City of North St. Paul

2022 Variable Frequency Drive Rebate Instructions

By participating in the We Save program, you can save energy and earn a rebate when you purchase and install a new Variable Frequency Drive (VFD) on HVAC and non-HVAC systems including fans and pumps.

What rebate can I earn?
New Variable Frequency Drive (1 hp – 200 hp): $ 40 / hp

What are the benefits of Variable Frequency Drives?
VFDs save energy by allowing motor-driven devices like fans and pumps to vary the rate of speed at which they operate based on the actual needs of the equipment, rather than operating at a constant full speed.

Rebate Qualifications and Program Rules

- Rebate offered to non-residential electric customers served by the City of North St. Paul.
- Rebate will be issued to the customer only. Maximum rebate amount shall be limited to 50% of project cost.
- Rebate Application must include: (1) copy of paid, itemized invoice(s) showing quantity, model number(s), HP, price of all materials purchased, and installation costs and (2) Rebate Calculation Table. Incomplete and/or illegible applications will not be processed.
- Utility reserves the right to conduct inspections of any and all installations before issuing the rebate. If Utility finds that the application does not comply with MMPA rules and qualifications, rebate amount may be adjusted. Call your local municipal electric utility representative for more information.
- VFDs must be automatically controlled and installed on centrifugal or axial fans or blowers or single stage centrifugal pumps.
- Rebate is not offered for replacement drives.
- Installation must be completed before submitting rebate application.
- Customer must apply for rebate within one year of purchase date shown on invoice.
- Utility is not liable for rebates promised to a customer by a contractor misrepresenting the program nor any tax liability imposed on customer related to rebate payment.
- Utility gives no warranties, expressed or implied, with respect to equipment operation, material, workmanship, or manufacturing. The Utility does not guarantee that the implementation of energy-efficient measures or use of equipment purchased or installed pursuant to this program will result in energy or cost savings. In no event shall the Utility be liable for any incidental or consequential damage.
- Information contained in this rebate application may be shared with the Department of Commerce and MMPA.
- Rebate requests are processed on a first-come first-serve basis. Annual rebate funds are limited. Rebate programs, qualifications, and amounts are subject to change at any time.
- Qualifying customers must apply for rebate by November 30, 2022.

Rebate Checklist:	❑ Rebate Application ❑ Rebate Calculation Table ❑ Dated itemized invoice
Questions? Please contact us. Phone: 651-747-2413 Fax: 651-747-2425 Email: barb.huelsman@northstpaul.org Website: northstpaul.org	<u>Send Rebate Forms to:</u> City of North St. Paul 2400 Margaret Street North Saint Paul, MN 55109

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2022 Variable Frequency Drive Rebate Application

STEP 1: CUSTOMER INFORMATION

Customer Name:		
Account #:	Contact Name:	
Address:	City:	ZIP Code:
Email:	Phone:	
Installation Address (if different):		

STEP 2: VENDOR INFORMATION

Company Name:	Contact Name:	
Address:	City:	ZIP Code:
Email:	Phone:	

STEP 3: COMPLETE REBATE CALCULATION TABLE

Rebate Calculation Table calculates the dollar amount of the rebate and collects information necessary for your Utility to calculate energy savings. For rebates requiring more columns, print out additional copies of sheet. Table must be filled out for all VFDs for which a rebate is being requested. Rebate paid cannot exceed the purchase price of equipment. For assistance completing table, contact your Utility.

STEP 4: ATTACH NECESSARY DOCUMENTATION

☐ Rebate Calculation Table
☐ Copy of dated, itemized invoice(s) showing quantity, price, manufacturer, and model number of each VFD for which you are requesting a rebate

STEP 5: CUSTOMER SIGNATURE

I hereby certify that information on rebate application is accurate. I have read rebate instructions and agree that MMPA may verify information provided.

X	Date *(mm/dd/yy):*

FOR MMPA UTILITY USE ONLY. DO NOT WRITE IN THIS AREA.

Customer Type (select one): ☐ Commercial ☐ Industrial

Approved By:	Date *(mm/dd/yy):*	Rebate ($):

MMPA
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Expires November 30, 2022

City of North St. Paul

2022 Variable Frequency Drive Rebate Calculation Table

INSTRUCTIONS:		All boxes must be filled in for each VFD model. For rebates requiring more columns, print additional copies of sheet. For Control Type, use code from table at bottom of page. If Motor Efficiency is unknown, use NEMA Premium rating. If Motor Load Factor is unknown, use 65%. For assistance with Duty Cycle, contact Utility. For electronic copy of table, contact Utility.				
		Example	1	2	3	
VFD Information	Manufacturer	*CompanyAB*				
	Model Number	*VFD-8575*				
	Rated HP	*30*				
	Quantity	*2*				
End Use (Fan or Pump)		*Fan*				
Control Type (see table below)		*D*				
Annual Operating Hours		*3,000*				
Motor Information	Rated HP	*25*				
	Type (ODP, TEFC)	*ODP*				
	Speed (RPM)	*1800*				
	Efficiency %	*93.6%*	0.0%	0.0%	0.0%	
	Load Factor %	*65.0%*	0.0%	0.0%	0.0%	
Duty Cycle Information (% of Motor Runtime)	10 to 20%	*0%*	0%	0%	0%	
	20 to 30%	*6%*	0%	0%	0%	
	30 to 40%	*12%*	0%	0%	0%	
	40 to 50%	*17%*	0%	0%	0%	
	50 to 60%	*30%*	0%	0%	0%	
	60 to 70%	*18%*	0%	0%	0%	
	70 to 80%	*12%*	0%	0%	0%	
	80 to 90%	*5%*	0%	0%	0%	
	90 to 100%	*0%*	0%	0%	0%	
	Total	*100%*	0%	0%	0%	
VALUES WILL AUTOFILL IN THE SECTION BELOW						
Rebate HP *Enter lower of VFD, Motor*		*25*	0.0	0.0	0.0	
VFD Quantity		*2*	0	0	0	
Total HP *Rebate HP x VFD Quantity*		*50*	0.0	0.0	0.0	
Rebate Price $/HP		*$40*	$40	$40	$40	**Total Rebate (Σ cols 1-3)**
Rebate $ *Total HP x Rebate Price*		*$2,000*	$ $ 0	$ $ 0	$ $ 0	$ $ 0

Existing Control Type Codes			
Code	Description	Code	Description
A	PUMP: No Control	G	FAN: Outlet Damper, Backward Inclined & Airfoil Fans
B	PUMP: Bypass Valve	H	FAN: Inlet Guide Vane, Backward Inclined & Airfoil Fans
C	PUMP: Throttling Valve	I	FAN: Inlet Vane Dampers
D	FAN: No Control or Bypass Damper	J	FAN: Outlet Damper, Forward Curved Fans
E	FAN: Discharge Dampers	K	FAN: Eddy Current Drives
F	FAN: Inlet Damper Box	L	FAN: Inlet Guide Vane, Forward Curved Fans

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