



## COMMANDER® PRO150 COMPLETE PACKAGED CONSTANT PRESSURE SYSTEMS

### DESIGNED FOR THE PROFESSIONAL PUMP INSTALLER

#### FEATURES:

- **Easy Installation**
- **Increases flow as demand increases**
- **Adjustable constant pressure**
- **Built-in diagnostics**
- **Automatic pump and motor protection**
- **Smart Reset® technology**

**5 YEAR  
WARRANTY**

Covers  
**ALL** Packaged  
Components



### 3 HP Constant Pressure Systems for Irrigation & Deep Well Applications

The Commander® Pro 150 series of pre-packaged constant pressure water systems is designed specifically for demanding applications. Six models engineered to provide a constant pressure water supply from as deep as 950' or at flows from 3 to 125 GPM. These system packages are ideal for use in residential and light commercial applications, including large homes, deep wells, ground source heat pumps, lawn irrigation systems and water features. Features include dependable 4" submersible pump technology, single-phase power input and the innovative Franklin SubDrive 150 variable speed controller. These systems are designed to reduce total equipment costs, as large bulky tanks, external motor protection devices and complicated adjustments are no longer required.

#### Residential Water Systems

- "City-like" water pressure
- Smaller tank saves space

#### Lawn Irrigation Systems

- Even distribution of water in zones
- Eliminates need for separate system

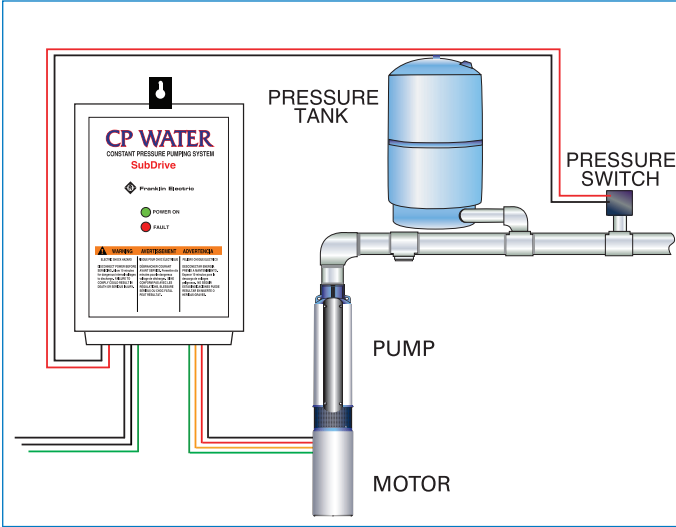
#### Geothermal Systems

- No need for large buried tanks
- Eliminates pressure cycling

#### Water Treatment Systems

- More efficient back flushing
- No need for multiple pumps

## SPECIFICATIONS - Commander Pro 150 Series



**Input (From Power Source)**  
 Voltage . . . . . 200-250 V/Single Phase  
 Frequency . . . . . 60/50 Hertz  
 Amps (RMS) . . . . . 23 Amps  
 Power . . . . . 560 Watts @ 30 Hz  
 Power . . . . . 4600 Watts @ 80 Hz  
 Power Factor . . . . . 1 (Constant)

**Output (To Motor)**  
 Voltage . . . . . Variable V / Three Phase  
 Frequency . . . . . Variable (30-80 Hz)  
 Amps (RMS) . . . . . 10.9 Amps  
 Start . . . . . High Torque - Soft Start  
 . . . . . 25 - 80 PSI (preset at 50 psi)  
**Pressure Controller Enclosure**  
 . . . . . NEMA 1 (indoor)

**Built-in protection & diagnostics for:**

- Surge Protection
- Underload - low water conditions
- Undervoltage
- Short Circuit
- Overheated Controller w/auto compensation feature
- Locked Pump w/auto reverse feature

**“City-like” water pressure for rural water systems in one complete package. The system includes:**



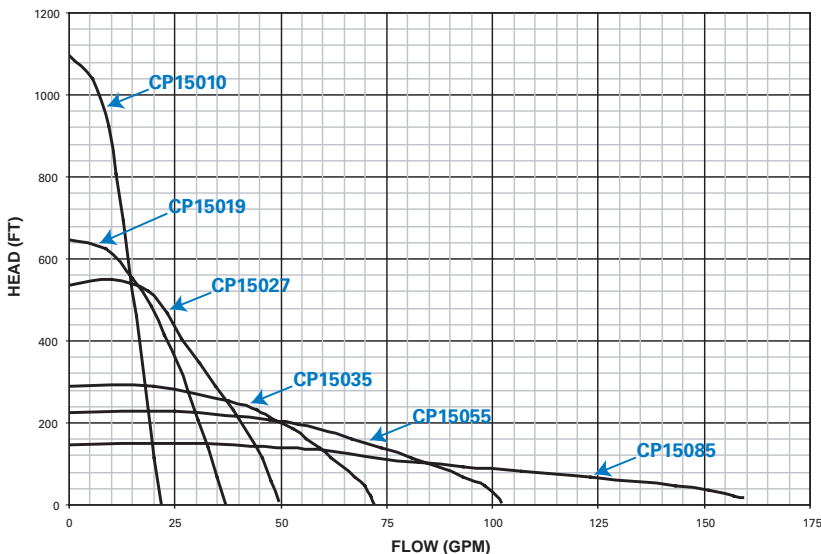
Franklin’s CP Subdrive 150 Controller with advanced electronics. Air-cooled NEMA 1 enclosure. Adjusts 25 to 80 PSI constant pressure. Includes pressure switch.

Factory specified pump end for optimal performance and efficiency. Specifically factory engineered to be compatible with Subdrive 150 controller.

Proven Franklin Super Stainless water-lubricated motor. Performance matched for long life. Specified to avoid overload

Small Air-E-Tainer® 14 gal. capacity tank saves space and money. Properly sized and pre-charged to 35 psi for use with this system.

### COMMANDER PRO® 150 PERFORMANCE



### DIMENSIONS

Model	Disch.	Pump Dia.*	Pump Length	Motor Dia.	Motor Length	Total Length
CP15010	1-1/4"	3.88"	24.25"	3.75"	16.06"	40.3"
CP15019	1-1/4"	3.88"	18.25"	3.75"	16.06"	34.3"
CP15027	1-1/4"	3.88"	18.90"	3.75"	16.06"	35.0"
CP15035**	2"	3.88"	14.25"	3.75"	16.06"	30.3"
CP15055**	2"	3.88"	14.50"	3.75"	16.06"	30.6"
CP15085**	2"	3.88"	14.50"	3.75"	16.06"	30.6"

\* Including Cable Guard  
 \*\*CP15035, CP15055 & CP15085 do not include an internal check valve.  
 For packages less tank, use "LT" suffix after package part number, i.e. CP15010LT.

### WIRE SIZING

The minimum allowable wire lengths for connection of motor to the CP Water SubDrive 150 are given in the following table.

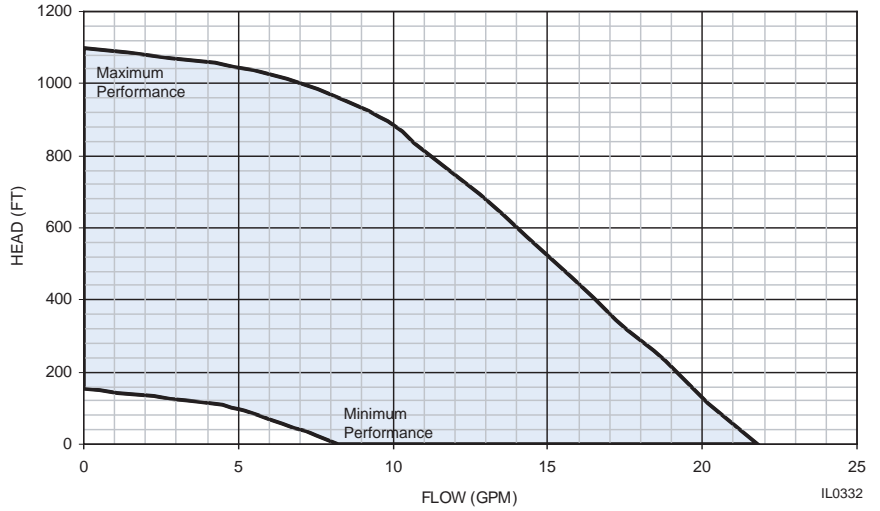
Copper Wire Size (AWG)	14	12	10	8	6
Maximum Length (Feet)	240	390	620	990	1540
Maximum Length (Meters)	73	119	189	302	469

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Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					473
100	19.2	18.8	18.6	18.4	
150	18.4	18.2	17.8	17.7	
200	17.8	17.7	17.3	17.1	
250	17.3	16.9	17.2	16.3	
300	16.7	16.2	16.0	15.8	
350	16.1	15.8	15.3	15.2	
400	15.3	15.1	14.9	14.5	
450	14.8	14.4	14.1	13.9	
500	14.1	13.8	13.6	13.1	
550	13.5	13.1	12.8	12.6	
600	12.8	12.5	12.3	11.9	
650	12.2	11.8	11.5	11.2	
700	11.3	11.1	10.7	10.3	
750	10.6	10.2	10.0	9.5	
800	9.9	9.4	8.9	8.1	
850	8.7	8.1	7.5	6.5	
900	7.2	6.5	5.3		
950	5.3	4.5			

\*Factory Preset @ 50 PSI

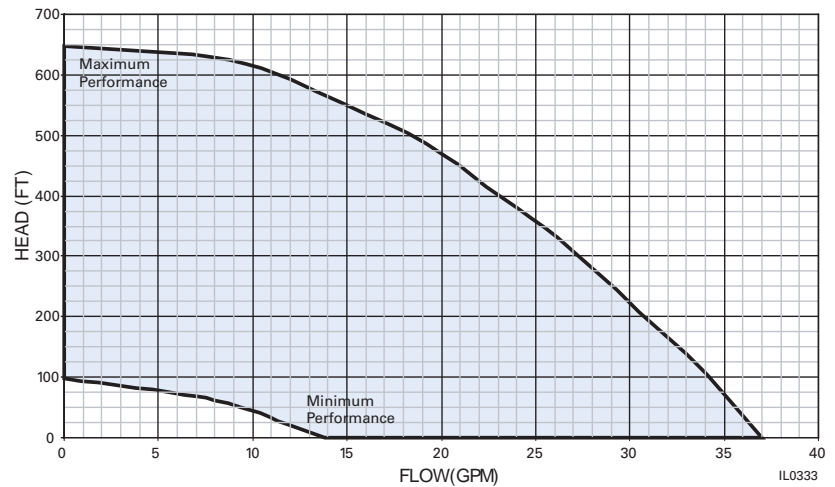
## Model #CP15010



## Model #CP15019

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					280
25	33.8	32.7	32.2	31.3	
50	32.7	32.0	31.2	30.3	
75	32.3	31.2	30.5	29.1	
100	30.9	30.3	29.3	28.6	
150	29.2	28.4	27.7	26.8	
200	27.4	26.6	25.8	24.8	
250	25.7	24.6	23.8	22.5	
300	23.5	22.4	21.5	20.5	
350	21.3	20.2	19.2	17.6	
400	18.9	17.3	15.6	13.9	
450	15.6	13.8	12.4	10.0	
500	12.0	9.9			

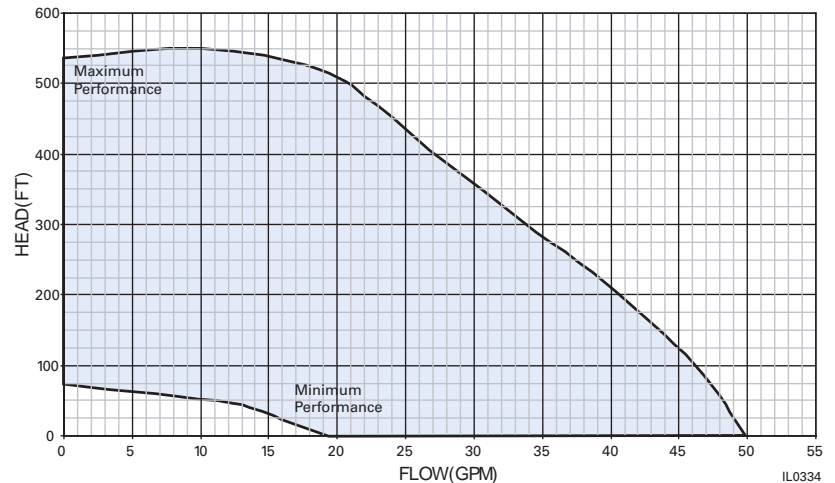
\*Factory Preset @ 50 PSI



## Model #CP15027

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					233
25	45.3	43.9	42.6	41.3	
50	43.8	42.5	41.2	39.9	
75	42.4	41.1	39.8	31.3	
100	41.0	39.7	38.2	36.5	
150	37.9	36.1	34.6	33.0	
200	34.4	32.6	31.2	29.7	
250	31.0	29.5	27.7	26.2	
300	27.4	25.8	24.7	23.5	
350	24.4	23.2	21.5	19.7	
400	21.3	19.0			

\*Factory Preset @ 50 PSI



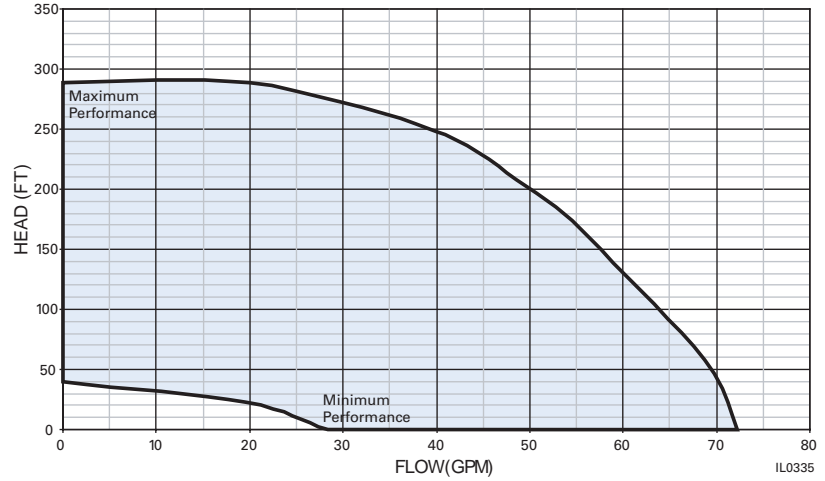


# Commander® PRO150

## Model #CP15035

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					122
25	62.0	<b>58.0</b>	56.0	52.0	
50	58.0	<b>56.0</b>	52.0	47.0	
75	56.0	<b>52.0</b>	47.0	42.0	
100	52.0	<b>47.0</b>	42.0	33.0	
125	47.0	<b>42.0</b>	33.0	21.0	
150	42.0	<b>32.0</b>	19.0		
175	32.0	<b>15.0</b>			

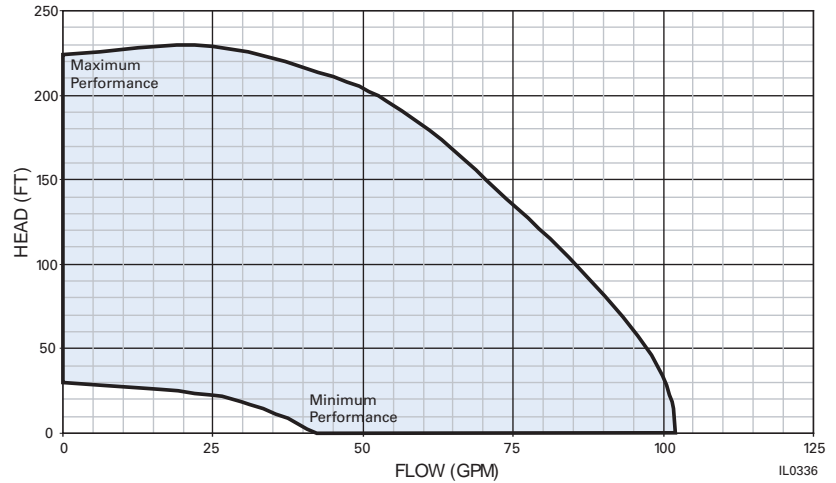
\*Factory Preset @ 50 PSI



## Model #CP15055

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					98
25	81.0	<b>73.0</b>	66.0	57.7	
50	72.0	<b>65.0</b>	56.7	44.1	
75	64.3	<b>56.0</b>	43.0		
100	55.4	<b>42.0</b>			
125	40.9				

\*Factory Preset @ 50 PSI



## Model #CP15085

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting			Maximum Shut Off (PSI)
	30	40	50*	
				64
0	122.0	95.0	<b>73.0</b>	
5	117.0	87.0	<b>69.0</b>	
10	108.0	83.0	<b>64.0</b>	
15	103.0	78.0	<b>60.0</b>	
20	97.0	75.0	<b>54.0</b>	
25	92.0	72.0	<b>46.0</b>	
30	86.0	68.0	<b>38.0</b>	
35	82.0	63.0		
40	78.0	55.0		
50	68.0	45.0		

\*Factory Preset @ 50 PSI

