

Water Systems

Product Catalog

- Jet Pumps • Lawn Sprinkler Pumps • End Suction Centrifugal Pumps
- Pressure Tanks • 4" Submersible Well Pumps



Franklin Electric

Wastewater

Water Systems

HVAC

Industrial

Engineered
Products

LittleGIANT®

Pumps. People. Partnerships.

Brand new. Brand known.

Introducing a new-but-proven line of heavy-duty pumps for plumbing contractors.

Jet Pumps – Shallow Well Applications

- For applications with a vertical distance of 25 feet or less
- Cast iron casing and seal plate
- Precision-engineered thermoplastic impeller, diffuser, nozzle and venturi
- A.O. Smith higher than standard NEMA factor dual compartment motors

See page 3 for more information.

Jet Pumps – Convertible Well Applications

- For applications with a vertical distance of 90 feet or less
- Cast iron casing and seal plate
- Precision-engineered thermoplastic impeller, diffuser, nozzle and venturi
- A.O. Smith higher than standard NEMA factor dual compartment motors

See page 4 for more information.

Sprinkler / Irrigation Pumps

- For residential and commercial lawn and turf applications
- Self-priming
- Cast iron casing
- Includes LSP Series sprinkler pumps and CP Series end suction centrifugal pumps

See pages 5-6 for more information.

Pressure Tanks – Water Well and Pressure Boosting

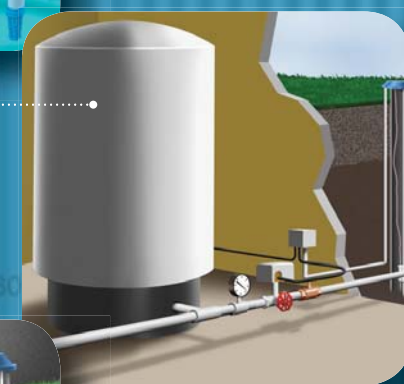
- Patented, controlled action, double diaphragm assembly is completely contained in a pre-pressurized air cushion to reduce condensation
- Quality tested at four different stages on the production line
- Welded malleable water connection withstands aggressive water

See pages 7-8 for more information.

4" Submersible Pumps – Deep Well Applications

- For new installs or replacements
- Performance ranges from 5 to 22 GPM
- Thermoplastic or stainless steel
- Powered by Franklin Electric technically superior submersible motors

See pages 9-16 for more information.



See your distributor for more information, or call Franklin Electric directly at 1-800-701-7894.

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Table of Contents

Jet Pumps

Shallow Well Jet Pumps	3
Convertible Jet Pumps	4

Lawn Sprinkler Pumps

LSP Series.....	5
-----------------	---

End Suction Centrifugal Pumps

CP Series	6
-----------------	---

Pressure Tanks

T Series	7-8
----------------	-----

4" Submersible Well Pumps

5 GPM	9-10
8 GPM	11-12
12 GPM	13-14
22 GPM	15-16
Control Boxes	16
Friction Loss Chart	17
Glossary	18

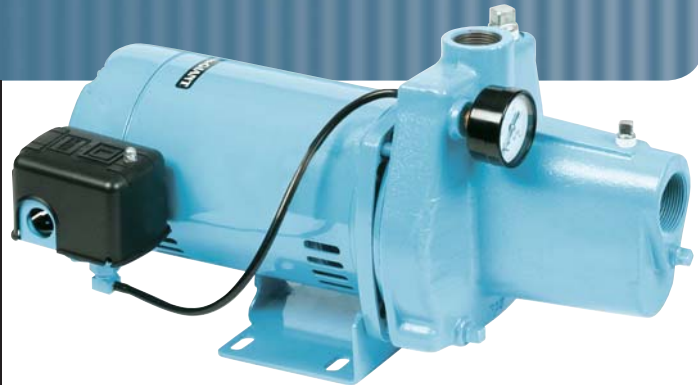
Shallow Well Jet Pumps

Applications

- For supplying fresh water to rural homes, farms and cabins
- For installations where the vertical distance from the pump to the pumping water level does not exceed 25 feet (7.6 m)

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motor
- Dual voltage 115/230v
- Square D pressure switch preset at 30-50 PSI
- 1-1/4" (31.7 mm) suction, 1" NPT (25.4 mm) discharge and brass flow control valve
- Pressure gauge included with all models
- Stainless steel motor shaft and dual ball bearings
- Precision-engineered thermoplastic impeller, diffuser, nozzle and venturi
- Clean-out plug to easily unclog nozzle
- Fully serviceable with two-year warranty



Model Characteristics

1/2 HP

Item #	Model	Total Suction Lift (ft. / m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Maximum Pressure
			20	25	30	35	40	45	50	55	60	
558274	JP-050-C	5 (1.5)	12.8 (48.5)	12.5 (47.3)	12.3 (46.6)	12.1 (45.8)	11.2 (42.4)	9.5 (36)	6.9 (26.1)	4.3 (16.3)	2 (7.6)	64.2 (4.5kg/cm ²)
		10 (3.1)	11.5 (43.5)	11.3 (42.8)	11 (41.6)	10.8 (40.9)	10.4 (39.4)	8.5 (32.2)	6 (22.7)	3.4 (12.9)	1 (3.8)	62 (4.4kg/cm ²)
		15 (4.6)	9.8 (37.1)	9.7 (36.7)	9.6 (36.4)	9.5 (36)	9.4 (35.6)	7.3 (27.7)	4.7 (17.8)	2.2 (8.3)	–	59.9 (4.2kg/cm ²)
		20 (6.1)	8.3 (31.4)	8.1 (30.7)	7.8 (29.5)	7.7 (29.2)	7.6 (28.8)	5.7 (21.6)	3.5 (13.3)	1 (3.8)	–	57.7 (4.06kg/cm ²)
		25 (7.6)	5.6 (21.2)	5.5 (20.8)	5.5 (20.8)	5.4 (20.5)	5.3 (20.1)	4.1 (15.5)	2.3 (8.7)	0.2 (.8)	–	55.5 (3.9kg/cm ²)

3/4 HP

Item #	Model	Total Suction Lift (ft. / m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Maximum Pressure
			20	25	30	35	40	45	50	55	60	
558275	JP-075-C	5 (1.5)	16.2 (61.3)	16 (60.6)	15.8 (59.8)	15.6 (59.1)	15.4 (58.3)	12.1 (45.8)	8.7 (33)	5.7 (21.6)	2.9 (11)	65 (4.6kg/cm ²)
		10 (3.1)	14.3 (54.1)	14 (53)	13.7 (51.9)	13.5 (51.1)	13.2 (50)	10.6 (40.1)	7.6 (28.8)	4.6 (17.4)	1.6 (6.1)	62.8 (4.4kg/cm ²)
		15 (4.6)	12.1 (45.8)	11.7 (44.3)	11.3 (42.8)	11 (41.7)	10.6 (40.1)	9.3 (35.2)	6.3 (23.9)	3.2 (12.1)	0.2 (.8)	60.6 (4.3kg/cm ²)
		20 (6.1)	9.9 (37.5)	9.6 (36.3)	9.3 (35.2)	9 (34.1)	8.7 (33)	7.8 (29.5)	4.8 (18.2)	1.9 (7.2)	–	58.5 (4.1kg/cm ²)
		25 (7.6)	7.2 (27.3)	7.1 (26.9)	7 (26.5)	6.9 (26.1)	6.8 (25.8)	6.7 (25.4)	3.5 (13.3)	0.6 (2.3)	–	56.3 (4kg/cm ²)

1 HP

Item #	Model	Total Suction Lift (ft. / m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI										Maximum Pressure
			20	25	30	35	40	45	50	55	60	65	
558276	JP-100-C	5 (1.5)	24.8 (93.9)	24.7 (93.5)	23.2 (87.8)	19.8 (75)	16.5 (62.5)	13.1 (49.6)	9.5 (36)	6.3 (23.9)	3.4 (12.9)	0.5 (1.9)	66.2 (4.7kg/cm ²)
		10 (3.1)	21.5 (81.4)	21.2 (80.3)	20.1 (76.1)	18.4 (69.7)	15.2 (57.6)	11.5 (43.6)	7.9 (29.9)	4.9 (18.6)	2.4 (9.1)	–	64.2 (4.5kg/cm ²)
		15 (4.6)	18.1 (68.5)	17.8 (67.7)	17.4 (65.9)	16.7 (63.2)	13.8 (52.2)	10.3 (39)	6.9 (26.1)	4 (15.1)	1.3 (4.9)	–	62.1 (4.4kg/cm ²)
		20 (6.1)	14.4 (54.5)	14.3 (54.2)	14.2 (53.8)	14.6 (55.3)	12.3 (46.7)	9 (34.1)	5.3 (20.1)	2.3 (8.7)	0.2 (.6)	–	60.1 (4.2kg/cm ²)
		25 (7.6)	10.5 (39.8)	10.5 (39.8)	10.4 (39.4)	10.3 (39)	8.8 (33.3)	7 (26.5)	4.2 (15.9)	1.3 (4.9)	–	–	57.2 (4kg/cm ²)

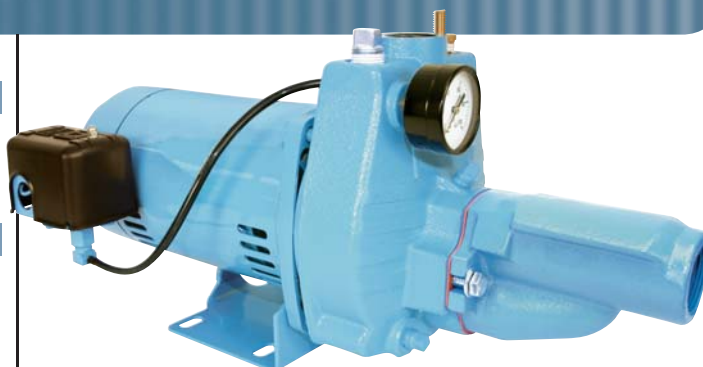
Convertible Jet Pumps

Applications

- For supplying fresh water to rural homes, farms and cabins
- For installations where the vertical distance from the pump to the pumping water level does not exceed 90 feet (27.4 m)

Features

- Cast iron casing and seal plate for durability and long life
- A.O. Smith higher than standard NEMA service factor dual compartment motor
- Dual voltage 115/230v
- Square D pressure switch preset at 30-50 PSI
- 1-1/4" (31.7 mm) suction, 1" NPT (25.4 mm) discharge and brass flow control valve
- Pressure gauge included with all models
- Stainless steel motor shaft and dual ball bearings
- Precision-engineered thermoplastic impeller, diffuser, nozzle and venturi
- Deep well venturi supplied with all models
- Fully serviceable with two-year warranty



Model Characteristics

1/2 HP

Item #	Model		Total Suction Lift (ft. / m)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Maximum Pressure
				20	25	30	35	40	45	50	55	60	
558281	JPC-050-C	Shallow	5 (1.5)	11.1 (42)	11 (41.6)	10.9 (41.3)	10.8 (40.9)	10.7 (40.5)	9.2 (34.8)	7.4 (28.1)	5.9 (22.4)	4.5 (17.1)	76.2 (5.3kg/cm²)
			15 (4.6)	8.1 (31.7)	8 (30.3)	7.9 (29.9)	7.8 (29.5)	7.7 (29.2)	7.3 (27.7)	5.9 (22.4)	4.4 (16.7)	3.1 (11.8)	71.7 (5.1kg/cm²)
			25 (7.6)	4.8 (18.2)	4.8 (18.2)	4.7 (17.8)	4.7 (17.8)	4.6 (17.4)	4.5 (17.1)	4.4 (16.7)	3.2 (12.1)	1.9 (7.2)	67.5 (4.8kg/cm²)
		Deep	20 (6.1)	—	10.7 (3.3)	9.2 (2.8)	7.8 (2.4)	6.5 (2.0)	5.4 (1.7)	4.5 (1.4)	3.6 (1.1)	2.9 (.9)	85 (5.8kg/cm²)
			50 (15.3)	—	6.8 (2.1)	5.8 (1.8)	4.8 (1.5)	4.0 (1.2)	3.2 (1)	2.4 (.08)	1.8 (.6)	1.3 (.4)	72 (5.1kg/cm²)
			80 (24.4)	—	4.1 (1.3)	3.4 (1.1)	2.8 (.85)	2.2 (.07)	1.6 (.49)	1 (.3)	0.4 (.01)	—	59 (4.2kg/cm²)

3/4 HP

Item #	Model		Total Suction Lift (ft.)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Maximum Pressure
				20	25	30	35	40	45	50	55	60	
558282	JPC-075-C	Shallow	5 (1.5)	18.2 (69)	17.9 (67.8)	17.7 (67)	16.6 (62.8)	14.3 (54.2)	12 (45.4)	9.7 (36.7)	7.4 (28)	5.1 (18.9)	71 (5kg/cm²)
			15 (4.6)	12.7 (48.1)	12.5 (47.3)	12.4 (47)	12.2 (46.2)	12 (45.5)	9.9 (37.5)	7.5 (28.4)	5.3 (20.1)	3 (11.4)	66.7 (4.7kg/cm²)
			25 (7.6)	7.7 (29.2)	7.5 (28.1)	7.4 (28)	7.1 (26.9)	6.9 (26.1)	6.7 (25.4)	5 (18.9)	3 (11.4)	1 (3.8)	62.4 (4.4kg/cm²)
		Deep	20 (6.1)	—	11.5 (43.6)	9.8 (37.1)	7.6 (28.8)	6.8 (25.8)	5.7 (21.6)	4.7 (17.8)	3.8 (14.4)	3 (11.4)	86 (6.1kg/cm²)
			50 (15.3)	—	7.4 (28)	6.1 (23.1)	5.1 (19.3)	4.1 (15.5)	3.3 (12.5)	2.5 (9.5)	1.9 (7.2)	1.3 (5)	73 (5.13kg/cm²)
			90 (27.5)	—	4.5 (17.1)	3.5 (13.3)	2.8 (10.6)	2.1 (8.0)	1.5 (5.7)	1.0 (3.8)	.5 (1.9)	—	60 (4.2kg/cm²)

1 HP

Item #	Model		Total Suction Lift (ft.)	Pump Capacity GPM (LPM) Discharge Pressure in PSI									Maximum Pressure
				20	25	30	35	40	45	50	55	60	
558283	JPC-100-C	Shallow	5 (1.5)	20.2 (76.4)	20.1 (76.1)	19.9 (75.3)	19.5 (73.8)	16.7 (63.2)	13.9 (52.6)	11.1 (42.0)	8.3 (31.4)	5.6 (21.2)	71 (5kg/cm²)
			15 (4.6)	14.5 (54.8)	14.3 (54.2)	14.1 (53.4)	13.8 (52.3)	13.6 (51.5)	11.4 (43.2)	8.7 (33)	6 (22.7)	3.3 (12.5)	66.7 (4.7kg/cm²)
			25 (7.6)	9.1 (34.5)	8.9 (33.7)	8.8 (33.3)	8.7 (33)	8.6 (32.6)	8.5 (32.2)	6 (22.7)	3.6 (13.6)	1.2 (4.6)	62.4 (4.4kg/cm²)
		Deep	20 (6.1)	—	12.8 (48.5)	10.5 (39.8)	8.7 (33)	7.3 (27.7)	6.6 (25)	5.2 (19.7)	4.4 (16.7)	3.6 (13.6)	87 (6.1kg/cm²)
			50 (15.3)	—	8.4 (31.8)	7.2 (27.3)	6 (22.7)	5 (18.9)	4.2 (15.9)	3.4 (12.9)	2.6 (9.9)	1.9 (7.2)	74 (5.2kg/cm²)
			90 (27.5)	—	4.3 (16.3)	3.4 (12.9)	2.7 (10.2)	1.9 (7.2)	1.8 (6.8)	.7 (2.7)	—	—	56.7 (4kg/cm²)

Lawn Sprinkler

LSP SERIES



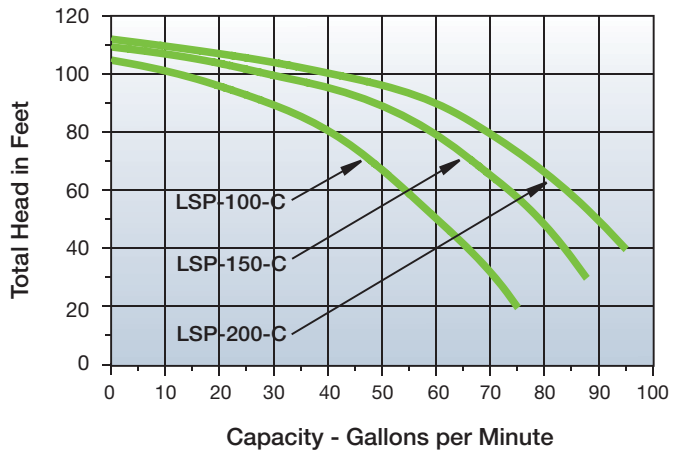
Applications

- Ideal for both residential and commercial lawn and turf sprinkler systems, irrigation, gardens and general water transfer

Features

- Self priming
- Cast iron casing and seal plate for durability and long life
- Single-phase capacitor start, 115/230 dual voltage on 1 HP and 1-1/2 HP models. Higher than standard NEMA service factors (230V on 2 HP model)
- Standard 5/8" rotating mechanical seal, for a reliable seal against water leakage
- 2" NPT (51 mm) suction, 1-1/2" NPT (38 mm) discharge
- Priming plug to facilitate priming
- Drain plug for easy drainage of pump
- Fully serviceable with two-year warranty

Performance Curve



Model Characteristics

Item #	Model	HP	Pump Capacity GPM (LPM) Discharge Pressure in PSI @ 5' (1.5 m) Lift				Maximum
			10	20	30	40	
558294	LSP-100-C	1	72 (272.5)	62 (234.7)	46 (174.1)	20 (75.7)	46 (3.3kg/cm²)
558295	LSP-150-C	1-1/2	90 (340.7)	80 (302.9)	64 (242.3)	40 (151.4)	47 (3.3kg/cm²)
558296	LSP-200-C	2	97 (367.2)	90 (340.7)	74 (280.1)	47 (177.9)	48 (3.4kg/cm²)

End Suction Centrifugal Pumps

CP SERIES



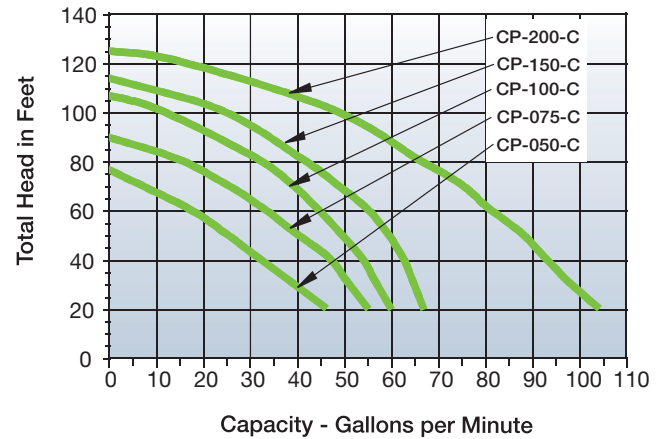
Applications

- Ideal for water transfer, booster and lift applications for irrigation

Features

- 115/230v 60 Hz
- 3600 RPM, single phase; square flange motor
- Thermal overload protection and higher than standard NEMA service factor
- Glass-filled thermoplastic impeller for increased efficiency
- Large drain hole and shaft flinger in adapter bracket prevents moisture from damaging bearings
- Ports for air bleeding when priming and drainage to prevent frost damage
- Fully serviceable with two-year warranty

Performance Curve



Model Characteristics

Item #	Model	HP	Suction NPT	Discharge NPT	Total Head in Feet Capacities in U.S. GPM (LPM)								
					20	30	40	50	60	70	80	100	120
558240	CP-050-C	1/2	1-1/4"	1"	46 (174)	38 (144)	32 (121)	24 (91)	15 (57)	—	—	—	—
558241	CP-075-C	3/4	1-1/4"	1"	55 (208)	52 (197)	47 (178)	38 (144)	32 (121)	25 (95)	15 (57)	—	—
558242	CP-100-C	1	1-1/4"	1"	60 (227)	57 (216)	54 (205)	49 (186)	44 (167)	39 (148)	32 (121)	12 (46)	—
558243	CP-150-C	1-1/2	1-1/4"	1"	67 (254)	65 (246)	63 (239)	59 (224)	54 (205)	49 (186)	39 (148)	24 (91)	—
558244	CP-200-C	2	1-1/2"	1-1/4"	104 (394)	97 (367)	92 (348)	88 (333)	81 (307)	75 (284)	66 (250)	48 (182)	15 (57)

Pressure Tanks

T SERIES

Applications

- Well water storage
- Pressure-boosting applications in homes, mobile homes and office buildings

Features

- Vertical and horizontal tanks
- Heavy-duty steel construction
- Appliance-quality paint finish over primer coat
- Welded malleable water connection, will not break during installations
- Butyl rubber diaphragm system isolates the air charge from system water
- Condensation-reducing design
- Five-year warranty
- ANSI/NSF standard 61 approved



Model Characteristics

Item #	Model	Diameter		Length		System Connect.	Volume		Shipping (Box) Volume		Weight (lbs)
		in.	cm.	in.	cm.		gal.	liter	cu. ft.	cu. m.	
14942302	T2	8.0	20.1	12	30	3/4" FNPT	2	8	0.5	0.02	5
14942303	T5	11.0	27.8	14.5	37	3/4" FNPT	5	18	1.1	0.03	10
14942304	T5H	11.4	28.9	17.5	44.4	3/4" FNPT	5	18	1.5	0.04	13.3
14942305	T9H	12.5	32	17	43	3/4" FNPT	9	32	2.5	0.07	13
14942311	T14H	16.3	41.4	20.8	52.8	3/4" FNPT	14	53	3.7	0.11	27
14942306	T20	16	40.5	29	73.7	1" FNPT	20	50	4.7	0.13	36
14942307	T33	16	40.6	42.8	108.6	1" FNPT	33	130	6.9	0.19	49
14942308	T44	21	53.3	36.2	92.1	1-1/4" FNPT	44	170	10.2	0.28	67
14942309	T81	21	53.3	62	157.5	1-1/4" FNPT	81	310	16.5	0.46	99
14942312	T119	26	66	59.8	150.5	1-1/4" FNPT	119	450	26.2	0.73	153

Total drawdown assumes tank pre-charge set at 2 PSI below cut-in pressure.

Drawdown can be affected by many factors, including temperature, pressure and elevation.

Quick Sizing Chart

Model	Total Tank Volume		Total Drawdown					
			20/40		30/50		40/60	
	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters
T2	2.1	8	0.8	2.9	0.7	2.5	0.6	2.1
T5	4.8	18	1.7	6.6	1.5	5.6	1.3	4.8
T5H	5.3	20	1.9	7.3	1.6	6.2	1.4	5.4
T9H	8.5	32	3.1	11.7	2.6	9.8	2.3	8.7
T14H	14	53	5.1	19.3	4.3	16.4	3.8	14.2
T20	20	80	8.1	30.5	6.8	25.8	5.9	22.3
T33	33	130	13.3	50.3	11.3	42.6	9.7	36.8
T44	44	170	17.7	67.1	15	56.8	13	49.1
T81	81	310	32.6	123.6	27.6	104.5	23.9	90.4
T119	119	450	48	181.5	40.6	153.6	35.1	132.9

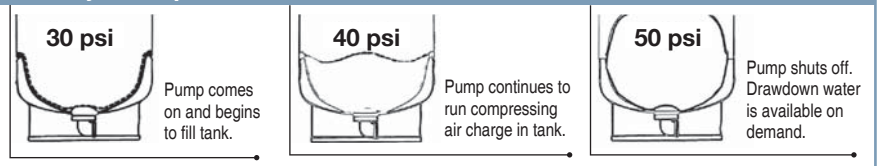
* Total drawdown assumes tank pre-charge set at 2 PSI below cut-in-pressure. Drawdown can be affected by many factors, including temperature, pressure and elevation.



Tank Replacement Guide

Flexcon				Amtrol								
Little Giant	Challenger	Well-Rite	H2 Pro	Well-X-Trol	Wel-Flow	Champion	How 2 Tank	Goulds A.O. Smith	State Perma Tank	WellMate	Pro-Source	Standard Galvanized
T2	PJR6	PJR6	PJR6	WX-101	WF6	CM1001	HT2	V6P	PIL-2	WM8L	N/A	5 gal.
T5	PC15	PJR15	PJR15	WX-102	WF15	CM1002	HT4.4	VIP5	PIL-5	WM18L	N/A	12 gal.
T20	PC66	WR60	WWT-20	WX-202	WF60	CM4202	HT20	V60	PAD-20	WM6	PS42T-T02	42 gal.
T33	PC122	WR120	WWT-35	WX-203	WF1100	CM8003	HT32	V100	WM9	WM9	PS82T-T05	82 gal.
T44	PC144	WR140	WWT-45	WX-250	WF140	CM10050	HT44	V140	WM14	WM14	PS120-T50	82 gal.
T81	PC244	WR240	WWT-80	WX-252	N/A	N/A	N/A	V260	N/A	N/A	N/A	220 gal.
T119	PC366	WR360	WWT-120	WX-350	WF360	CM22050	HT119	V350	WM35	WM35	N/A	315 gal.

Tank System Operation



Tank Sizing Information

There are three factors to consider when selecting the proper size for your water system:

- The pump delivery rate in gallons/liters per minute (GPM/LPM).
- The recommended minimum running time of the pump.
- The minimum (cut-in) and maximum (cut-out) system pressure parameters.

Once these factors are known, the following calculations will determine, in most cases, the correct model to meet your specifications.*

Calculating Drawdown

- 1) Pump delivery rate _____ GPM/LPM
- 2) Desired minimum pump running time in minutes _____ Minutes
(1 minute, 45 seconds = 1.75 minutes).
- 3) Multiply line #1 by line #2. _____ Gallons/Liters
This is the minimum drawdown or available water volume required.*

Calculating Tank Size

- 4) Minimum system pressure (cut-in) _____ PSIG/kPa/bar
- 5) Maximum system pressure (cut-out) _____ PSIG/kPa/bar
- 6) Using table #2, find the drawdown factor applicable to lines #4 and #5. _____ Factor
- 7) Divide line #3 by line #6 to determine the minimum total volume required. _____ Gallons/Liters
- 8) Refer to the design data and select the model with the lowest total capacity that is greater than or equal to line #7. _____ Model

Example: An application using an 8 GPM pump with a minimum run time of 1 minute and a 30-50 PSIG system pressure range;

$$\frac{8 \text{ GPM} \times 1 \text{ minute}}{.30 \text{ (factor)}} = 26.7 \text{ gallon minimum tank capacity}$$

Table #2 – Drawdown Factors

Maximum System Pressure (Cut-Out) PSIG/(kPa)/bar	Minimum System Pressure (Cut-In) – PSIG/(kPa)/bar																		
	20 (138)	25 (173)	30 (207)	35 (242)	40 (276)	45 (311)	50 (345)	55 (380)	60 (414)	65 (449)	70 (483)	75 (518)	80 (552)	85 (587)	90 (621)	95 (656)	100 (690)	105 (725)	110 (759)
30/(207)/2.06	.21																		
35/(242)/2.41	.28	.19																	
40/(276)/2.76	.34	.26	.17																
45/(311)/3.10	.39	.32	.24	.16															
50/(345)/3.45	.44	.37	.30	.22	.15														
55/(380)/3.80	.47	.41	.34	.28	.21	.14													
60/(414)/4.16	.50	.44	.38	.32	.26	.19	.13												
65/(449)/4.48	.53	.48	.42	.36	.30	.24	.18	.12											
70/(483)/4.83	.56	.50	.45	.40	.34	.29	.23	.17	.11										
75/(518)/5.17		.53	.48	.43	.38	.32	.27	.22	.16	.11									
80/(552)/5.51			.50	.46	.41	.36	.31	.26	.21	.15	.10								
85/(587)/5.86				.48	.43	.39	.34	.29	.24	.20	.15	.10							
90/(621)/6.20					.46	.42	.37	.32	.28	.23	.19	.14	.09						
95/(656)/6.55						.44	.40	.35	.31	.27	.22	.18	.13	.09					
100/(690)/6.89							.42	.38	.34	.30	.26	.21	.17	.13	.09				
105/(725)/7.24								.41	.37	.33	.29	.25	.20	.16	.13	.08			
110/(759)/7.58									.39	.35	.31	.27	.24	.20	.16	.12	.08		
115/(794)/7.92										.38	.34	.30	.26	.23	.19	.15	.11	.08	
120/(828)/8.27											.36	.33	.29	.25	.22	.18	.15	.11	.07
125/(863)/8.62												.35	.32	.28	.25	.21	.18	.14	.11

In keeping with current industry standards, drawdown factors are based on Boyle's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and gauge, actual precharge pressure, and operating temperature of the system.

*If a volume of water needed is greater than the amount calculated on line #3, enter that amount on line #3 in place of the calculated volume.

4" Submersible Well Pumps

5 GPM

Thermoplastic and Stainless Steel



Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 HP to 1 HP single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal preventing system drain-back
- Ceramic bearing sleeve
- Celcon® disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications

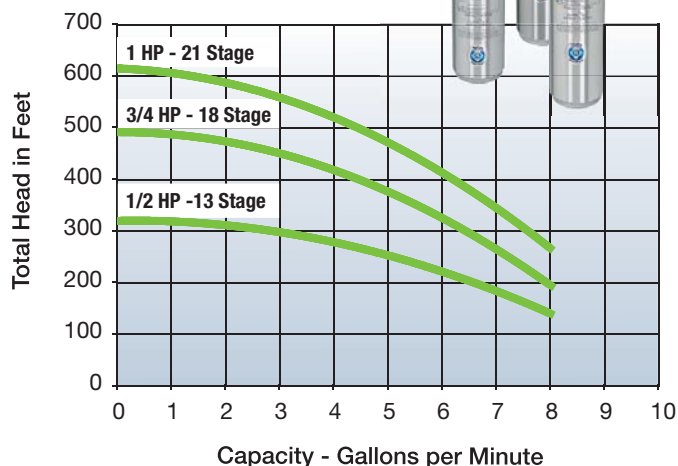
Series Specifications

Capacity: 5 GPM (19 LPM)

Discharge: 1-1/4" FNPT (31.7 mm)

Electrical: 115v
230v

Performance Curve



Model Characteristics

Thermoplastic Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558551	W5G05S13-21P	1/2	13	115	2	364 (110.9 m)	26	—	—
558537	W5G05S13-22P	1/2	13	230	2	320 (97.5 m)	26	—	—
558554	W5G05S13-32P	1/2	13	230	3	364 (110.9 m)	25	558814	558815
558552	W5G07S18-22P	3/4	18	230	2	528 (160.9 m)	29	—	—
558555	W5G07S18-32P	3/4	18	230	3	528 (160.9 m)	30	558823	558824
558553	W5G10S21-22P	1	21	230	2	614 (187.1 m)	33	—	—
558556	W5G10S21-32P	1	21	230	3	614 (187.1 m)	34	558833	558834

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558575	W5G05S13-21S	1/2	13	115	2	364 (110.9 m)	26	—	—
558599	W5G05S13-22S	1/2	13	230	2	360 (109.7 m)	26	—	—
558578	W5G05S13-32S	1/2	13	230	3	364 (110.9 m)	25	558814	558815
558576	W5G07S18-22S	3/4	18	230	2	528 (160.9 m)	29	—	—
558579	W5G07S18-32S	3/4	18	230	3	528 (160.9 m)	30	558823	558824
558577	W5G10S21-22S	1	21	230	2	614 (187.1 m)	33	—	—
558580	W5G10S21-32S	1	21	230	3	614 (187.1 m)	34	558833	558834

Celcon® is a registered trademark of Ticona Corporation

Specification Charts

5 GPM

4" Submersible Well Pumps

Capacities in U.S. Gallons per Minute – 5 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
W5G05S13	1/2	13		20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet	
			0					8	7	7	6	6	5	4	3											158	364
			20				7	7	6	6	5	5	4	3	3	2											
			30			7	7	6	6	5	5	4	4	3	2												
			40		7	7	6	6	5	5	4	4	3	2													
			50	7	7	6	6	5	5	4	4	3	2														
			60	7	6	6	5	5	4	4	3	2															
			80	6	5	5	4	4	3	2	1																
Shut Off PSI				149	140	131	122	114	105	96	88	79	70	53	45	27											

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.		
W5G07S18	3/4	18		20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet
			0								7	7	7	6	6	5	5	4	3					229	528	
			20							7	7	7	6	6	6	5	4	4	3	2						
			30					8	7	7	7	6	6	6	5	5	4	4	2							
			40				8	7	7	7	6	6	6	5	5	4	3	3								
			50			7	7	7	6	6	6	6	5	5	5	4	3	2								
			60	7	7	7	7	6	6	6	6	5	5	5	4	3	2									
			80	7	7	6	6	6	6	5	5	5	4	4	3	3										
Shut Off PSI				220	211	203	194	185	177	168	159	151	142	125	116	99	81	73	55	38						

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																			Max. Press.			
W5G10S21	1	21		20	40	60	80	100	120	140	160	180	200	240	260	300	340	360	400	440	480	500	600	700	PSI	Feet
			0									8	7	7	6	6	6	5	5	4	4			266	614	
			20								7	7	7	6	6	6	5	5	5	4	3	2				
			30							7	7	7	7	6	6	5	5	5	4	3	2	2				
			40						7	7	6	6	6	6	5	5	4	4	3	2	1					
			50					7	7	7	6	6	6	6	5	5	4	4	3	2	1					
			60				7	7	7	6	6	6	6	5	5	5	4	4	3	1						
			80	7	7	7	7	6	6	6	6	6	5	5	5	4	3	3	2							
Shut Off PSI				257	248	239	231	222	213	205	196	187	179	161	153	135	118	109	92	75	58	49				

4" Submersible Well Pumps

8 GPM

Thermoplastic and Stainless Steel



Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 HP to 1 HP single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve
- assembly provides positive seal preventing system drain-back
- Ceramic bearing sleeve
- Celcon® disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

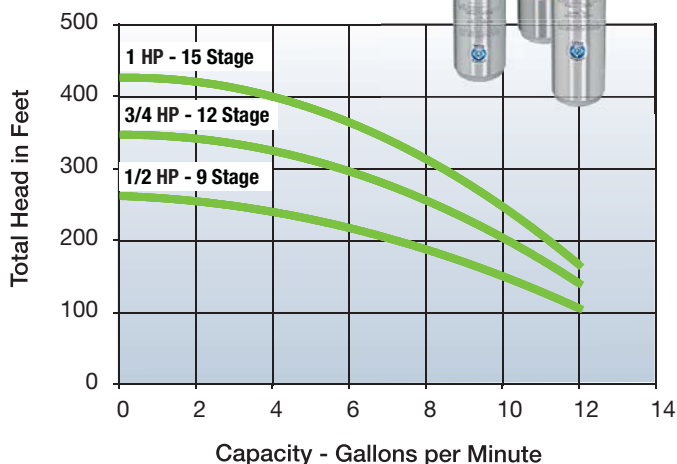
Series Specifications

Capacity: 8 GPM (30 LPM)

Discharge: 1-1/4" FNPT (31.7 mm)

Electrical: 115v
230v

Performance Curve



Model Characteristics

Thermoplastic Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558557	W8G05S9-21P	1/2	9	115	2	275 (84 m)	24	—	—
558558	W8G05S9-22P	1/2	9	230	2	275 (84 m)	24	—	—
558561	W8G05S9-32P	1/2	9	230	3	275 (84 m)	24	558814	558815
558559	W8G07S12-22P	3/4	12	230	2	365 (111 m)	28	—	—
558562	W8G07S12-32P	3/4	12	230	3	365 (111 m)	28	558823	558824
558560	W8G10S15-22P	1	15	230	2	455 (138.6 m)	33	—	—
558563	W8G10S15-32P	1	15	230	3	455 (138.6 m)	33	558833	558834

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)
558581	W8G05S9-21S	1/2	9	115	2	275 (84 m)	24	—	—
558582	W8G05S9-22S	1/2	9	230	2	275 (84 m)	24	—	—
558585	W8G05S9-32S	1/2	9	230	3	275 (84 m)	24	558814	558815
558583	W8G07S12-22S	3/4	12	230	2	365 (111 m)	28	—	—
558586	W8G07S12-32S	3/4	12	230	3	365 (111 m)	28	558823	558824
558584	W8G10S15-22S	1	15	230	2	455 (138.6 m)	33	—	—
558587	W8G10S15-32S	1	15	230	3	455 (138.6 m)	33	558833	558834

Celcon® is a registered trademark of Ticona Corporation

For more information call 1.800.701.7894

Specification Charts

8 GPM 4" Submersible Well Pumps

Capacities in U.S. Gallons per Minute – 8 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
W8G05S9	1/2	9		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet	
			0					11	10	9	6															115	265
			10					12	10	9	7	3															
			20				12	11	9	7	5																
			30			12	11	10	8	5	2																
			40		11	10	10	9	7	1																	
			50	11	10	10	9	8	4																		
			60	10	10	9	8	6																			
			70	10	9	8	6	3																			
			80	9	7	5	2																				
Shut Off PSI				110	102	93	84	76	58	41	32	15															

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
	3/4	12		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet	
			0							11	10	10	9	8	4											152	350
			10						12	10	10	9	7	6													
			20						11	10	9	8	5	3													
			30					12	10	9	9	7	2														
			40				12	11	10	9	8	5															
			50			11	11	10	9	8	6	1															
			60	12	11	10	10	10	9	6	4																
			70	11	10	10	10	9	7	4																	
			80	10	10	9	9	8	6																		
Shut Off PSI				149	140	132	123	114	97	80	71	54	36	28	10												

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
	1	15		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet	
			0								12	10	10	9	8	7	5	2								186	430
			10							11	11	10	9	7	5	4	4										
			20							11	10	9	9	8	6	3	1										
			30						11	10	10	9	8	7	5	1											
			40					12	11	10	9	8	7	6	3												
			50				12	11	10	9	9	8	6	4													
			60			12	11	10	10	9	8	7	4	2													
			70		12	11	10	10	9	8	7	5	2														
			80	11	11	10	10	10	9	7	6	3															
Shut Off PSI				188	180	171	162	154	136	119	110	93	76	67	50	32	24	6									

4" Submersible Well Pumps

12 GPM

Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1/2 HP to 1-1/2 HP single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve assembly provides positive seal preventing system drain-back
- Ceramic bearing sleeve
- Celcon® disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications

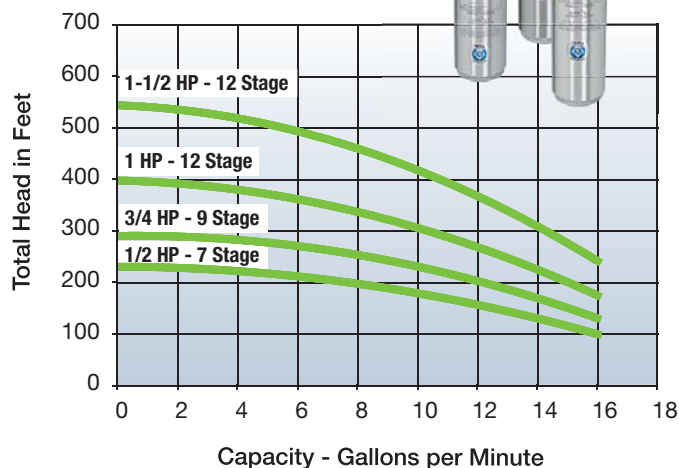
Series Specifications

Capacity: 12 GPM (45 LPM)

Discharge: 1-1/4" FNPT (31.7 mm)

Electrical: 115v
230v

Performance Curve



Model Characteristics

Thermoplastic Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558564	W12G05S7-21P	1/2	7	115	2	231 (70.4 m)	24	—	—	—
558536	W12G05S7-31P	1/2	7	115	3	223 (68 m)	24	2801044915	—	—
558565	W12G05S7-22P	1/2	7	230	2	231 (70.4 m)	24	—	—	—
558569	W12G05S7-32P	1/2	7	230	3	231 (70.4 m)	24	558814	558815	—
558566	W12G07S9-22P	3/4	9	230	2	291 (88.7 m)	28	—	—	—
558570	W12G07S9-32P	3/4	9	230	3	291 (88.7 m)	28	558823	558824	—
558567	W12G10S12-22P	1	12	230	2	399 (121.7 m)	31	—	—	—
558571	W12G10S12-32P	1	12	230	3	399 (121.7 m)	32	558833	558834	—
558568	W12G15S17-22P	1-1/2	17	230	2	545 (166 m)	38	—	—	—
558572	W12G15S17-32P	1-1/2	17	230	3	545 (166 m)	39	—	—	558842

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558588	W12G05S7-21S	1/2	7	115	2	231 (70.4 m)	24	—	—	—
558600	W12G05S7-31S	1/2	7	115	3	228 (69.5 m)	24	2801044915	—	—
558589	W12G05S7-22S	1/2	7	230	2	231 (70.4 m)	24	—	—	—
558593	W12G05S7-32S	1/2	7	230	3	231 (70.4 m)	24	558814	558815	—
558590	W12G07S9-22S	3/4	9	230	2	291 (88.7 m)	28	—	—	—
558594	W12G07S9-32S	3/4	9	230	3	291 (88.7 m)	28	558823	558824	—
558591	W12G10S12-22S	1	12	230	2	399 (121.7 m)	31	—	—	—
558595	W12G10S12-32S	1	12	230	3	399 (121.7 m)	32	558833	558834	—
558592	W12G15S17-22S	1-1/2	17	230	2	545 (166 m)	38	—	—	—
558596	W12G15S17-32S	1-1/2	17	230	3	545 (166 m)	39	—	—	558842

Specification Charts

12 GPM

4" Submersible Well Pumps

Capacities in U.S. Gallons per Minute – 12 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																			Max. Press.			
W12G05S7	1/2	7		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet
			0		19	18	17	16	14	12	7															
			10	19	18	17	16	15	12	7	2															
			20	18	16	16	15	13	9	2																
			30	16	15	14	13	11	5																	
			40	15	14	13	11	8																		
			50	14	13	11	8	4																		
			60	12	10	7	3																			
			70	10	7	3																				
			80	6	2																					
Shut Off PSI				91	82	74	65	56	39	22	13															

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																			Max. Press.			
W12G07S9	3/4	9		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet
			0		20	19	18	17	15	14	13	9	3													
			10	20	19	18	17	16	15	13	11	6														
			20	18	17	17	16	15	14	11	8	2														
			30	17	17	16	15	14	12	8	5															
			40	16	16	15	14	13	10	5	1															
			50	16	15	14	13	12	7																	
			60	15	14	13	11	9	4																	
			70	14	13	11	9	6																		
			80	12	11	9	6	3																		
Shut Off PSI				118	109	100	92	83	66	48	40	23	5													

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																			Max. Press.				
W12G10S12	1	12		20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet	
			0			20	19	18	17	16	15	14	12	10	7	3											
			10		20	19	18	17	16	15	14	12	10	9	5												
			20	20	19	18	17	17	16	14	13	11	8	7	2												
			30	19	18	17	17	16	15	13	12	10	6	4													
			40	18	17	17	16	15	14	12	11	8	4	1													
			50	17	16	16	15	15	13	11	9	6	1														
			60	16	16	15	14	14	12	9	7	3															
			70	16	15	14	13	13	10	7	5																
			80	15	14	13	12	11	8	5	2																
Shut Off PSI				165	156	147	139	130	113	95	87	69	52	43	26	9											

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
W12G15S17	1-1/2	17	0	20	40	60	80	100	140	180	200	240	280	300	340	380	400	440	480	500	600	700	800	900	PSI	Feet	
			10				20	19	18	17	16	16	15	14	13	12	11	9	7	5							
			20		20	19	18	18	17	16	16	15	14	13	12	10	9	6	3								
			30	20	19	18	18	17	16	16	15	14	13	12	11	9	7	4									
			40	19	18	18	17	17	16	15	15	14	12	12	10	7	6	2									
			50	18	18	17	17	16	15	15	14	13	11	10	8	6	4										
			60	17	17	17	16	16	15	14	13	12	10	9	7	3	1										
			70	17	16	16	16	15	14	13	13	11	9	8	5	1											
			80	16	16	16	15	15	14	13	12	10	8	6	3												
			Shut Off PSI				227	219	210	201	193	175	158	149	132	115	106	89	71	68	45	28	19				

4" Submersible Well Pumps

22 GPM

Thermoplastic and Stainless Steel

Applications

- For both new installs and replacement applications where water must be transferred under pressure from wells, cisterns, ponds, lakes, and streams

Features

- 1 and 1-1/2 HP single-phase motors
- Removable suction screen prevents debris from clogging impellers and provides full-flow performance
- Hex rubber bearing has multi-flow channels to keep small particles away from bearing surface
- Built-in Flomatic™ check valve
- assembly provides positive seal preventing system drain-back
- Ceramic bearing sleeve
- Celcon® disk facilitates close tolerances for increased performance
- Stainless steel up-thrust washer prevents excessive wear in severe applications
- Two-year limited warranty

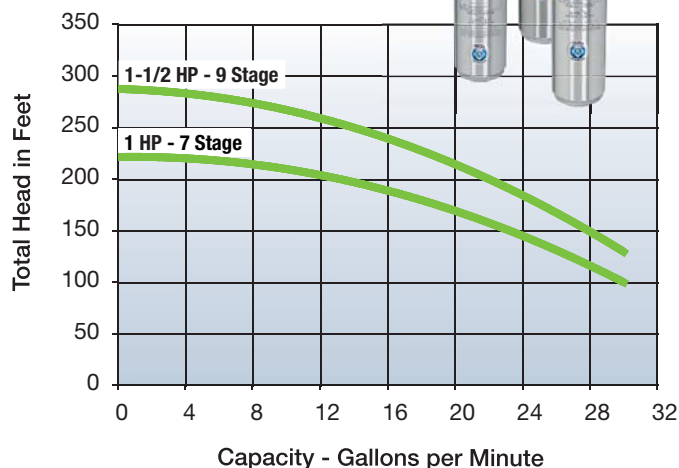
Series Specifications

Capacity: 22 GPM (83 LPM)

Discharge: 1-1/4" FNPT (31.7 mm)

Electrical: 230v

Performance Curve



Model Characteristics

Thermoplastic Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558573	W22G10S7-22P	1	7	230	2	221 (67.3 m)	30	—	—	—
558574	W22G10S7-32P	1	7	230	3	221 (67.3 m)	33	558833	558834	—
558538	W22G15S9-22P	1-1/2	9	230	2	288 (87.8 m)	40	—	—	—
558539	W22G15S9-32P	1-1/2	9	230	3	288 (87.8 m)	39	—	—	558542

Stainless Steel Discharge

Item #	Model	HP	Stages	Volts	Wire	Shut Off (ft.)	Weight (lbs)	Quick Disconnect Control Box (QD)	Capacitor Run Control Box (CRC)	Standard Capacitor Start Capacitor Run Control Box
558597	W22G10S7-22S	1	7	230	2	221 (67.3 m)	30	—	—	—
558598	W22G10S7-32S	1	7	230	3	221 (67.3 m)	33	558833	558834	—
558548	W22G15S9-22S	1-1/2	9	230	2	288 (87.8 m)	40	—	—	—
558549	W22G15S9-32S	1-1/2	9	230	3	288 (87.8 m)	39	—	—	558842

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Specification Charts

22 GPM

4" Submersible Well Pumps

Capacities in U.S. Gallons per Minute – 22 GPM

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
W22G10S7	1	7		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460	500	900	PSI	Feet	
			0					30	25	19	13															96	221
			10			33	29	27	23	12	2																
			20		32	29	27	25	18																		
			30	31	28	26	24	22	9																		
			40	28	26	24	21	26																			
			50	26	24	20	25	6																			
			60	23	20	14	4																				
			70	19	12	3																					
			80	11	1																						
Shut Off PSI				87	79	70	61	53	35	18	10																

Model	HP	Stg.	PSI	Depth to Pumping Water Level in Feet																				Max. Press.			
W22G1S9	1-1/2	9		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	380	420	460	500	900	PSI	Feet	
			0					28	25	23	16	4														125	288
			10				33	30	26	23	20	10															
			20			32	30	28	24	19	15	2															
			30		32	29	28	26	22	14	8																
			40	31	29	27	26	24	18	7																	
			50	29	27	25	23	21	13																		
			60	27	25	23	20	17	5																		
			70	25	23	20	16	11																			
			80	22	19	15	10	2																			
Shut Off PSI				116	107	99	90	81	64	47	38	21	3														

Control Boxes

Item #	Model	FE#	HP	Volts	Wire	Weight (lbs)
—	WC-QD05	2801044915	1/2	115	3	3
558814	WC-QD05	2801054915	1/2	230	3	3
558823	WC-QD07	2801074915	3/4	230	3	3
558833	WC-QD10	2801084915	1	230	3	3
558815	WC-CRC05	2824055015	1/2	230	3	5
558824	WC-CRC07	2824075015	3/4	230	3	5
558834	WC-CRC10	2824085015	1	230	3	5
558842	WC-CRC15	2823008110	1-1/2	230	3	7



Friction Loss Chart

Loss of head in feet, due to friction per 100 feet of pipe. (Based on C=100 for Steel, C=130 for Copper, and C= 140 for Plastic.)

Nom: Pipe Size	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"			2-1/2"			3"	4"	5"	6"	8"	Nom: Pipe Size	
	Material	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel	Copper	Plastic	Steel			Material		
I.D. U.S. GPM	.622	.625	.622		.824	.822	.824	1.049	1.062	1.049	1.380	1.368	1.380	1.610	1.600	1.610	2.067	2.062	2.067	2.469	2.500	2.469	3.068	4.026	5.047	6.065	8.071	I.D. U.S. GPM
0.5	.58	.35	.31																									0.5
1.0	2.1	1.26	1.14																									1.0
1.5	4.44	2.67	2.38		1.13	.70	.61																					1.5
2.0	7.57	4.56	4.10		1.93	1.21	1.04	.60	.35	.32																		2.0
2.5	11.4	6.88	6.15		2.91	1.82	1.57	.92	.55	.48																		2.5
3.0	16.0	9.66	8.65		4.08	2.56	2.21	1.26	.73	.68																		3.0
3.5	21.3	12.9	11.5		5.42	3.4	2.93	1.70	1.00	.90																		3.5
4.0	27.3	16.4	14.8		6.94	4.36	3.74	2.14	1.24	1.15	.56	.36	.30	.27	.17	.14												4.0
4.5	33.9	20.4	18.3		8.63	5.4	4.66	2.68	1.58	1.45	.69	.42	.39	.34	.21	.18												4.5
5.0	41.2	24.8	22.3		10.5	6.57	5.66	3.42	1.88	1.75	.85	.55	.46	.41	.25	.22												5.0
5.5	49.2	29.6	26.6		12.4	7.79	6.75	3.90	2.30	2.10	1.00	.62	.53	.49	.30	.26												5.5
6.0	57.8	34.8	31.2		14.7	9.22	7.95	4.54	2.63	2.45	1.20	.77	.65	.57	.36	.31												6.0
6.5	67.0	40.2	36.2		17.0	10.7	9.25	5.30	3.12	2.84	1.38	.88	.72	.66	.42	.36												6.5
7.0	76.8	46.1	41.5		19.6	12.2	10.6	6.08	3.58	3.25	1.59	1.02	.86	.76	.48	.41												7.0
7.5	87.3	52.5	47.2		22.3	13.9	12.0	6.92	4.03	3.68	1.82	1.16	.98	.86	.54	.46												7.5
8.0	98.3	59.4	53.0		25.0	15.7	13.5	7.73	4.50	4.16	2.04	1.31	1.10	.96	.61	.52												8.0
8.5	110	66.0	59.5		27.9	17.6	15.1	8.76	5.08	4.62	2.30	1.47	1.21	1.07	.68	.58												8.5
9.0	122	73.5	66.0		31.1	19.5	16.8	9.72	5.60	5.17	2.55	1.62	1.35	1.19	.75	.65												9.0
9.5	135	81.0	73.0		34.5	21.6	18.6	10.7	6.18	5.72	2.82	1.79	1.50	1.32	.83	.72												9.5
10	149	89.4	80.5		37.8	23.7	20.4	11.7	6.77	6.31	3.08	1.98	1.67	1.45	.92	.79	.43	.27	.23									10
11					45.1	28.2	24.4	14.1	8.08	7.58	3.70	2.32	1.98	1.74	1.10	.95	51	32	27									11
12					53.0	33.2	28.6	16.4	9.47	8.85	4.31	2.75	2.33	2.04	1.29	1.10	.60	.37	.32									12
13					61.5	38.5	33.2	18.9	11.0	10.3	5.01	3.18	2.71	2.37	1.49	1.28	.70	.43	.37									13
14					70.5	44.2	38.0	21.8	12.6	11.8	5.73	3.64	3.10	2.71	1.71	1.46	.80	.49	.43									14
16					90.2	56.6	48.6	27.9	16.2	15.1	7.34	4.68	3.96	3.47	2.20	1.87	1.03	.63	.55									16
18					112	70.4	60.5	24.7	20.1	18.7	9.13	5.81	4.93	4.31	2.75	2.33	1.28	.78	.69									18
20					136	83.5	73.5	42.1	24.4	22.8	11.1	7.10	6.00	5.24	3.31	2.83	1.55	.96	.84	.65	.38	.35	.25	.06				20
25								63.9	36.9	34.6	16.8	10.7	9.06	7.90	5.00	4.26	2.35	1.45	1.27	.99	.57	.50	.38	.09				25
30								89.2	51.5	48.1	23.5	15.0	12.7	11.1	7.0	6.0	3.29	2.03	1.78	1.39	.79	.75	.54	.13	.04			30
35								119	68.7	64.3	31.2	20.0	16.9	14.7	9.35	7.94	4.37	2.71	2.36	1.82	1.05	.98	.71	.17	.06			35
40								152	88.0	82.0	40.0	25.6	21.6	18.9	12.0	10.2	5.60	3.47	3.03	2.36	1.35	1.27	.91	.22	.08			40
45								189	109	102	49.4	31.9	27.0	23.4	14.9	12.6	6.96	4.31	3.76	2.92	1.69	1.58	1.15	.28	.09			45
50											60.4	38.7	32.6	28.5	18.1	15.4	8.46	5.24	4.57	3.56	2.04	1.92	1.38	.34	.11	.04		50
55											71.9	46.5	39.1	34.0	21.5	18.4	10.1	6.22	5.46	4.25	2.42	2.30	1.58	.41	.14	.05		55
60											84.7	54.1	45.6	40.0	25.3	21.6	11.9	7.34	6.44	5.0	2.90	2.70	1.92	.47	.16	.06		60
65											99.1	63.0	53.4	46.4	29.0	25.1	13.8	8.5	7.42	5.8	3.31	3.13	2.16	.53	.21	.07		65
70											114	72.2	61.5	53.2	33.8	28.7	15.8	9.78	8.53	6.64	3.82	3.58	2.57	.63	.24	.08		70
75											129	82.1	69.4	60.4	38.0	32.6	17.9	11.1	9.68	7.58	4.32	4.05	3.00	.73	.27	.10		75
80											144	92.4	77.9	68.1	43.1	36.8	20.2	121.5	10.9	8.50	4.88	4.59	3.28	.81	.31	.11		80
85											161	104	87.0	76.2	47.6	41.2	22.5	14.0	12.2	9.54	5.44	5.11	3.54	.91	.34	.12		85
90											179	115	96.6	84.7	53.6	45.7	25.1	15.6	13.6	10.6	6.06	5.72	4.08	1.00	.38	.14		90
95														93.6	58.8	50.5	27.8	17.2	15.0	11.69	6.70	6.28	4.33	1.12	.41	.15		95
100														103	65.1	56.6	30.5	18.9	16.56	12.8	7.37	6.90	4.96	1.22	.49	.17		100
110																	36.4	22.5	19.7	15.3	8.80	8.25	6.0	1.46	.58	.21		110
120																	42.7	26.6	23.1	18.0	10.3	9.71	7.0	1.17	.67	.24		120
130																	49.6	30.7	26.8	20.9	12.0	11.3	8.1	1.97	.76	.27		130
140																	56.9	35.2	30.6	23.9	13.7	12.9	9.2	2.28	.88	.32	.08	140
150																	64.7	40.1	35.0	27.3	15.6	14.7	10.5	2.62	.98	.36	.09	150
160																	72.8	45.1	39.3	30.7	17.6	16.6	11.8	2.91	1.08	.40	.10	160
170																	81.4	50.5	44.0	34.3	19.7	18.5	13.3	3.26	1.22	.45	.11	170
180																	90.5	56.1	48.9	38.1	21.9	20.6	14.0	3.61	1.35	.50	.13	180
190																	100	62.0	54.0	42.1	24.2	22.7	15.5	4.01	1.48	.55	.14	190
200																	110	68.0	59.4	46.3	26.6	25.0	17.8	4.40	1.77	.62	.15	200
220																				55.3	31.8	29.8	21.3	5.20	2.08	.73	.18	220
240																				66.4	37.4	35.8	25.1	6.20	2.41	.87	.22	240
260																				75.3	43.3	41.6	29.1	7.2	2.77	1.00	.25	260
280																				86.3	49.4	46.6	33.4	8.2	3.14	1.14	.28	280
300																				98.1	56.8	52.9	38.0	9.3	3.54	1.32	.32	300
320																							42.8	10.5	3.97	1.47	.37	320
340																							47.9	11.7	4.41	1.62	.41	340
360																							53.0	13.1	4.86	1.83	.45	360
380																							59.0	14.0	5.4	2.00	.50	380
400																							65.0	16.0	6.7	2.20	.54	400
450																							78.0	19.8	8.1	2.74	.68	450
500																												

Note: **Bold items** are recommended for normal operation.

Air volume control – Designed to maintain the air charge in a standard water storage tank. Pre-charged tanks do not require an air volume control.

Atmospheric pressure – A force exerted upon the earth's surface by the weight of air extending to a height of 25 miles above the earth. At sea level, 14.7 pounds per square inch (PSI).

Centrifugal force – The force created by a spinning or rotating impeller resulting in the movement of water outward from the center point. A pump uses an impeller to create centrifugal force.

Check valve – Allows water to move in only one direction which prevents water from returning to its source.

Convertible jet pump – For deep wells where pumping water levels are as far as 90 feet below the pump. Also easily converted for shallow wells where pumping water levels are no more than 25 feet below the pump. Jet packages must be purchased separately.

Cut-in pressure setting – The point at which the pressure switch turns the pump on.

Deep well – Well with a depth to water greater than 25 feet.

Depth to water – The vertical measurement from pump level down to water level of water source. Pump height above water.

Discharge pressure – The amount of force, or pressure of the water being discharged from the pump.

Dual voltage motor – Pump motor that can be operated on 115 or 230 volts.

Foot valve – Installs on the end of pump suction pipe to prevent water from draining back to source. Includes strainer to minimize suction of debris into pump.

GPH – Gallons per hour.

GPM – Gallons per minute.

HP – Horsepower (power of motor).

Jet pump – A centrifugal pump which requires a jet to help build additional water pressure.

Multi-stage jet pump – For use on deep wells only, with pumping water levels as far as 210 feet below the pump.

PSI – Pounds per square inch. A volumetric pressure measure.

Pre-charged tank – A water storage tank pre-charged with air at factory featuring a rubber diaphragm to separate water from air which prevents waterlogging. This tank design provides greater drawdown than standard tanks. Pre-charged tanks do not require an air volume control.

Pressure – A force usually expressed in pounds per square inch.

Pressure switch – The switch that automatically turns the pump on and off at specified pressures 30/50 PSI and 40/60 PSI. **IMPORTANT:** Always replace an old switch with a new switch that has the same pressure settings.

• **30/50 pressure operation** – Pressure switch turns pump on at 30 PSI and off at 50 PSI.

• **40/60 pressure operation** – Pressure switch turns pump on at 40 PSI and off at 60 PSI.

Priming the pump – The initial filling of a jet or centrifugal pump with water so that the air can be removed.

Pump capacity – The amount of water a pump is capable of moving at a given pressure.

Safety relief valve – Required for all submersible pump and pressure boosting installations to prevent over-pressurization of water storage tank and system piping that could develop from pressure switch malfunction.

Shallow well – Well with a depth of water of 25 feet or less.

Shallow well pump – For use on wells where pumping water levels are no more than 25 feet below the pump. Features a built-in jet.

Sizing – Properly matching product to application for best performance.

Standard tank – A pressurized water storage tank where air comes in contact with water. Requires air volume control for proper operation.

Submersible pump control box – Installs above ground. Contains electrical starting components for three-wire submersible deep well pumps. Two-wire submersible deep well pumps do not use a control box.

Submersible deep well pump – For use on wells where pump water levels are up to 400 feet below point of use. Pump is submerged under water in the well.

Tank drawdown/drawdown – The amount of usable water available from a water storage tank between pump stops and starts.

Waterlogging – The absorption of air into water stored in a water storage tank which greatly reduces the amount of usable water drawdown available from tank.

Water storage tank – Stores air and water under pressure to provide for automatic pump operation and a source of water when pump is not running.

About Our Company.

In 2006, Franklin Electric Company acquired Little Giant Pump Company to solidify our position as a leading global supplier of water pumping systems for residential and commercial markets. Little Giant® products – sump, sewage, effluent, utility, condensate removal, and submersible industrial pumps – complement and broaden Franklin Electric's overall water systems offering.

Little Giant Pump Company, now Franklin Electric – Water Transfer Systems, offers the industry a well-respected brand of products – Little Giant. Founded on quality, availability, service, innovation and value, Franklin Electric continues to bring the Little Giant brand name advantage through *Pumps. People. Partnerships.*

Franklin Electric is a global leader in the production and marketing of systems and components for the movement of water and automotive fuels. Recognized as a technical leader in its specialties, Franklin serves customers around the world in residential, commercial, agricultural, industrial, municipal, and fueling applications.

Long recognized as the world's largest manufacturer of submersible electric motors, Franklin Electric has been able to leverage its expertise in motor applications to grow and serve several different markets. The principal application for Franklin products is water well pumping systems, where the company offers pumps, motors, drives, and controls. In addition, Franklin Electric produces a vast array of products for fueling systems and the water transfer market.

With 3,200 employees worldwide, Franklin Electric is a global manufacturer with over 20 manufacturing and distribution facilities located in the United States, Germany, Czech Republic, Italy, Mexico, Canada, Australia, South Africa, China, and Japan.

Little Giant products are produced to the following ISO standards:

Quality – 9001:2000

Environmental – 14001:2004

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