

**PUMP CONTROL | VARIABLE FREQUENCY DRIVE**



25% ENERGY SAVINGS  
LONGER EQUIPMENT LIFE  
REDUCED MAINTENANCE COSTS



## THE POWER OF VARIABLE FREQUENCY DRIVES (VFD)

In recent years, growers have started utilizing VFDs to more efficiently regulate water pressure for their irrigation equipment. This technology automatically adjusts pump speed to match your system demand, saving energy and water. Combined with programmable logic controllers (PLC), VFDs offer a precise and intelligent irrigation management solution. The result? Lower overall operation costs.

VFDs are particularly valuable for corners, multiple pivots with a common pump header, pivots on inclines/hills, drop spans, Precision VRI, turning valves on/off, and drip irrigation zones with varying flow and pressure.



## HOW VFD DELIVERS COST SAVINGS

### 25% ENERGY SAVINGS

- Optimizes power usage
- One drive controls multiple motors to increase efficiency
- Avoids peak demand charges
- Local utility rebates may apply

### LONGER LIFE EXPECTANCY OF EQUIPMENT

- Eliminates water hammer and surges by regulating pressure at varying flows
- Reduces strain on your entire irrigation operation due to smoother pump operation

### REDUCED PUMP MAINTENANCE COSTS

- Reduces pump station downtime during peak seasons

## EXCLUSIVE BENEFITS OF ZIMMATIC VFD CONTROL PANELS

Zimmatic® by Lindsay VFD panels powered by Watertronics® technology are engineered for long-lasting reliability and ease of use. Watertronics, a Lindsay company, is a market leader in pump and control innovation to bring the highest level of quality to your operation. Combined with our proven FieldNET® by Lindsay technology, managing irrigation is less complicated and more convenient.

### RELIABLE PERFORMANCE

- Proven history of best-in-class longevity and less downtime than any other manufacturer
- Built to the highest standards of excellence: UL508A Listed Control Panel and FCC Part 15 Compliant

### EASY SET-UP

- User-friendly 3.5" touchscreen guides users through startup menu allowing for quick setup and easy-to-understand system monitoring
- For sites with limited power options, VFDs offer single phase conversion to three phase

### REMOTE CONTROL & DIAGNOSTICS

- Fully integrated with FieldNET remote irrigation management for continuous monitoring and control, improving efficiency and reliability for higher yields and lower operating costs
  - Maximizes convenience and security
  - Saves time, labor and resources
  - Alarm notifications
  - Optimizes wire-to-water efficiency by monitoring power consumption and water usage for lower electrical usage and water consumption
  - Features Dynamic Demand Control (DDC) to enhance energy savings using dynamic pressure set points

### PUMP SERVICE NETWORK (PSN)

- 24/7 nationwide support for warranties, scheduled maintenance, service and parts



PLC controls offer intuitive touchscreen navigation



FieldNET is an integrated, user-friendly option to remotely monitor VFD



### USER-FRIENDLY PLC CONTROLS

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

### HIGH RELIABILITY IN HARSH ENVIRONMENTS

- Outdoor UL TYPE 3R ratings
- Rated for high temperatures, ambient 20°-122°F
- Lightning arrestor provides equipment surge protection
- Efficient forced air fan/filter
- Rust-free aluminum or stainless steel enclosure available

### CONVENIENT DESIGN

- PLC user controller with 3.5" touchscreen
- Service entrance rated disconnect (circuit breaker) does not require additional service disconnect
- Wall mount or foot mount for installation flexibility
- Serviceable fused disconnect available
- Custom engineered solutions



### COMPLETE SAFETY AND ENVIRONMENTAL COMPLIANCE

- Entire assembly UL508A Listed control panel
- FCC Part 15 Class A Device compliant for EM/RF noise reduction
- Integral harmonic filter

## READY TO LEARN MORE?

Visit your local Zimmatic dealer to find out how you can improve efficiency with a Zimmatic VFD panel powered by Watertronics technology. **Go to [Zimmatic.com/vfd](http://Zimmatic.com/vfd) for more information.**



## THE LINDSAY ADVANTAGE

DURABLE • RUGGED • EASY TO USE • INTEGRATED TECHNOLOGIES •  
BROADEST LINE OF SOLUTIONS



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