

# 2020 HVAC Rebates



## Rebate Application

Federated Rural Electric, ATTN: Jon, P.O. Box 69, Jackson, MN 56143

847-3520 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 signature  
 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.

**Rebate applications due no later than November 16, 2020.**

Member Signature

Date

\_\_\_\_\_

\_\_\_\_\_

Received \_\_\_\_\_

Reviewed \_\_\_\_\_

# 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. Project must comply with all program specific rules and qualifications.
6. The member is responsible for checking with the cooperative to determine funding availability and to verify program parameters.

### 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 EER and the application asks for SEER,  $SEER = EER / 0.875$

#### 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)

- New installations with a new loop field and replacement units with existing loop fields qualify
- Only closed loop systems qualify

# 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.

#### 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.

# 2020 HVAC Rebates

RTU, Split System, ASHP, & Economizers

| Minimum Qualifying Criteria  |             |                     |                     |                                    |                      |                                    |     |
|------------------------------|-------------|---------------------|---------------------|------------------------------------|----------------------|------------------------------------|-----|
| Equipment Type               | Unit Tons   | Base Rebate \$/ton  | EER <sub>base</sub> | Incremental Rebate, \$/ton per 0.1 | iEER <sub>base</sub> | Incremental Rebate, \$/ton per 0.1 |     |
| <b>Rooftop Units (RTU)</b>   |             |                     |                     |                                    |                      |                                    |     |
| ≤ 65,000 Btuh                | < 5.4       | \$18.00             | 13.5 SEER           | \$3.00                             | n/a                  | n/a                                |     |
| ≥ 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       | \$10.00             | 13.5 SEER           | \$3.00                             |                      | \$1.00                             |     |
| ≥ 65,000 - < 135,000         | 5.5 - 11.3  |                     | 10.8                |                                    |                      |                                    |     |
| ≥ 135,000 - ≤ 250,000        | 11.4 - 19.9 |                     | 10.7                |                                    |                      |                                    |     |
| <b>Condensers</b>            |             |                     |                     |                                    |                      |                                    |     |
| > 65,000 - < 135,000         | 5.5 - 11.3  | \$10.00             | 10.8                | \$3.00                             | 13.0                 | \$1.00                             |     |
| ≥ 135,000                    | ≥ 11.4      |                     | 10.7                |                                    | 13.0                 |                                    |     |
| <b>Air Source Heat Pumps</b> |             |                     |                     |                                    |                      |                                    |     |
| ≤ 65,000                     | < 5.4       | \$200.00            | 13 SEER             | HSPF                               | 7.7                  | n/a                                | n/a |
| ≥ 65,000 - < 135,000         | 5.5 - 11.3  |                     | 10.1                | 8.5                                | 13.0                 | \$1.00                             |     |
| ≥ 135,000 - ≤ 250,000        | 11.4 - 19.9 |                     | 9.3                 | 8.5                                | 13.0                 |                                    |     |
| <b>Economizers</b>           |             | Enthalpy controlled |                     | \$10 / Ton                         |                      |                                    |     |

| Rooftop Units, Split Systems, & Condensers |     |                  |     |                   |      |          |        |
|--|-----|------------------|-----|-------------------|------|----------|--------|
| Manufacturer                               | Ton | EER <sub>b</sub> | EER | iEER <sub>b</sub> | iEER | Quantity | Rebate |
|  |     |                  |     |                   |      |          | \$0.00 |
|  |     |                  |     |                   |      |          | \$0.00 |
|  |     |                  |     |                   |      |          | \$0.00 |
|  |     |                  |     |                   |      |          | \$0.00 |

| Air Source Heat Pumps |     |                  |     |                   |      |          |        |
|-----------------------|-----|------------------|-----|-------------------|------|----------|--------|
| Manufacturer          | Ton | EER <sub>b</sub> | EER | HSPF <sub>b</sub> | HSPF | Quantity | Rebate |
|                       |     |                  |     |                   |      |          | \$0.00 |
|                       |     |                  |     |                   |      |          | \$0.00 |
|                       |     |                  |     |                   |      |          | \$0.00 |

| Manufacturer | Ton | 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

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

| Minimum Qualifying Criteria   |                            |                             |                               |
|---|----------------------------|-----------------------------|-------------------------------|
|   | EER / COP                  | \$/ton                      | \$/ton per 0.1 EER above base |
| <b>Packaged Terminal Air Conditioners (PTAC)</b><br>With electric resistance heating<br>With heat pump heating* | 10.0                       | \$10.00                     | \$1.75                        |
|   | 10.0 / 2.5                 |                             | \$3.50                        |
| <b>Mini-Split</b><br>With electric resistance heating<br>With heat pump heating*                                | <b>SEER / HSPF</b><br>13.0 | <b>per unit</b><br>\$200.00 | \$0                           |
|   | 13.0 / 7.7                 | \$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  |
|--------------|-------|------------|-----------|------|-----|---------|
|              |       | 2          | 1.5       | 10.5 |     | \$56.25 |
|              |       |            |           |      |     | \$0.00  |

| 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. | New           | Replace |   |
| <b>Geothermal Heat Pumps</b> |                    |        |               |         |   |
| Closed Loop                  | ≥ 13.4             | ≥ 3.1  | \$350         | \$350   | ISO 13256-1<br>(EWT @ 32° F Heat & 77° F Cooling) |
| Open Loop                    | ≥ 16.2             | ≥ 3.6  |               |         | ISO 13256-1<br>(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 EER  |
| <b>Air Cooled Chillers</b><br><small>*must meet both FLV &amp; IPLV min eff, rebate based on EER</small>                                       | *FLV - EER<br>9.70      *IPLV - SEER<br>13.00 | \$10.00             | \$2.00                                |
| <b>Water Cooled Chillers</b><br>< 150 Tons (centrifugal)<br>≥ 150 Tons (centrifugal)<br>< 150 Tons (screw/scroll)<br>≥ 150 Tons (screw/scroll) | FLV (kW/Ton)<br>0.74                          | \$20.00             | Incremental rebate \$ per 0.01 kW/ton |
|  |   |                     | \$2.00                                |
|  | 0.66  |                     |                                       |
|  | 0.74  |                     |                                       |
| <b>Variable Air Volume (VAV) Box</b>   |   | \$70 / Box          |                                       |

FLV - Fully Loaded Value

### Air Cooled Chillers

| Manufacturer | Model | # of Units | Tons/Unit | Base Eff | EER Eff | IPLV | Rebate |
|--------------|-------|------------|-----------|----------|---------|------|--------|
|              |       |            |           | 9.7      |         |      | \$0.00 |
|              |       |            |           | 9.7      |         |      | \$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 |

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

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