



Centrifugal Chiller VFD

Save up to 30% in energy costs by adding a solid-state Variable Frequency Drive to your Centrifugal Chiller

Reduce Energy Cost and Consumption

Reducing part load power consumption on your chiller is the key to energy efficiency and cost savings. Power consumption for a chiller is typically measured in kilowatts per ton (KW/ton). Reducing this ratio leads you to serious cost savings from your power utility provider, and also plays a part in reducing your footprint on the environment.

Improved Reliability

The “soft start” provided by a VFD results in less stress on compressor motor, gears and electrical components than a traditional Wye-Delta or solid-state motor starter. Superior protection of the compressor motor can result in improved reliability and longer equipment life.

Benefits that make a Centrifugal VFD a Smart Solution

- Can save up to 30% on energy costs
- Soft start capability extends the life and reliability of your chiller
- Competitively priced with a quick payback
- Easy-to-use energy savings software can estimate cost savings and the payback period before installation
- Fully customized product available
- Free standing design for a wide range of applications and versatility
- Local energy rebates can save you even more money
- Integrate into virtually any new or existing building automation system
- Can meet IEEE 519 harmonic levels
- Part of your sustainability strategy

The McQuay centrifugal VFD maximizes your chiller's efficiency and capacity, resulting in operating costs savings.



A centrifugal chiller is typically the single largest consumer of energy in today's commercial buildings. You can reduce your chillers energy usage by installing a solid-state variable frequency drive. Since most chillers operate at part load demand 99% of the time, your energy savings with a VFD can be significant, up to 30% annually. Additionally, a VFD may qualify for local utility rebates for even more savings.

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Proven Technology

McQuay centrifugal drives utilize an innovative design that is recognized as one of the most timely, reliable, and robust products in today's industrial drives world. This product offers the right combination of converging technologies to address today's market concerns.

It combines:

- Integration with Bluetooth® where available
- Numerous communication options including:
 - BACnet® MS/TP
 - LonWorks®
 - Modbus®
 - Ethernet/IP



Easy to use remote interface design provides the flexibility and convenience you need.



Features for Easy Installation and Service

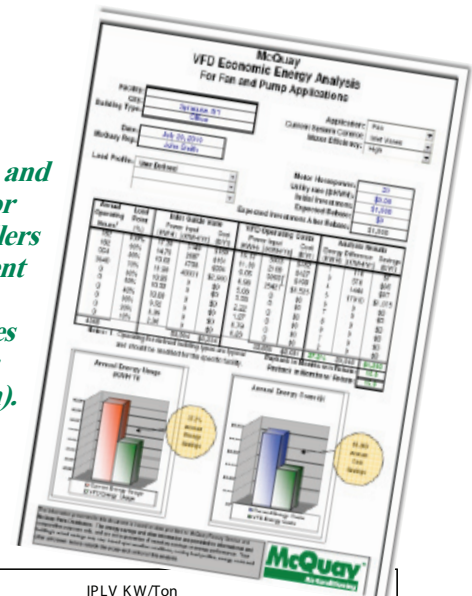
- Free standing design
- All in one, enclosed product
- Through-the-door disconnect for serviceability
- Service disconnect lockout
- Assembled and tested per ETL, UL/ETLc, C-UL
- Air or water cooled inverter options available
- Wide array of communication options
- Warning, indicator, and monitoring lights and devices available

Engineered, Turnkey Installation

McQuay can provide a complete evaluation of your centrifugal chiller, including estimated energy savings for your chiller. We can provide expert engineering and turnkey installation to help the VFD retrofit go smoothly and quickly.

How much can you save with a McQuay Centrifugal VFD?

Use the McQuay Chiller Economic Energy Analysis program to learn how much you could save. By entering certain criteria about your chiller you will see the annual savings and payback period.



McQuay single and dual compressor centrifugal chillers are ultra-efficient with variable frequency drives (500-ton chiller selection shown).

