

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.

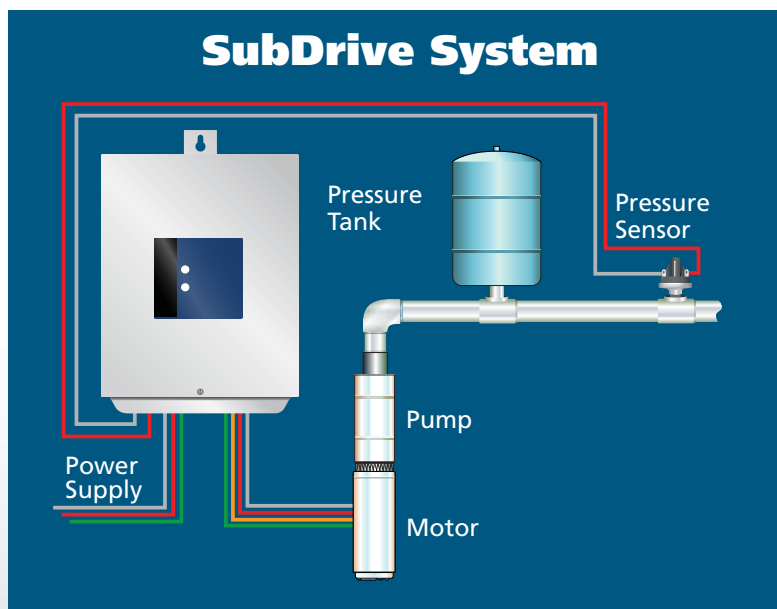


What is MonoDrive?

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 and CUL listed
- Smart Reset[®] 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

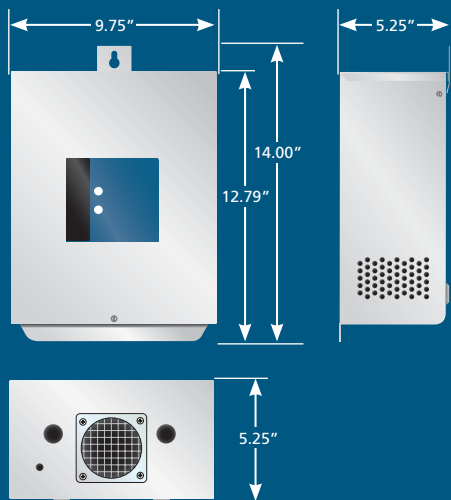
Specifications

| | MonoDrive | MonoDrive XT | SubDrive 75 | SubDrive 150 | SubDrive 300 |
|----------------------------------|---|-------------------------------|---|--------------------------------|--------------------------------|
| Model Number / Enclosure | 587 020 3110 / N1* 587 020 3113 / N3R* | 587 020 4110 / N1* | 587 020 3380 / N1* 587 020 3383 / N3R* | 587 020 4150 / N1* | 587 020 6300 / N4* |
| Input (From Power Source) | | | | | |
| Voltage | 190-260 V Single-phase | 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 | 60/50 Hz |
| Max Amps (RMS) | 5.7 A (½ Hp), 8.7 A (¾ Hp), 11 A (1 Hp) | 13 A (1.5 Hp), 16 A (2 Hp) | 11 A | 23 A | 36 A |
| Power Factor | 1 (Constant) | 1 (Constant) | 1 (Constant) | 1 (Constant) | 1 (Constant) |
| Output (To Motor) | | | | | |
| Voltage | Variable / 1-Phase | Variable / 1-Phase | Variable / 3-Phase | Variable / 3-Phase | Variable / 3-Phase |
| Frequency | Variable (30 - 60 Hz) | 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) | 10 A (1½ Hp), 12 A (2 Hp) | 5.9 A | 10.9 A | 17.8 A |
| For Use With: | | | | | |
| Pump Rating | ½, ¾ or 1 Hp (Selectable) | 1.5 or 2 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 or 2 Hp (Single-phase) | 1.5 Hp, 230 VAC (Three-phase) | 3 Hp, 230 VAC (Three-phase) | 5 Hp, 230 VAC (Three-phase) |
| Pressure Sensor (included) | External | External | External | External | External |
| Controller Weight | 13.8 Lbs / 6.25 Kg | 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" | 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 |

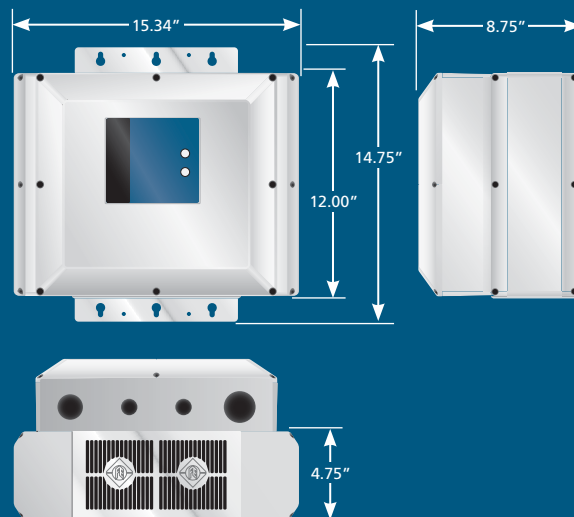
*N1=NEMA 1 (Indoors), N3R=NEMA 3R (Outdoors), N4=NEMA 4 (Outdoors)

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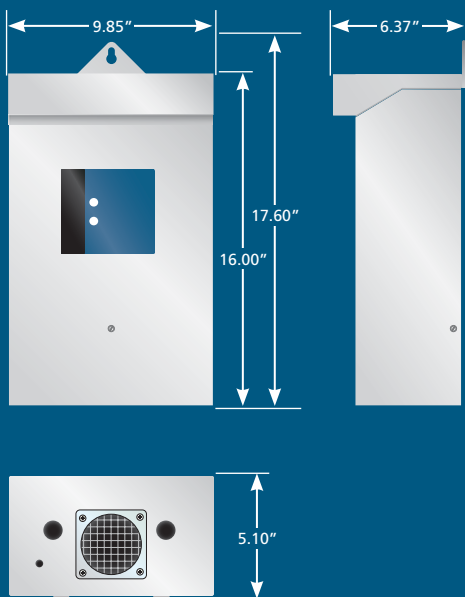
Dimensions: MonoDrive, MonoDriveXT, SD75 & SD150 (NEMA 1)



Dimensions: SD300 (NEMA 4)



Dimensions: MonoDrive & SD75 (NEMA 3R)



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