



FLINT & WALLING

Zoeller Family of Water Solutions™

Constant Pressure - Variable Speed Drive Systems

FW1210
0211
Supersedes
0110

**COMMANDER® PRO CP75,
CP100 and CP150 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*

**HIGH CAPACITY 35 - 85 GPM
STAINLESS STEEL SUBMERSIBLE
PUMPS WITH SUBDRIVE 300
VARIABLE SPEED CONTROLLER**

**5 HP Constant Pressure Systems
for Irrigation and Deep Well
Applications**





Commander® PRO75, 100 and 150

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1.5, 2 and 3 HP Constant Pressure Systems for Home, Irrigation & Deep Well Applications

The Commander Pro 75, 100 and 150 series of pre-packaged constant pressure water systems are designed specifically for demanding applications. These models are engineered to provide a constant pressure water supply from as deep as 950' or at flows from 2 to 125 GPM. Features include dependable 4" submersible

pump technology, single-phase power input and Franklin SubDrive 75, 100 and 150 variable speed controllers. These systems are designed to reduce total equipment costs, as large bulky tanks, external motor protection devices and complicated adjustments are no longer required.

Applications include:

Residential Water Systems

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

Geothermal Systems

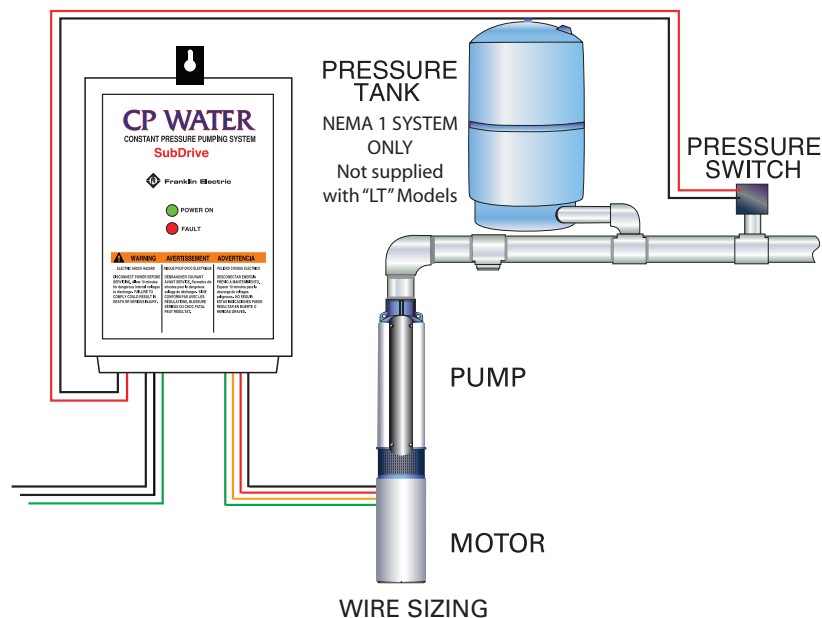
- No need for large buried tanks
- Eliminates pressure cycling

Lawn Irrigation Systems

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

Water Treatment Systems

- More efficient back flushing
- No need for multiple pumps



The maximum allowable wire lengths for connection of motor to the CP Water SubDrive 75 are given in the following table.

System	HP		AWG Copper Wire Sizes, 140F/60C Insulation				
			14	12	10	8	6
CP75	1.5	Feet	420	670	1060	1670	-
		Meters	128	204	322	508	-
CP100	2	Feet	320	510	810	1280	2010
		Meters	97	155	246	390	612
CP150	3	Feet	240	390	620	990	1540
		Meters	73	119	189	302	469

Commander® PRO75, 100 and 150



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GENERAL SPECIFICATIONS		Commander Pro 75 Series	Commander Pro 100 Series	Commander Pro 150 Series
Input (From Power Source)	Voltage	200-250 V/Single Phase		
	Frequency	60/50 Hertz		
	Amps (RMS)	11 Amps	19 Amps	23 Amps
	Power (Idle)	35 Watts	65 Watts	65 Watts
	Power	2400 Watts @ 80 Hz	3800 Watts @ 80 Hz	4600 Watts @ 80 Hz
	Power Factor	1 (Constant)		
Output (To Motor)	Voltage	Variable V / Three Phase		
	Frequency	Variable (30-80 Hz)		
	Amps (RMS)	5.9 Amps	8.1 Amps	10.9 Amps
	Start	High Torque - Soft Start		
Pressure		25 - 80 PSI (preset at 50 psi)		
Controller Enclosure		NEMA 1 (indoor)		
		NEMA 4 (outdoor)		

Built-in protection & diagnostics for:

- Surge Protection
- Underload - low water conditions
- Under voltage
- 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. Systems include:



Franklin's CP Subdrive 75, 100 or 150 Controller with advanced electronics. Air-cooled NEMA 1 or NEMA 4 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 75, 100 and 150 controllers.



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



Small Air-E-Tainer® tanks save space and money. Properly sized and pre-charged to 35 psi for use with these systems. Not available on “LT” (Less Tank) models.



Commander® PRO75

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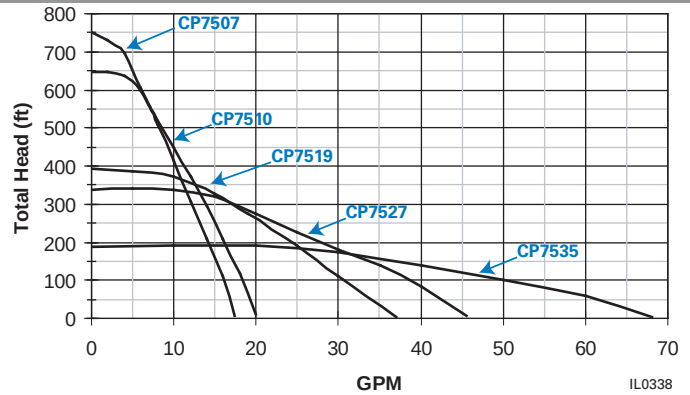
DIMENSIONS

Model	Disch.	Pump Dia.*	Pump Length	Motor Dia.	Motor Length	Total Length
CP7507	1-1/4"	3.88"	19.4"	3.75"	11.8"	31.2"
CP7510	1-1/4"	3.88"	18.9"	3.75"	11.8"	30.7"
CP7519	1-1/4"	3.88"	17.0"	3.75"	11.8"	28.8"
CP7527	1-1/4"	3.88"	15.3"	3.75"	11.8"	27.1"
CP7535**	2"	3.88"	11.8"	3.75"	11.8"	23.6"

* Including Cable Guard

**CP7535 does not include an internal check valve.

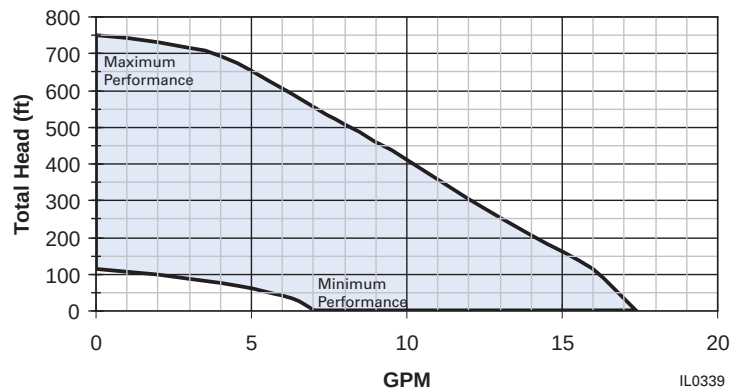
For packages less tank, use "LT" suffix after package part number, i.e. CP7510LT. All NEMA 4 systems are less tank. Example: CP75N4LT.



Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
						324
20	16.3	16.0	15.6	15.1	14.6	
40	16.1	15.6	15.1	14.6	14.1	
60	15.7	15.2	14.7	14.2	13.7	
80	15.3	14.8	14.2	13.8	13.3	
100	14.8	14.3	13.8	13.3	12.9	
120	14.4	13.9	13.4	12.9	12.5	
140	14.0	13.5	13.0	12.5	12.1	
160	13.5	13.1	12.6	12.1	11.7	
180	13.1	12.7	12.2	11.8	11.3	
200	12.7	12.3	11.8	11.4	10.9	
220	12.3	11.9	11.5	11.0	10.6	
240	12.0	11.5	11.1	10.6	10.2	
260	11.6	11.1	10.7	10.3	9.8	
280	11.2	10.8	10.3	9.9	9.4	
300	10.8	10.4	9.9	9.5	9.0	
350	9.9	9.4	8.9	8.4	7.9	
400	8.9	8.3	7.9	7.4	6.9	
450	7.8	7.3	6.8	6.4	5.9	
500	6.7	6.3	5.8	5.4	5.0	
550	5.8	5.3	4.9	4.4	3.7	
600	4.8	4.3	3.5	1.5	-	
650	3.3	.8	-	-	-	

* Factory preset 50 PSI

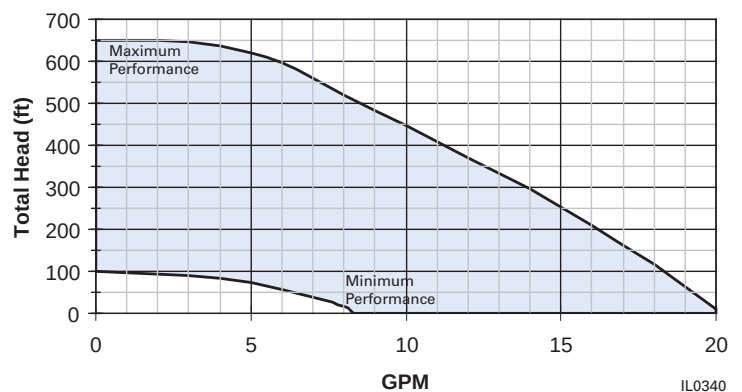
Models CP7507, CP7507LT, CP7507N4LT



Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
						280
20	18.6	18.1	17.8	17.2	16.8	
40	18.2	17.7	17.2	16.7	16.2	
60	17.8	17.2	16.8	16.2	15.8	
80	17.3	16.8	16.3	15.8	15.3	
100	16.9	16.4	15.8	15.3	14.8	
120	16.4	15.9	15.4	14.9	14.4	
140	16.0	15.5	14.9	14.4	13.8	
160	15.6	15.0	14.4	13.9	13.4	
180	15.1	14.6	14.0	13.4	12.8	
200	14.8	14.1	13.5	12.9	12.2	
220	14.1	13.8	12.9	12.3	11.8	
240	13.6	13.0	12.4	11.8	11.2	
260	13.1	12.5	11.9	11.3	10.7	
280	12.6	12.0	11.4	10.8	10.2	
300	12.0	11.4	10.8	10.3	9.6	
350	10.8	10.1	9.5	8.8	8.2	
400	9.4	8.8	8.1	7.5	7.0	
450	8.2	7.4	6.3	6.3	5.5	
500	6.8	6.2	4.0	3.9		
550	5.1	3.8				

* Factory preset 50 PSI

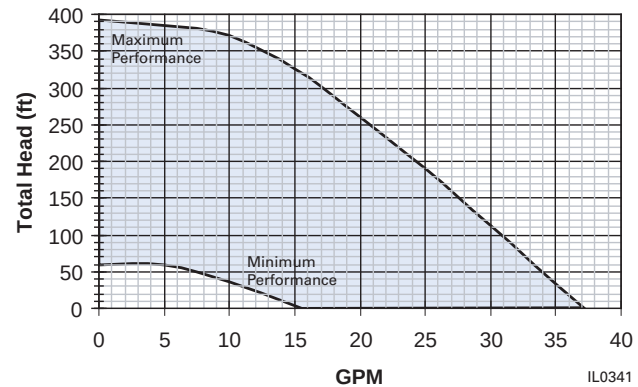
Models CP7510, CP7510LT, CP7510N4LT



Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
						169
20	31.8	30.0	28.5	27.2	26.3	
40	30.2	28.7	27.4	26.0	24.2	
60	29.0	27.5	26.0	24.5	22.7	
80	27.7	26.3	24.6	23.0	21.2	
100	26.5	25.0	23.1	21.5	19.5	
120	25.2	23.0	21.6	20.0	18.0	
140	23.7	22.0	20.0	18.5	16.8	
160	22.1	20.2	18.5	17.0	15.2	
180	20.6	18.7	17.2	15.2	13.5	
200	19.0	17.5	15.7	13.9	11.4	
220	17.7	16.0	14.0	11.9	7.0	
240	16.3	14.4	12.0	9.9		
260	14.6	12.5	9.0			
280	12.7	9.9				
300	10.3					

* Factory preset 50 PSI

Models CP7519, CP7519LT, CP7519N4LT

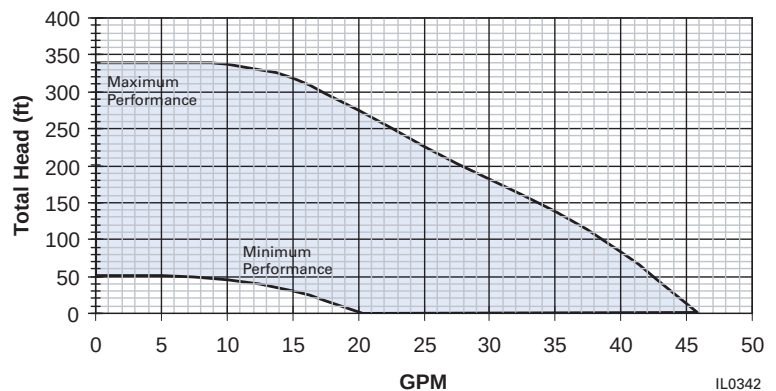


IL0341

Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	39.5	37.5	35.4	33.0	30.0	146
40	37.9	35.6	33.2	30.5	27.4	
60	36.0	33.5	30.9	28.0	25.0	
80	34.0	31.2	28.2	25.3	22.8	
100	31.5	28.6	25.6	23.1	20.6	
120	29.1	25.6	23.5	21.2	18.9	
140	26.4	23.8	21.4	19.2	16.9	
160	24.2	21.8	19.5	17.2	14.4	
180	22.1	19.8	17.5	15.1		
200	20.0	17.9	15.3	14.5		
220	18.2	15.9	10.3			
240	16.2	11.8				
260	13.0					

* Factory preset 50 PSI

Models CP7527, CP7527LT, CP7527N4LT



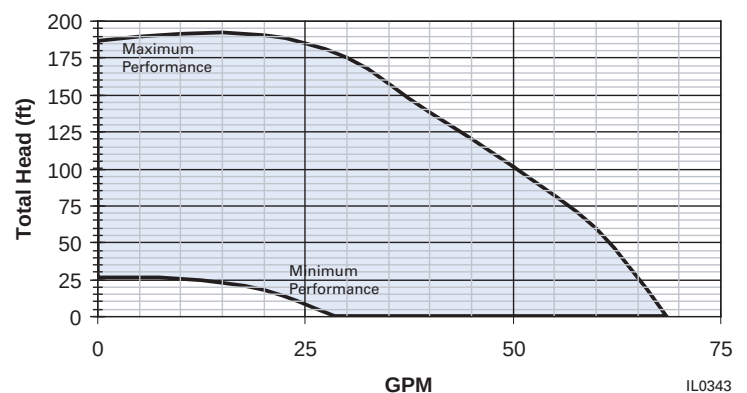
IL0342

Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	53.0	47.0	40.8	34.9	27.0	81
40	47.9	41.5	35.8	28.5		
60	42.3	36.4	30.0			
80	37.0	31.0				
100	32.0					
120	21.0					

* Factory preset 50 PSI

**CP7535 does not include an internal check valve.

Models CP7535, CP7535LT, CP7535N4LT



IL0343



Commander® PRO100

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DIMENSIONS

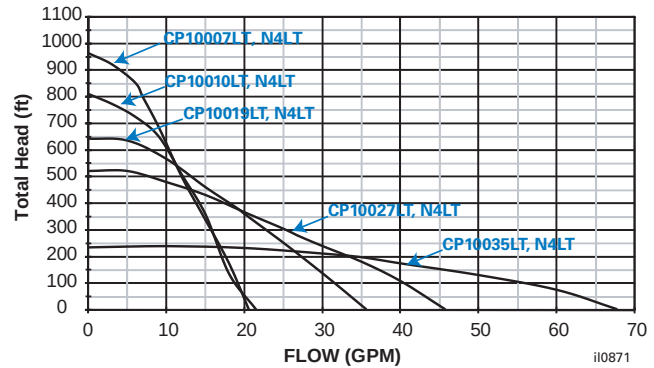
Model***	Disch.	Pump Dia.*	Pump Length	Motor Dia.	Motor Length	Total Length
CP10007LT, N4LT	1-1/4	3.88	22.60	3.75	13.62	36.22
CP10010LT, N4LT	1-1/4	3.88	20.25	3.75	13.62	33.87
CP10019LT, N4LT	1-1/4	3.88	18.25	3.75	13.62	31.87
CP10027LT, N4LT	1-1/4	3.88	16.85	3.75	13.62	30.47
CP10035LT, N4LT**	2	3.88	12.56	3.75	13.62	26.18

* Including cable guard

** CP10035 does not include an internal check valve

*** All models include suffix N4LT for NEMA 4 systems or LT for NEMA 1 systems.

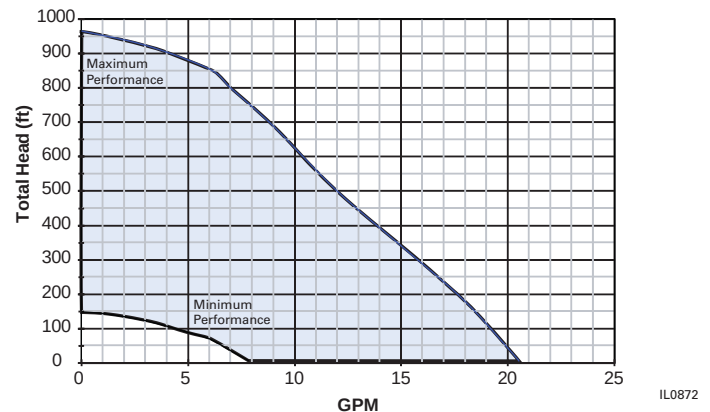
SUBMERSIBLE PUMP COMMANDER® PRO 100



Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Max. Shut-Off (PSI)
	40	50*	60	70	
					417
50	18.5	18.2	17.8	17.4	
100	17.7	17.3	16.9	16.4	
150	16.8	16.4	15.9	15.5	
200	15.9	15.4	15.0	14.5	
250	14.9	14.5	14.0	13.6	
300	13.93	13.5	13.0	12.6	
350	12.95	12.6	12.1	11.7	
400	12.05	11.7	11.3	11.0	
450	11.24	10.9	10.5	10.2	
500	10.46	10.1	9.7	9.4	
550	9.65	9.3	9.0	8.6	
600	8.87	8.5	8.1	7.7	
650	7.99	7.6	7.1	6.8	
700	7.05	6.7	6.4	5.7	
750	6.31	5.6	4.6	3.5	
800	4.44	3.3	1.9		
850	1.74				

*Factory preset to 50 PSI

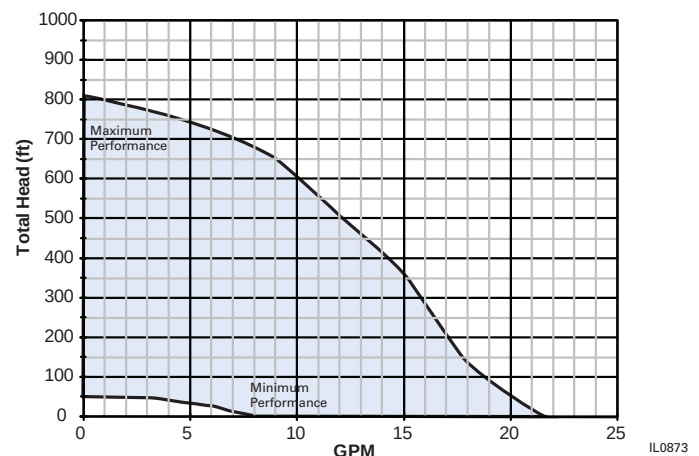
Models CP10007LT, CP10007N4LT



Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Max. Shut-Off (PSI)
	40	50*	60	70	
					351
50	17.9	17.5	17.2	16.9	
100	17.1	16.9	16.6	16.3	
150	16.5	16.3	15.9	15.7	
200	15.9	15.6	15.3	14.9	
250	15.3	14.9	14.5	14.0	
300	14.37	13.9	13.4	13.0	
350	13.43	12.9	12.4	11.9	
400	12.25	11.8	11.4	10.9	
450	11.31	10.8	10.4	9.9	
500	10.33	9.8	9.3	8.7	
550	9.17	8.6	7.7	6.7	
600	7.56	6.5	5.4		
650	5.01				

*Factory preset to 50 PSI

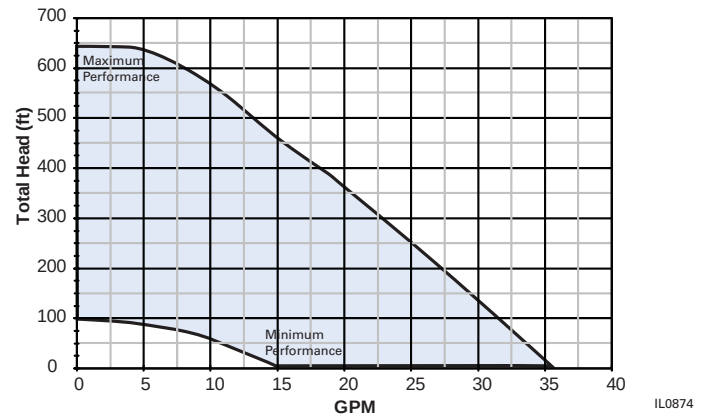
CP10010LT, CP10010N4LT



Models CP10019LT, CP10019N4LT

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Max. Shut-Off (PSI)
	40	50*	60	70	
					278
50	29.8	28.8	27.8	26.8	
100	27.6	26.5	25.6	24.5	
150	25.4	24.4	23.4	22.3	
200	23.2	22.1	21.0	19.9	
250	20.9	19.7	18.7	17.5	
300	18.5	17.3	16.1	15.0	
350	15.9	14.8	13.7	12.7	
400	13.6	12.5	11.5	10.3	
450	11.2	10.0	8.8	7.3	
500	8.5	7.0			

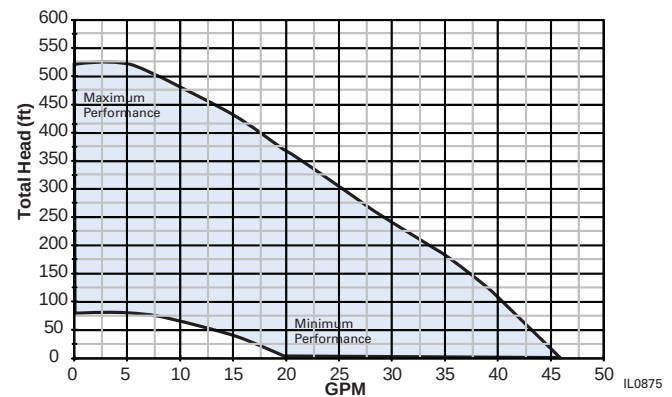
*Factory preset to 50 PSI



Models CP10027LT, CP10027N4LT

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Max. Shut-Off (PSI)
	40	50*	60	70	
					226
50	37.9	36.3	34.6	32.4	
100	34.1	32.1	30.1	28.2	
150	29.8	28.0	26.1	24.6	
200	26.0	24.1	22.2	20.4	
250	21.9	20.0	18.5	16.7	
300	18.18	16.4	14.5	12.1	
350	14.15	11.8	9.2	6.7	
400	8.75	6.2			

*Factory preset to 50 PSI

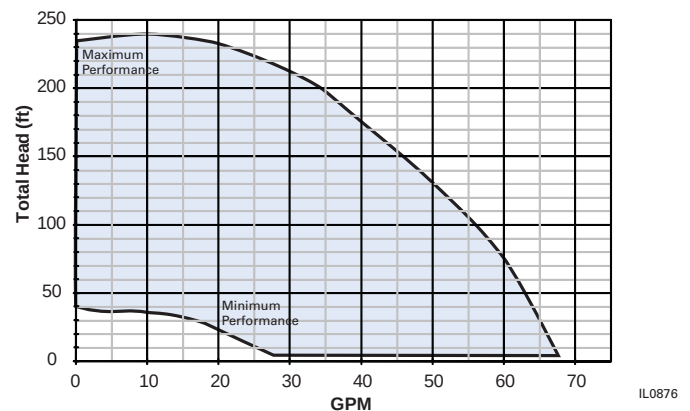


Models CP10035LT, CP10035N4LT

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Max. Shut-Off (PSI)
	40	50*	60	70	
					102
25	52.9	48.0	42.8	37.5	
50	47.8	42.2	37.1	30.2	
75	41.8	36.9	29.4	16.6	
100	36.4	28.6	14.3		
125	28.5	9.8			

*Factory preset to 50 PSI

**Does not include an internal check valve

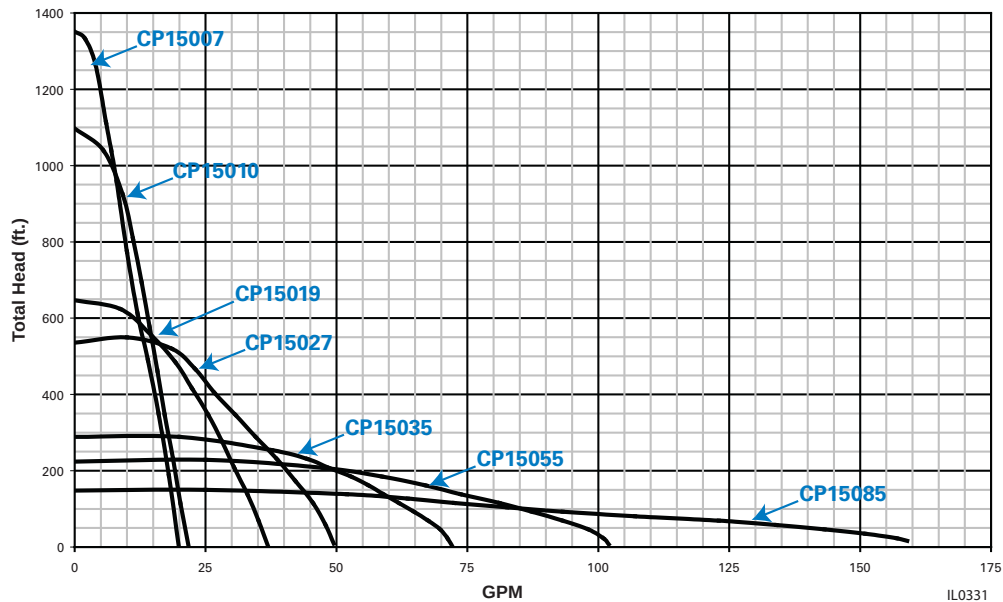




Commander® PRO150

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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.

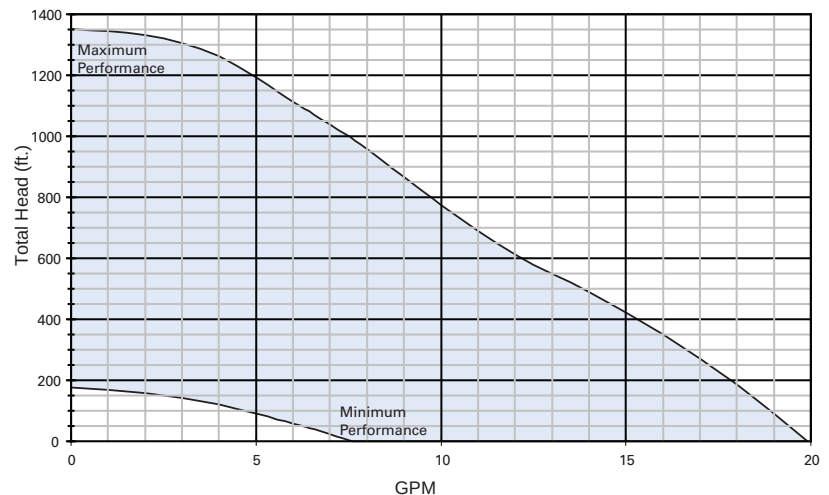
For packages less tank, use "LT" suffix after package part number, i.e.

CP15010LT. All NEMA 4 systems are less tank. Example: CP15010N4LT.

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting				Maximum Shut Off (PSI)
	40	50*	60	70	
					585
100	18.0	17.7	17.4	17.2	
150	17.4	17.1	16.8	16.5	
200	16.8	16.5	16.2	15.8	
250	16.1	15.8	15.5	15.1	
300	15.4	15.1	14.7	14.4	
350	14.7	14.3	13.9	13.6	
400	13.9	13.5	13.2	12.8	
450	13.1	12.8	12.4	12.1	
500	12.4	12.1	11.7	11.4	
550	11.7	11.4	11.1	10.8	
600	11.0	10.7	10.4	10.2	
650	10.4	10.1	9.8	9.6	
700	9.8	9.5	9.2	9.0	
750	9.2	8.9	8.7	8.4	
800	8.6	8.4	8.1	7.9	
850	8.1	7.8	7.6	7.3	
900	7.5	7.3	7.0	6.7	
950	7.0	6.7	6.4	6.1	
1000	6.4	6.1	5.8	5.5	
1050	5.8	5.5	5.1	4.8	
1100	5.1	4.7	4.4	4.0	
1150	4.3	3.9	3.4	2.8	
1200	3.3	2.7	1.7		
1250	1.4				

*Factory preset to 50 PSI

Models CP15007, CP15007LT, CP15007N4LT

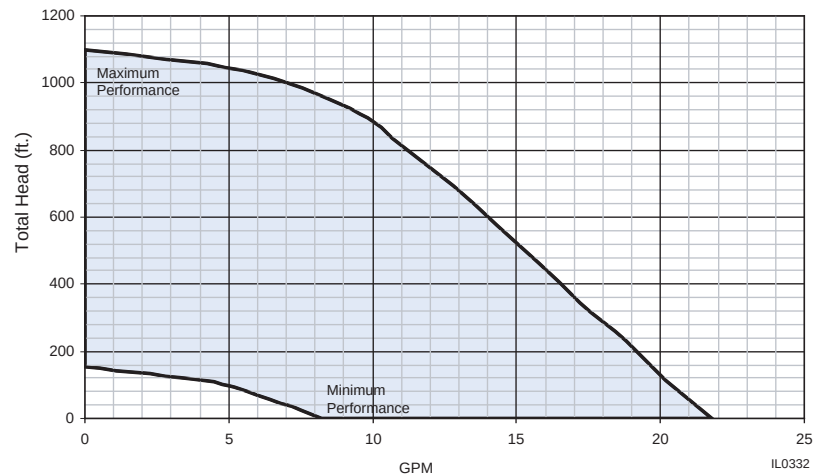


IL0845

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 to 50 PSI

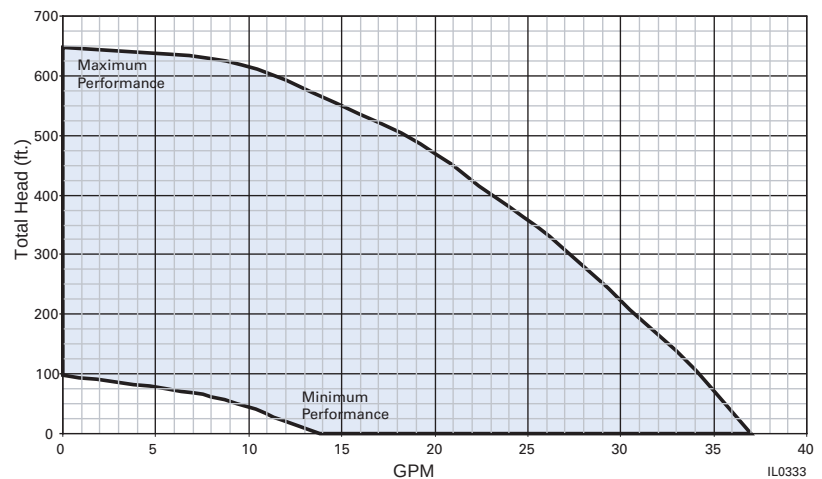
Models CP15010, CP15010LT, CP15010N4LT



Models CP15019, CP15019LT, CP15019N4LT

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			

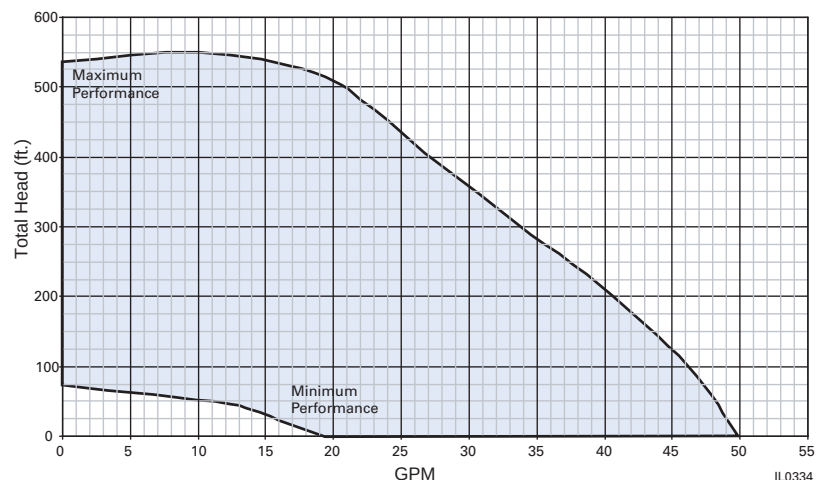
*Factory preset to 50 PSI



Models CP15027, CP15027LT, CP15027N4LT

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	37.3	
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 to 50 PSI





Commander® PRO150

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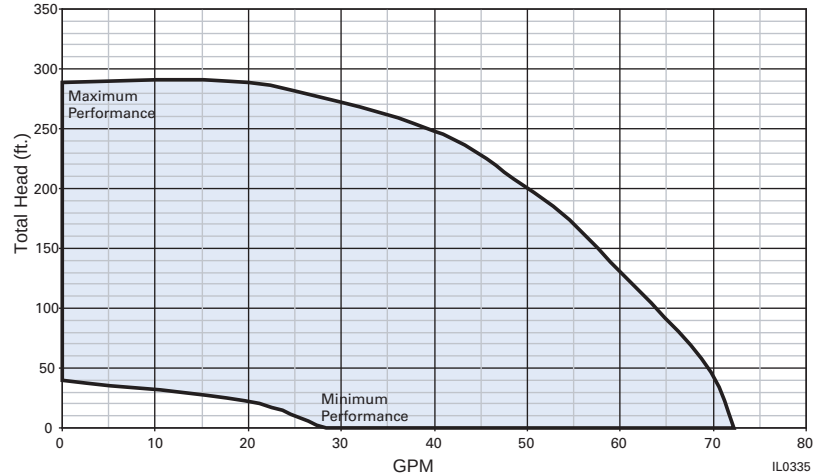
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Models CP15035, CP15035LT, CP15035N4LT

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

*Factory preset to 50 PSI

**Does not include an internal check valve

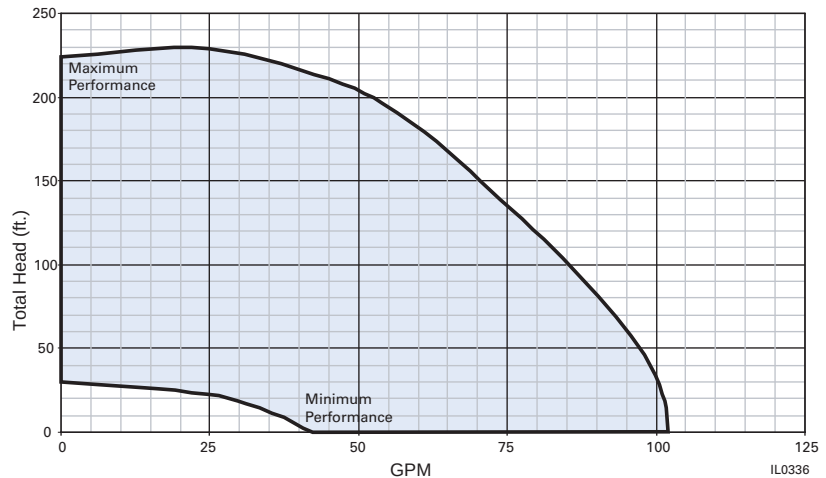


Models CP15055, CP15055LT, CP15055N4LT

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

*Factory preset to 50 PSI

**Does not include an internal check valve

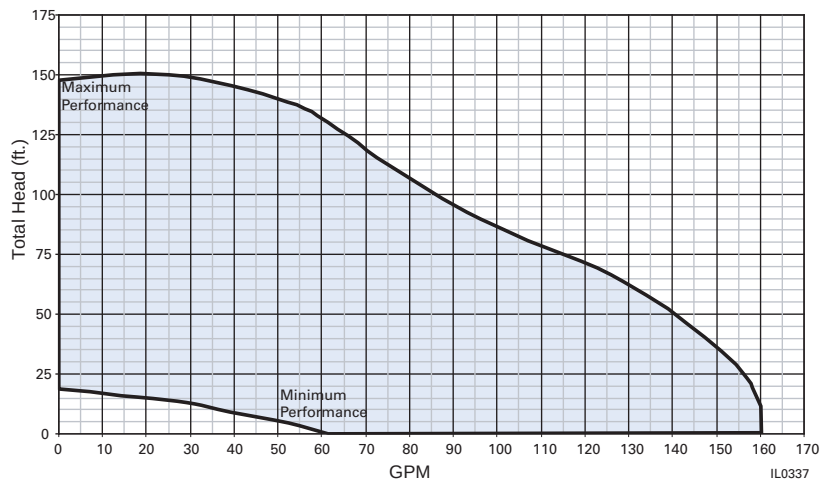


Models CP15085, CP15085LT, CP15085N4LT

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

*Factory Preset to 50 PSI

**Does not include an internal check valve



High Capacity 35 - 85 GPM Stainless Steel Submersible Pumps with SubDrive 300 Variable Speed Controller

5 HP Constant Pressure Systems for Irrigation & Deep Well Applications

Six systems engineered to provide a constant pressure water supply from as deep as 650' or at flows from 3 to 135 GPM. These systems 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 300 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.



SPECIFICATIONS

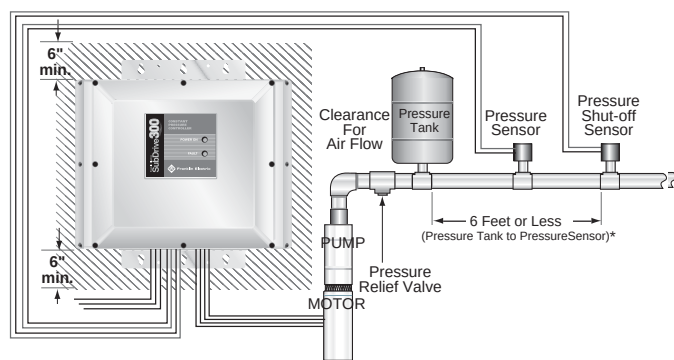
Input (From Power Source) Voltage190-260 V/Single Phase
 Frequency50/60 Hertz
 Amps (RMS)36 Amps
 Power (Idle)65 Watts
 Power560 Watts @ 30 Hz
 Power4600 Watts @ 80 Hz
 Power Factor1 (Constant)

Output (To Motor) VoltageVariable V /Three Phase
 Frequency 3 HP Pump . . .Variable 30-80 Hz
 Frequency 5 HP Pump . . .Variable 30-70 Hz
 Amps (RMS)17.8 Amps
 Start High Torque - Soft Start

Pressure 25 - 80 PSI (preset at 50 psi)
Controller Enclosure NEMA 4

Built-in protection & diagnostics for:

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



IL0666



Commander® PRO300

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REQUIRED SYSTEM COMPONENTS*

Pump Model No.	Pump Description	F&W Motor Model No.	Franklin Motor Reference No.	F&W SD300 Model No.	Franklin SD300 Reference No.	Minimum Pressure Tank Size (Total Capacity)
4F35S30	35 GPM, 10 Stage	137470	23431752	021825	23431726	20 Gallon
4F55S30	55 GPM, 7 Stage					
4F85S30	85 GPM, 6 Stage					
4F35S50	35 GPM, 16 Stage					
4F55S50	55 GPM, 11 Stage					
4F85S50	85 GPM, 10 Stage					

DIMENSIONS

Model	Disch.	Pump Dia.*	Pump Length	Motor Dia.	Motor Length	Total Length
4F35S30	2"	3.88	23.6	3.75	22.2	45.8
4F55S30			22.0			44.2
4F85S30			23.9			46.1
4F35S50			33.2			55.4
4F55S50			30.4			52.6
4F85S50			35.0			57.2

* Including Cable Guard

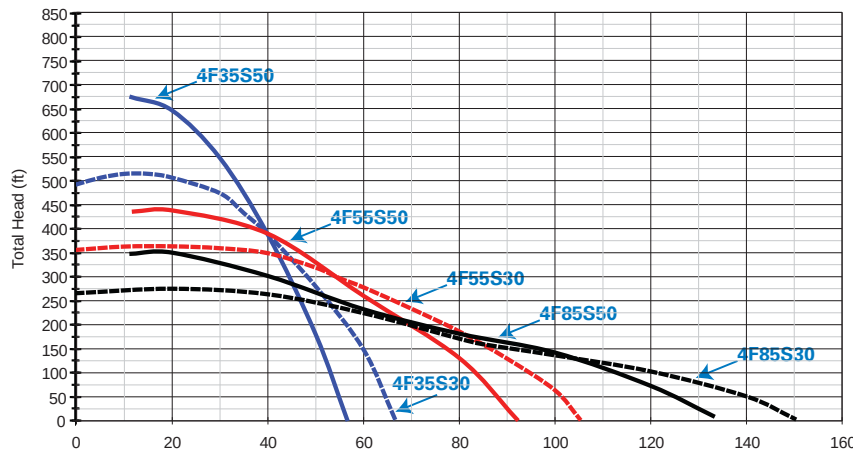
Pumps do not include an internal check valve

WIRE SIZING

The maximum allowable wire lengths for connection of motor to the CP Water SubDrive 300 are given in the following table.

Copper Wire Size (AWG)	14	12	10	8	6	4
Maximum Length (Feet)	140	230	370	590	920	1430
Maximum Length (Meters)	42	70	112	179	280	435

COMMANDER PRO 300

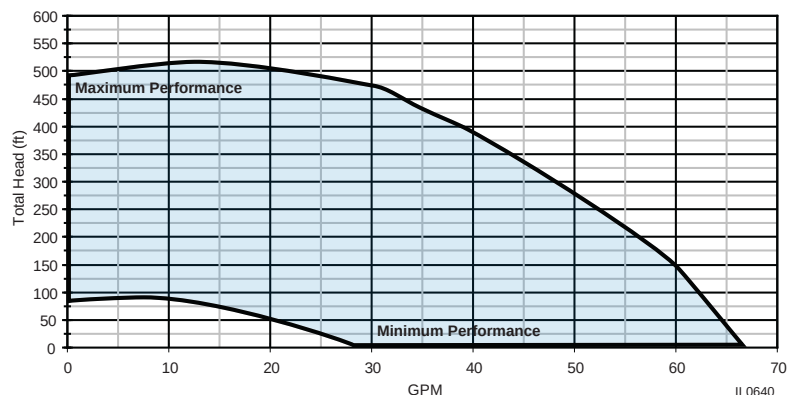


IL0669

4F35S30 with 5 HP Motor

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting						Maximum Shut Off (PSI)
	30	40	50*	60	70	80	
							233
25	63.5	62.0	60.5	59.0	57.0	55.5	
50	61.5	60.5	59.0	57.0	56.0	53.5	
75	60.5	59.0	57.0	55.5	53.0	52.0	
100	58.0	56.5	55.5	54.0	52.0	49.0	
150	55.5	53.0	51.5	49.0	47.5	44.5	
200	51.0	48.5	47.0	44.0	42.5	40.0	
250	46.0	44.0	42.5	40.0	38.0	35.0	
300	43.0	39.0	37.0	34.5	32.5	27.5	
350	36.5	33.5	32.0	24.5	18.5		
400	31.5	29.0	17.0				
450	15.0						

*Factory Preset @ 50 PSI

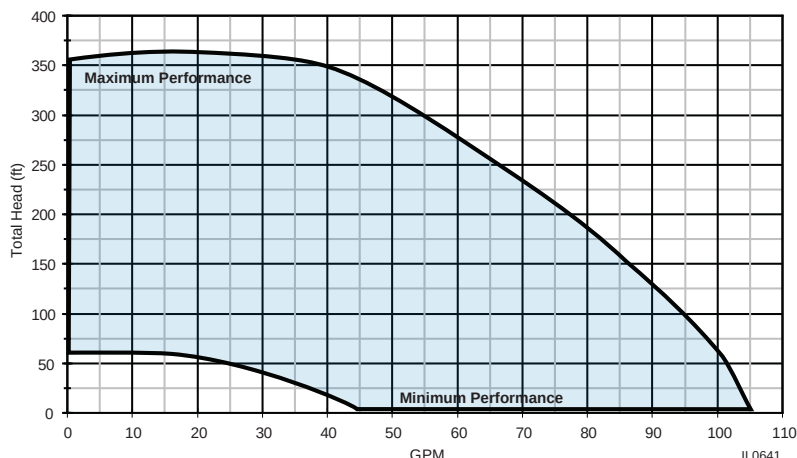


IL0640

4F55S30 with 5 HP Motor

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting						Maximum Shut Off (PSI)
	30	40	50*	60	70	80	
							157
25	95.5	92.5	88.0	85.0	79.0	75.5	
50	94.0	87.5	84.0	79.0	75.0	70.5	
75	86.5	83.5	79.0	75.0	69.5	64.0	
100	84.0	78.5	74.5	70.0	64.0	57.0	
150	75.0	67.5	64.0	57.0	53.5	46.0	
200	62.5	55.0	52.5	46.0	30.0		
250	50.0	44.0	25.0				
300	20.0						

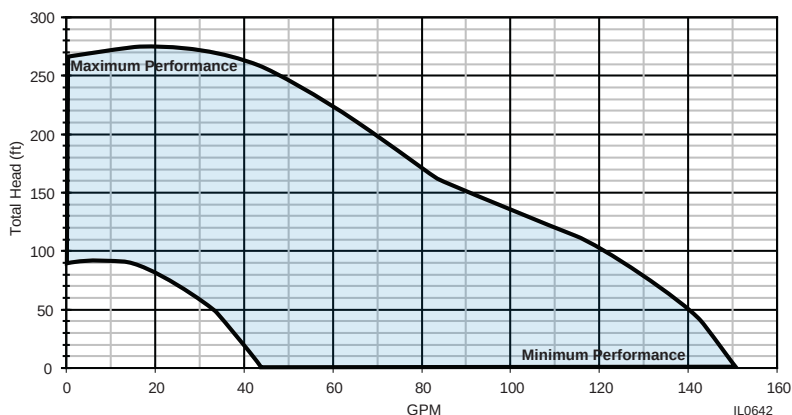
*Factory Preset @ 50 PSI



4F85S30 with 5 HP Motor

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting						Maximum Shut Off (PSI)
	30	40	50*	60	70	80	
							119
25	124.0	113.0	97.0	84.0	74.0	66.5	
50	111.0	96.0	84.0	74.0	65.5	57.5	
75	96.0	82.0	73.5	65.0	55.0	43.0	
100	82.0	73.0	65.0	54.0	40.5		
125	72.0	64.0	52.5	40.0			
150	63.0	52.0	39.5				
175	51.5	29.0					
200	35.0						

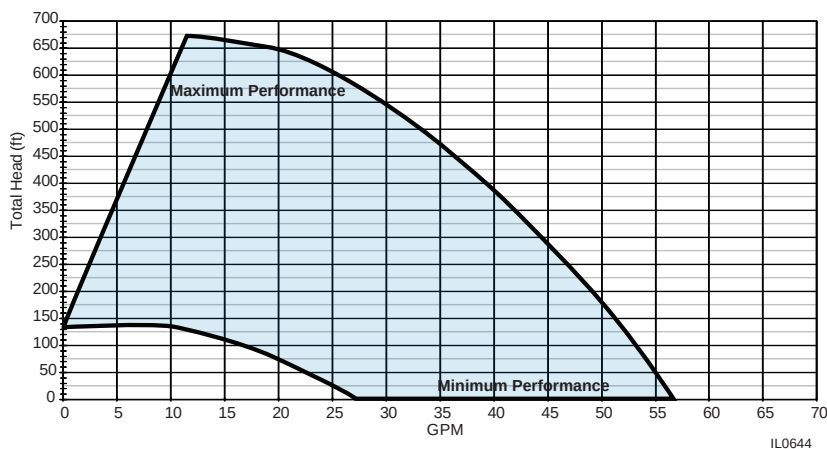
*Preset @ 50 PSI



4F35S50 with 5 HP Motor

Pumping Depth in Feet	MAXIMUM GPM @ PRESSURE SENSOR SETTING						"Maximum Shut Off (PSI)"
	30	40	*50	60	70	80	
							291
25	53.5	52.5	51.5	50.5	49.5	48.5	
50	52.0	51.5	50.5	49.5	48.5	47.5	
75	51.0	50.5	49.5	48.5	47.5	46.0	
100	50.5	49.5	48.5	47.5	46.5	45.0	
150	48.0	47.5	46.0	45.0	44.0	42.5	
200	46.0	45.0	44.0	42.5	41.0	40.0	
250	43.5	42.0	41.0	40.0	38.5	37.0	
300	41.0	39.5	38.5	37.0	35.5	34.0	
350	38.0	37.0	35.5	34.0	32.5	31.0	
400	35.5	34.0	32.0	31.0	28.5	27.0	
450	32.0	30.0	28.5	26.5	24.0	21.5	
500	28.0	26.0	24.0	21.0	16.5		
550	23.5	20.5	14.5				
600	12.5						

*Factory Preset @ 50 PSI





Commander® PRO300

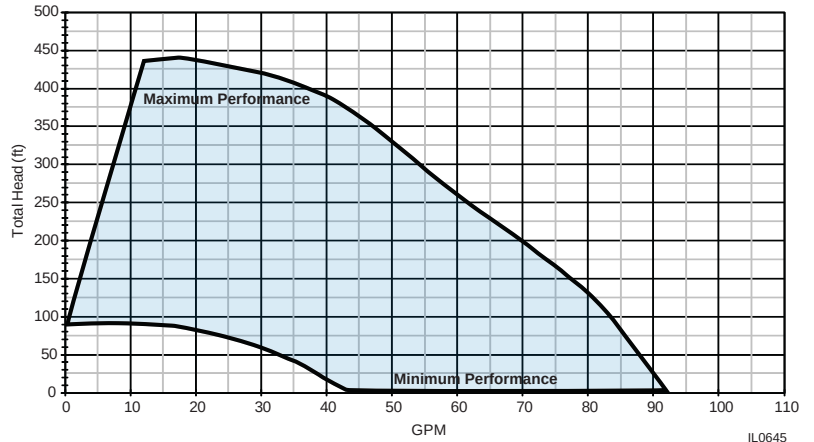
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4F55S50 with 5 HP Motor

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting						"Maximum Shut Off (PSI)"
	30	40	*50	60	70	80	
							188
25	84	82	79	75	72	68	
50	82	78	75	71	68	64	
75	77	75	71	68	64	60	
100	75	71	67	64	59	57	
150	67	63	59	56	52	49	
200	59	55	52	49	45	41	
250	52	48	45	41	33		
300	44	39	32				
350	31						

*Factory Preset @ 50 PSI

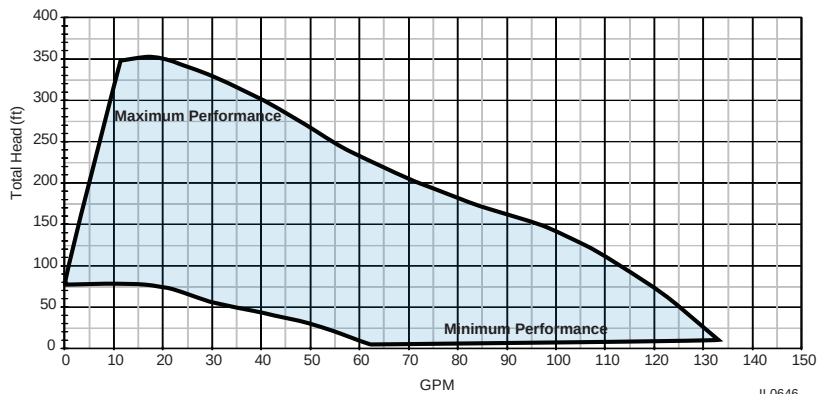


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4F85S50 with 5 HP Motor

Pumping Depth in Feet	Maximum GPM @ Pressure Sensor Setting						"Maximum Shut Off (PSI)"
	30	40	*50	60	70	80	
							150
25	115	108	100	91	77	68	
50	107	100	88	76	67	59	
75	99	87	76	66	58	52	
100	86	75	66	58	51	45	
125	74	65	57	51	44	37	
150	64	57	50	44	36	27	
175	56	50	43	36	27		
200	49	43	35	26			
225	42	34	25				
250	34	24					
275	25						

*Factory Preset @ 50 PSI



IL0646

Commander® Pro Product Reference Guide



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CP PACKAGE		SUBDRIVE		PUMP END				MOTOR	
MODEL	GPM	SUBDRIVE	PART #	GPM	DESIGN	PART #	STAGES	PART #	HP
CP7507LT	7	SD75	020143	07	SS	4F07S07	14	137458	1.5
CP7510LT	10	SD75	020143	10	SS	4F10S07	12	137458	1.5
CP7519LT	19	SD75	020143	19	SS	4F19S10	9	137458	1.5
CP7527LT	27	SD75	020143	27	SS	4F27S10	7	137458	1.5
CP7535LT	35	SD75	020143	35	SS	CP7535RP	3	137458	1.5
CP10007LT	7	SD100	023045	07	SS	4F07S10	18	137462	2
CP10010LT	10	SD100	023045	10	SS	4F10S10	15	137462	2
CP10019LT	19	SD100	023045	19	SS	4F19S15	12	137462	2
CP10027LT	27	SD100	023045	27	SS	4F27S15	10	137462	2
CP10035LT	35	SD100	023045	35	SS	4F35S10	4	137462	2
CP15007LT	7	SD150	020475	07	SS	4F07S15	24	139424	3
CP15010LT	10	SD150	020475	10	SS	4F10S15	20	139424	3
CP15019LT	19	SD150	020475	19	SS	4F19S20	16	139424	3
CP15027LT	27	SD150	020475	27	SS	4F27S20	12	139424	3
CP15035LT	35	SD150	020475	35	SS	4F35S15	5	139424	3
CP15055LT	55	SD150	020475	55	SS	4F55S15	4	139424	3
CP15085LT	85	SD150	020475	85	SS	CP15085RP	3	139424	3
CP7507N4LT	7	SD75N4	022956	07	SS	4F07S07	14	137458	1.5
CP7510N4LT	10	SD75N4	022956	10	SS	4F10S07	12	137458	1.5
CP7519N4LT	19	SD75N4	022956	19	SS	4F19S10	9	137458	1.5
CP7527N4LT	27	SD75N4	022956	27	SS	4F27S10	7	137458	1.5
CP7535N4LT	35	SD75N4	022956	35	SS	CP7535RP	3	137458	1.5
CP10007N4LT	7	SD100N4	023046	07	SS	4F07S10	18	137462	2
CP10010N4LT	10	SD100N4	023046	10	SS	4F10S10	15	137462	2
CP10019N4LT	19	SD100N4	023046	19	SS	4F19S15	12	137462	2
CP10027N4LT	27	SD100N4	023046	27	SS	4F27S15	10	137462	2
CP10035N4LT	35	SD100N4	023046	35	SS	4F35S10	4	137462	2
CP15007N4LT	7	SD150N4	022957	07	SS	4F07S15	24	139424	3
CP15010N4LT	10	SD150N4	022957	10	SS	4F10S15	20	139424	3
CP15019N4LT	19	SD150N4	022957	19	SS	4F19S20	16	139424	3
CP15027N4LT	27	SD150N4	022957	27	SS	4F27S20	12	139424	3
CP15035N4LT	35	SD150N4	022957	35	SS	4F35S15	5	139424	3
CP15055N4LT	55	SD150N4	022957	55	SS	4F55S15	4	139424	3
CP15085N4LT	85	SD150N4	022957	85	SS	CP15085RP	3	139424	3

NOTES:

- Larger pump ends are used on all 19 GPM & 27 GPM Commander® Pro CP Packages.
- All complete Commander® Pro CP Packages carry a 5 year limited warranty on pump end and motor, and a 3 year limited warranty on Franklin control.

Pressure Tank Charts



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The Commander Pro complete packaged systems need only a small pressure tank to maintain constant pressure. (See table below for recommended tank size.) For pumps rated

12 gpm or more, a slightly larger tank is recommended for optimum pressure regulation. The Commander Pro systems can also use an existing tank with a much larger capacity.

MINIMUM PRESSURE TANK SIZE (TOTAL CAPACITY)

PUMP FLOW RATING	CONTROLLER MODEL	MINIMUM TANK SIZE
Less than 12 gpm	SubDrive 75	2 gallons
	SubDrive 100	4 gallons
	SubDrive 150	4 gallons
	SubDrive 300	8 gallons
12 gpm and higher	SubDrive 75	4 gallons
	SubDrive100	8 gallons
	SubDrive150	8 gallons
	SubDrive300	20 gallons

SubDrive 2W Constant Pressure

Part #023467

For Single-Phase, 2-Wire Applications

Designed to handle single-phase two-wire pumping systems up to 1 HP, the SubDrive2W is a constant pressure system that offers outdoor rated NEMA 3R enclosure protection. Ideal for applications where constant pressure is desirable: residential water systems, landscaping, water treatment and geothermal applications where a two-wire motor is currently installed.

SubDrive2W features:

- Single-phase, 2-wire motor constant pressure system
- 1/2 HP, 3/4 HP or 1 HP performance
- Easy to install NEMA 3R rated enclosure
- Plug & play
- Built-in diagnostic protection
- UL and CUL listed



SubDrive2W	
Input (From Power Source)	
Voltage	230 V (± 10%) 1-Phase
Frequency	60/50
Max Amps (RMS) (For circuit breaker sizing)	< 12 A
Output (To motor)	
Voltage	Variable/1-Phase/FE Motor
Frequency	Variable (30-60 Hz)
Max Amps (RMS)	6.0 A (1/2 HP) 8.0 a (3/4 HP) 9.8 A (1 HP)
For use with:	
Pump Rating	1/2, 3/4 or 1 HP (Selectable)