

# VARIABLE FREQUENCY DRIVE (VFD) CONTROL PANEL

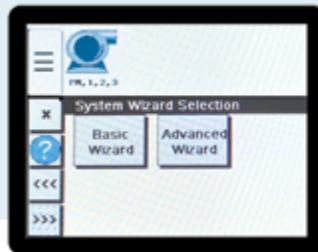
## THE POWER OF VFDS

The power savings of a VFD panel is just the start. Our VFD control panel takes the tech out of tech start and the field out of field supervision with a new level of quick start, control and cloud-based monitoring.



## QUICK STARTUP & SIMPLE TOUCHSCREEN OPERATION

- ① Easy-to-read system status on one screen
- ② Quick wizard guides basic configurations
- ③ Built-in user help
- ④ Login prevents unauthorized access



## HIGH RELIABILITY IN HARSH ENVIRONMENTS

- ◆ Outdoor UL TYPE 3R ratings
- ◆ Lightning arrestor provides equipment surge protection
- ◆ Efficient forced air fan/filter

## CONVENIENT DESIGN

- ◆ User-friendly controls with color touchscreen
- ◆ Circuit breaker service entrance rated disconnect

## COST SAVINGS

- ◆ Up to 25% energy savings—only uses the power you need
- ◆ Longer life expectancy of equipment—smoother pump operation reduces strain on your entire irrigation operation
- ◆ Reduced pump maintenance costs—less downtime during peak seasons

## SPECIFICATIONS

- ◆ 480 V, 3 phase, 60 Hz - 30 to 250 HP; single pump only
- ◆ Rated for ambient temperatures -6°C to 45°C (20°F to 113°F)  
*VFD sizing is based on ambient temperature of 45°C and 3300 feet elevations. For higher elevations, consult factory for appropriate derates that may be necessary*
- ◆ For other HP and option requirements—contact Factory for custom panel quotes

## ADDITIONAL BENEFITS

- ◆ 2 year warranty
- ◆ UL 508A listed industrial control panel
- ◆ Built to FCC Part 15 standards

## STANDARD FEATURES

- ◆ Programmable Logic Controller (PLC) and door mounted color touch screen
- ◆ Circuit breaker service entrance rated disconnect
- ◆ Fan/Filter panel cooling
- ◆ Log-in prevents unauthorized access
- ◆ N3R enclosures
- ◆ Control up to 3 lag pumps in standard software—advanced features including time delay, pressure drop and restart
- ◆ Lightning surge arrestor
- ◆ 8" or 12" painted steel legs provided
- ◆ Screen based speed potentiometer
- ◆ 2 isolated analog inputs for PID pressure regulation, level sensing, output pressure, input pressure and flow
- ◆ 100ka SCCR panel rating
- ◆ Remote start relay (24V AC/DC)
- ◆ 1 digital input flow
- ◆ Terminal blocks & wiring for utility shut down
- ◆ Temperature sensor—monitors interior panel temperature
- ◆ Thermostat control of fans (cooling fans operate when VFD isn't running)
- ◆ Level sensing or suction pressure control via PLC touchscreen
- ◆ Pressure transducer kit included for pressure regulation
- ◆ Pump retirement—shut down on frequency, flow or amps/power
- ◆ Easy and quick servicing of intake and discharge air filters
- ◆ Output protection DV/DT filter for submersible motors

## AVAILABLE OPTIONS\*

- ◆ Cloud-based telemetry
- ◆ Motor winding heater circuitry
- ◆ Integrated harmonic filters with contactors
- ◆ RayCap StrikeSorb® surge arrestor kit
- ◆ Submersible motor panels with harmonic filter



View network of pumps including status icons



Water source settings



Dashboard shows key information in one spot



**WATERVISION® 2.0**

Staying connected and in control of your Watertronics pump system just got better with WaterVision 2.0. This next generation of advanced cloud telemetry now gives users equal control on any mobile or desktop device.



For more information visit [watertronics.com](http://watertronics.com) or call 1-800-356-6686.

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