



**50L, 65L, 95L, 120L,
160L, 250L, 320L**

6" Stainless Steel Submersible Pumps

60 HZ HIGH CAPACITY - FOR 6" AND LARGER WELLS

FEATURES

Powered for Continuous Operation: All ratings are within the working limits of the motor. Pump can be operated continuously.

New Design Features: Cast 304 SS discharge head and motor adapter.

Field Serviceable: Easy to install and service. All parts easily dismantled if field service is ever necessary.

Diverse Application: Designed for commercial, municipal and agricultural water needs.

Stainless Steel Construction: Durable in most waters.

Bearings: Replaceable, silicon carbide bearings allow excellent abrasives handling and wear resistance.

Built-in Check Valve: Positive sealing, stainless steel check valve assembly incorporated into discharge head.

Impellers: New stainless steel impeller design provides improved efficiency.

Maximum Temperature: 140°F (60°C) for pump.

Four-Fluted Shaft Design: Four sided stainless steel shaft eliminates impeller keys and provides positive drive.

Coupling: Removable heavy duty stainless steel, splined coupling for maximum load-carrying capability.

Suction Strainer: Stainless steel strainer restricts gravel and other debris from entering the pump.

Cable Guard: Stainless steel cable guard surrounds and protects motor leads.

Fasteners: All fasteners are stainless steel.

CentriPro Motors: Designed to NEMA standards. Stainless steel casing resists corrosion. Water filled design provides a constant supply of lubrication. Hermetically sealed stator assures moisture free windings. Durable Kingsbury type thrust bearing absorbs all thrust. Replaceable motor lead assembly.

Certified to NSF/ANSI 61, Annex G.

SPECIFICATIONS

Model	Horsepower Range	Discharge Connection	Recommended GPM Operating Range	GPM at Best Efficiency	Minimum* Well Size	Rotation at Discharge End
50L	3 - 20	3" NPT	17 - 70	50	6" / 8" *	CCW
65L	3 - 40		20 - 90	65		
95L	5 - 40		25 - 130	90		
120L	5 - 50		40 - 170	120		
160L	3 - 60		50 - 240	160	6"	
250L	7.5 - 60		70 - 300	250		
320L	7.5 - 60	4" NPT	100 - 400	320		

* Minimum well size refers only to dimensional fit in a well, the specifier or installer must determine the minimum required well diameter that will insure an adequate supply of water to the pump and also properly cool the motor. See Water End Data Chart for specific diameter by model number.

AGENCY LISTINGS



NSF/ANSI 372 - Drinking Water System Components - Lead Content

CLASS 6853 01 - Low Lead Content Certification Program - Plumbing Products



Pump/Water End - Drinking Water System Components - Certified to NSF/ANSI 61, Annex G

"L" SERIES MATERIALS OF CONSTRUCTION

Ref. No.	Part Name	Material	Material Code
1	Discharge Head	Stainless steel	ASTM CF-8 (AISI 304 cast)
2	Check Valve Support	Stainless steel	ASTM CF-8 (AISI 304 cast)
3	Check Valve	Stainless steel	AISI 304 SS
4	Elastomers	Ethylene propylene	EPDM
5	Bolts and Screws	Stainless steel	AISI 304 SS
6	Shaft Sleeve and Bushing	Tungsten carbide	—
7	Thrust Bearing	PTFE+Graphite	—
8	Impeller	Stainless steel	AISI 304 SS
9	Diffuser	Stainless steel	AISI 304 SS
10	Spacer	Stainless steel	AISI 431 SS
11	Tie Rod	Stainless steel	AISI 304 SS
12	Cable Guard	Stainless steel	AISI 304 SS
13	Wear Rings	Technopolymer PPO	Engineered polymer
14	Strainer	Stainless steel	AISI 304 SS
15	Shaft	Stainless steel	AISI 431 SS
16	Shaft Coupling	Stainless steel	AISI 431 SS
17	Motor Adapter	Stainless steel	ASTM CF-8 (AISI 304 cast)

SYSTEM COMPONENTS

■ Pump/Water End:

- 50L-250L with 3" NPT discharge.
- 320L with 4" NPT discharge.
- 3 HP Water Ends Have 4" Motor Adapters
- 5 & 7.5 HP Water Ends Have Either a 4" or 6" Motor Adapter (see Water End Data chart)
- 10 HP and Larger Water Ends Have 6" Motor Adapters

■ Motor:

- 4" motor required for 3 HP and 5 HP pumps.
- 4" or 6" motors can be used for 7.5 HP pumps.
- 6" motor required for 10 HP and larger pumps.

■ **Control Box:** Required for all single phase motors.

■ **Magnetic Starter:** A magnetic starter with Class 10 overloads is required for all three phase units.

WATER ENDS AND MOTORS MUST BE ORDERED SEPARATELY AND ARE PACKAGED SEPARATELY.

ORDER NUMBER CODE

	65	L	03	
	50			Horsepower Code =
	65			HP
	95			03 = 3
	120			05 = 5 (4" motor)
	160			05-6 = 5 (6" motor)
	250			07-4 = 7.5 (4" motor)
	320			07 = 7.5 (6" motor)
Pump Size/ Gallons per minute at Best Efficiency Point				10 = 10
				15 = 15
				20 = 20
				25 = 25
				30 = 30
				40 = 40
				50 = 50
				60 = 60
Pump Series				

WATER END (PUMP) DATA

Model	Order No.	No. Stages	Min. HP Required	Required Motor Dia.	Dimensions & Weights					
					Length		Diameter		Weight	
					in.	mm	in.	mm	lbs.	kg.
50L	50L03	4	3	4	20.6	522	5.59	142	25	11
	50L05R**	7	5	4/6	25.8	656	5.67	144	35	16
	50L05**	8	5		27.8	706			40	18
	50L07**	11	7.5		33.3	844			49	22
	50L10	15	10	6	40.2	1020			57	26
	50L15	23	15		56.9	1446			82	37
	50L20	28	20		65.8	1670			94	43
65L	65L03	3	3	4	18.6	472	5.59	142	26	12
	65L05**	5	5	4/6	22.2	564	5.67	144	31	14
	65L07**	7	7.5		25.8	656			35	16
	65L10	10	10		31.3	794			44	20
	65L15	16	15	6	42.1	1070			60	27
	65L20	21	20		53.0	1346			75	34
	65L25	27	25		63.9	1622			90	41
	65L30*	32	30		98.7	2508	6.97*	177	220	100
	65L40*	41	40		115.0	2922			253	115
95L	95L05**	3	5	4/6	18.6	472	5.59	142	26	12
	95L07**	5	7.5	6	22.2	564	5.67	144	31	14
	95L10	7	10		25.8	656			35	16
	95L15	10	15		31.3	794			44	20
	95L20	14	20		38.5	978			53	24
	95L25	17	25		43.9	1116			62	28
	95L30	21	30		53.0	1346			75	34
	95L40*	28	40		67.3	1710	6.97*	177	156	71
120L	120L05**	2	5	4/6	16.8	426	5.59	142	22	10
	120L07**	3	7.5	6	19.5	495	5.67	144	26	12
	120L10	5	10		24.9	633			33	15
	120L15	7	15		30.4	771			40	18
	120L20	10	20		38.5	978			51	23
	120L25	12	25		43.9	1116			57	26
	120L30	15	30		52.1	1323			68	31
	120L40	20	40		65.7	1668			86	39
	120L50*	24	50		80.9	2055	6.97*	177	179	81
160L	160L03	1	3	4	14.5	367	5.59	142	18	8
	160L05**	2	5	4/6	17.2	436	5.67	144	22	10
	160L07**	3	7.5		19.9	505			26	12
	160L10	4	10		22.6	574			31	14
	160L15	6	15	6	28.0	712			37	17
	160L20	8	20		33.5	850			44	20
	160L25	9	25		36.2	919			46	21
	160L30	11	30		41.6	1057			53	24
	160L40	15	40		52.5	1333			68	31
	160L50	18	50		60.6	1540			77	35
	160L60	20	60		65.7	1668			86	39
250L	250L07**	2	7.5	4/6	20.8	528	5.67	144	26	12
	250L10	3	10	6	25.3	643			33	15
	250L15	5	15		34.4	873			44	20
	250L20	7	20		43.4	1103			55	25
	250L25	8	25		48.0	1218			60	27
	250L30	9	30		52.5	1333			66	30
	250L40	13	40		70.6	1793			88	40
	250L50	16	50		84.2	2138			104	47
	250L60	19	60		97.8	2484			128	58
320L	320L07**	2	7.5	4/6	21.8	553	5.67	144	27	12
	320L15	4	15	6	30.8	783			38	17
	320L20	5	20		35.4	898			45	20
	320L25	6	25		39.9	1013			50	22
	320L30	8	30		49.0	1243			61	27
	320L40	11	40		62.5	1588			78	35
	320L50	13	50		71.6	1818			89	40
	320L60	16	60		84.2	2138			104	47

* Note pump diameter - high pressure models have an exterior casing and larger diameters, verify they will fit your well.

** Pumps can be configured to accommodate a 4" or 6" motor. See product order code.

MOTOR DATA

NOTE: 4" diameter motors are required for 3 and 5 HP "L" Series pumps.

4" or 6" diameter motors can be used for 7.5 HP "L" Series pumps. See Water End Data Chart.

6" diameter motors are required for 10 HP and larger "L" Series pumps.

CENTRIPRO 4" MOTORS

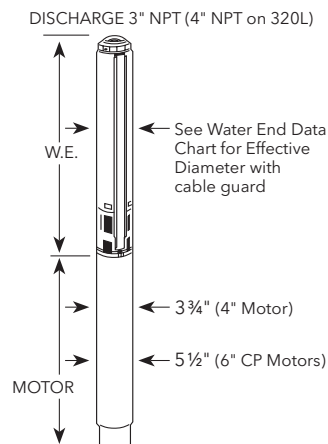
Single Phase Motors - Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length in. (mm)	Weight lbs. (Kg)
M30412	3	4"	230	18.3 (466)	40 (18.1)
M50412	5			27.7 (703)	70 (31.8)
Three Phase Motors - Dimensions and Weights					
M30430	3	4"	200	15.3 (389)	32 (14.5)
M30432			230		
M30434			460		
M50430	5	4"	200	21.7 (550)	55 (24.9)
M50432			230		
M50434			460		
M75430	7.5	4"	200	27.7 (703)	70 (31.8)
M75432			230		
M75434			460		

CENTRIPRO 6" MOTORS

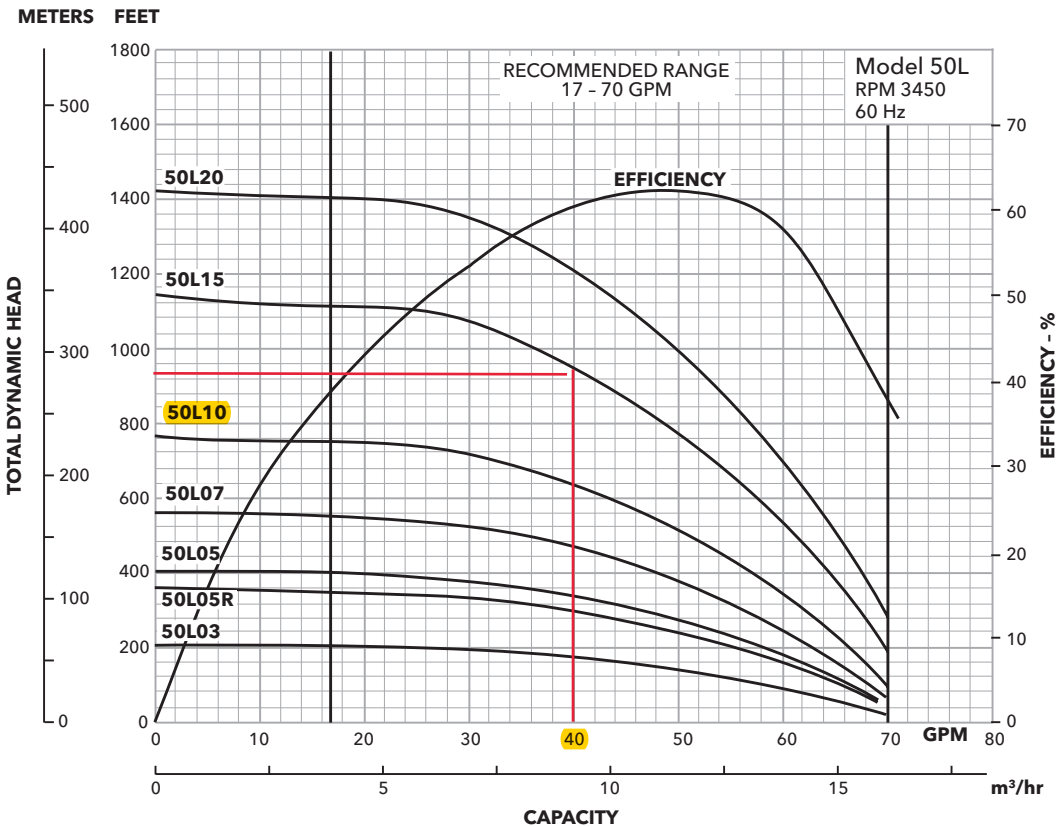
Single Phase Motors - Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
6M071	7.5	6"	230	29.9	128
6M101	10	6"	230		
6M151	15	6"	230	33.5	148
Three Phase Motors - Dimensions and Weights					
6M078	7.5	6"	200	24.8	99
6M072			230		
6M074			460		
6M108	10		200	27.0	110
6M102			230		
6M104			460		
6M158	15		200	29.9	128
6M152			230		
6M154			460		
6M208	20		200	31.5	137
6M202			230		
6M204			460		
6M258	25		200	36.2	161
6M252			230		
6M254			460		
6M308	30		200	38.2	176
6M302			230		
6M304			460		
6M404	40			40.6	187
66M504	50			41.7	198
86M504	50	6" x 8"		46.4	353

CENTRIPRO FM-SERIES 6" MOTORS

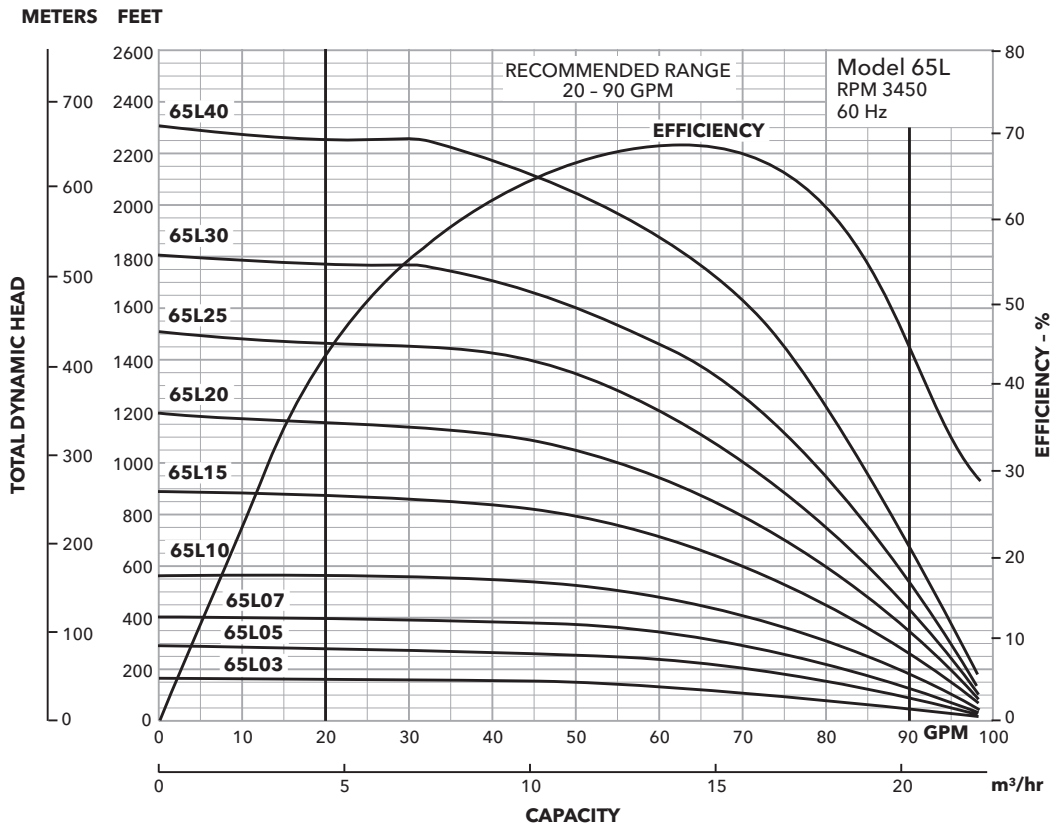
Single Phase Motors Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
6F051	5	6"	230	25.6	143
6F071	7.5			28.1	161
6F101	10			30.3	161
6F151	15			32.8	181
Three Phase Motors Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
6F058	5	6"	200-208	23.0	107.0
6F052			230		
6F054			460		
6F078	7.5		200-208	24.3	117.0
6F072			230		
6F074			460		
6F108	10		200-208	25.6	124.0
6F102			230		
6F104			460		
6F158	15		200-208	28.1	127.0
6F152			230		
6F154			460		
6F208	20		200-208	30.3	152.0
6F202			230		
6F204			460		
6F258	25		200-208	32.8	164.0
6F252			230		
6F254			460		
6F308	30		200-208	35.6	185.0
6F302			230		
6F304			460		
6F404	40		460	39.3	207.0
6F504	50		460	54.1	285.0



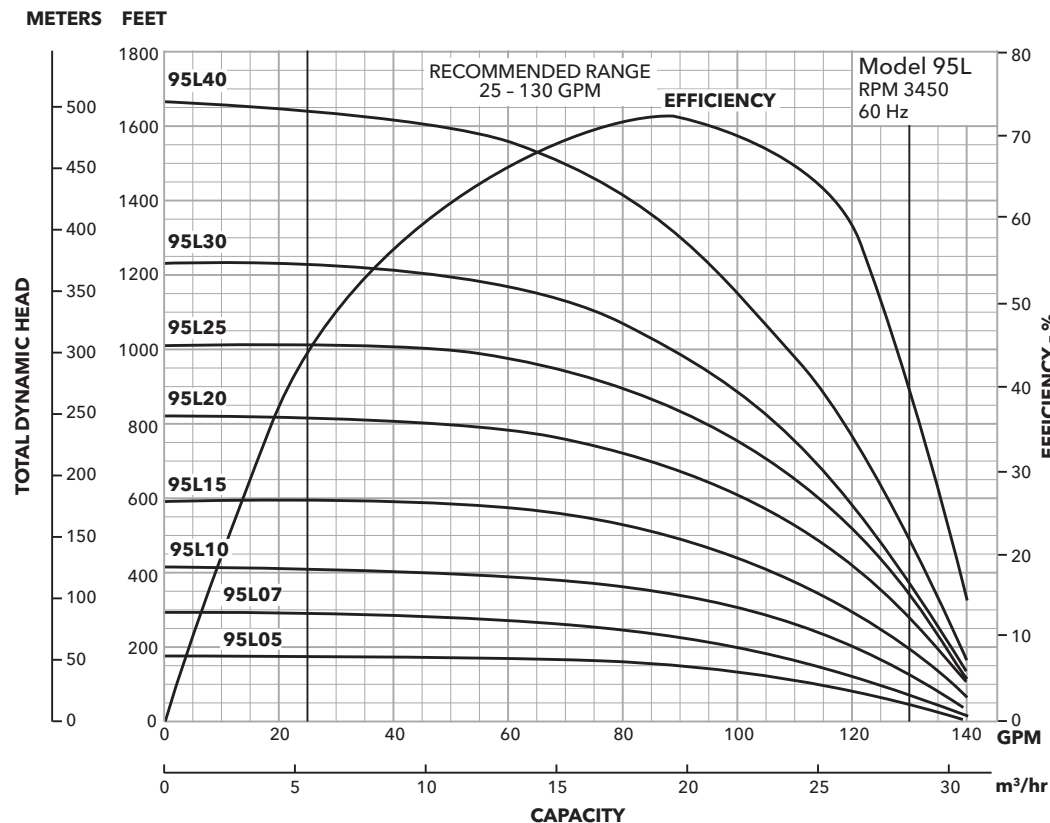
MODEL 50L



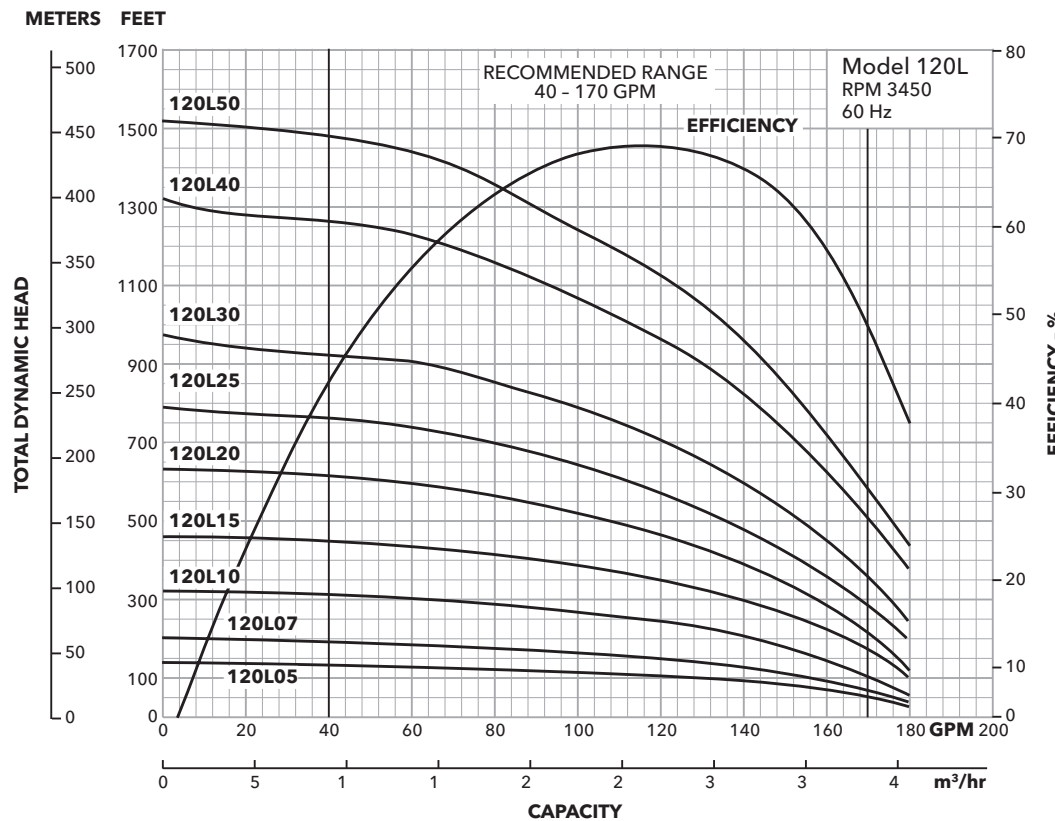
MODEL 65L



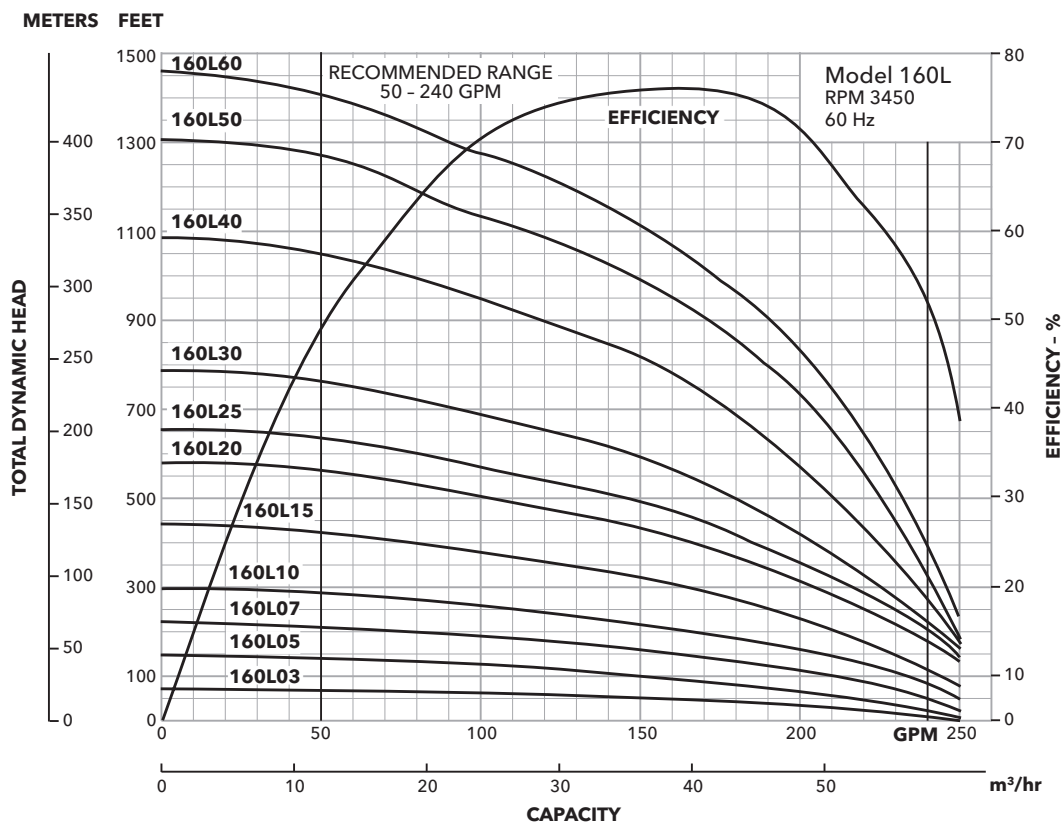
MODEL 95L



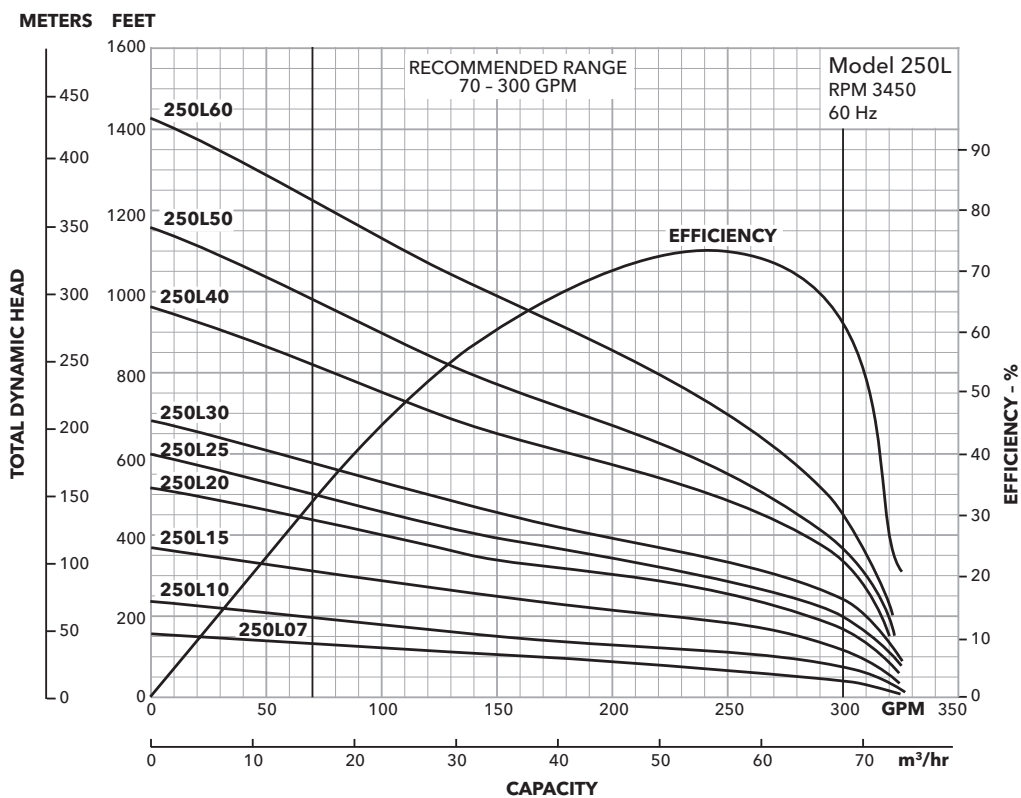
MODEL 120L



MODEL 160L

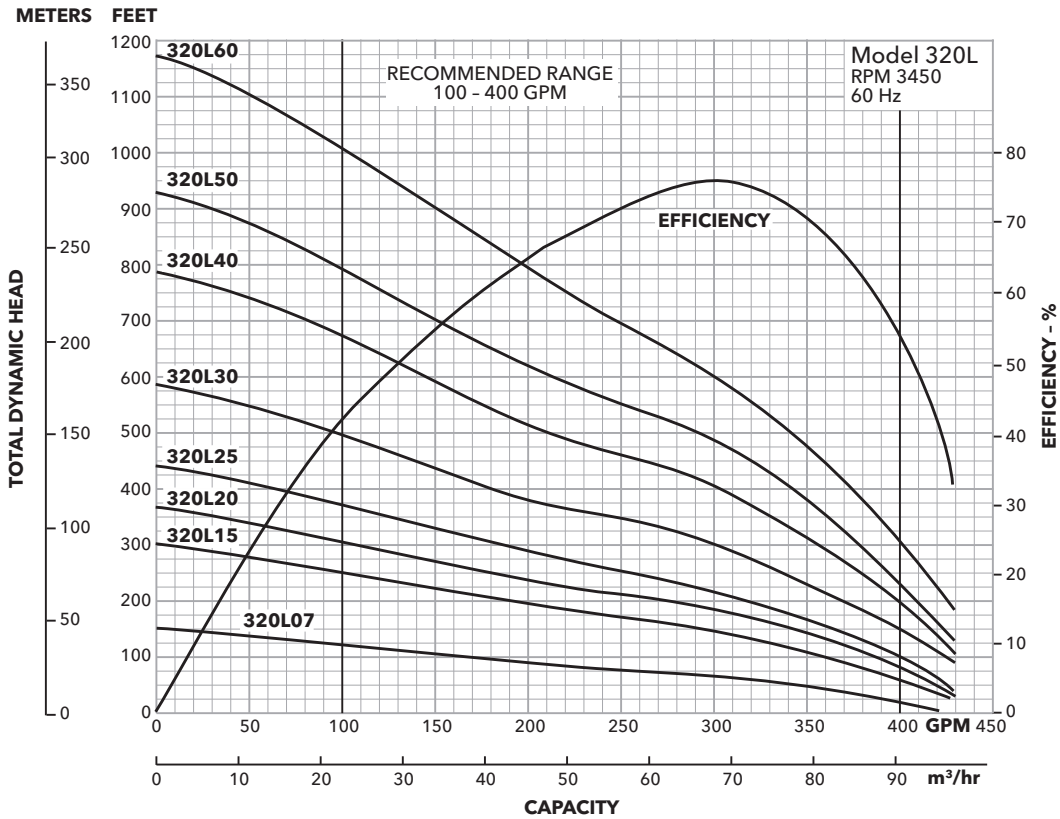


MODEL 250L



NOTE: On 250L, operation below minimum recommended flow will increase motor amp. draw and trip overloads.

MODEL 320L



NOTE: On 320L, operation below minimum recommended flow will increase motor amp. draw and trip overloads.

Residential Water Systems

MODEL 50L

SELECTION CHART

Horsepower Range 3 - 20, Recommended Range 17 - 70 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																															
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
50L03 4 Stages	3	0		74	68	62	58	50	42	21																						
		20	69	63	59	52	43	27																								
		30	63	59	52	44	29																									
		40	59	53	45	31																										
		50	53	45	33																											
		60	46	35																												
50L05R 7 Stages	5	0				56	72	67	62	59	58	54	48	44	40	27																
		20		49	72	68	62	60	58	55	49	44	41	31																		
		30	45	71	69	63	60	58	55	50	45	41	32																			
		40	71	69	63	60	58	55	50	45	41	33																				
		50	70	63	60	58	56	51	45	42	34																					
		60	64	60	59	56	51	46	42	35																						
50L05 8 Stages	5	0				65	74	72	68	64	62	60	58	54	50	46	42	36	21													
		20	62	73	72	68	65	62	61	58	55	51	47	43	37	24																
		30	73	73	69	65	63	61	58	55	51	47	43	37	26																	
		40	73	69	65	63	61	59	56	52	47	43	38	27																		
		50	69	65	63	61	59	56	52	48	44	39	28																			
		60	66	63	61	59	56	52	48	44	39	29																				
50L07 11 Stages	7.5	0				63	72	74	72	68	66	64	62	61	59	57	55	52	49	46	43	39	33	21								
		20		60	72	74	72	69	66	64	62	61	60	58	55	52	49	46	43	40	34	23										
		30	59	71	74	72	69	66	64	63	61	60	58	55	52	49	46	43	40	35	25											
		40	71	74	72	69	66	64	63	61	60	58	56	53	50	47	44	40	35	26												
		50	74	73	70	67	64	63	61	60	58	56	53	50	47	44	41	36	27													
		60	73	70	67	65	63	61	60	58	56	53	50	47	44	41	36	27														
50L10 15 Stages	10	0					57	68	73	74	73	71	68	66	65	63	62	61	60	59	57	56	54	51	49	47	45	43	40	36	30	21
		20				54	67	72	74	73	71	69	67	65	63	62	61	60	59	58	56	54	52	49	47	45	43	40	37	32	23	
		30		53	66	72	74	73	71	69	67	65	64	62	61	60	59	58	56	54	52	50	47	45	43	41	37	32	24			
		40	52	65	72	74	73	71	69	67	65	64	63	62	61	59	58	56	54	52	50	48	45	43	41	38	33	24				
		50	65	72	74	73	71	69	67	65	64	63	62	61	59	58	56	54	52	50	48	46	43	41	38	33	25					
		60	71	74	73	72	69	67	65	64	63	62	61	60	58	56	55	52	50	48	46	44	41	38	33	26						

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																
	HP	PSI	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
50L15 23 Stages	15	0				63	72	74	72	68	66	64	62	61	59	57	55	52	49	46	43	39	33	21									
		20			62	72	74	72	69	66	64	62	61	59	57	55	52	49	46	43	39	34	22										
		30		50	68	74	73	70	67	65	63	62	60	59	56	54	51	48	45	41	37	29											
		40	33	60	72	74	72	69	66	64	62	61	60	58	55	52	49	46	43	40	34	23											
		50	48	67	73	73	71	68	65	63	62	60	59	57	54	51	48	45	42	38	30												
		60	59	71	74	72	69	66	64	63	61	60	58	55	52	49	46	43	40	35	25												
50L20 27 Stages	20	0				57	68	73	74	73	71	68	66	65	63	62	61	60	59	57	56	54	51	49	47	45	43	40	36	30	21		
		20			56	67	73	74	73	71	68	66	65	63	62	61	60	59	58	56	54	52	49	47	45	43	40	37	31	22			
		30		46	62	71	74	74	72	70	67	66	64	63	62	61	60	58	57	55	53	50	48	46	44	42	39	34	27				
		40		54	67	72	74	73	71	69	67	65	63	62	61	60	59	58	56	54	52	49	47	45	43	40	37	32	23				
		50		44	61	70	73	74	72	70	68	66	64	63	62	61	60	59	57	55	53	51	48	46	44	42	39	35	28				
		60	30	53	66	72	74	73	71	69	67	65	64	62	61	60	59	58	56	54	52	50	47	45	43	41	37	32	24				

MODEL 65L

SELECTION CHART

Horsepower Range 3 - 40, Recommended Range 20 - 90 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																							
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900		
65L03 3 Stages	3	0			89	83	73	64	49																															
		20	84	75	65	53																																		
		30	75	66	59																																			
		40	66	56																																				
		50	58																																					
60																																								
65L05 5 Stages	5	0					89	85	81	75	68	60	47																											
		20			89	85	81	76	69	61	50	21																												
		30	90	86	82	76	69	62	51	25																														
		40	86	82	77	70	63	52	28																															
		50	82	77	71	63	53	31																																
60	78	71	64	54	34																																			
65L07 7 Stages	7.5	0					88	87	86	83	79	74	69	66	63	57	38																							
		20		91	89	88	86	84	80	75	70	66	64	59	43																									
		30		89	88	86	84	80	75	70	67	64	59	45																										
		40	89	88	87	84	81	76	71	67	64	60	46																											
		50	88	87	85	81	76	71	67	64	60	48																												
60	87	85	81	77	71	67	65	61	50																															
65L10 10 Stages	10	0					91	89	88	88	88	87	85	82	79	75	71	68	66	65	62	57	44																	
		20			91	89	88	88	88	87	85	83	79	76	72	69	67	65	63	58	47	23																		
		30			89	88	88	88	87	86	83	80	76	72	69	67	65	63	58	48	25																			
		40		89	88	88	88	87	86	83	80	76	72	69	67	65	63	59	49	28																				
		50	89	88	88	88	88	87	86	84	80	77	73	69	67	65	63	59	50	30																				
60	88	88	88	87	86	84	81	77	73	70	67	65	63	60	51	32																								
65L15 16 Stages	15	0						91	90	89	88	88	87	87	86	85	84	83	81	79	77	75	72	70	68	67	65	64	63	62	60	57	52	44	31					
		20						90	89	88	88	87	87	86	85	84	83	81	79	77	75	73	71	69	67	66	64	63	62	60	57	53	45	33						
		30					90	89	88	88	87	87	86	86	84	83	81	80	77	75	73	71	69	67	66	64	63	62	60	58	53	46	34							
		40				90	89	88	88	87	87	86	86	85	83	82	80	78	75	73	71	69	67	66	65	63	62	61	58	54	47	35								
		50			90	89	88	88	87	87	86	86	85	83	82	80	78	75	73	71	69	67	66	65	64	62	61	58	54	47	36	20								
60		90	89	88	88	88	87	87	86	85	83	82	80	78	77	73	71	69	67	66	65	64	62	61	58	54	48	37	22											
Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																							
HP	PSI	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700							
65L20 21 Stages	20	0						88	87	85	83	81	78	75	72	69	66	63	60	56	50	39																		
		20						88	87	85	84	81	79	76	72	69	66	63	61	57	51	40	20																	
		30						87	86	85	83	80	77	74	71	68	65	62	59	54	46	32																		
		40					88	87	85	84	82	79	76	73	69	66	64	61	57	51	41	22																		
		50					87	86	85	83	80	77	74	71	68	65	62	59	55	47	33																			
60				88	87	86	84	82	79	76	73	70	67	64	61	57	52	42	24																					
65L25 27 Stages	25	0				91	89	88	88	87	86	86	84	83	81	79	77	74	72	69	67	66	64	62	60	57	51	41	26											
		20				91	89	88	88	87	86	86	85	83	81	79	77	74	72	70	68	66	64	62	60	57	51	42	27											
		30				90	89	88	87	87	86	85	84	82	80	78	76	73	71	69	67	65	63	62	59	55	47	36												
		40		91	89	88	88	87	87	86	85	83	81	79	77	75	72	70	68	66	64	63	60	57	52	43	29													
		50		90	89	88	87	87	86	85	84	82	81	78	76	73	71	69	67	65	64	62	59	55	48	37														
60	91	90	89	88	87	87	86	85	83	82	80	77	75	72	70	68	66	64	63	61	57	52	44	30																
Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																							
HP	PSI	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700														
65L30 32 Stages	30	0					89	87	85	83	80	78	76	74	73	71	70	69	68	67	66	65	62	59	54	47	37													
		20					90	88	85	83	81	78	76	74	73	71	70	69	68	67	66	65	62	59	54	47	38													
		30					89	87	84	82	80	77	75	74	72	71	70	69	68	67	66	64	61	57	51	43	33													
		40				90	88	85	83	81	78	76	74	73	71	70	69	68	67	66	65	63	59	55	48	39														
		50				89	87	84	82	80	77	75	74	72	71	70	69	68	67	66	64	61	57	52	44	34														
60		90	88	86	83	81	79	77	75	73	71	70	69	68	68	66	65	63	60	55	49	40																		
Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																							
HP	PSI	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100										
65L40 41 Stages	40	0					89	87	85	83	81	79	78	76	74	72	71	69	68	66	65	64	62	60	58	56	53	49	45	39	32									
		20					89	87	85	83	81	80	78	76	74	72	71	69	68	66	65	64	62	61	59	56	53	50	45	39	32									
		30				90	88	86	84	82	81	79	77	75	73	72	70	69	67	66	65	63	62	60	58	55	52	48	43	36	28									
		40				89	87	85	84	82	80	78	76	74	72	71	69	68	67	65	64	62	61	59	56	54	50													

MODEL 95L

SELECTION CHART

Horsepower Range 5 - 40, Recommended Range 25 - 130 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																			
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	
95L05 3 Stages	5	0		128	128	117	99	88	38																											
		20	128	120	101	90	55																													
		30	121	102	90	62																														
		40	104	91	67																															
		50	91	72																																
		60	76																																	
95L07 5 Stages	7.5	0			128	124	122	117	108	97	89	81	58																							
		20		125	123	118	109	99	90	82	64																									
		30	125	123	118	110	99	90	83	66																										
		40	123	119	111	100	91	84	68																											
		50	119	111	101	91	84	70																												
		60	112	102	92	85	72	26																												
95L10 7 Stages	10	0					128	126	125	124	120	113	104	96	91	87	77	48																		
		20				128	126	125	124	120	114	106	98	92	87	79	54																			
		30			128	126	125	124	121	114	106	98	92	88	80	57																				
		40	129	126	125	124	121	115	107	99	92	88	81	60																						
		50	126	125	124	121	116	107	99	93	88	82	63																							
		60	125	125	122	116	108	100	93	89	83	65																								
95L15 10 Stages	15	0								129	126	125	125	125	123	120	116	110	104	99	94	91	88	82	71	45										
		20						129	127	125	125	125	123	121	117	111	105	100	95	91	88	83	73	50												
		30					130	127	125	125	125	124	121	117	112	106	100	95	91	88	84	74	52													
		40				130	127	126	125	125	124	121	117	112	106	100	95	92	89	84	75	55														
		50			130	127	126	125	125	124	121	118	112	107	101	96	92	89	85	76	57															
		60	130	127	126	125	124	122	118	113	107	101	96	92	89	85	77	59																		
95L20 14 Stages	20	0										130	128	127	126	125	125	124	122	120	117	114	110	106	102	98	94	91	89	86	82	75	63	43		
		20									130	128	127	126	125	125	124	123	121	118	114	110	106	102	98	95	92	89	86	82	76	65	47			
		30								130	128	127	126	125	125	124	123	121	118	115	111	107	102	99	95	92	89	87	83	77	66	48				
		40								128	127	126	125	125	124	123	121	118	115	111	107	103	99	95	92	90	87	83	77	67	50					
		50							129	127	126	125	125	124	123	121	118	115	111	107	103	99	96	92	90	87	83	78	68	52						
		60						129	127	126	126	125	124	123	121	119	115	112	108	103	99	96	93	90	87	84	78	69	53							

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																															
	HP	PSI	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	
95L25 17 Stages	25	0				128	126	126	126	125	122	116	109	102	96	91	88	83	67													
		20			127	126	126	126	124	120	114	106	99	94	90	86	78	56														
		30			129	126	126	126	125	122	117	110	103	96	92	88	84	71														
		40	129	127	123	120	117	114	110	106	101	95	89	81	70	49																
		50	128	126	126	126	124	124	120	114	107	100	94	90	87	79	59															
		60	127	126	126	125	122	118	111	104	97	92	89	84	72																	
95L30 21 Stages	30	0				130	127	126	125	125	124	122	119	115	111	106	101	96	92	89	85	78	66	42								
		20			130	127	126	125	125	124	122	120	116	111	106	101	96	93	89	85	79	67	45									
		30			129	127	126	125	125	123	121	118	114	109	104	99	95	91	88	83	74	58	29									
		40	130	127	126	125	125	124	123	120	116	112	106	101	97	93	89	86	80	68	47											
		50	129	127	126	125	125	124	122	118	114	109	104	99	95	91	88	83	75	60	32											
		60	128	126	125	125	124	123	120	116	112	107	102	97	93	90	86	80	69	49												
95L40 28 Stages	40	0					130	128	127	126	126	125	125	124	123	121	119	116	113	109	106	102	99	95	92	89	86	83	78	70	59	41
		20					130	128	127	126	126	125	125	124	123	121	119	116	113	110	106	102	99	96	92	90	87	83	78	71	60	43
		30					129	128	127	126	125	125	124	124	122	120	118	115	112	108	104	101	97	94	91	88	85	81	75	66	53	32
		40				130	129	127	126	126	125	125	124	123	121	119	117	113	110	106	103	99	96	93	90	87	83	79	72	61	44	19
		50			130	128	127	126	126	125	125	124	122	120	118	115	112	108	105	101	98	94	91	88	85	81	76	67	54			
		60	131	129	127	126	126	125	125	124	123	121	119	117	114	110	107	103	99	96	93	90	87	84	79	72	62	46				

MODEL 120L

SELECTION CHART

Horsepower Range 5 - 50, Recommended Range 40 - 170 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	
120L05 2 Stages	5	0		167	147	121	53																										
		20	150	126	68																												
		30	129	75																													
		40	82																														
		50																															
		60																															
120L07 3 Stages	7.5	0			166	153	138	116	74																								
		20	168	155	141	120	82																										
		30	156	142	122	86																											
		40	143	124	90																												
		50	126	93																													
		60	96																														
120L10 5 Stages	10	0				170	164	157	150	141	131	115	91	56																			
		20			165	158	151	143	132	118	95	62																					
		30		165	158	151	143	133	119	97	65																						
		40	166	159	152	144	134	120	99	68																							
		50	159	152	145	135	122	101	71																								
		60	153	145	136	123	103	74																									
120L15 7 Stages	15	0							170	163	155	148	142	136	130	121	109	90	63														
		20					171	164	156	149	143	137	131	123	111	94	68																
		30					164	157	150	143	137	131	123	112	95	70																	
		40				165	157	150	144	138	132	124	113	97	72																		
		50			165	158	151	144	138	132	125	114	98	74	40																		
		60		166	158	151	145	139	133	125	115	100	77	43																			
120L20 10 Stages	20	0								168	164	159	155	151	146	142	137	132	126	119	110	99	85	69	48								
		20					168	164	160	156	151	147	143	138	133	127	120	111	101	88	71	51											
		30					169	165	160	156	152	147	143	138	133	127	120	112	101	89	73	53											
		40				169	165	161	156	152	148	143	139	134	128	121	113	102	90	74	55												
		50			169	165	161	157	152	148	144	139	134	128	121	113	103	91	75	56													
		60		170	166	161	157	153	148	144	139	134	129	122	114	104	92	77	58														
120L25 12 Stages	25	0								169	165	160	156	151	147	143	139	135	130	126	121	116	109	101	91	78	63	44					
		20						170	165	161	156	152	147	143	139	135	131	127	122	117	110	102	92	80	65	47							
		30					170	166	161	157	152	148	143	139	135	131	127	122	117	111	103	93	81	67	49								
		40				170	166	162	157	152	148	144	140	136	132	127	123	117	111	103	94	82	68	50									
		50			171	166	162	157	153	148	144	140	136	132	128	123	118	112	104	95	83	69	52										
		60		171	167	162	158	153	149	144	140	136	132	128	124	118	112	105	95	84	70	53											

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																												
	HP	PSI	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
120L30 15 Stages	30	0					165	158	151	144	138	131	123	113	99	80	54												
		20				165	158	152	145	138	131	123	114	100	82	56													
		30			169	162	155	148	142	135	128	119	108	92	71	41													
		40			166	159	152	145	139	132	124	114	101	83	58														
		50		169	163	156	149	142	136	128	120	109	94	73	44														
		60		166	160	153	146	139	132	125	115	102	85	60															
120L40 20 Stages	40	0							170	166	161	156	150	145	140	134	129	123	115	107	96	82	65	42					
		20							166	161	156	151	145	140	135	129	123	116	108	97	83	66	44						
		30						169	164	159	154	148	143	138	132	126	120	112	103	91	76	57							
		40						167	162	156	151	146	140	135	130	124	117	108	98	85	68	46							
		50					169	164	159	154	149	143	138	133	127	120	113	104	92	77	58								
		60					167	162	157	151	146	141	135	130	124	117	109	99	86	69	48								
120L50 24 Stages	50	0									168	164	161	158	156	153	149	144	137	130	122	114	107	100	94	87	76	56	
		20									168	164	161	159	156	153	149	144	138	130	123	115	108	101	95	87	77	58	
		30									166	163	160	157	155	151	147	141	134	127	119	111	104	98	92	83	69		
		40							169	165	161	159	156	153	150	145	138	131	123	115	108	101	95	88	78	60			
		50						167	163	160	158	155	152	147	142	135	127	120	112	105	99	92	84	71					
		60						165	162	159	156	154	150	145	139	132	124	116	109	102	96	89	79	62					

Residential Water Systems

MODEL 160L

SELECTION CHART

Horsepower Range 3 - 60, Recommended Range 50 - 240 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																														
	HP	PSI	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250				
160L03	3	0	243	237	208	177	147	102																							
		10	198	167	136	86																									
		20	124	62																											
Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																														
HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
160L05 2 Stages	5	0	236	214	185	149	87																								
		20	190	155	100																										
		30	158	105																											
		40	111																												
160L07 3 Stages	7.5	0	231	239	227	207	184	158	123	68																					
		20	229	210	188	162	129	78																							
		30	212	189	164	132	83																								
		40	191	166	135	88																									
		50	168	138	92																										
60	140	97																													
160L10 4 Stages	10	0				233	218	203	185	164	137	103	57																		
		20		234	221	205	188	167	142	109	65																				
		30	235	222	206	189	169	144	111	69																					
		40	223	208	191	171	146	114	73																						
		50	209	192	172	148	117	76																							
60	193	174	150	120	80																										
160L15 6 Stages	15	0					239	231	222	212	201	190	178	164	148	129	104	74													
		20				232	223	213	203	192	180	166	151	132	108	79															
		30				233	224	214	204	193	181	167	152	134	110	81															
		40		234	225	215	204	193	182	169	153	135	112	84																	
		50	234	225	216	205	194	183	170	155	137	114	86	50																	
60	226	216	206	195	183	171	156	138	116	89	53																				
160L20 8 Stages	20	0							234	225	217	209	200	192	183	173	163	151	137	121	102	79	51								
		20					235	227	218	210	202	193	184	175	165	153	140	124	105	83	56										
		30					236	227	219	211	202	194	185	176	165	154	141	125	107	85	58										
		40				236	228	220	211	203	195	186	176	166	155	142	126	108	86	60											
		50			237	229	220	212	204	195	186	177	167	156	143	128	110	88	62												
60		237	229	221	213	204	196	187	178	168	157	144	129	111	90	65															
160L25 9 Stages	25	0							238	232	225	218	212	205	199	192	185	177	168	158	147	133	117	98	76	50					
		20					239	233	226	219	213	206	200	193	186	178	170	160	149	136	120	102	80	54							
		30				240	233	227	220	213	207	200	194	187	179	170	161	150	137	121	103	82	56								
		40			240	234	227	220	214	207	201	194	187	179	171	162	151	138	123	105	83	58									
		50			234	228	221	214	208	201	195	188	180	172	162	151	139	124	106	85	60										
60			235	228	221	215	208	202	195	188	181	172	163	152	140	125	108	87	62												
160L30 11 Stages	30	0								237	233	228	223	218	213	208	203	198	192	186	180	173	166	157	148	137	124	109	92	73	50
		20						238	233	229	224	219	214	209	204	199	193	187	181	175	167	159	149	139	126	112	95	76	54		
		30				238	234	229	224	219	214	209	204	199	194	188	182	175	168	159	150	139	127	113	96	77	56				
		40				239	234	229	224	220	215	210	205	199	194	188	182	176	168	160	151	140	128	114	98	79	57				
		50			239	234	230	225	220	215	210	205	200	194	189	183	176	169	161	152	141	129	115	99	80	59					
60			239	235	230	225	220	215	210	205	200	195	189	183	177	169	161	152	142	130	116	100	82	61							
Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																														
HP	PSI	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350		
160L40 15 Stages	40	0						238	230	222	214	207	199	192	184	175	166	154	139	122	99	72									
		20					239	235	231	223	215	207	200	192	185	176	166	155	141	123	101	74									
		30				239	235	231	227	219	211	204	196	189	181	172	161	149	133	114	89	59									
		40			239	235	231	227	223	215	208	200	193	185	177	167	156	142	125	103	76										
		50		240	236	232	228	224	220	212	204	197	189	181	172	162	150	134	115	91	62										
60	240	236	232	228	224	220	216	208	201	194	186	177	168	157	143	126	105	78													
160L50 18 Stages	50	0							239	233	228	223	218	213	208	202	196	189	181	171	160	148	133	116	97	74					
		20							239	234	229	224	219	214	208	203	196	189	181	172	161	149	134	118	98	76	51				
		30						239	237	231	226	221	216	211	206	200	193	186	177	167	156	142	127	109	88	65					
		40					239	237	234	229	224	219	214	209	203	197	190	182	173	162	150	135	119	100	78	53					
		50				240	237	234	232	227	222	217	212	206	200	194	186	178	168	157	143	128	110	90	67						
60			240	237	234	232	229	224	219	214	209	204	197	190	182	173	163	151	137	120	101	80	55								
160L60 20 Stages	60	0											237	230	224	219	213	207	201	195	189	182	174	165	155	144	130	114	96	74	
		20											237	231	225	219	213	207	202	196	189	182	175	166	156	145	131	115	97	76	50
		30											234	228	222	216	211	205	199	193	186	179	171	162	151	139	124	107	88	64	
		40										238	231	225	219	214	208	202	196	190	183	175	167</								

Residential Water Systems

MODEL 250L

SELECTION CHART

Horsepower Range 7.5 - 60, Recommended Range 70 - 300 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																		
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	
250L07 2 Stages	7.5	0		286	224	149	74																												
		20	235	161	85																														
		30	167	91																															
		40	96																																
		50																																	
		60																																	
250L10 3 Stages	10	0			294	259	213	160	105	68																									
		20	298	265	221	168	113	78																											
		30	268	224	173	117	83																												
		40	228	177	122	69																													
		50	181	126	72																														
		60	130	76																															
250L15 5 Stages	15	0					291	271	246	217	183	148	112	77																					
		20			294	275	250	221	189	153	117	82																							
		30		295	276	252	224	191	156	120	84																								
		40	296	278	254	226	194	159	123	87																									
		50	280	256	228	196	162	125	90																										
		60	258	231	199	164	128	92																											
250L20 7 Stages	20	0							301	291	277	257	233	205	175	145	117	94	75																
		20						293	280	261	237	209	179	149	121	97	78																		
		30					294	281	262	239	211	181	151	123	99	79																			
		40				295	282	264	241	214	184	154	125	101	80																				
		50			295	283	266	243	216	186	156	127	102	82																					
		60		296	284	267	245	218	188	158	129	104	83																						
250L25 8 Stages	25	0							298	289	275	258	238	216	192	167	143	121	101	83															
		20						299	290	277	261	241	219	195	171	147	124	104	86	70															
		30					300	291	279	262	243	221	197	173	149	126	105	87	71																
		40				300	292	280	264	244	223	199	175	150	128	107	88	72																	
		50			301	293	281	265	246	224	201	176	152	129	108	90	74																		
		60			293	282	266	248	226	203	178	154	131	110	91	75																			
250L30 9 Stages	30	0								299	289	277	264	249	233	216	198	180	160	141	121	102	83												
		20							300	290	279	266	251	236	219	201	182	163	144	124	105	86													
		30							291	280	267	253	237	220	202	184	165	145	126	106	87														
		40						292	281	268	254	238	221	204	185	166	147	127	108	89	70														
		50					293	282	269	255	240	223	205	187	168	148	129	109	90	72															
		60			294	283	270	256	241	224	206	188	169	150	130	111	92	73																	
250L40 13 Stages	40	0													300	295	287	278	266	253	239	224	209	194	179	165	151	138	125	113	101	90	79		
		20													296	289	279	268	255	241	226	211	197	182	167	153	140	127	114	103	91	80	69		
		30												297	289	280	269	256	242	227	213	198	183	168	154	141	128	115	104	92	81	70			
		40											297	290	281	270	257	243	229	214	199	184	169	155	142	129	116	104	93	82	71				
		50									297	291	282	270	258	244	230	215	200	185	170	156	143	130	117	105	94	83	72						
		60								298	291	282	271	259	245	231	216	201	186	172	157	144	131	118	106	95	84	73							

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																	
	HP	PSI	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	
250L50 16 Stages	50	0							300	295	289	283	276	269	261	253	245	236	227	218	208	198	188	177	166	156	145	134	123	111	100	89	79	
		20							296	290	284	277	270	262	255	246	238	228	219	209	199	189	179	168	157	146	135	124	113	102	91	80	70	
		30						296	291	284	278	271	263	255	247	238	230	220	210	200	190	180	169	158	147	136	125	114	103	92	81	71		
		40					297	291	285	278	271	264	256	248	239	230	221	211	201	191	180	170	159	148	137	126	115	104	93	82	71			
		50				297	291	285	279	272	264	256	248	240	231	221	212	202	192	181	171	160	149	138	127	116	105	94	83	72				
		60		298	292	286	279	272	265	257	249	240	231	222	212	203	192	182	171	161	150	139	128	117	106	95	84	73						

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																		
	HP	PSI	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	975	1000	1025	1050	1075	1100	1125	1150	1175	1200
250L60 19 Stages	60	0						298	294	289	284	278	271	263	255	246	236	227	217	206	196	185	174	164	154	144	134	124	115	107	99	91	84	77	70
		20					299	295	290	285	274	264	256	247	238	228	218	208	197	187	176	165	155	145	135	126	117	108	100	92	85	78	71		
		30				299	295	291	285	279	272	265	257	248	239	229	219	209	198	187	177	166	156	146	136	127	117	109	101	93	85	78	72		
		40			299	295	291	286	280	273	265	257	249	239	230	220	209	199	188	178	167	157	147	137	127	118	109	101	93	86	79	72			
		50	299	296	291	286	280	273	266	258	249	240	230	220	210	200	189	178	168	157	147	137	128	119	110	102	94	86	79	73					
60	296	292	287	281	274	267	259	250	241	231	221	211	200	190	179	169	158	148	138	129	119	111	102	94	87	80	73								

MODEL 320L

SELECTION CHART

Horsepower Range 7.5 – 60, Recommended Range 100 – 400 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
	HP	PSI	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650
320L07 2 Stages	7.5	0		343	262	172																						
		20	275	186																								
		30	193	100																								
		40	107																									
		50																										
		60																										
320L15 4 Stages	15	0		392	393	370	332	286	237	189	143																	
		20	394	374	338	293	245	196	150	105																		
		30	376	341	297	248	200	153	108																			
		40	344	300	252	204	157	112																				
		50	304	256	207	160	115																					
		60	260	211	164	119																						
320L20 5 Stages	20	0				391	365	336	303	267	228	188	147	105														
		20		394	370	341	308	273	234	194	153	112																
		30	396	372	343	311	275	237	197	156	115																	
		40	374	345	313	278	240	200	159	118																		
		50	348	316	281	243	203	162	121																			
		60	319	284	246	207	166	124																				
320L25 6 Stages	25	0					387	366	343	316	288	257	225	191	157	123												
		20			390	370	346	320	292	262	230	196	162	128														
		30		392	371	348	322	294	264	232	199	165	130															
		40	393	373	350	324	296	266	235	201	167	133																
		50	375	352	326	299	269	237	204	170	136	101																
		60	354	328	301	271	239	206	173	138	104																	
320L30 8 Stages	30	0						391	375	357	336	314	291	267	242	217	192	166	141	116								
		20					393	378	360	340	318	295	271	246	221	196	170	145	120									
		30				395	379	361	341	319	296	273	248	223	197	172	147	122										
		40			396	380	363	343	321	298	274	250	225	199	174	149	124											
		50		397	382	364	344	323	300	276	252	227	201	176	151	125	100											
		60	398	383	365	346	324	302	278	254	229	203	178	153	127	102												
320L40 11 Stages	40	0							399	388	375	361	346	331	314	297	280	262	244	225	207	188	169	150	131	113		
		20							390	377	363	349	333	317	300	282	265	246	228	209	191	172	153	134	115			
		30						390	378	365	350	334	318	301	284	266	248	229	211	192	173	155	136	117				
		40						391	379	366	351	336	319	302	285	267	249	231	212	194	175	156	137	118				
		50					392	380	367	352	337	321	304	286	269	251	232	214	195	176	158	139	120	101				
		60				393	381	368	353	338	322	305	288	270	252	234	215	196	178	159	140	121	102					

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
	HP	PSI	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775		
320L50 13 Stages	50	0					395	387	378	367	355	343	330	316	301	286	270	254	238	222	205	188	172	155	138	122	106	
		20		396	388	379	369	357	345	332	318	303	288	273	257	241	224	208	191	174	158	141	124	108	146	135		
		30	397	389	380	369	358	346	333	319	304	289	274	258	242	225	209	192	176	159	142	126	109	147	136	125		
		40	390	381	370	359	347	334	320	306	291	275	259	243	227	210	193	177	160	143	127	111						
		50	381	371	360	348	335	321	307	292	276	260	244	228	211	195	178	161	145	128	112							
		60	372	361	349	336	322	308	293	277	262	246	229	213	196	179	163	146	129	113								

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																																			
	HP	PSI	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	975	1000	
320L60 16 Stages	60	0							395	389	383	376	368	360	351	341	331	320	308	295	281	268	253	239	224	209	195	181	167	154	142	130	120	109	100	
		20						396	390	384	377	369	361	352	343	332	321	309	297	284	270	255	241	226	212	197	183	169	156	144	132	121	111	101		
		30					397	391	384	377	370	362	353	344	333	322	310	298	285	271	257	242	227	213	198	184	170	157	145	133	122	112	102			
		40					397	391	385	378	370	362	354	344	334	323	311	299	286	272	258	243	228	214	199	185	171	158	146	134	123	112	103			
		50		398	391	385	378	371	363	354	345	335	324	312	300	287	273	259	244	230	215	200	186	172	159	146	135	124	113	103						
		60	398	392	386	379	372	364	355	346	336	325	313	301	288	274	260	245	231	216	201	187	173	160	147	136	124	114	104							

xylem
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