Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

A. Packaged Terminal Air Conditioning, Packaged Terminal Heat Pump, Unitary Air Cooled Split System Air Conditioning, Split System Air Source Heat Pump, Unitary Single Packaged Air Conditioning (including Rooftop Units), Single Packaged Air Source Heat Pump (including Rooftop Units), and Chiller Incentives

Description (See page 5)	Make/Model # (for split systems, supply both the indoor and outdoor coil numbers)	# of Units	Tons per Unit	Incentive per Ton*	Installed AHRI Efficiency Rating and/or kW/ton (Rating and circle one ***)	AHRI Number	Total Rebate
					SEER EER kW/ton**		$0.00
					SEER EER kW/ton**		$0.00
					SEER EER kW/ton**		$0.00
					SEER EER kW/ton**		$0.00
					SEER EER kW/ton**		$0.00
						Sub-Total	**$0.00**

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS

1) AHRI Certificate of Product Ratings for the equipment installed. If available, this document can be provided by your contractor. If the certificate is not available, please include a manufacturer's spec sheet that clearly shows efficiency ratings at standard AHRI full load testing conditions.
2) Invoice clearly showing proof of purchase including date purchased, model numbers, horsepower and cost. If contractor installed, please include installation date, address and total project cost.

- All equipment installed must serve as a primary source of cooling for the facility. Units installed as backup or redundant systems are not eligible.
- All heat pumps must serve as a primary source of heating and cooling for the facility. Units installed as backup or redundant systems are not eligible..
- Installation of both the evaporator and condenser coil is required for all split systems including heat pumps.
- Maximum incentive cannot exceed 50% of the total project cost including installation.

*See charts on page 5.
**Installed efficiency is to be stated at AHRI full load standard testing conditions. AHRI Efficiency levels will be stated as kW/ton for chillers and as SEER or EER for all other units. All efficiency ratings will be verified using the AHRI database (ahridirectory.org). Minimum efficiency requirements are shown on page 5 and 6.
***Full load efficiency ratings (FL) at AHRI standard conditions must be provided for air cooled and water cooled chillers. Integrated part load value (IPLV) at AHRI standard conditions must also be provided for water cooled chillers. Water cooled chillers must meet full and part load efficiency level requirements.

B. Mini Split/Ductless Air Source Heat Pump

Minimum Efficiency*	Make/Model #	AHRI Reference Number	Quantity	Tons/ Unit	Incentive/Ton**	Total Rebate
16 SEER				1	$200	$0.00
16 SEER					$200	$0.00
					Sub-Total	**$0.00**

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS:

1) AHRI Certificate of Product Ratings for the equipment installed. If available, this document can be provided by your contractor. If the certificate is not available, please include a manufacturer's spec sheet that clearly shows efficiency ratings at standard AHRI full load testing conditions.
2) Invoice clearly showing proof of purchase including date purchased, model numbers, horsepower and cost. If contractor installed, please include installation date, address and total project cost.

- Units installed as backup or redundant systems are not eligible..

* All test results must be at full load AHRI standard conditions. All efficiency ratings will be verified using the AHRI database (ahridirectory.org).
** Maximum incentive cannot exceed 50% of the total project cost including installation.

Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

C. Geothermal Heat Pump Incentives

A	B	C	D	E	F	G	H	I	J	K
Installed Equipment	**Size (Tons)* Based on Cooling Capacity**	**QTY**	**AHRI Reference Number**	**Minimum Efficiency****	**Rated Full Load EER*****	**Rated Full Load COP*****	**Rebate Per Ton**	**Base Rebate (BxCxH)**	**EER Bonus Rebate (F-E) x (B x C x $25)**	**Total Rebate**
Closed Loop Water to Air Ground Source Heat Pump < 11.3 Tons Per Unit							$100	$0.00	$0.00	$0.00
Open Loop Water to Air Ground Source Heat Pump < 11.3 Tons Per Unit							$100	$0.00	$0.00	$0.00
Closed Loop Water to Water Ground Source Heat Pump < 11.3 Tons Per Unit							$100	$0.00	$0.00	$0.00
Open Loop Water to Water Ground Source Heat Pump < 11.3 Tons Per Unit							$100	$0.00	$0.00	$0.00
Direct Geoexchange (DGX) < 11.3 Tons Per Unit							$100	$0.00	$0.00	$0.00
Desuperheater Bonus (Presence of Desuperheater Must Be Clearly Stated On Invoice) A desuperheater is used to heat domestic hot water for the business.						**Desuperheater Rebate: QTY____ x $50**				$0.00
									Sub-Total	**$0.00**

Design Temperature Used for Analysis:	Resulting Heat Load	Equipment Heating Capacity Required for Business:
Ground Source Heat Pump Manufacturer:	Installed Model Numbers	Installed Serial Numbers

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS:

1) AHRI Certificate of Product Ratings for the equipment installed. If available, this document can be provided by your contractor. If the certificate is not available, please include a manufacturer's spec sheet that clearly shows efficiency ratings at ISO Standard 13256 (AHRI 870 for DGX systems) full load testing conditions along with part load testing conditions where applicable.
2) Copy of heat load calculation clearly delineating a) design temperature used for analysis, b) resulting heat load, and c) equipment heating capacity required for the building. (This document can be provided from your contractor.)
3) Invoice clearly showing proof of purchase including model numbers, date of installation, installation address, total project cost, and **stating that a desuperheater is present if applicable.**

- Incentive is limited to units with full load cooling size of 11.3 tons or less. Incentives for larger units may be available on a case-by-case basis.
- The ground source heat pump must be a primary heating and cooling source for the facility. Units installed as backup or redundant systems are not eligible.
- All equipment installed must be new and all equipment removed must be disposed of - not reused or sold.
- Desuperheater incentive applies only to new installations of ground source heat pumps.
- The maximum incentive for a closed loop system is $15,000. The maximum incentive for an open loop system is $7,500. If incentive is projected to exceed $10,000, written pre-approval from SPU is needed. **Maximum incentive can not exceed 50% of the total project cost, including installation.**.

***Size is to be stated in tons based on full load cooling capacity at ANSI/AHRI/ASHRAE ISO Standard 13256 testing conditions. For DGX systems AHRI 870 shall be used.**

****All efficiency ratings must be stated at standard ANSI/AHRI/ASHRAE ISO Standard 13256 testing conditions (AHRI 870 for DGX systems). Units not listed at www.energystar.gov as ENERGY STAR qualified must meet equivalent minimum efficiency standards to be eligible. Efficiency ratings will be verified using the AHRI database (www.ahridirectory.org). For multistage units, the incentive minimum efficiency is based on ENERGY STAR's blended EER rating which is defined as follows: EER = (highest rated capacity EER + lowest rated capacity EER) / 2 and COP = (highest rated capacity COP + lowest rated capacity COP) / 2.**

*****Rated full load EER and COP at ANSI/AHRI/ASHRAE ISO Standard 13256 (AHRI 870 for DGX systems) testing conditions.**

Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

D. ENERGY STAR Window and Wall (Sleeve) Air Conditioner Incentives

Description	Make/Model #	Size Btu/hr	Incentive per Unit*	Quantity	ENERGY STAR Qualified?	Total Rebate
					☐ Yes ☐ No	$0.00
					☐ Yes ☐ No	$0.00
					☐ Yes ☐ No	$0.00
					Sub-Total	**$0.00**

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS:
1) Invoice clearly showing proof of purchase including quantities, model numbers, date of purchase, and total project cost.

- **Window or wall (sleeve) AC units must be ENERGY STAR qualified to be eligible for incentive.**

* Maximum incentive cannot exceed 50% of the total project cost including installation.

E. Guest Room Energy Management System Incentives (Replacement or Retrofits Only - Lodging Facilities Only)

Existing Heating / Cooling	Number of Guest Rooms Controlled	Incentive Per Room*	Make/Model #	Total Rebate
PTHP Heat Pump Unit		$35.00		$0.00
			Sub-Total	**$0.00**

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS:
1) Manufacturer's specification sheet showing make, model number, and required features.
2) Invoice clearly showing proof of purchase including quantity of rooms controlled, model numbers, date of installation, installation address, and total project cost.

- Incentive is offered only for occupancy based guest room management systems in lodging facilities.
- Heating and cooling must be based on occupancy determined by key activation or sensing of either motion or body heat.
- Only systems controlling PTHPs qualify for this incentive.
  Systems controlling other sources of heating or cooling may be eligible under the Custom Incentive Program..

* Maximum incentive cannot exceed 50% of the total project cost including installation..

F. Chilled Water Reset Incentives (Retrofit of Existing Equipment Only)

Description (Refer to page 6)	Make/Model #	Tons	Incentives Per Ton (See Page 6)	Total Rebate
				$0.00
				$0.00
				$0.00
			Sub-Total	**$0.00**

PLEASE ATTACH THE FOLLOWING REQUIRED DOCUMENTS:
1) Manufacturer's specification sheet showing make, model number required features.
2) Invoice clearly showing proof of purchase including model numbers, date of installation, installation address, and total project cost.

- Chilled water resets are for retrofit installations on existing equipment only. Chilled water resets on newly installed or replacement chillers do not qualify.
- Controls must be installed that vary the chilled water supply temperature based on outdoor air temperature, chiller return water temperature, or percentage cooling load.
- Incentive is based on type of chiller (water cooled vs. air cooled) and tons of refrigeration capacity for the chiller plant.
- The purchase of new controls is required, in lieu of a setting change. Controls must be installed on an existing constant volume chilled water system. Variable flow systems and new construction projects do not qualify. Note that other chilled water reset projects on existing equipment may qualify for custom incentives .
- Maximum incentive cannot exceed 50% of total project cost including installation.

Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

Summary of Rebates					
A Sub-Total	B Sub-Total	C Sub-Total	D Sub-Total	E Sub-Total	F Sub-Total
$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
				TOTAL REBATE	**$0.00**

Important Program Rules

- This program is applicable to the commercial/industrial customers of SPU.
- Pre-Approval is required. Obtain a Rebate Authorization Number by submitting all necessary paperwork prior to starting project. The authorization number and reserved funds are valid for 90 days. Any extensions must receive SPU approval.
- **Customer is responsible for confirming funds availability with SPU and to verify program parameters.** All projects will be verified by SPU engineering department. All decisions by SPU are final.
- Installation must be complete before funds will be issued.
- Rebate application must include documentation indicated, or rebate application will be considered incomplete.
- The maximum rebate amount shall be limited to 50% of the project cost.

SPU Use Only			**Application ID#:**_____	
Date Received	Pre-Inspected? ❑ Yes ❑ No	Date Approved: Initials:	Post-Inspected? ❑ Yes ❑ No	Date Approved: Initials:
Incentive Approved ❑ Yes ❑ No	Amount :$		Date Approved	
SPU Authorization:				

Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

Equipment Requirements and Incentives

Cooling Incentive Table & AHRI Rated Efficiency Requirements				
Description	**Size Range BTUH**	**Size Range Tons**	**Minimum AHRI Efficiency**	**Rebate**
Packaged Terminal Air Conditioning and Heat Pumps (PTAC and PTHP)				
A	All Sizes		See Below	$45/ton
* PTAC and PTHP Minimum Efficiency (EER) calculation: 12.8 EER – (.213 x (Cooling BTUH ÷ 1000)) Example for a one ton unit with cooling capacity of 12,000 BTUH – Minimum Efficiency = 12.8 – (.213 x 12,000 ÷ 1000) = 10.2				
Unitary Air Cooled Split System Air Conditioning				
B	<65,000 BTUH (1 ph)	< 5.4 tons	14.5 SEER	$50/ton
C	<65,000 BTUH (3 ph)	< 5.4 tons	12.0 EER	$50/ton
D	65,000 – 135,000 BTUH	5.4—11.3 tons	11.0 EER	$50/ton
E	136,000 – 240,000 BTUH	11.4—20.0 tons	10.8 EER	$50/ton
F	241,000 – 760,000 BTUH	20.1—63.3 tons	9.8 EER	$50/ton
G	> 760,000 BTUH	> 63.3 tons	9.3 EER	$50/ton
Split System Air Source Heat Pumps				
H	<65,000 BTUH (1 ph)	<5.4 cooling tons	14.5 SEER	$50/ton
I	<65,000 BTUH (3 ph)	<5.4 cooling tons	12 EER	$50/ton
J	65,000 – 135,000 BTUH	5.4—11.3 cooling tons	10.6 EER	$60/ton
K	136,000 – 240,000 BTUH	11.4—20.0 cooling tons	10.0 EER	$65/ton
L	>240,000 BTUH	> 20.0 cooling tons	9.1 EER	$65/ton
Unitary Single Packaged Air Conditioning (Including Rooftop Units)				
M	<65,000 BTUH (1 ph)	< 5.4 tons	14.0 SEER	$50/ton
N	<65,000 BTUH (3 ph)	< 5.4 tons	11.3 EER	$50/ton
O	65,000 – 135,000 BTUH	5.4—11.3 tons	11.0 EER	$60/ton
P	136,000 – 240,000 BTUH	11.4—20.0 tons	10.8 EER	$65/ton
Q	241,000 – 760,000 BTUH	20.1—63.3 tons	10.0 EER	$50/ton
R	> 760,000 BTUH	> 63.3 tons	9.8 EER	$50/ton
Single Packaged Air Source Heat Pumps (Including Rooftop Units)				
S	<65,000 BTUH (1 ph)	<5.4 cooling tons	14.0 SEER	$50/ton
T	<65,000 BTUH (3 ph)	<5.4 cooling tons	11.3 EER	$50/ton
U	65,000 – 135,000 BTUH	5.4—11.3 cooling tons	10.6 EER	$55/ton
V	136,000 – 240,000 BTUH	11.4—20.0 cooling tons	10.0 EER	$65/ton
W	>240,000 BTUH	> 20.0 cooling tons	9.1 EER	$35/ton
Geothermal Heat Pumps				
Closed Loop Water to Air Ground Source Heat Pump	<135,000 BTUH Cooling	< 11.3 cooling tons	ENERGY STAR® 14.1 EER and 3.3 COP	$100/ton Additional $50 for Desuperheater
Open Loop Water to Air Ground Source Heat Pump	<135,000 BTUH Cooling	< 11.3 cooling tons	ENERGY STAR 16.2 EER and 3.6 COP	$100/ton Additional $50 for Desuperheater
Closed Loop Water to Water Ground Source Heat Pump	<135,000 BTUH Cooling	< 11.3 cooling tons	ENERGY STAR 15.1 EER and 3.0 COP	$100/ton Additional $50 for Desuperheater
Open Loop Water to Water Ground Source Heat Pump	<135,000 BTUH Cooling	< 11.3 cooling tons	ENERGY STAR 19.1 EER and 3.4 COP	$100/ton Additional $50 for Desuperheater
Direct Geoexchange (DGX)	<135,000 BTUH Cooling	< 11.3 cooling tons	ENERGY STAR 15.0 EER and 3.5 COP	$100/ton Additional $50 for Desuperheater

Shakopee Public Utilities

2020 EFFICIENT HEATING & COOLING

Rebate Requirements & Claim Sheet

Air Cooled Chillers			
Description	**Size Range**	**Minimum AHRI Efficiency**	**Rebate**
Z	All Sizes	1.2 kW/Ton or 10.0 EER Full Load	$40/ton
Water Cooled Chillers			
Description	**Size Range**	**Minimum AHRI Efficiency**	**Rebate**
AA	<150 Ton	0.79 kW/ton full load (FL) 0.49 kW/ ton part load (IPLV)	$15/ton
BB	150 – 300 Ton	0.63 kW/ton full load (FL) 0.44 kW/ ton part load (IPLV)	$40/ton
CC	> 300 Ton	0.58 kW/ton full load (FL) 0.44 kW/ ton part load (IPLV)	$30/ton
ENERGY STAR® Window and Wall (Sleeve) AC Incentive Table			
Description	**Size Range**	**Minimum AHRI Efficiency**	**Rebate**
CC	ES Window AC < 14,000 Btu/hr	Must meet ENERGY STAR® standards	$25 each
DD	ES Window AC ≥ 14,000 Btu/hr	Must meet ENERGY STAR® standards	$30 each
EE	ES Sleeve AC < 14,000 Btu/hr	Must meet ENERGY STAR® standards	$35 each
FF	ES Sleeve AC > 14,000 Btu/hr	Must meet ENERGY STAR® standards	$40 each
Chilled Water Resets (Retrofit of Existing Equipment Only			
Description	**Size Range**	**Minimum AHRI Efficiency**	**Rebate**
GG	Chilled Water Reset Air Cooled 0-100 tons	See Page 3 for equipment requirements	$6.00/ton
HH	Chilled Water Reset Air Cooled 100-200 tons	See Page 3 for equipment requirements	$5.00/ton
II	Chilled Water Reset Air Cooled 200-300 tons	See Page 3 for equipment requirements	$3.50/ton
JJ	Chilled Water Reset Air Cooled 300-400 tons	See Page 3 for equipment requirements	$2.50/ton
KK	Chilled Water Reset Air Cooled 400-500 tons	See Page 3 for equipment requirements	$2.00/ton
LL	Chilled Water Reset Air Cooled 500-1000 tons	See Page 3 for equipment requirements	$1.00/ton
MM	Chilled Water Reset Air Cooled 1000-2000 tons	See Page 3 for equipment requirements	$0.50/ton
NN	Chilled Water Reset Air Cooled 2000-3000 tons	See Page 3 for equipment requirements	$0.35/ton
Mini Split/Ductless Air-Source Heat Pump			
Description	**Size Range**	**Minimum AHRI Efficiency**	**Rebate**
RR	Any Size	16 SEER	$200