

# HVAC Rebates



## Rebate Application

Federated Rural Electric, ATTN: Jon, P.O. Box 69, Jackson, MN 56143  
847-3520, 728-8366 or 1-800-321-3520 • beckman@federatedrea.coop

### Business Member Information

Business Name \_\_\_\_\_  
Installation Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Email \_\_\_\_\_  
Phone Number \_\_\_\_\_  
Account Number \_\_\_\_\_

### Rebate Recipient

To release the rebate incentive check to an alternate party other than the cooperative business member, the member must specify an alternative mailing address and authorize with a signature below.

#### Please Send Rebate to (check one):

- Business Member       Alternative Recipient

Recipient Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Contact Name \_\_\_\_\_

### Application Check List

- Rebate application with
- Itemized project invoices (labor &
- Equipment specifications

The undersigned does hereby certify that the undersigned is solely responsible for the accuracy of the information contained in this application. All rules of the program have been followed and the installation is complete. The undersigned acknowledges that nothing contained in the application imposes any liability on the cooperative for the work performed and information presented by the member, member's engineer, contractor, or vendor. The undersigned also authorized payment of incentive directly to the specified rebate recipient.

### Member Signature

### Date

\_\_\_\_\_

\_\_\_\_\_

Received \_\_\_\_\_



Received \_\_\_\_\_

# HVAC Rebates

## Rules & Information

### Warranty Information

Rebate qualifications do not imply any representation or warranty of such equipment, design or installation by the cooperative. The cooperative shall not be responsible or liable for any personal injury or property damage caused by this equipment. The cooperative does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program. In no event shall the cooperative be liable for any incidental or consequential damages.

### General Program Rules

1. Installation must be complete before application is submitted and funds are issued.
2. Members and vendors must submit itemized equipment invoices, rebate application, and manufacturer equipment specifications. To ensure that the equipment installed meets the cooperative's performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, as well as information regarding the manufacturer and model numbers for all equipment included in the rebate.
3. The cooperative reserves the right to conduct random inspections of installations.
4. Rebates must be applied for within 12 months of invoice date.
5. The member is responsible for checking with the cooperative to determine whether funding is available and to verify program parameters.
6. Project must comply with all program specific rules and qualifications.
7. The member is responsible for checking with the cooperative to determine funding availability and to verify program parameters.
8. Qualifying members must apply for rebates no later than November 17, 2017.

### RTUs, Split Systems, ASHP, RTU Economizers

- Only new central air conditioning units and remote condensing unit retrofits qualify. Rebuilds do not qualify
- If the efficiency rating is in SEER and the application asks for ERR,  $EER = SEER \times .855$

#### Split Systems

- Both the condensing unit and the A-coil must be purchased to qualify for this rebate.

#### Economizers

- Enthalpy controls are required to qualify for this rebate. CO<sub>2</sub> controls are optional but recommended.

### PTAC, Mini-Split, & Water-Source Heat Pumps

- Only new equipment units qualify. Rebuilds do not qualify.

### Ground-Source Heat Pump (Geothermal)

- Only new installations with a new loop fields qualify
- Replacement heat pumps with existing loop fields may qualify under the custom grant program.

# HVAC Rebates

## Rules & Information

(continued)

### Chillers, Cooling Towers, & Air Handler VAVs

#### Chillers

1. No rebates will be provided for back-up systems. Back-up systems are defined as a separate chiller that is required only when a primary chiller fails.
2. The basis for the rebate efficiency level will be design conditions and chiller efficiency data as contained in the manufacturer specifications.
3. Use the Full-Load Efficiency for the base rebate on centrifugal chillers  $\geq 150$  tons.

#### Cooling Towers

1. Rebate is paid per nominal tower ton.
2. Only new towers for electric chillers are eligible.
3. For purposes of determining rebate eligibility, design condensing water flow rate must be 3.0 gallons per minute per ton.
4. the design condensing water temperature to the chiller must be 84°F or less.
5. Cooling tower size must be larger than that which would be used to achieve a design condensing water temperature to the chiller of 85°F at wet bulb temperature of 78°F.
6. The brake horsepower per cell of tower fans must not increase as compared to the tower which would deliver 85°F design condensing water temperature.
7. The motors used in the cooling tower fans must meet the cooperative's NEMA Premium Efficient Motor program standards. See Premium Efficient Motor Rebate application.

#### Air Handler Variable Air Volume (VAV) box

1. Rebate is paid per VAV box. One box serves each air handling unit zone.
2. The installation may be new or retrofit applications. Baseline VAV model compares air-handling zone which is being converted from constant volume.
3. The zone must be air conditioned by electric cooling equipment.
4. Only new VAV boxes (without fans) for retrofit applications qualify.
5. Supply and return fans (if return fans are used) serving the VAV zones must be equipped with Variable Frequency Drives (VFD).
6. Appropriate controls must be included to reduce fan energy usage.
7. The motors and/or VFDs for air handling fans must meet the cooperative's NEMA Premium Efficient Motor and VFD program standards. See Premium Efficient Motor Rebate and VFD Rebate applications.

# HVAC Rebates

## RTU, Split System, ASHP, & Economizers

Minimum Qualifying Criteria					
Equipment Type	Unit Tons	EER	iEER	Base Rebate \$/ton	Incremental rebate, \$/ton per 0.1
<b>Roof top Units (RTU)</b>					
≤ 65,000 Btuh	< 5.4	13.5 SEER	13.5	\$18.00	\$5.00
≥ 65,000 - < 135,000	5.5 - 11.3	10.8	13.0		
≤ 135,000 - < 240,000	11.4 - 19.9	10.7	13.0		
≤ 240,000 - < 760,000	20.0 - 63.3	10.2	12.0		
≥ 760,000	≥ 63.3	9.6	12.0		
<b>Split Systems</b>					
≤ 65,000	< 5.4	13.5 SEER		\$18.00	\$5.00
≥ 65,000 - < 135,000	5.5 - 11.3	10.8			
≥ 135,000 - ≤ 250,000	11.4 - 19.9	10.7			
<b>Air Source Heat Pumps</b>			<b>HSPF</b>		
≤ 65,000	< 5.4	13 SEER	7.7	\$200.00	\$5.00
≥ 65,000 - < 135,000	5.5 - 11.3	10.1	8.5		
≥ 135,000 - ≤ 250,000	11.4 - 20	9.3	8.5		
<b>Condensers</b>					
> 65,000 - < 135,000	5.5 - 11.3	10.8 SEER		\$18.00	\$5.00
≥ 135,000	≥ 11.4	10.7			
<b>RTU Economizers</b>		Enthalpy controlled		\$13 / Ton	

### Roof top Units (RTU)/Split Systems

Manufacturer	Model	Tonnage	Efficiency	Min Efficiency	Quantity

Rebate
\$0.00
\$0.00
\$0.00

Rebate = (\$18\*tonnage)+(\$5\*tonnage\*(Eff - Min Eff)\*10)\*Qty

### Air Source Heat Pump (ASHP)

Manufacturer	Model	Tonnage	Efficiency	Min Efficiency	Quantity

Rebate
\$0.00
\$0.00
\$0.00

Rebate = (\$200\*tonnage)+(\$5\*tonnage\*(Eff - Min Eff)\*10)\*Qty

### RTU Economizers

Manufacturer	Tonnage	Quantity	Enthalpy*	CO <sub>2</sub> **

Rebate
\$0.00
\$0.00
\$0.00

\*Must be Enthalpy Controlled to qualify for Economizer rebate

\*\*CO<sub>2</sub> Controls optional

Project Cost  
Total Rebate

\$0.00

# HVAC Rebates

## A/C Tune Up

### HVAC Contractor

Company Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State Zip \_\_\_\_\_  
Phone \_\_\_\_\_  
Contact Name \_\_\_\_\_

### Equipment Information

\$25 per unit rebate					
Manufacturer	Model	Year	# Units	SEER or EER	Tonnage

Rebate

### A/C Tune Up Requirements

- air conditioner must be in operating condition
- unit must be more than three years old and not had a tune-up in the last two years
- check points required for rebate
  - √ clean condensor coil
  - √ check refrigerant level
  - √ check refrigerant pressure
  - √ check indoor filter
  - √ check belt
  - √ lube motor, if needed
  - √ test controls
  - √ blow out drain lines
  - √ visual inspection of entire system
  - √ discuss proper O&M with owner

# HVAC Rebates

Packaged Terminal Air Conditioners,  
Mini-Split, Water Source Heat Pump

Minimum Qualifying Criteria			
	EER / C.O.P.	Base Rebate, \$/ton	Incremental rebate, \$/ton per 0.1 EER above base
<b>Packaged Terminal Air Conditioners (PTAC)</b> With electric resistance heating With heat pump heating*	10.0	\$10.00	\$1.75
	10.0 / 2.5		\$3.50
<b>Mini-Split</b> With electric resistance heating With heat pump heating*	13.0	\$200.00	\$0
	13.0 / 2.5	\$300.00	
<b>Water-Source Heat Pumps with C.O.P. ≥ 4.1</b>	12.0	\$13.00	\$1.30

EER - Energy Efficiency Ratio (Btu/Watt)

C.O.P. - Coefficient of Performance

## PTAC w/ Resistance Heating

Manufacturer	Model	# of Units	Tons/unit	EER	COP	Rebate
						\$0.00
						\$0.00

## PTAC Heat Pump w/ Resistance Heating

Manufacturer	Model	# of Units	Tons/unit	EER	COP	Rebate
						\$0.00
						\$0.00

## Mini-Split A/C w/ Resistance Heating

Manufacturer	Model	# of Units	Tons/unit	EER	COP	Rebate
						\$0.00
						\$0.00

## Mini-Split Heat Pump w/ Resistance Heating

Manufacturer	Model	# of Units	Tons/unit	EER	COP	Rebate
						\$0.00
						\$0.00

## Water-Source Heat Pump

Manufacturer	Model	# of Units	Tons/unit	EER	COP	Rebate
						\$0.00
						\$0.00

Project Cost	
<b>Total Rebate</b>	<b>\$0.00</b>



# HVAC Rebates

## Ground Source Heat Pump (Geothermal Heat Pump)

Minimum Qualifying Criteria				
Equipment Type	Minimum Efficiency		Rebate \$/ton	Specific Rules
	EER	C.O.P.		
<b>Geothermal Heat Pumps</b>	EER	C.O.P.		
Closed Loop	≥ 13.4	≥ 3.1	\$350	ISO 13256-1 (EWT @ 32° F Heat & 77° F Cooling)
Open Loop	≥ 16.2	≥ 3.6		ISO 13256-1 (EWT @ 50° F heat & 59 ° F Cooling)

EER - Energy Efficiency Ratio (Btu/Watt)    C.O.P. - Coefficient of Performance

### Ground Source Heat Pump

Manufacturer	Model Number	EER	COP	# Units	Tons/unit	Rebate
						\$0
						\$0
						\$0

Project Cost   
**Total Rebate**

### Required Information

Building Square Footage \_\_\_\_\_  
 Earth Loop Specifications \_\_\_\_\_  
 Heat Output (BTUs) \_\_\_\_\_  
 Contractor \_\_\_\_\_  
 Architect \_\_\_\_\_  
 Mechanical Engineer \_\_\_\_\_

# HVAC Rebates

Chillers, Cooling Tower &  
Air Handling VAVs

Minimum Qualifying Criteria			
Equipment Type Unit Tons	Base Efficiency	Base Rebate, \$/ton	Incremental rebate \$/ton per .1 SEER/EER
Air Cooled Chillers	FLV - EER IPLV - SEER 9.70 13.00	\$10.00	\$2.00
Water Cooled Chillers	FLV (kW/Ton)		Incremental rebate \$ per 0.01 kW/ton
< 150 Tons (centrifugal)	0.74	\$20.00	\$2.00
≥ 150 Tons (centrifugal)	0.66		
< 150 Tons (screw/scroll)	0.74		
≥ 150 Tons (screw/scroll)	0.66		
<b>Cooling Towers</b>		\$3 / nominal tower ton	
<b>Air Handling Systems (VAV)</b>		\$170 / VAV Box	

FLV - Fully Loaded Value

## Air Cooled Chillers

Manufacturer	Model	# of Units	Tons/Unit	Base Eff	Eff	Rebate
						\$0.00
						\$0.00

## Water Cooled Chillers < 150 Tons

Manufacturer	Model	# of Units	Tons/Unit	Base FLV	FLV	Type	Rebate
							\$0.00
							\$0.00

## Water Cooled Chillers ≥ 150 Tons

Manufacturer	Model	# of Units	Tons/Unit	Base FLV	FLV	Type	Rebate
							\$0.00
							\$0.00

## Cooling Tower

Manufacturer	# of Units	Tonnage	Rebate
			\$0.00
			\$0.00

## Air Handling Systems (VAVs)

Manufacturer	# of Units	CFM	Rebate
			\$0.00
			\$0.00

Project Cost	
<b>Total Rebate</b>	<b>\$0.00</b>