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Applications

Franklin Electric's constant pressure controllers use state-of-the-art technology to provide constant water pressure through variable speed control of submersible water well pumps.

MonoDrive allows the conversion of a single-phase conventional pump system to a constant pressure system with the simple replacement of a 3-wire control box. It serves applications with performance requirements in the 1/2, 3/4, and 1 Hp range.

SubDrive75 is designed for use with a 3/4 Hp pump mounted to a 1 1/2 Hp Franklin Electric 3-phase motor. It provides 1 1/2 Hp performance from a 3/4 Hp pump, and is ideal for applications such as large homes, ground source heat pumps, and sprinkler systems.

SubDrive150 is designed for use in residential or light commercial applications with a 1 1/2 Hp pump mounted to a 3 Hp Franklin Electric 3-phase motor. It provides 3 Hp performance from a 1 1/2 Hp pump, and is ideal for applications such as large homes, ground source heat pumps, and sprinkler systems.

Features—All Controllers

- Provides Constant Water Pressure at a Wide Range of Settings (25 To 80 psi)
- Works With a Standard Pump and Motor
- Use Any Brand Pump

- NEMA 1 Enclosure (Indoor)
- Works With Small Pressure Tanks (2 Gal. Minimum Volume) or Larger Tanks Already in Place
- Water Faucets can be Installed Between Wellhead and Controller
- Excellent Radio Frequency Interference Shielding
- Installation as Simple as a Control Box
- Soft Start Means Less Motor Stress and Longer Motor Life
- UL Recognized For USA and Canada
- Built-in Diagnostics and Protection
 - Surge Protection
 - Underload
 - Undervoltage
 - Locked Pump
 - Open Circuit
 - Short Circuit
 - Overheated Controller
- Smart Reset Technology Allows Well Recovery Before Restarting the Pump

Constant Pressure Controls Specifications

Product	Retrofit Existing?	Use With		Input			Output		
		Motor Rating	Pump Rating	Input Voltage	Hz	Amps	Voltage(to motor)	Hz	Amps
MonoDrive	Yes	1/2, 3/4, 1, 1Ø, 3W	1/2, 3/4, 1 Hp	190-260 V, 1Ø	60/50	5.7A - 11A*	Variable, 1Ø	Variable (30-60 Hz)	4.0 - 9.0A*
SubDrive75	No	1.5 Hp, 230 VAC, 3Ø	3/4 Hp	190-260 V, 1Ø	60/50	12 A	Variable, 3Ø	Variable (30-80 Hz)	5.9 A
SubDrive150	No	3 Hp, 230VAC, 3Ø	1.5 Hp	190-260 V, 1Ø	60/50	23 A	Variable, 3Ø	Variable (30-80 Hz)	10.9 A

* MonoDrive input and output amps vary by pump/motor rating

Features—MonoDrive

- Selectable Hp rating (1/2, 3/4, and 1 Hp)
- Easy installation – remove the 3-wire control box and install the MonoDrive
- Can retrofit existing systems – no need to pull the pump



Features—SubDrive75 & SubDrive150

- Works with a standard 3-phase Franklin Electric submersible motor
- Three-phase performance with single-phase input
 - High starting torque
 - More efficient
 - Smooth running



Special Options

- NEMA 3R enclosure
Available for MonoDrive and SubDrive75; allows outdoor installation.



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