



COMMANDER® PRO75 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



Made in U.S.A.

1.5 HP Constant Pressure Systems for Home and Irrigation Applications

The F&W Commander® Pro 75 combines reliability and state-of-the-art technology to provide private water system owners with constant pressure and more water on demand. The Commander® Pro 75 provides constant pressure by continually adjusting pump performance to meet water demand. This system also eliminates pressure cycling during long-running applications such as lawn sprinkling and geothermal heat pump operation. For a premium water system that covers a wide range of demand, look to the F&W Commander® Pro 75 complete system.

Applications

Residential Water Systems

- “City-like” water pressure
- Smaller tank saves space

Geothermal Systems

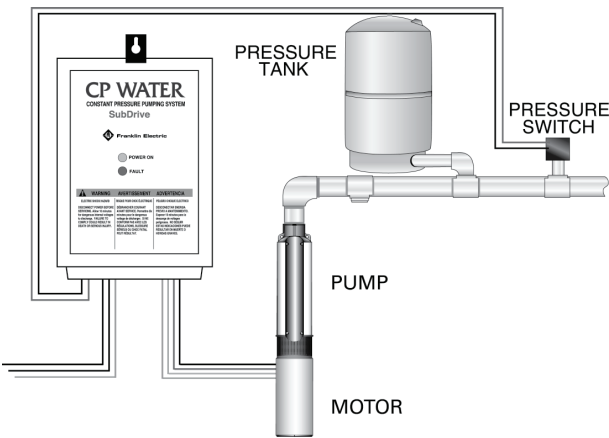
- No need for large buried tanks
- Eliminates pressure cycling

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



Wire Sizing

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

Copper Wire Size (AWG)	14	12	10	8
Maximum Length (Feet)	240	390	610	980
Maximum Length (Meters)	73	119	186	299

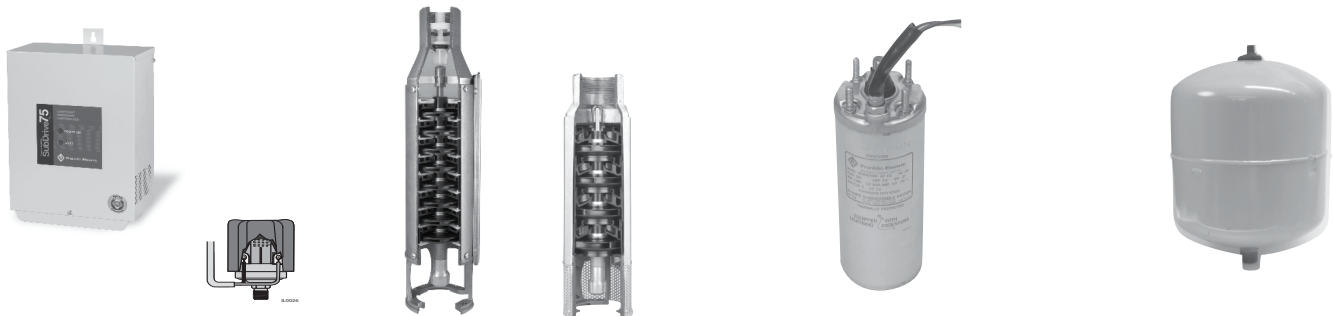
GENERAL SPECIFICATIONS - Commander Pro 75 Series

Input (From Power Source)	Voltage 200-250 V/Single Phase Frequency 60/50 Hertz Amps (RMS) 11 Amps Power 290 Watts @ 30 Hz Power 2400 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 Start High Torque - Soft Start
Pressure Controller Enclosure 25 - 80 PSI (preset at 50 psi) NEMA 1 (indoor)

Built-in protection & diagnostics for:

Surge Protection	Short Circuit
Underload - low water conditions	Overheated Controller w/auto compensation feature
Undervoltage	
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 75 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 75 controller.

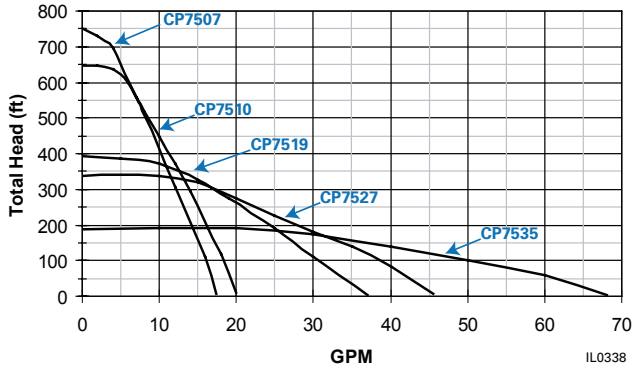
Proven Franklin Super Stainless water-lubricated motor. Performance matched for long life. Specified to avoid overload

Small Air-E-Tainer® 4.8 gallon tank saves space and money. Properly sized and pre-charged to 35 psi for use with this system.

Commander® PRO75



SUBMERSIBLE PUMP COMMANDER® PRO 75



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

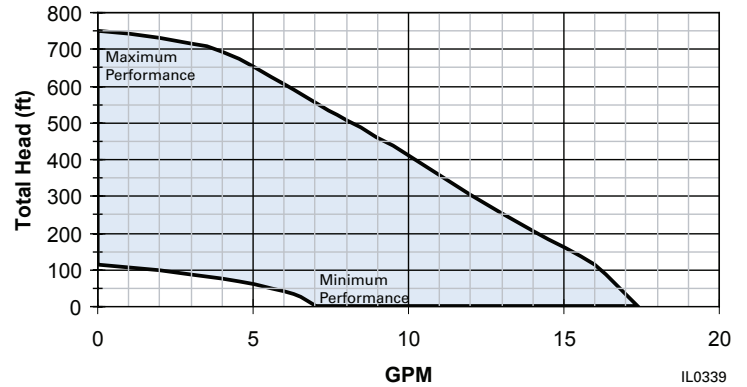
**CP7535 does not include an internal check valve.

For packages less tank, use "LT" suffix after package part number, i.e. CP7510LT.

Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	16.3	16.0	15.6	15.1	14.6	324
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

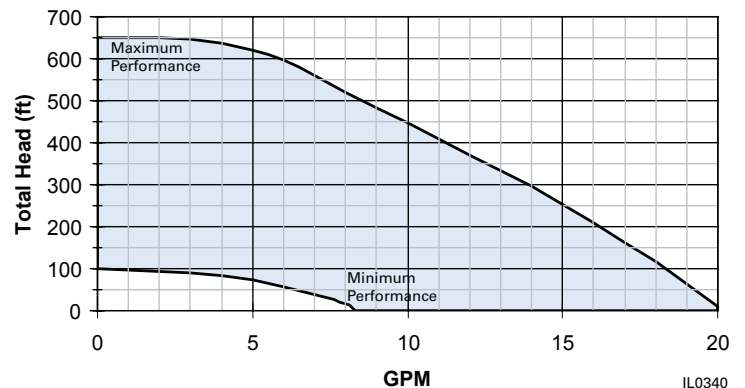
Model #CP7507



Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	18.6	18.1	17.8	17.2	16.8	280
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

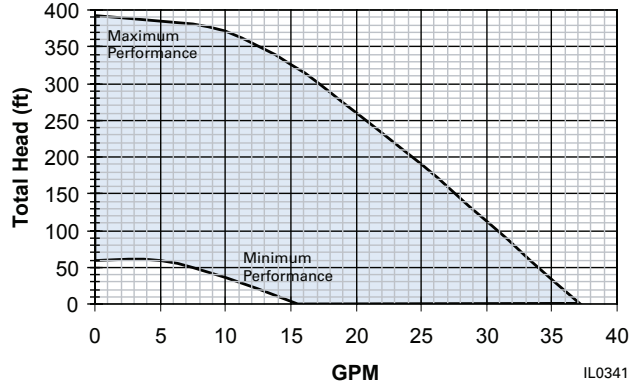
Model #CP7510



Commander® PRO75

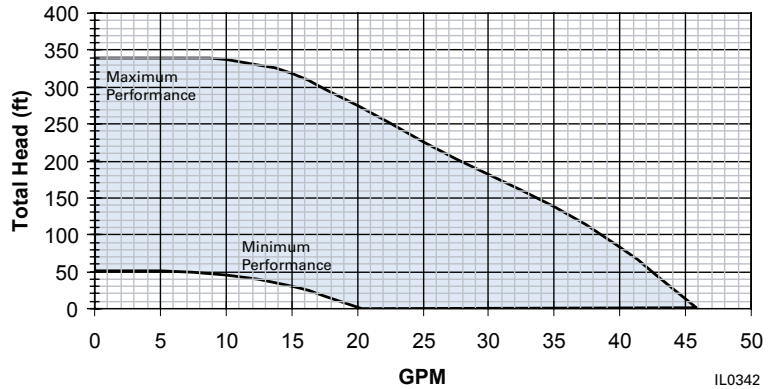
Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	31.8	30.0	28.5	27.2	26.3	169
40	30.2	28.7	27.4	26.0	24.2	
60	29.0	27.5	26.0	24.5	22.7	
80	27.7	26.3	24.6	23.0	21.2	
100	26.5	25.0	23.1	21.5	19.5	
120	25.2	23.0	21.6	20.0	18.0	
140	23.7	22.0	20.0	18.5	16.8	
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					

Model #CP7519



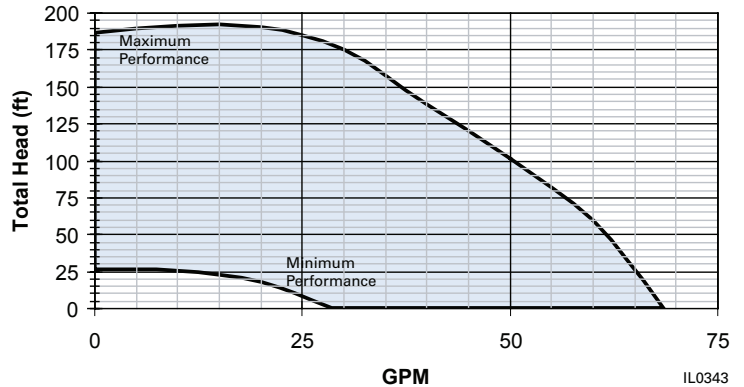
Pumping Depth in Feet	GPM @ Pressure Sensor Setting					Max. Shut-Off (PSI)
	30	40	50*	60	70	
20	39.5	37.5	35.4	33.0	30.0	146
40	37.9	35.6	33.2	30.5	27.4	
60	36.0	33.5	30.9	28.0	25.0	
80	34.0	31.2	28.2	25.3	22.8	
100	31.5	28.6	25.6	23.1	20.6	
120	29.1	25.6	23.5	21.2	18.9	
140	26.4	23.8	21.4	19.2	16.9	
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					

Model #CP7527



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					

Model #CP7535



* Factory preset 50 PSI

**CP7535 does not include an internal check valve.