

H2O DRIVE® CONSTANT PRESSURE CONTROL

Three Phase, 240 V - Variable Frequency Drive Well Pump Control Panel



The H2O Drive® control panel is designed to control a three phase submersible well pump in constant pressure control applications.

As flow conditions change in the pumping system, the VFD is able to automatically control the pump speed and maintain a constant pressure. The desired set pressure is entered on the color LCD display. The pressure transducer measures the pump system pressure.

FEATURES

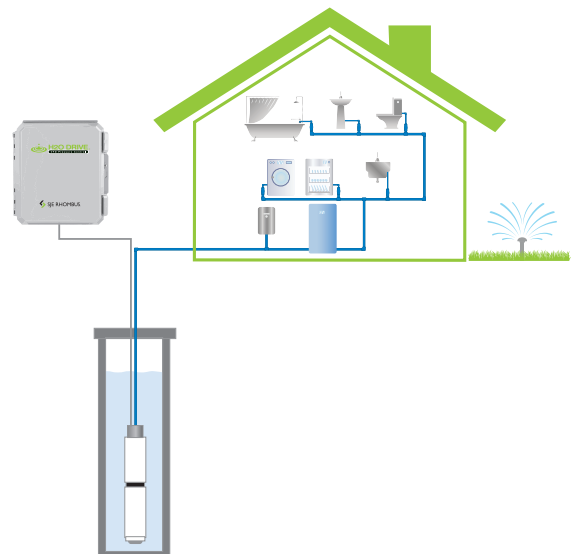
- 2 step quick start wizard for easy setup
 1. Enter set pressure
 2. Enter well pump amps (SFA)
- Graphic color display (LCD):
 - High Brightness / Direct sunlight readable
 - Removable/handheld for easy programming
 - Discharge Pressure (PSI)
 - Pump run indication
 - Pump speed (Hz)
 - Pump Amps (A)
 - Message bar (Status & Alarm)
 - Alarm history
 - Password protection
 - Rotary button for easy menu navigation
- Pump dry run alarm
- Well recharge timer function
- High and Low Pressure Alarm
- Pump motor overload protection
- Monitors transducer faults
- Includes 0-150 PSI pressure transducer with cable
- 2 digital inputs for optional level or floor sensor
- 60Hz max. motor speed (default)
- Up to 80Hz max. possible in select systems



COMPONENTS

1. Enclosure: NEMA 3R ultraviolet stabilized thermoplastic rated for outdoor use with mounting flanges, padlockable cover
2. Variable Frequency Drive
3. LCD controller display
4. Vents for VFD cooling (not shown)

Note: See specifications on back side for sizing.



H2O DRIVE® CONSTANT PRESSURE CONTROLS - Three phase, 240V - Variable Frequency Drive well pump control panel.

Part #	Model	HP	Max Amps	Load Reactor	Input	Pump Rating	Enclosure Size	Shipping Weight
1104992	RD502	5	19.6A	No	240V, 3 Phase	208/230V, 3 Phase	14 x 12 x 6	16.8 lbs.
1104991	RD752	7.5	30A	No	240V, 3 Phase	208/230V, 3 Phase	18 x 16 x 10	28.7 lbs.
1104989	RD1002	10	40A	No	240V, 3 Phase	208/230V, 3 Phase	18 x 16 x 10	36.8 lbs.
1104988	RD1502	15	56A	No	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	67.9 lbs.
1104986	RD2002	20	69A	No	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	68.4 lbs.
1104984	RD2502	25	88A	No	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	80.3 lbs.
1104982	RD3002	30	115A	No	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	80.3 lbs.
1106583	RD502LR	5	19.6A	Yes	240V, 3 Phase	208/230V, 3 Phase	18 x 16 x 10	42.5 lbs.
1106582	RD752LR	7.5	30A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	77.3 lbs.
1106580	RD1002LR	10	40A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	87.3 lbs.
1106579	RD1502LR	15	56A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	91.9 lbs.
1106577	RD2002LR	20	69A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	93.4 lbs.
1106575	RD2502LR	25	88A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	105.3 lbs.
1106573	RD3002LR	30	115A	Yes	240V, 3 Phase	208/230V, 3 Phase	28 x 20 x 12	109.3 lbs.

SELECTING THE CORRECT VFD

1. Determine the voltage available on site.
2. Select a well pump with the same voltage (motor must be three phase).
3. Check well pump motor nameplate Service Factor Amps (SFA) for proper VFD sizing.
4. Select a VFD with an output amp rating higher than motor SFA.
5. Use Full Load Amps (FLA) for booster pump application.

SPECIFICATIONS

CONTROL: Pump run indication
Pump speed (Hz) and Amps (A) indication
Pump motor overload protection
High and low pressure alarms
Pump dry run alarm

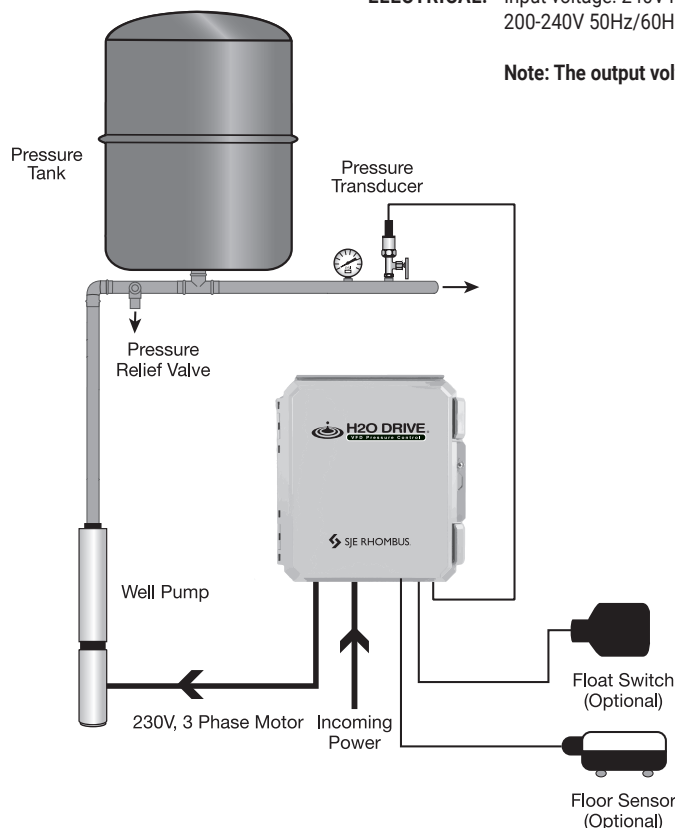
ENCLOSURE: NEMA 3R ultraviolet stabilized thermoplastic rated for outdoor use with mounting flanges, padlockable cover

PRESSURE TRANSDUCER: 0-150 PSI (included) 1/4" NPT Male, NSF 61 rated, 4-20mA, with 15 ft cable. Two-year limited warranty on pressure transducer.

ENVIRONMENTAL: Surrounding air temperature: 14°F to 104°F (-10°C to 40°C)
Panel internal temperature: 14°F to 122°F (-10°C to 50°C)
Storage temperature: -4°F to 131°F (-20°C to 55°C)
Altitude: Maximum of 3,280 ft (1,000 m) above sea level

ELECTRICAL: Input voltage: 240V nominal
200-240V 50Hz/60Hz, three phase

Note: The output voltage cannot exceed the input voltage.



Note: For use in clean water pressure control applications. Not for use with sewage pumps.

California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov