

# Franklin's Constant Pressure SubDrives...

## Making Well Water Even Better.



**Franklin Electric**

## What is a SubDrive?

Franklin Electric's constant pressure SubDrive 75 and 150 combine reliability and state-of-the-art technology to provide water well owners with a premium water system. Franklin's SubDrive 75 and 150 provide constant water pressure by continually monitoring and adjusting the pump speed to meet water supply demands. A SubDrive also eliminates pressure cycling during long-running applications such as lawn sprinkling and geothermal heat pump operation. For a premium water system that meets your water supply demands, look to Franklin's SubDrive 75 or its big brother, the SubDrive 150.



The SubDrive 75 provides 1 1/2 Hp performance from a 3/4 Hp pump.

### Key Features and Benefits:

- Works with a standard 3/4 Hp pump and 1 1/2 Hp 3-phase Franklin Electric submersible motor.
- Smaller pressure tank saves space.
  - Minimum tank volume: 2 gallons



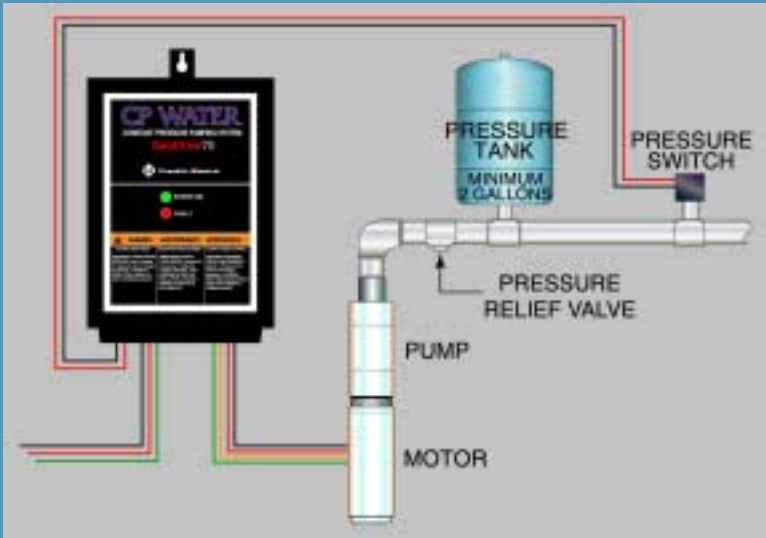
The SubDrive 150 provides 3 Hp performance from a 1 1/2 Hp pump.

### Key Features and Benefits:

- Works with a standard 1 1/2 Hp pump and 3 Hp 3-phase Franklin Electric submersible motor.
- Smaller pressure tank saves space.
  - Minimum tank volume: 4 gallons

## Franklin's SubDrive 75 And SubDrive 150 Come Loaded With Many Extras

- Easy to install.
- Excellent radio frequency interference shielding.
- 3-phase performance with 1-phase input
  - High starting torque
  - Smooth running
  - More efficient
- Soft start feature prevents water hammer and increases motor life.
- Built-in diagnostics and protection for:
  - Surge protection
  - Underload
  - Undervoltage
  - Locked pump
  - Open circuit
  - Short circuit
  - Overheated controller
- Smart Reset® technology allows well recovery before restarting the system.
- UL recognized for U.S.A. and Canada.



### SubDrive 75 Specifications:

**Model Number** ..... 587 020 3380

#### Input (From Power Source)

Voltage ..... 200 - 250 V/Single Phase  
 Frequency ..... 60/50 Hz  
 Amps ..... 11 A  
 Power Factor ..... 1 (constant)

#### Output (To Motor)

Voltage ..... Variable V/Three Phase  
 Frequency ..... Variable (30-80 Hz)  
 Amps ..... 5.9 A

**Enclosure** ..... NEMA 1 (indoor)

**Pressure Sensor (included)** ..... External

**Controller Weight** ..... 13.8 lbs./6.25 Kg

**Carton Size** ..... 16.5" x 12" x 9"

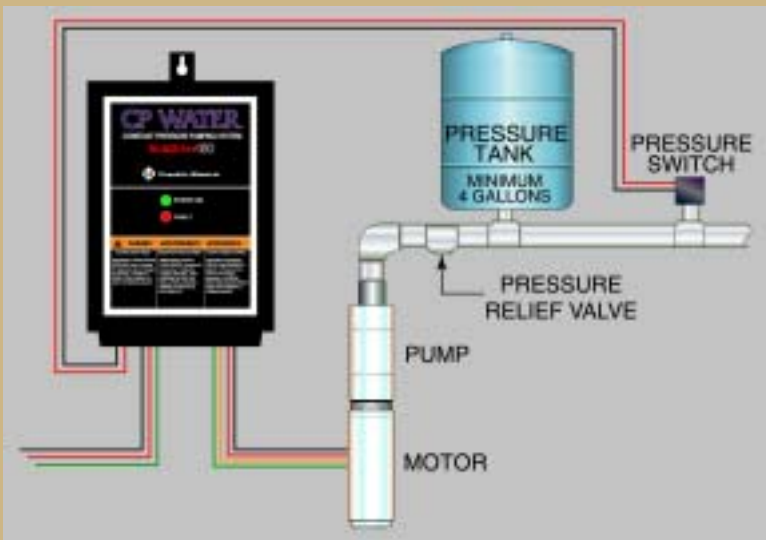
**Shipping Weight** ..... 17 lbs./7.7 Kg

#### For use with

Pump Rating ..... 3/4 Hp

Motor Rating ..... 1 1/2 Hp, 230 VAC, 3-Phase

**Pump Performance** ..... 1 1/2 Hp Pump Curve



### SubDrive 150 Specifications:

**Model Number** ..... 587 020 4150

#### Input (From Power Source)

Voltage ..... 190 - 260 V/Single Phase  
 Frequency ..... 60/50 Hz  
 Amps ..... 23 A  
 Power Factor ..... 1 (constant)

#### Output (To Motor)

Voltage ..... Variable V/Three Phase  
 Frequency ..... Variable (30-80 Hz)  
 Amps ..... 10.9 A

**Enclosure** ..... NEMA 1 (indoor)

**Pressure Sensor (included)** ..... External

**Controller Weight** ..... 17 lbs./7.75 Kg

**Carton Size** ..... 16.5" x 12" x 9"

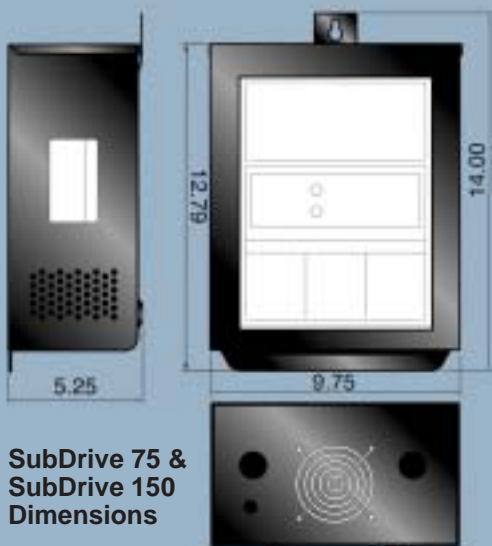
**Shipping Weight** ..... 20.25 lbs./9.2 Kg

#### For use with

Pump Rating ..... 1 1/2 Hp

Motor Rating ..... 3 Hp, 230VAC, 3-Phase

**Pump Performance** ..... 3 Hp Pump Curve



**SubDrive 75 & SubDrive 150 Dimensions**

### APPLICATIONS:

#### ■ Residential Water Systems

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

#### ■ Geothermal Systems

- Eliminates 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
- Eliminates need for multiple pumps

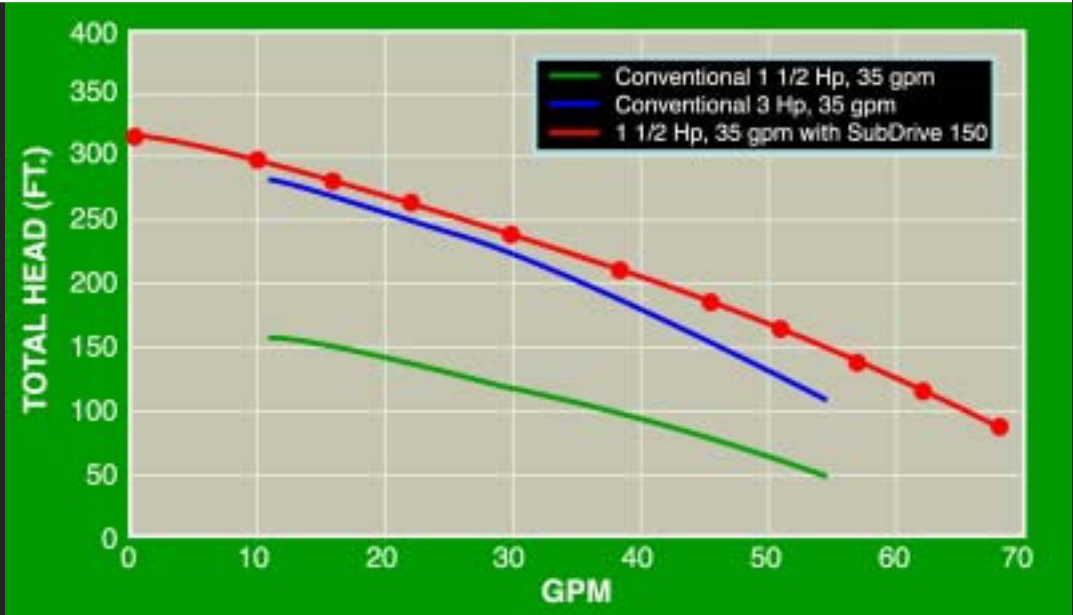
## SubDrive 75 Performance Example

(20 Gallon Per minute  
Pump Series)



## SubDrive 150 Performance Example

(35 Gallon Per minute  
Pump Series)



**Franklin Electric**

400 East Spring Street  
Bluffton, Indiana 46714  
Tel: 260.824.2900 • Fax: 260.824.2909

[www.franklin-electric.com](http://www.franklin-electric.com)