

# LANCASTER

4" Submersible Well Pumps  
 SERIES "PP" - PREMIER PRESSURE  
 Using Franklin Electric Constant Pressure Controller

PUMP MODEL NO.		1.5 H.P.					1.5 H.P.					1.5 H.P.				
LENGTH—WEIGHT (pump and motor assy.)		2-3SJ15013-3PP					2-3SL15012-3PP					2-3ST15010-3PP				
Stages—Discharge		27.5" — 31.8 lbs.					27.8" — 32.2 lbs.					27.0" — 31.5 lbs				
Constant Pressure PSI at Pressure Sensor		13 - 1.25" NPT					12 - 1.25" NPT					10 - 1.25" NPT				
		30	40	50	60	70	30	40	50	60	70	30	40	50	60	70
DEPTH TO WATER IN FEET	40	10.9	10.7	10.5	10.3	10.1	15.7	15.4	15.0	14.7	14.4	17.6	17.4	17.3	17.1	16.9
	80	10.6	10.4	10.2	9.9	9.7	15.1	14.8	14.5	14.2	13.8	17.3	17.2	17.0	16.5	16.0
	120	10.2	10.0	9.8	9.5	9.3	14.6	14.3	13.9	13.5	13.1	17.0	16.7	16.2	15.5	14.9
	160	9.8	9.6	9.4	9.2	8.9	14.0	13.6	13.2	12.8	12.4	16.3	15.7	15.1	14.4	13.7
	200	9.4	9.2	9.0	8.7	8.5	13.3	12.9	12.5	12.1	11.6	15.2	14.6	13.9	13.2	12.6
	240	9.0	8.8	8.6	8.3	8.1	12.6	12.2	11.7	11.2	10.7	14.1	13.4	12.7	12.1	11.3
	280	8.6	8.4	8.1	7.9	7.6	11.8	11.3	10.8	10.3	9.7	12.9	12.3	11.5	10.8	10.1
	320	8.2	7.9	7.7	7.4	7.2	10.9	10.4	9.9	9.3	8.7	11.7	11.0	10.3	9.4	8.6
	360	7.7	7.5	7.2	7.0	6.6	10.1	9.5	8.9	8.3	7.6	10.5	9.7	8.8	7.9	7.0
	400	7.3	7.0	6.7	6.4	6.0	9.0	8.4	7.8	7.2	6.6	9.0	8.2	7.3	6.4	5.4
	440	6.8	6.4	6.1	5.7	5.3	8.0	7.3	6.7	6.1	5.4	7.5	6.6	5.7	4.7	3.5
	480	6.2	5.8	5.4	5.0	4.6	6.9	6.3	5.6	4.9	4.3	5.9	4.9	3.9	2.6	
	520	5.5	5.1	4.7	4.3	4.0	5.8	5.1	4.5	3.8	3.0	4.2	2.9			
	560	4.8	4.4	4.1	3.6	3.2	4.6	4.0	3.2	2.4	1.6					
	600	4.2	3.8	3.3	2.8	2.2	3.4	2.6	1.8							
	640	3.4	3.0	2.4	1.6		2.1	1.1								
680	2.5	1.9														
720	1.2															
MAXIMUM CAPACITY IN GPM ( Maintaining Constant Pressure)																

PUMP MODEL NO.		1.5 H.P.					1.5 H.P.				
LENGTH—WEIGHT (pump and motor assy.)		2-3SU15006-3PP					2-3SW15005-3PP				
Stages—Discharge		24.8" — 30.1 lbs.					24.5" — 29.9 lbs.				
Constant Pressure PSI at Pressure Sensor		6 - 1.25" NPT					5 - 1.25" NPT				
		30	40	50	60	70	30	40	50	60	70
DEPTH TO WATER IN FEET	40	28.5	27.2	25.8	24.6	23.3	34.6	32.7	30.5	28.1	25.8
	80	26.2	25.0	23.7	22.2	20.4	31.1	28.8	26.5	23.9	20.6
	120	24.1	22.6	20.9	18.9	16.6	27.1	24.7	21.6	17.8	14.1
	160	21.4	19.4	17.2	15.0	12.7	22.5	18.8	15.1	11.5	
	200	17.9	15.6	13.4	10.7	7.8	16.1	12.5	2.2		
	240	14.0	11.5	8.6	4.7		8.5				
	280	9.4	6.3								
MAXIMUM CAPACITY IN GPM ( Maintaining Constant Pressure)											

\* Friction losses in discharge pipe and fittings are not included in these tables

## Lancaster Pump-End Specifications:

Depending on the specific Premier Pressure system, the Pump-End will be one of the following ¼ HP Survivor designs: **SJ7513** from our **SJ** series, **SL7512** from our **SL** series, **ST7510** from our **ST** series, **SU7506** from our **SU** Series, or the **SW7505** from our **SW** Series.

## Motor Specifications:

- HP: 1.5
- Phase: Three Phase
- Voltage: 230 Volt
- Frequency: 60 Hz
- SF: 1.3, SFA: 5.9 Amps
- Duty Rating: Continuous

Use only Franklin Electric 3 phase motor provided with system.

Use of this system with any other Franklin Electric motor or with motors from other manufactures may result in damage to both motor and electronics.

## Franklin Electric CP Water SubDrive 75:

### NEMA 1 Controller Specifications:

- Input Phase: Single Phase
- Input Voltage: 190 - 260 VAC
- Input Frequency: 50/60 Hz
- Input Maximum Current :11 Amps RMS
- Output Phase (to motor): Three Phase
- Output Voltage (to motor): Adjusts with Frequency
- Output Frequency (to motor): Variable (30-80 Hz)
- Output Maximum Current (to motor): 5.9 Amps RMS (each phase)
- Location: Indoor use; operation in ambient temperatures -13 to 125 °F (at 230 VAC input)
- Circuit Breaker: 15 Amp (at 208 or 230 VAC nominal input)
- Weight: 13.8 lbs., Height: 14.25", Width: 9.75", Depth: 5.25"

*Note— a NEMA 4 (outdoor use) Controller is available-consult factory.*

### Pressure Sensor Specifications:

Factory preset: 50 psi

Adjustable range: 25 to 80 psi

A 10 foot section of cable is provided with the system to connect the pressure sensor

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## Wire Size - Controller to Motor:

AWG Copper Size	14	12	10	8
Max. Length in Feet	420	670	1060	1670

AWG copper wire, 140°F/60°C insulation. Aluminum wires should not be used with the Premier Pressure series.

## Minimum Pressure Tank Size (tank not included with system)

Flow rate less than 12 gpm...2 gallon tank

Flow rate 12 gpm and higher...4 gallon tank

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# LANCASTER

4" Submersible Well Pumps  
 SERIES "PP" - PREMIER PRESSURE  
 Using Franklin Electric Constant Pressure Controller

PUMP MODEL NO.		3 H.P.		2-3ST30017-3PP			3 H.P.		2-3SU30011-3PP		
LENGTH— WEIGHT (pump and motor assy.)				36.5" — 44.0 lbs.					33.5" — 41.8 lbs.		
Stages—Discharge				17 - 1.25" NPT					11 - 1.25" NPT		
Constant Pressure PSI at Pressure Sensor		30	40	50	60	70	30	40	50	60	70
DEPTH TO WATER IN FEET	40	18.7	18.6	18.5	18.4	18.4	33.7	32.9	32.1	31.3	30.6
	80	18.5	18.5	18.4	18.3	18.2	32.3	31.5	30.8	30.0	29.2
	120	18.4	18.3	18.2	18.2	18.1	31.0	30.2	29.4	28.6	27.7
	160	18.3	18.2	18.1	18.0	17.9	29.6	28.8	28.0	27.1	26.3
	200	18.1	18.1	17.9	17.7	17.5	28.2	27.3	26.5	25.7	24.8
	240	18.0	17.8	17.5	17.3	17.1	26.7	25.9	25.1	24.1	23.1
	280	17.6	17.4	17.1	16.9	16.7	25.3	24.4	23.3	22.3	21.3
	320	17.2	17.0	16.8	16.5	16.3	23.6	22.6	21.6	20.6	19.4
	360	16.8	16.6	16.4	16.1	15.9	21.9	20.8	19.7	18.4	17.0
	400	16.4	16.2	16.0	15.6	15.3	20.1	18.7	17.3	15.9	14.6
	440	16.0	15.7	15.4	15.1	14.7	17.7	16.3	14.9	13.6	12.2
	480	15.5	15.2	14.8	14.5	14.2	15.3	13.9	12.6	11.2	9.8
	520	14.9	14.6	14.3	13.9	13.5	13.0	11.6	10.3	8.0	5.5
	560	14.3	14.0	13.6	13.3	12.9	10.6	8.6	6.1		
	600	13.7	13.4	13.0	12.6	12.2	6.8				
	640	13.1	12.7	12.3	11.9	11.5					
	680	12.4	12.0	11.6	11.1	10.7					
	720	11.7	11.3	10.8	10.4	9.9					
	760	10.9	10.5	10.0	9.6	9.1					
	800	10.2	9.7	9.2	8.7	8.3					
840	9.4	8.9	8.4	7.9	7.3						
880	8.5	8.0	7.5	6.9	6.2						
920	7.6	7.0	6.4	5.3							
960	6.6	5.9									
1000	4.2										
MAXIMUM CAPACITY IN GPM ( Maintaining Constant Pressure)											

PUMP MODEL NO.		3 H.P.		2-3SW30009-3PP		
LENGTH— WEIGHT (pump and motor assy.)				32.8" — 41.3 lbs.		
Stages—Discharge				9 - 1.25" NPT		
Constant Pressure PSI at Pressure Sensor		30	40	50	60	70
DEPTH TO WATER IN FEET	40	41.9	41.2	40.5	39.6	38.4
	80	40.7	39.9	38.7	37.5	36.3
	120	39.0	37.8	36.7	35.5	34.0
	160	37.0	35.8	34.4	32.7	31.0
	200	34.9	33.2	31.5	29.7	28.0
	240	31.9	30.2	28.5	26.7	25.0
	280	28.9	27.2	25.5	23.1	20.5
	320	25.9	23.8	21.2	18.7	16.5
	360	21.9	19.4	17.1	14.8	12.5
	400	17.7	15.4	13.1	10.9	
	440	13.8	11.5	7.1		
480	9.3					
MAXIMUM CAPACITY IN GPM ( Maintaining Constant Pressure)						

\* Friction losses in discharge pipe and fittings are not included in these tables

## Lancaster Pump-End Specifications:

Depending on the specific Premier Pressure system, the Pump-End will be one of the following 1½ HP Survivor designs: **ST15017** from our **ST** series, **SU15011** from our **SU** series, **SW15009** from our **SW** series.

### Motor Specifications:

- HP: 3
- Phase: Three Phase
- Voltage: 230 Volt
- Frequency: 60 Hz
- SF: 1.15, SFA: 10.9 Amps
- Duty Rating: Continuous

Use only Franklin Electric 3 phase motor provided with system.

Use of this system with any other Franklin Electric motor or with motors from other manufactures may result in damage to both motor and electronics.

### Franklin Electric CP Water SubDrive 150:

#### NEMA 1 Controller Specifications:

- Input Phase: Single Phase
- Input Voltage: 190 - 260 VAC
- Input Frequency: 50/60 Hz
- Input Maximum Current: 23 Amps RMS
- Output Phase (to motor): Three Phase
- Output Voltage (to motor): Adjusts with Frequency
- Output Frequency (to motor): Variable (30-80 Hz)
- Output Maximum Current (to motor): 10.9 Amps RMS (each phase)
- Location: Indoor use; operation in ambient temperatures -13 to 125°F (at 230 VAC input)
- Circuit Breaker: 25 Amp (at 230 VAC nominal input), 30 Amp (at 208 VAC nominal input)
- Weight: 17 lbs., Height: 14.25", Width: 9.75", Depth: 5.25"

*Note- a NEMA 4 (outdoor use) Controller is available-consult factory.*

#### Pressure Sensor Specifications:

Factory preset: 50 psi

Adjustable range: 25 to 80 psi

A 10 foot section of cable is provided with the system to connect the pressure sensor

#### Wire Size - Controller to Motor:

AWG Copper Size	14	12	10	8	6
Max. Length in Feet	240	390	620	990	1540

AWG Copper Wire, 140°F/60°C insulation. Aluminum wires should not be used with the Premier Pressure series.

#### Minimum Pressure Tank Size (tank not included with system)

Flow rate less than 12 gpm...4 gallon tank

Flow rate 12 gpm and higher...8 gallon tank

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