1			ST20-8	31					
		3	33	1			ST30-8	38					
	3-Wire	1/2	9	1	230	3ST51-8-P4	22	33	ST5-8	12-1/2	P43B0005A1	SMC-CR0511	
		1/2	9	1		3ST52-8-P4	22	33	ST5-8	12-1/2	P43B0005A2	SMC-CR0521	
		3/4	12	1		3ST72-8-P4	26	36	ST7-8	15	P43B0007A2	SMC-CR0721	
		1	15	1		3ST102-8-P4	29-1/2	42	ST10-8	17-1/2	P43B0010A2	SMC-CR1021	
		1-1/2	20	1		3ST152-8-P4	35	50	ST15-8	21-1/2	P43B0015A2	SMC-CR1521	
		2	24	1		3ST202-8	46	52	ST20-8	31	P43B0020A2	SMC-CR2021	
		3	33	1		3ST302-8	61-1/2	78	ST30-8	38	P43B0030A2	SMC-CR3021	
12	2-Wire	1/2	7	1	115	2ST51-12-P4	21	34	ST5-12	11-1/2	P42B0005A1		
		1/2	7	1		2ST52-12-P4	21	34	ST5-12	11-1/2	P42B0005A2		
		3/4	9	1		2ST72-12-P4	24	38	ST7-12	13-1/2	P42B0007A2		
		1	11	1		2ST102-12-P4	27	44	ST10-12	15	P42B0010A2		
		1-1/2	16	1		2ST152-12-P4	34-1/2	51	ST15-12	19-1/2	P42B0015A2		
		2	19	1			ST20-12	28					
		3	25	1			ST30-12	33					
		5	37	1			ST50-12	41-1/2					
		3-Wire	1/2	7		1	230	3ST51-12-P4	21	33	ST5-12		11-1/2
	1/2		7	1	3ST52-12-P4	21		33	ST5-12	11-1/2	P43B0005A2	SMC-CR0521	
	3/4		9	1	3ST72-12-P4	24		36	ST7-12	13-1/2	P43B0007A2	SMC-CR0721	
	1		11	1	3ST102-12-P4	27		41	ST10-12	15	P43B0010A2	SMC-CR1021	
	1-1/2		16	1	3ST152-12-P4	33		48	ST15-12	19-1/2	P43B0015A2	SMC-CR1521	
	2		19	1	3ST202-12	43		50	ST20-12	28	P43B0020A2	SMC-CR2021	
	3		25	1	3ST302-12	56-1/2		76	ST30-12	33	P43B0030A2	SMC-CR3021	
	5		37	1		ST50-12		41-1/2		P43B0050A2	SMC-CR5021		

\*Length and weight are approximate.

**NOTE:** All standard Predator™ pumps are available with SST suction bowls and threaded lead guard holes by adding "PLUS" in front of the "-P4" just before the end of the catalog number. Example: Predator Catalog Number is 2ST52-5-P4; Predator Plus™ Catalog Number is 2ST52-5-PLUS-P4.

## ORDERING INFORMATION

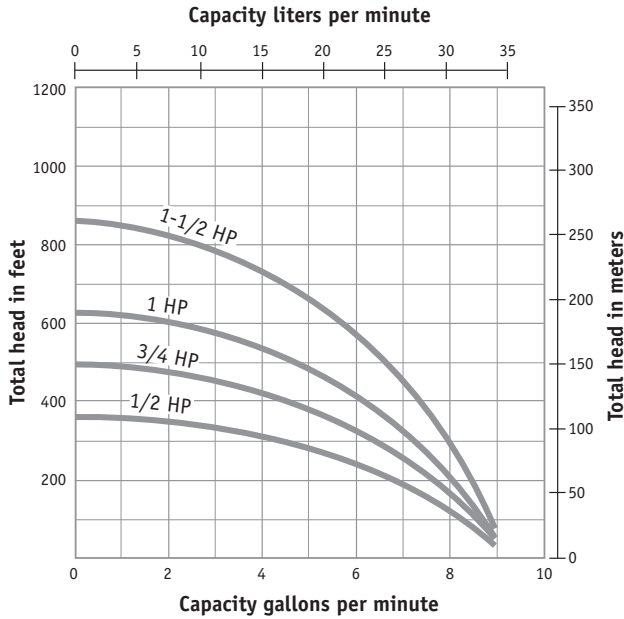
GPM	Motor Type	HP	Stg.	PH	Volt	Assembled Pump			Pump End		PENTEK® Motor	Control Box	
						Catalog Number	Length Inches*	Weight Pounds*	Catalog Number	Length Inches*	Catalog Number	Catalog Number	
20	2-Wire	1/2	4	1	115	2ST51-20-P4	19	32	ST5-20	9-1/2	P42B0005A1		
		1/2	4	1	230	2ST52-20-P4	19	32	ST5-20	9-1/2	P42B0005A2		
		3/4	6	1		2ST72-20-P4	22-1/2	37	ST7-20	11-1/2	P42B0007A2		
		1	8	1		2ST102-20-P4	25-1/2	41	ST10-20	14	P42B0010A2		
		1-1/2	11	1		2ST152-20-P4	32	48	ST15-20	17	P42B0015A2		
		2	14	1					ST20-20	25			
		3	18	1					ST30-20	29			
	5	29	1				ST50-20	42					
	3-Wire	1/2	4	1	115	3ST51-20-P4	19	31	ST5-20	9-1/2	P43B0005A1	SMC-CR0511	
		1/2	4	1	230	3ST52-20-P4	19	31	ST5-20	9-1/2	P43B0005A2	SMC-CR0521	
		3/4	6	1		3ST72-20-P4	22-1/2	34	ST7-20	11-1/2	P43B0007A2	SMC-CR0721	
		1	8	1		3ST102-20-P4	25-1/2	39	ST10-20	14	P43B0010A2	SMC-CR1021	
		1-1/2	11	1		3ST152-20-P4	30-1/2	46	ST15-20	17	P43B0015A2	SMC-CR1521	
		2	14	1		3ST202-20	40	48	ST20-20	25	P43B0020A2	SMC-CR2021	
3		18	1	3ST302-20		52-1/2	72	ST30-20	29	P43B0030A2	SMC-CR3021		
5		29	1	3ST502-20		71-1/2	95	ST50-20	42	P43B0050A2	SMC-CR5021		
25	2-Wire	1	7	1		230	2ST102-25-P4	30	41	ST10-25	18	P42B0010A2	
		1-1/2	9	1	2ST152-25-P4	36	49	ST15-25	21	P42B0015A2			
	3-Wire	1	7	1	230	3ST102-25-P4	30	40	ST10-25	18	P43B0010A2	SMC-CR1021	
		1-1/2	9	1		3ST152-25-P4	34-1/2	48	ST15-25	21	P43B0015A2	SMC-CR1521	

\*Length and weight are approximate.

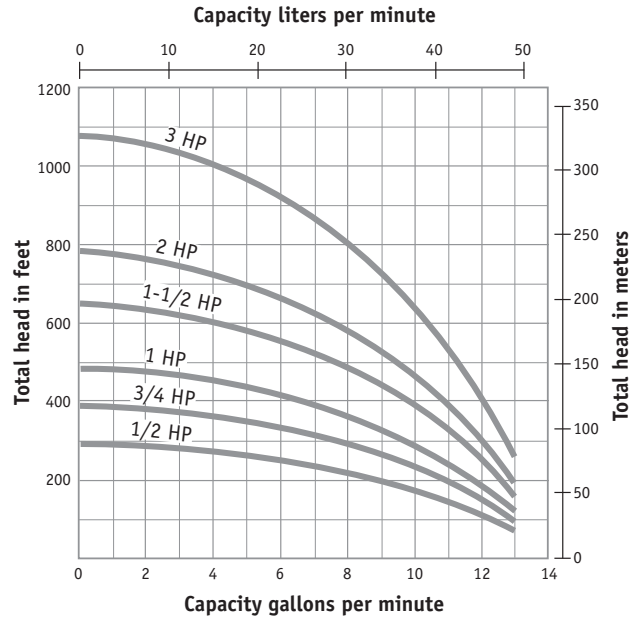
**NOTE:** All standard Predator™ pumps are available with SST suction bowls and threaded lead guard holes by adding "PLUS" in front of the "-P4" just before the end of the catalog number. Example: Predator Catalog Number is 2ST52-5-P4; Predator Plus™ Catalog Number is 2ST52-5-PLUS-P4.

## PREDATOR™/PREDATOR PLUS™ 4" SUBMERSIBLE PUMPS

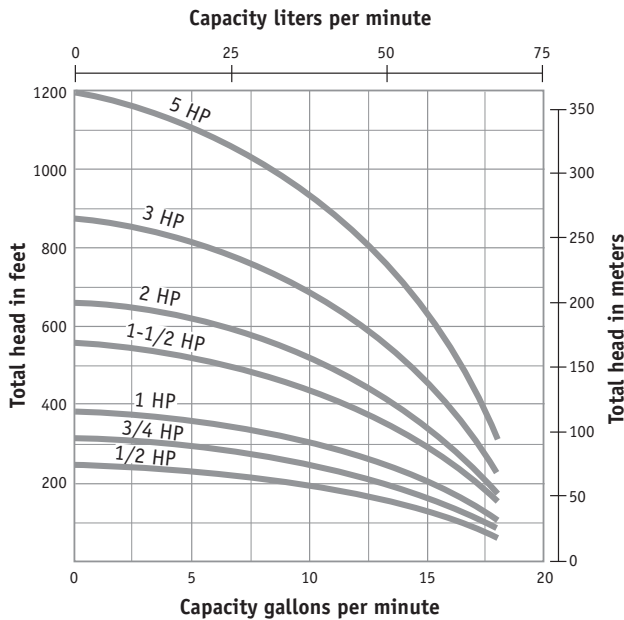
### PUMP PERFORMANCE - 5 GPM



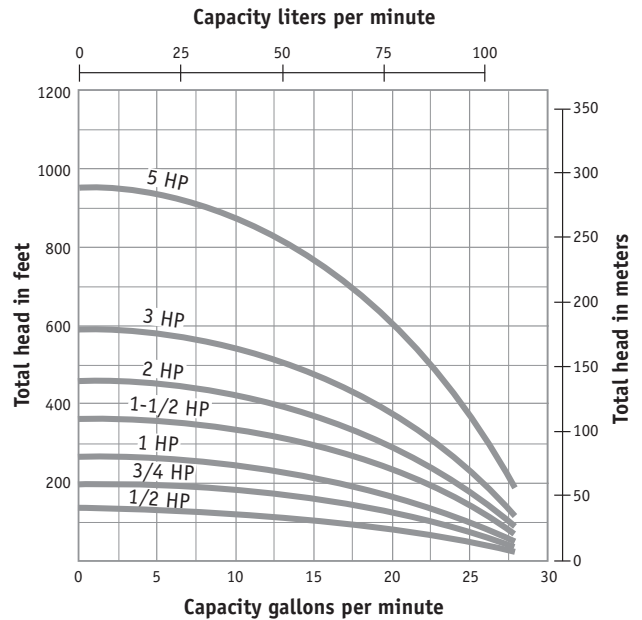
### PUMP PERFORMANCE - 8 GPM



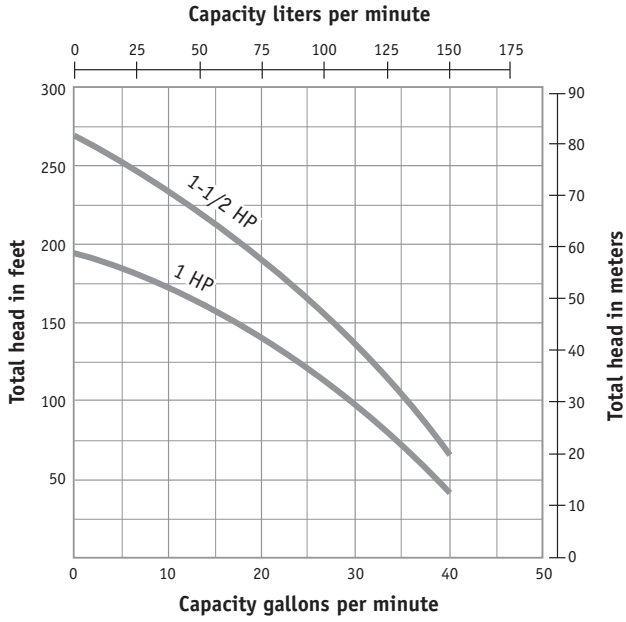
### PUMP PERFORMANCE - 12 GPM



### PUMP PERFORMANCE - 20 GPM



### PUMP PERFORMANCE - 25 GPM





## PREDATOR™/PREDATOR PLUS™ 4" SUBMERSIBLE PUMPS

### PUMP PERFORMANCE

HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pumping Depth in Feet																					
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	
<b>5 GALLONS PER MINUTE</b>																									
1/2	2ST51-5-P4*† 2ST52-5-P4†	3ST51-5-P4*† 3ST52-5-P4†	20/40																						
			30/50	8.2	8.2	8.0	7.7	7.4	7.0	6.6	6.2	5.8	5.3	3.7											
			40/60	7.9	7.9	7.6	7.3	6.9	6.5	6.2	5.7	5.2	4.6												
3/4	2ST72-5-P4†	3ST72-5-P4†	20/40																						
			30/50				8.0	7.8	7.6	7.4	7.2	6.8	6.6	6.1	5.3	4.2									
			40/60			8.0	7.7	7.6	7.3	7.1	6.7	6.5	6.2	5.3	4.3	3.5									
1	2ST102-5-P4†	3ST102-5-P4†	20/40																						
			30/50					8.0	8.0	8.1	7.9	7.7	7.6	7.1	6.5	5.9	5.3	4.4	3.3						
			40/60					8.0	7.8	7.7	7.6	7.4	7.2	6.6	6.0	5.6	4.9	3.9	2.5						
1-1/2	2ST152-5-P4†	3ST152-5-P4†	20/40																						
			30/50								8.2	8.0	7.9	7.6	7.3	6.9	6.5	6.0	5.5	5.0	4.4	3.6	2.4		
			40/60								8.2	8.0	7.9	7.6	7.3	6.8	6.5	6.0	5.5	5.0	4.4	3.6	2.4		
<b>8 GALLONS PER MINUTE</b>																									
1/2	2ST51-8-P4*† 2ST52-8-P4†	3ST51-8-P4*† 3ST52-8-P4†	20/40																						
			30/50	12.0	12.1	11.6	11.0	10.3	9.5	8.5	7.5	6.0													
			40/60	11.4	10.8	10.1	9.3	8.3	7.1	5.7	5.8														
3/4	2ST72-8-P4†	3ST72-8-P4†	20/40																						
			30/50				11.5	11.1	10.6	10.0	9.5	8.8	8.0	5.5											
			40/60			11.5	11.1	10.6	10.0	9.5	8.8	8.0	7.1												
1	2ST102-8-P4†	3ST102-8-P4†	20/40																						
			30/50						11.6	11.3	10.9	10.5	10.0	9.5	7.9	5.8									
			40/60					11.6	11.3	10.9	10.5	10.0	9.5	8.1	7.0	4.7									
1-1/2	2ST152-8-P4†	3ST152-8-P4†	20/40																						
			30/50								12.0	11.7	11.1	10.4	9.5	8.4	7.2	5.5							
			40/60								12.0	11.7	11.5	10.7	10.0	9.0	7.7	6.3	4.6						
2		3ST202-8†	20/40																						
			30/50												11.3	10.8	10.0	9.2	8.3	7.2	6.0				
			40/60												11.4	10.8	10.1	9.3	8.4	7.9	6.7	5.4			
3		3ST302-8†	20/40																						
			30/50															11.4	10.8	10.3	9.8	9.1	8.5	7.7	
			40/60															11.3	10.9	10.4	9.8	9.2	8.5	7.8	
<b>12 GALLONS PER MINUTE</b>																									
1/2	2ST51-12-P4*† 2ST52-12-P4†	3ST51-12-P4*† 3ST52-12-P4†	20/40																						
			30/50																						
			40/60	14.5	14.5	13.0	11.5	9.8	7.2	8.0															
3/4	2ST72-12-P4†	3ST72-12-P4†	20/40																						
			30/50				15.7	14.7	13.7	12.6	11.2	9.8	8.0												
			40/60		15.5	14.5	13.4	12.2	10.9	9.4	7.5														
1	2ST102-12-P4†	3ST102-12-P4†	20/40																						
			30/50					15.3	14.5	13.5	12.6	11.6	10.5	8.7											
			40/60					15.3	14.5	13.5	12.6	11.6	10.5	9.2											
1-1/2	2ST152-12-P4†	3ST152-12-P4†	20/40																						
			30/50																						
			40/60									15.4	14.9	14.3	12.8	11.0	8.5								
2		3ST202-12†	20/40																						
			30/50																						
			40/60													15.0	14.5	13.3	11.9	10.2	8.3				
3		3ST302-12†	20/40																						
			30/50																						
			40/60															15.2	14.3	13.3	12.2	11.0	9.7	9.0	

All pumps wired for 230 volt operation.

Values based on 1" minimum diameter pipe.

\*These 1/2 HP pumps are available with 115 Volt motors.

†To order this Predator™ model with Predator Plus™, specify "PLUS" in front of the "-P4" just before the end of the catalog number.

Example: Predator Catalog Number is 2ST51-5-P4; Predator Plus Catalog Number is 2ST51-5-PLUS-P4.

## PREDATOR™/PREDATOR PLUS™ 4" SUBMERSIBLE PUMPS

### PUMP PERFORMANCE

HP	2-Wire Cat. No.	3-Wire Cat. No.	Tank Pres.	Pumping Depth in Feet																					
				20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	
<b>20 GALLONS PER MINUTE</b>																									
3/4	2ST72-20-P4†	3ST72-20-P4†	20/40	23.5	22.0	20.0	17.0																		
			30/50	21.5	19.5	16.0																			
			40/60	19.5	16.0																				
1	2ST102-20-P4†	3ST102-20-P4†	20/40		24.5	23.0	22.0	20.5	18.0	15.5															
			30/50	24.0	23.0	21.5	20.0	17.5	14.5																
			40/60	23.0	21.5	20.0	17.5	14.5																	
1-1/2	2ST152-20-P4†	3ST152-20-P4†	20/40			24.5	23.5	22.5	21.5	20.5	19.0	17.0													
			30/50			24.5	23.5	22.5	21.5	20.0	18.5	16.5	14.5												
			40/60		24.5	23.5	22.5	21.5	20.0	18.5	16.5	14.5													
2		3ST202-20†	20/40						23.6	23.0	22.4	21.5	19.0	15.0											
			30/50						23.6	23.0	22.2	21.3	20.5	17.0											
			40/60					23.6	23.0	22.2	21.3	20.4	19.3	15.5											
3		3ST302-20†	20/40								24.5	23.7	22.4	20.8	18.5	15.4									
			30/50								24.0	23.7	23.1	22.5	21.0	18.8	15.5								
			40/60							24.0	23.6	23.1	22.5	21.0	18.8	15.8									
5		3ST502-20†	20/40												24.0	23.2	22.3	21.5	20.0	18.7	17.0	15.0			
			30/50												24.4	23.6	22.8	22.0	20.8	19.5	17.7	16.0			
			40/60												24.0	23.3	22.4	21.4	20.2	18.8	17.0	15.0			
<b>25 GALLONS PER MINUTE</b>																									
1	2ST102-25-P4†	3ST102-25-P4†	20/40		27.7	23.5	17.5																		
			30/50	26.7	21.8	16.1																			
			40/60	21.4	15.5																				
1-1/2	2ST152-25-P4†	3ST152-25-P4†	20/40			30.5	27.1	24.0	19.6	15.3															
			30/50			30.0	26.6	23.1	19.1	15.0															
			40/60	30.0	26.2	22.8	19.0																		

All pumps wired for 230 volt operation.

Values based on 1" minimum diameter pipe.

\*These 1/2 HP pumps are available with 115 Volt motors.

†To order this Predator™ model with Predator Plus™, specify "PLUS" in front of the "-P4" just before the end of the catalog number.

Example: Predator Catalog Number is 2ST51-5-P4; Predator Plus Catalog Number is 2ST51-5-PLUS-P4.