

Shown here as a triplex system, the Vmax^{VFD} system is expandable from 2 to 4 pumps adjusting to increased demand or expansion. The Vmax^{VFD} system is flexible, allowing individual pumps to be in various locations throughout the plant.



DEKKER Vmax^{VFD} vacuum systems offer industrial applications the most reliable and energy-efficient systems available today. DEKKER's advanced design combines the proven benefits of our Vmax oil-sealed liquid ring vacuum pumps with variable frequency drive (VFD) motor speed control.

The Vmax^{VFD} vacuum systems are micro-processor controlled and offer substantial energy savings by automatically adjusting pump speed to match varying vacuum demand. This eliminates frequent stop-starts and results in more stable vacuum levels.

DESIGN FEATURES

- DEKKER Liquid Ring Vacuum Pumps have only one moving part—resulting in cooler and quieter operation, high reliability, increased up-time, and lower maintenance costs
- Reliable for tough applications such as woodworking and soil remediation, the Vmax^{VFD} is built to tolerate accidental carry-over of liquids and soft solids
- VFD motor control lowers energy costs by adjusting speed to match varying vacuum demand

- VFD “soft start” ramps motor speed gradually to extend system life and lower maintenance needs
- New approach to energy-efficient vacuum systems allows simple cost-effective expansion for customers who anticipate future building plans or increased demand
- Proprietary intelligent logic control monitors pumps and adjusts sequencing as availability or demand changes
- System consists of two, three, or four simplex liquid ring vacuum systems
- Each pump has individual VFD equipped control panels
- Main control panel is separate and includes logic controller (PLC) and proprietary process controller (PID)
- Alternation program based on actual run time hours assures balanced usage on pumps
- Simple keypad control of vacuum set point and pump on/off thresholds
- Long life LED panel lamps for higher reliability and reduced bulb replacement



The VFD main control panel provides a single location for system control and aggregating alarm outputs for remote monitoring. Wall-mounted, the main panel needs only low voltage wiring to the individual pump controls.

