

## In This Issue: Variable Frequency Drives Trade Show & Conference Schedule

**Variable Frequency Drives (VFDs)** are electronic controllers that enhance the efficiency and longevity of pump motor systems by providing motor speed control through frequency adjustment.

They serve as a solution to the high energy consumption and mechanical stress that single-speed, full-voltage motors experience during startup.

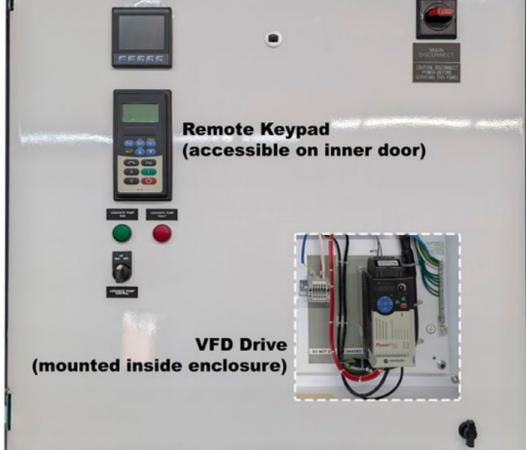
EPG has a lot of experience designing controllers with integrated VFDs, typically to operate pumps with 3 HP and higher motors. Read on to learn more.



### How VFDs Improve Pump System Performance

A **VFD** mitigates the issues associated with traditional single-speed pump motors by offering a "soft start," which gradually increases the motor's speed. This process reduces the high torque and pressure surges that cause significant wear and tear.

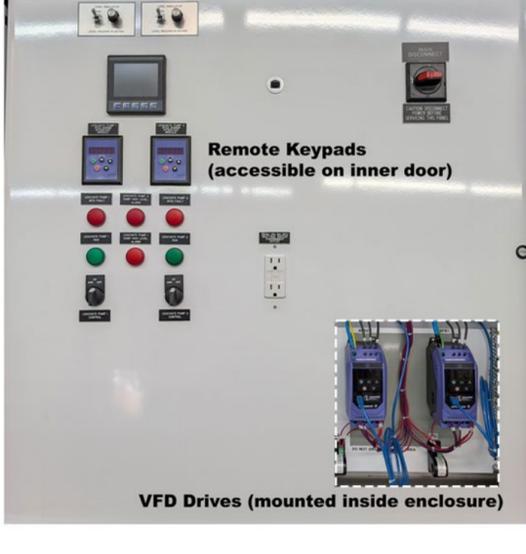
- **Soft Start:** By slowly ramping up the motor, VFDs prevent the initial energy spike that can be 5 to 10 times greater than the normal running load, minimizing heat and stress on the motor and pump.
- **Speed Control:** VFDs allow operators to match motor speed to the workload demand by adjusting the frequency between 30 and 60 Hz. This capability enables the pump to run at lower speeds during periods of low demand, resulting in substantial energy savings and reduced operational costs.



### Key Benefits of Installing a VFD

Implementing VFDs offers several advantages for liquid pumping systems:

- **Increased Equipment Life:** By reducing motor stress and wear, VFDs extend the lifespan of motors and pumps.
- **Reduced Costs:** Lower energy consumption and less frequent maintenance and repairs lead to long-term savings.
- **Improved Control:** VFDs provide enhanced control over liquid levels and system pressure.
- **Better System Utilization:** The ability to adjust to fluctuating demands improves the overall efficiency and utilization of the pumping system.



### Cost of Premature Pump Failure

- **Replacement Costs:** The pump itself can range from a few hundred to several thousand dollars, depending on its size and horsepower.
- **Labor Costs:** The cost to remove the failed pump and install a new one, including specialized labor and equipment, can be significant.
- **Downtime:** This is often the most expensive factor. A pump failure can halt operations, leading to costly service interruptions and potential environmental violations from high liquid levels.

While Variable Frequency Drives have an upfront cost, they provide a substantial return on investment by reducing energy consumption, extending equipment life, and lowering maintenance costs.

*If you have any questions please call EPG at 1-800-443-7426 to speak with one of our Application Specialists.*

### Industry Events

*This list of events is updated each month. We will do our best to keep the list accurate when published.*

**Feb 22-26 Global Waste Management Symposium**  
Palm Springs, CA (Lee Supply Exhibiting)

**Feb 25-26 WI Integrated Resource Mgmt. Conference**  
Elkhart Lake, WI (EPG Exhibiting)

**Mar 3-4 The Engineering Society of Detroit Solid Waste Technical Conference**  
East Lansing, MI (EPG Exhibiting)

**Mar 10-13 Beehive SWANA Symposium**  
Springdale, UT (The Reich Co. Exhibiting)

**Mar 12 Red Cedar Watershed Conference**  
Menomonie, WI (EPG Exhibiting)

**Mar 23-25 Georgia SWANA Spring Conference**  
Helen, GA (The Reich Co. Exhibiting)

**Mar 24-26 Oklahoma SWANA Conference**  
Tulsa, OK (The Reich Co. Exhibiting)

**Mar 25-27 Louisiana SWANA Conference**  
Lafayette, LA (The Reich Co. Exhibiting)

**Mar 26-27 Iowa Solid Waste Spring Conference**  
Carroll, IA (EPG Exhibiting)

**Mar 30-Apr 1 Alabama SWANA Spring Conference**  
Orange Beach, AL (The Reich Co. Exhibiting)

**Apr 8-10 Virginia (Old Dominion) SWANA Conference**  
Virginia Beach, VA (Lee Supply Exhibiting)

**Apr 14-17 2026 EPG Service School**  
(Registration is Closed)  
Maple Grove, MN

**Apr 26-29 Texas SWANA Conference**  
El Paso, TX (The Reich Co. Exhibiting)

**Apr 1-2 Minnesota RAM/SWANA Conference**  
Prior Lake, MN (EPG Exhibiting)

**May 17-20 New York Federation of Solid Waste**  
Lake George, NY (Lee Supply Exhibiting)

**May 19-21 Mississippi Magnolia Chapter SWANA Spring Conference**  
Biloxi, MS (The Reich Co. Exhibiting)

**Jul 12-14 Missouri Waste Control Coalition Conference**  
Osage Beach, MO (The Reich Co. Exhibiting)

**Aug 18-20 2026 WSWRA Annual Conference**  
Gillette, WY (The Reich Co. Exhibiting)

**(Date TBD) Tennessee Sustainability Conference**  
Gatlinburg, TN (The Reich Co. Exhibiting)

**Aug 25-27 StormCon**  
Minneapolis, MN (EPG Exhibiting)

**Sep 9-11 Georgia Spring Conference**  
Jekyll Island, GA (The Reich Co. Exhibiting)

**Sep 21-23 Colorado Rocky Mountain SWANA Chapter Fall Conf.**  
Golden, CO (The Reich Co. Exhibiting)

**Sep 28-30 Sunflower Kansas SWANA Chapter Conference**  
Manhattan, KS (The Reich Co. Exhibiting)

**(Date TBD) Alabama SWANA Fall Conference**  
Location: TBD (The Reich Co. Exhibiting)

**(Date TBD) Mississippi Magnolia Chapter SWANA Fall Conference**  
Natchez, MS (The Reich Co. Exhibiting)

**Nov 2-4 Nebraska SWANA Joint Conference**  
Kearney, NE (The Reich Co. Exhibiting)

