

BONUS REBATES FOR VFDs

LIMITED TIME 25% BONUS REBATE ON VFDS



What is a variable frequency drive or adjustable speed drive?

Variable frequency drives (VFDs), also called adjustable speed drives (ASDs), allow induction-motor-driven loads such as fans and pumps to operate at increased efficiency. By controlling motor speed so that it finely corresponds to varying load requirements, VFD installations can increase energy efficiency and process precision, and afford other performance benefits such as over speed capability. They can also eliminate the need for expensive and energy-wasting throttling mechanisms such as control valves and outlet dampers.¹

Bonus details¹

- 25% bonus on HVAC, non-HVAC VFDs, integrated Fan Energy Index, and Clean Water Pump VFDs under the MN HVAC-R program
- Invoices must be dated between April 15, 2022 and August 31, 2023
 - The 24-month invoice timeline does not apply to this bonus
- Rebate applications must be submitted by December 2, 2023



Motor HP	Prescriptive rebate values without bonus	Prescriptive rebate values with bonus	Motor HP	Prescriptive rebate values without bonus	Prescriptive rebate values with bonus
1	\$400	\$500	50	\$3,500	\$4,375
1.5	\$400	\$500	60	\$4,000	\$5,000
2	\$400	\$500	75	\$5,000	\$6,250
3	\$400	\$500	100	\$6,000	\$7,500
5	\$600	\$750	125	\$7,000	\$8,750
7.5	\$750	\$938	150	\$7,000	\$8,750
10	\$1,000	\$1,250	200	\$8,000	\$10,000
15	\$1,250	\$1,563	Larger than 200 HP	*Drives larger than 200 hp will be evaluated via Custom Efficiency.	
20	\$1,600	\$2,000			
25	\$2,000	\$2,500			
30	\$2,400	\$3,000			
40	\$3,000	\$3,750			
50	\$3,500	\$4,375			

Motor RPM only the following RPMs qualify as prescriptive under the prescriptive VFD rebate program.

RPM: Revolutions per minute

8 pole = 900 RPM

6 pole = 1200 RPM

4 pole = 1800 RPM

2 pole = 3600 RPM

Benefits of VFDs

- Added control—smoother acceleration and deceleration, automated response to system conditions (e.g. pressure, flow, etc.)
- VFDs operate on an as-needed basis, saving energy, money and maintenance costs
- Energy savings—especially on variable-torque centrifugal fan and pump applications
- Improved process control, such as speeding up or slowing down a machine or process
- Bypass capability in the event of an emergency
- Protection from overload currents
- Extending the life of your motor equipment
- Reduce noise

¹The following equipment or programs do not qualify for this bonus:

- Water well pump VFDs
- New construction projects under EDA or EEB
- Multi-family building efficiency (MFBE)

BONUS REBATES FOR VFDs**MINNESOTA****Market segments that benefit from VFDs****Segments that benefit from VFDs**

- Commercial real estate
- Churches
- Food processing
- Grocery stores
- Commercial space (retail and real estate)
- Hotels/motels
- Schools and universities
- Cold storage
- Hospitals
- Industrial processes, such as glass manufacturing, mining, refining
- Cold storage

VFD restrictions

New equipment/new construction non-qualifying scenarios

- New VFD installation
- Replacing a failed VFD
- VFDs installed where not required by code used in comfort cooling and heating.
For HVAC pumps and fans:
 - Axial or centrifugal fans or blowers greater than 5 hp
 - Single stage centrifugal pumps greater than 5 hp

The following scenarios do not qualify for a VFD

New equipment/new construction non-qualifying scenarios

- Soft start
- Power correction capabilities
- Run less than 100 hours per year

Examples of drive applications that do not qualify prescriptively, but may qualify for custom rebates include:

- VFDs placed on existing refrigeration compressors or air compressors.
- High static pressure installations such as drives on submersible pumps or any above ground pumps that operate systems with a high static dominated pressure level or poor sequencing, or that do not meet the Water Well Pump or HVAC VFD prescriptive rebate requirements.
- Non-fan, non-pump equipment such as presses, extruders, stirrers, conveyors, or vacuum pumps, process equipment or chillers.
- Positive displacement blowers or positive displacement pumps.
- Integrated VFD/Pump/Motor units.
- Multi-stage booster stations or pumps.
- A component of a larger system that does not have separate, itemized receipt/invoice for the drive. If a VFD is on a compressor and is less than 50 hp is prescriptive under the Compressed Air program.

