

H2O DRIVE® CONSTANT PRESSURE CONTROL

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



Variable Speed

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.

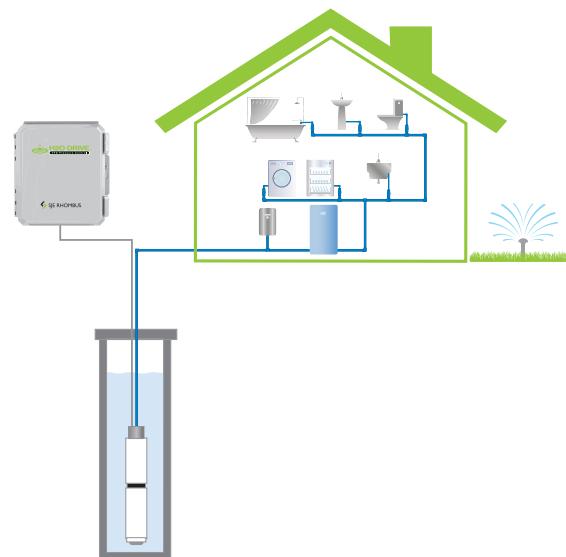
FEATURES

- 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
Note: See specifications on back side for sizing.
2. Vents for VFD cooling (not shown)
3. Variable Frequency Drive
4. LCD controller display



 **SJE RHOMBUS®**

| Part # | Model | HP | Max Amps | Sine Filter | Input | Pump Rating | Enclosure Size | Shipping Weight |
|---------|--------------------|-----------|----------|-------------|---------------|-------------------|----------------|-----------------|
| 1076917 | RD150 ¹ | 0.5 - 1.5 | 7.5A | No | 240V, 1 Phase | 208/230V, 3 Phase | 14 x 12 x 6 | 17 lbs. |
| 1076918 | RD300 ¹ | 2.0 - 3.0 | 11.6A | No | 240V, 1 Phase | 208/230V, 3 Phase | 14 x 12 x 6 | 18 lbs. |
| 1076919 | RD500 | 5.0 | 17.8A | No | 240V, 1 Phase | 208/230V, 3 Phase | 18 x 16 x 10 | 33 lbs. |
| 1107747 | RD750 | 7.5 | 28.0A | No | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 41 lbs. |
| 1107690 | RD1000 | 10 | 35.0A | No | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 44 lbs. |
| 1107691 | RD1500 | 15 | 55.0A | No | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 46 lbs. |
| 1123857 | RD2000 | 20 | 125A | No | 240V, 1 Phase | 208/230V, 3 Phase | 30 x 24 x 12 | 150 lbs. |
| 1123708 | RD3000 | 30 | 154A | No | 240V, 1 Phase | 208/230V, 3 Phase | 36 x 30 x 12 | 212 lbs. |
| 1107750 | RD150SF | 0.5 - 1.5 | 7.5A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 14 x 12 x 6 | 19 lbs. |
| 1107751 | RD300SF | 2.0 - 3.0 | 11.6A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 14 x 12 x 6 | 20 lbs. |
| 1107752 | RD500SF | 5.0 | 17.8A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 18 x 16 x 10 | 35 lbs. |
| 1107748 | RD750SF | 7.5 | 28.0A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 44 lbs. |
| 1107692 | RD1000SF | 10 | 35.0A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 47 lbs. |
| 1107693 | RD1500SF | 15 | 55.0A | Yes | 240V, 1 Phase | 208/230V, 3 Phase | 28 x 20 x 12 | 50 lbs. |

¹UL Listed 

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:

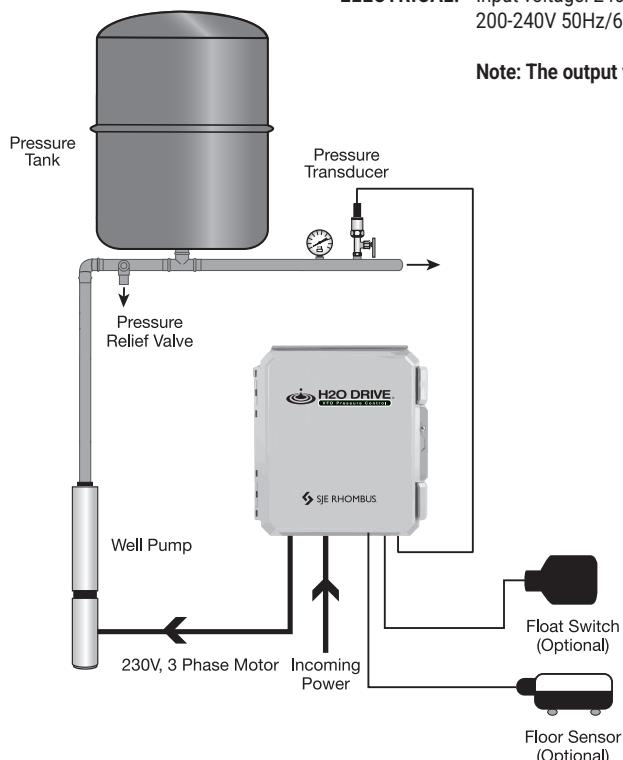
NEMA 3R ultraviolet stabilized thermoplastic rated for outdoor use with mounting flanges, padlockable cover

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, single 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