

# 2019 Business Ground Source Heat Pump Rebate Application



6388 Maple Street  
North Branch, MN 55056  
Phone (651) 674-7100

LIMITED FUNDING: Contact your local Utility to confirm rebate availability.

## CUSTOMER INFORMATION

Check here if you are applying for multiple Business Rebates and the information entered on this page is the same for all projects. If so, only one cover page needs to be completed and submitted with all rebate applications.

Location Name \_\_\_\_\_ Company Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Installation Address (if different) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Account Number \_\_\_\_\_

Type of Business:

- College     Elementary School     Grocery/Supermarket     Health     Hospital     Hotel/Motel     Manufacturing  
 Multifamily     Secondary School     Other/Miscellaneous     Office     Retail     Restaurant     Warehouse

Facility Size (ft<sup>2</sup>) \_\_\_\_\_

Occupancy:     Own     Rent/Lease

- How did you hear about our rebates:
- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Contractor         | <input type="checkbox"/> Vendor/Retailer        | <input type="checkbox"/> Radio           | <input type="checkbox"/> TV                 |
| <input type="checkbox"/> Utility Newsletter | <input type="checkbox"/> Utility Representative | <input type="checkbox"/> Utility Website | <input type="checkbox"/> Utility Mail/Email |
| <input type="checkbox"/> Newspaper Ad       | <input type="checkbox"/> Chamber of Commerce    | <input type="checkbox"/> Questline       | <input type="checkbox"/> Other              |

## CONTACT INFORMATION

Name \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

I certify that the information on this application (and any associated worksheets) is correct and request consideration for participation in this program. I have read and agree to the terms and conditions on the reverse side of the application. I understand that if any equipment in conjunction with this application is ordered, purchased, or installed before approval from the Utility is received, the proposed project may not qualify for a rebate.

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

Project Status:     Completed     Not Started     In Process    Est. Project Completion Date \_\_\_\_\_

## CONTRACTOR INFORMATION

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Contact Name \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### INTERNAL USE ONLY – PLEASE DO NOT WRITE IN THIS SPACE

Date Received: \_\_\_\_\_ Pre-Inspected?     Yes     No    Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Post-Inspected?     Yes     No    Date: \_\_\_\_\_ Initials: \_\_\_\_\_

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Project Type:  New Construction  Retrofit

## Existing Equipment (Retrofit Only)

Cooling				Heating			
Code (Table 1)	Size (Tons)	EER or SEER Rating <sup>1</sup>	Unit of Measure (circle one)	Equipment Type (Furnace, boiler, etc.)	Rated Input (BTU)	HSPF or AFUE Rating <sup>1</sup>	Unite of Measure (circle one)
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE
			EER / SEER				HSPF / AFUE

**TABLE 1 – Existing Cooling Equipment Types**

Code	Equipment Description
UT-1	Rooftop/Packaged AC - Less than or equal to 65,000 BTU/hour (5.4 Tons)
UT-2	Rooftop/Packaged AC - 65,001 – 134,999 BTU/hour (5.4 - 11.2 Tons)
UT-3	Rooftop/Packaged AC - 135,000 – 239,999 BTU/hour (11.2 - 20 Tons)
UT-4	Rooftop/Packaged AC - 240,000 – 759,999 BTU/hour (20 - 63.3 Tons)
UT-5	Rooftop/Packaged AC - 760,000 BTU/hour and greater (63.3+ Tons)
PTAC	Packaged Terminal AC Units (all sizes)
PTHP	Packaged Terminal Heat Pump Units (all sizes)

<sup>1</sup>Efficiency Ratings:

- SEER – Seasonal Energy Efficiency Rating
- EER – Energy Efficiency Rating
- HSPF – Heating Seasonal Performance Factor
- AFUE – Annual Fuel Usage Efficiency
- COP – Coefficient of Performance

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## New Equipment

Project Cost (material and labor): \$ \_\_\_\_\_

Loop Type:  Horizontal  Vertical  Slinky  Other \_\_\_\_\_

Loop Length: \_\_\_\_\_ ft

Cooling Capacity: \_\_\_\_\_ BTU Heating Capacity: \_\_\_\_\_ BTU

Desuperheater Installed?:  Yes  No

Water Heating:  Electric  Gas Capacity: \_\_\_\_\_ Gallons

Supplemental Heat installed: kW \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Code (from table 2)	Manufacturer Name	Model Number	Size (Tons)	kW/Ton Rating	Qty	Annual Cooling Hours (see Table 3)	Annual Heating Hours (see Table 3)	AHRI Reference #	Minimum EER (from table 2)	Rated EER	Rated COP	Base Rebate (D x F x \$200)	EER Bonus Rebate (K - J) x (D x F x \$25)	Total Rebate (M + N)
												\$	\$	\$
												\$	\$	\$
												\$	\$	\$
												\$	\$	\$
												\$	\$	\$

Total Rebate \$ \_\_\_\_\_

**TABLE 2 – Qualifying Efficiencies and Rebate Schedule**

Code	Qualifying Equipment	Minimum Efficiencies	Base Rebate \$/Ton	EER Bonus Rebate <sup>1</sup> \$/Ton
CL-W2A-12	Closed-Loop Water-to-Air GSHP	17.1 EER and 3.6 COP	\$200	\$25
CL-W2W-12	Closed-Loop Water-to-Water GSHP	16.1 EER and 3.1 COP	\$200	\$25
OL-W2A-12	Open-Loop Water-to-Air GSHP	21.1 EER and 4.1 COP	\$200	\$25
OL-W2W-12	Open-Loop Water-to-Water GSHP	20.1 EER and 3.5 COP	\$200	\$25
DGX	Direct GeoExchange GSHP	16.0 EER and 3.6 COP	\$200	\$25

<sup>1</sup>EER Bonus Rebate provides an additional incentive for each 1 EER above the Minimum Efficiency.

The Minimum Efficiencies shown above apply to single-stage models and to multi-stage models based on the following calculated efficiencies:

$$\text{EER} = (\text{highest rated capacity EER} + \text{lowest rated capacity EER}) / 2$$

$$\text{COP} = (\text{highest rated capacity COP} + \text{lowest rated capacity COP}) / 2$$

Qualifying Water-to-Air ground source heat pump efficiency ratings are determined using the Air Conditioning, Heating, and Refrigeration Institute's (AHRI) directory, which may be found at [www.ahridirectory.org](http://www.ahridirectory.org). EER rating is at ARI/ISO 13256-1 cooling conditions of 77°F entering water temperature and 80.6°F dry bulb/66.2°F wet bulb entering air temperature (ground loop heat pump). **A copy of the manufacturer's applicable unit rating must accompany this application.** Qualifying Water-to-Water ground source heat pump efficiency ratings are verified using manufacturer specifications which clearly demonstrate the Entering Water Temperature (EWT), Gallons Per Minute (GPM) water flow, and the associated EER rating. EER rating is at ARI/ISO 13256-2 cooling conditions of 77°F entering water temperature and 53.6°F leaving water temperature (ground loop heat pump). **Please include manufacturer's specification sheets verifying this information.** Qualifying DGX ground source heat pumps must be rated in accordance with AHRI 870 rating conditions. **Please include manufacturer's specification sheets verifying this information.**

**TABLE 3 – Guidelines for Cooling and Heating Hours**

Business Type	Cooling Hours	Heating Hours
Convenience Store	986	1,546
Education - Community College/ University	785	1,616
Education - Primary	408	1,961
Education - Secondary	563	2,098
Health/Medical - Clinic	865	1,830
Health/Medical - Hospital	1,298	2,054
Lodging	754	1,934
Manufacturing	589	1,144
Office - Low Rise	446	1,610
Office - Mid Rise	651	1,793
Office - High Rise	1,263	1,760
Other/Miscellaneous	729	1,739
Restaurant	652	1,530
Retail - Large Department Store	686	1,444
Retail - Strip Mall	574	1,393
Warehouse	409	1,533

# TERMS AND CONDITIONS

## 1. ELIGIBILITY

Rebates are available to non-residential electric customers of the Utility. All products must be in use in facilities in the Utility service territory.

## 2. APPLICATION PERIOD

The program is offered January 1 through December 31 of the respective calendar year. Due to limited funding, this rebate offer can be withdrawn at any time without notice, and is available on a first-come, first-serve basis. All projects must be pre-approved by the Utility to qualify for a rebate.

## 3. INSPECTION AND VERIFICATION

The Utility reserves the right to inspect the Customer's facility through on-site visitations before and after new equipment installation to verify rebate eligibility.

## 4. INSTALLATION AND REBATE AMOUNTS

Qualifying energy-efficient Ground Source Heat Pumps installed and operational within six (6) months of the date of purchase are eligible for rebate. Additional time may be granted subject to the Utility's pre-approval. In no case will the rebate paid by the Utility exceed the purchase price of the equipment. The maximum rebate amount may be limited.

## 5. INVOICE AND PAYMENT

When the purchase and installation is completed, the Customer must notify the Utility and submit original invoices specifying the quantity and price of all materials purchased, the date ordered, installation costs, and applicable taxes. After satisfactory review of the invoices and on-site verification, a rebate check will be issued to the Customer. Please allow 60 days from the date of on-site inspection for delivery of payment.

## 6. EQUIPMENT ELIGIBILITY REQUIREMENTS

- Ground source heat pump system/equipment must be new.
- Eligible single-stage ground source heat pumps must meet or exceed the Utility's minimum efficiency requirements as identified in this application according to its respective characteristics. Multi-stage models may be qualified based on:  
$$\text{EER} = (\text{highest rated capacity EER} - \text{lowest rated capacity EER}) / 2$$
$$\text{COP} = (\text{highest rated capacity COP} - \text{lowest rated capacity COP}) / 2$$
- Qualifying Water-to-Air ground source heat pump efficiency ratings are determined using the Air Conditioning, Heating, and Refrigeration Institute's (AHRI) directory, which may be found at [www.ahridirectory.org](http://www.ahridirectory.org). EER rating is at AHRI/ISO 13256-1 cooling conditions of 77°F entering water temperature and 80.6°F dry bulb/66.2°F wet bulb entering air temperature (ground loop heat pump). **A copy of the manufacturer's applicable unit rating must accompany this application.**
- Qualifying Water-to-Water ground source heat pump efficiency ratings are verified using manufacturer specifications which clearly demonstrate the Entering Water Temperature (EWT), Gallons Per Minute (GPM) water flow, and the associated EER rating. EER rating is at AHRI/ISO 13256-2 cooling conditions of 77°F entering water temperature and 53.6°F leaving water temperature (ground loop heat pump). **Provide manufacturer's specification sheets verifying this information.**
- Qualifying DGX ground source heat pumps shall qualify in accordance with AHRI 870 rating conditions. **Provide manufacturer's specification sheets verifying this information.**

## 7. TAX INFORMATION

The Utility will not be responsible for any tax liability imposed as a result of the rebate payment(s). Customers are advised to consult their tax advisors for detail. Customers must submit the appropriate Tax ID or Social Security Number on the application form.

## 8. DISCLAIMER

The Utility does not guarantee that the implementation of energy-efficient measures or use of the equipment purchased or installed pursuant to this program will result in energy or cost savings. The Utility makes no warranties, expressed or implied, with respect to any equipment purchased or installed including, but not limited to, any warrant of merchantability or fitness for purpose. In no event shall the Utility be liable for any incidental or consequential damages. Customers are solely responsible for the proper disposal of existing equipment. Consult the Minnesota Pollution Control Agency (MPCA) for details at (800) 657-3864.

## 9. ENDORSEMENT

The Utility does not endorse any particular vendor, manufacturer, product, or system in promoting this rebate program. Listing a vendor or product does not constitute an endorsement, nor does it imply that unlisted vendors or products are deficient or defective in any way.