

VARIABLE FREQUENCY DRIVES

Capital Investment Opportunity



OVERVIEW

Variable frequency drives (VFDs) adjust motor speed and torque by modulating the voltage and frequency. They are often used in HVAC fans and hydronic pump motors. VFDs can match the speed of the motor to the required load, therefore, saving energy during low demands.

CONSIDERATIONS

- Ensure motor is VFD rated (typically inverter duty)
- Typically have sizeable rebates from utilities
- Recommended for applications with variable loads
- Prolong equipment lifetime

KEY PERFORMANCE INDICATORS (KPIs)

- 1-3 point energy use intensity (EUI) reduction potential
- 1-5% sitewide electric savings
- 3 year simple payback