

# Constant Pressure In Just The Right Size



**Constant Pressure**



**Franklin Electric**

# SubDrive/MonoDrive

## What is SubDrive?

SubDrive is Franklin Electric's family of constant pressure controllers which includes MonoDrive, SubDrive 75, SubDrive 150, and SubDrive 300, covering a range from ½ to 5 Hp. SubDrive controllers provide constant pressure by continually monitoring and adjusting the pump speed to meet water supply demands. SubDrives also eliminate pressure cycling during long-running applications such as landscape irrigation and geothermal heat pump operation. All in all, SubDrives combine reliability and state-of-the-art technology to provide well owners with a premium water system.

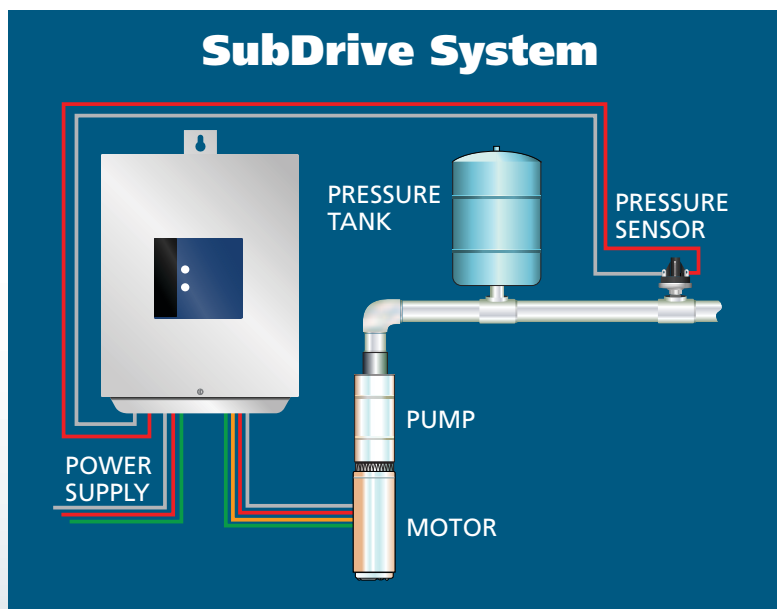


## What is MonoDrive?

MonoDrive is the biggest technological advance in the constant pressure arena. MonoDrive is designed to provide constant pressure for single-phase, three-wire systems—even those already in place. That means you can have constant pressure just by replacing a three-wire control box!

## FEATURES AND BENEFITS

- Constant water pressure with a wide range of settings (25 to 80 psi)
- Soft start feature prevents water hammer and increases motor life
- Works with small pressure tanks or with larger tanks already in place
- UL recognized for US and Canada
- Smart Reset<sup>®</sup> technology allows well recovery before restarting the pump
- Single-phase input power with three-phase motor performance (SD75, SD150, SD300)
- Excellent radio frequency interference shielding
- Easy to Install



# SubDrive/MonoDrive

## Built-in Diagnostics and Protection

All of the SubDrive family products include diagnostic features and built-in protection for conditions that would be harmful to the system. These conditions include:

- Surge protection
- Underload
- Undervoltage
- Locked pump
- Open circuit
- Short circuit
- Overheated controller



## Applications

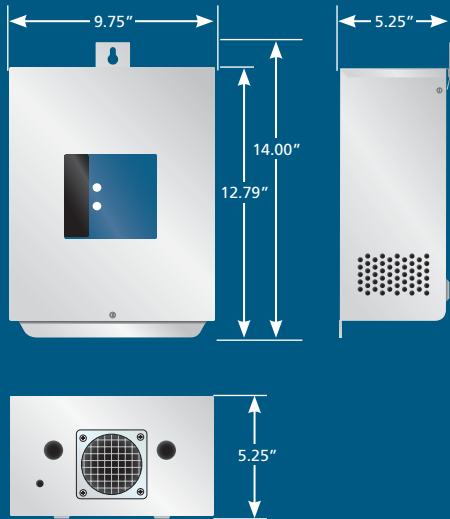
- Residential Water Systems
  - City-like water pressure
  - Smaller tank saves space in garages, basements
- Landscape Irrigation Systems
  - Even distribution of water in zones
  - Eliminates need for separate system
- Water Treatment Systems
  - More efficient back-flushing
  - Eliminates need for multiple pumps
- Geothermal Systems

## Specifications

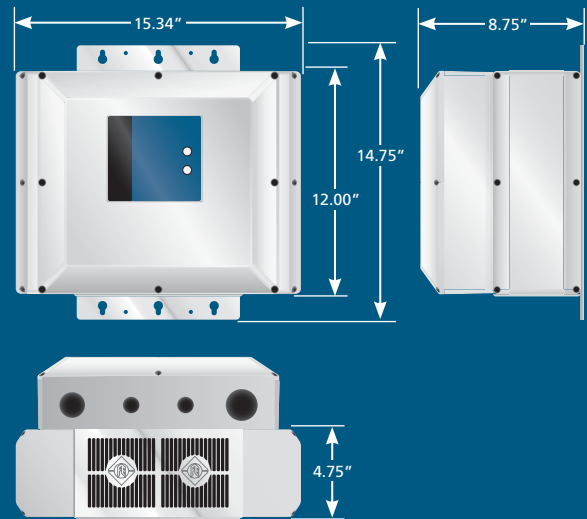
	MonoDrive	SubDrive 75	SubDrive 150	SubDrive 300
<b>Model Number</b>	587 020 3110	587 020 3380	587 020 4150	587 020 6300
<b>Input (From Power Source)</b>				
Voltage	190-260 V Single-phase	190-260 V Single-phase	190-260 V Single-phase	190-260 V Single-phase
Frequency	60/50 Hz	60/50 Hz	60/50 Hz	60/50 Hz
Max Amps (RMS)	5.7 A (½ Hp), 8.7 A (¾ Hp), 11 A (1 Hp)	11 A	23 A	36 A
Power Factor	1 (Constant)	1 (Constant)	1 (Constant)	1 (Constant)
<b>Output (To Motor)</b>				
Voltage	Variable / 1-Phase	Variable / 3-Phase	Variable / 3-Phase	Variable / 3-Phase
Frequency	Variable (30 - 60 Hz)	Variable (30 - 80 Hz)	Variable (30 - 80 Hz)	Variable (30 - 80 Hz)
Max Amps (RMS)	4.0 A (½ Hp), 6.6 A (¾ Hp), 9.0 A (1 Hp)	5.9 A	10.9 A	17.8 A
<b>For Use With:</b>				
Pump Rating	½, ¾ or 1 Hp (Selectable)	¾, 1 or 1.5 Hp (Selectable)	1.5, 2 or 3 Hp (Selectable)	3 or 5 Hp (Selectable)
Motor Rating	½, ¾ or 1 Hp (Single-phase)	1.5 Hp, 230 VAC (Three-phase)	3 Hp, 230 VAC (Three-phase)	5 Hp, 230 VAC (Three-phase)
Enclosure	NEMA 1 (Indoor)	NEMA 1 (Indoor)	NEMA 1 (Indoor)	NEMA 4 (Outdoor)
Pressure Sensor (included)	External	External	External	External
Controller Weight	13.8 Lbs / 6.25 Kg	13.8 Lbs / 6.25 Kg	17 Lbs / 7.75 Kg	34 Lbs / 15.5 Kg
Carton Size	16.5" x 12" x 9"	16.5" x 12" x 9"	16.5" x 12" x 9"	17.25" x 20" x 13.5"
Shipping Weight	17 Lbs / 7.7 Kg	17 Lbs / 7.7 Kg	20.25 Lbs / 9.2 Kg	38 Lbs / 17.3 Kg

# SubDrive/MonoDrive

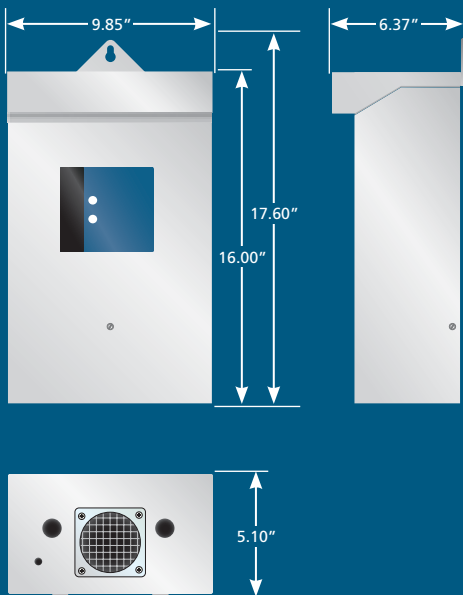
## Dimensions: MonoDrive, SD75 & SD150



## Dimensions: SD300



## Dimensions: MonoDrive & SD75 (NEMA 3R)



## Special Construction Options

MonoDrive and SubDrive 75 controllers are also available in NEMA 3R enclosures for outdoor use.

### Product

MonoDrive NEMA 3R  
SubDrive 75 NEMA 3R

### Model Number

587 020 3113  
587 020 3383



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