



**2009 Commercial, Industrial & Agricultural Cooling Program  
Chiller, Cooling Towers, Air Handling VAV's Rebate Application**

Connexus Energy, 14601 Ramsey Blvd., Ramsey, MN 55303, 763-323-2600

**Business Name:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_ **Phone** \_\_\_\_\_

\_\_\_\_\_

**Installation Address:** \_\_\_\_\_  
(if different from above) \_\_\_\_\_

**Account Number:** \_\_\_\_\_

**Contact Name:** \_\_\_\_\_ **Phone** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Co-op Rep:** \_\_\_\_\_ **Date** \_\_\_\_\_

**Qualifying Customers:** Applicable to commercial, industrial and agricultural customers of Connexus Energy.

**Rebate Program:** Connexus Energy offers rebates to our customers who purchase and install qualifying energy-efficient cooling and air-handling products in existing buildings. If the system configuration does not fit one of the prescriptive rebates shown, the project may still qualify for a rebate through the Custom Energy Rebate program. The Custom Energy Rebate requires prior review and approval by Connexus Energy.

**Warranty Information:** Rebate qualifications do not imply any representation or warranty of such equipment, design, or installation by Connexus Energy. Connexus Energy shall not be responsible or liable for any personal injury or property damage caused by this equipment. Connexus Energy 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 Connexus Energy be liable for any incidental or consequential damages.

**Other Important Program Rules**

1. Installation must be complete before funds will be issued for the rebate.
2. Customers and vendors must submit itemized equipment invoices along with rebate applications, and worksheet to Connexus Energy. To ensure that the equipment installed meets Connexus Energy's performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, recycling fees, and information regarding the manufacturer and model numbers for all equipment included in the rebate.
3. Connexus Energy reserves the right to conduct random inspections of installations.
4. The customer is responsible for checking with Connexus Energy to determine whether funding is available and to verify program parameters.
5. Rebate must comply with all program specific rules and qualifications.
6. Qualifying customers must apply for Year 2009 rebates no later than November 30, 2009.
7. The maximum rebate amount shall be the lesser of 50% of the project cost or \$100,000 (\$150,000 for retrofit projects with prior approval from Connexus Energy).

**The undersigned does hereby certify that:**

- 1) The undersigned, and not Connexus Energy, is solely responsible for the accuracy of the information contained
- 2) All rules of the rebate program have been followed
- 3) The installation is complete.
- 4) The undersigned acknowledges that nothing contained in the application shall impose any liability on Connexus Energy for the work performed and information presented by the customer's engineer, contractor, or vendor.

**Customer Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

### **Commercial / Industrial Cooling Rebate Program Guidelines**

1. Documents establishing proof-of-purchase (invoice) must be furnished when the original rebate application is completed. On the documents establishing proof-of-purchase, circle the energy-saving product(s) for which a rebate is requested and attach to the original application. If not indicated on the invoice, please add the number of units installed, manufacturer, model number and capacity (in tons).
2. Submit the manufacturer's data sheets with the rebate application. The sheets must show efficiency ratings in accordance with the most recent ARI Standards (design conditions for chillers) and must contain efficiency information for the following:
  - Chillers - kW/Ton
3. Only new and complete central air conditioning units, water chillers, and remote condensing unit retrofits qualify. Rebuilds do not qualify.
4. The new equipment must use a minimum ozone depleting refrigerant.
5. Customers should use a separate form for each size category of equipment to facilitate calculations.
6. Rebates for air-cooled equipment are limited to 150 tons per account. Larger total capacities must use Connexus Energy's Custom Energy Rebate program. Air cooled chillers are not eligible for rebates.
7. If the efficiency rating is stated in SEER where the application asks for EER, multiply the SEER by 0.855 to calculate EER rating.

### **Chiller Rules**

1. No rebates will be provided for back-up systems. Back-up systems are defined as a separate chiller that is required only when one of the primary chillers fail.
2. The basis for the rebate efficiency level will be design conditions and chiller efficiency data as contained in the vendor's data.
3. Customers can use either the standard rebate (i.e. based on full-load efficiency) or part-load rebate formula for centrifugal chillers  $\geq 150$  tons.

### **Heat Rejection Rules (oversized 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. Design condensing water temperature to 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 78 wb.
6. Customers should use a separate form for each size category of equipment to facilitate calculations.
7. 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.
8. The motors used in the cooling towers fans must meet Connexus Energy's NEMA Premium Efficient Motor program standards. See Premium Efficient Motor Rebate application.

### **Air Handling Rules (Variable Air Volume (VAV) Conversion)**

1. Rebate is paid per VAV box. One box serves each air handling unit zone.
2. The installation must be in an existing 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 may qualify.
5. Supply and return fans (if return fans are used) serving the VAV zones must be equipped with adjustable speed drives.
6. Appropriate controls to reduce fan energy usage must be included.
7. The motors and/or adjustable speed drives for air handling fans must meet Connexus Energy's NEMA Premium Efficient Motor and Adjustable Speed Drive program standards. See Premium Efficient Motor Rebate and Adjustable Speed Drive Rebate applications.

### **Notes:**

- Connexus Energy retains the right to make adjustments to correct incentive calculations if necessary. Energy savings calculations are estimates and may vary from actual results.



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Minimum Qualifying Criteria						
Equipment Type Unit Tons	Minimum Efficiency		Base Rebate, \$/ton	Incremental Rebate, \$/ton per 0.010 kW/ton below base	Specific Rules	
<b>Chillers</b>	FLV Efficiency kW/Ton	NPLV Efficiency kW/Ton			Chiller rebates are based on design conditions	
	< 150 Tons	≤ 0.65	-	\$26.00	\$6.50	Include design conditions with invoice
	≥ 150 Tons	≤ 0.60	-	\$26.00	\$6.50	
≥ 150 Tons	≤ 0.60	≤ 0.56	\$22.75	\$2.60		
<b>Cooling Towers</b>	Over-sized only		\$3/nominal tower ton			
<b>Air Handling Systems (VAV)</b>	Replace Constant Volume		\$200/VAV Box			

FLV - Base Full Load Value ( kW/ton)

NPLV - Non-Standard Part Load Value (kW/ton)

Chillers < 150 tons (Centrifugal or Screw)							
Manufacturer	Model No.	# of Units	Tons/Unit	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate

Example = [Base Rebate \$20 x Tons/Unit] + [Increm Eff Rebate \$5 X (Min. Qualifying kW/Ton from table - equip kW/Ton from vendor)/.01 x Tons] X No. of Units

Rebate must comply with all program specific rules and qualifications.	<b>Chillers &lt; 150 tons</b>	Subtotal	
		Project Cost	
		Rebate	

Chillers ≥ 150 tons (Centrifugal or Screw)							
Manufacturer	Model No.	# of Units	Tons/Unit	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate

Example = [Base Rebate \$20 x Tons/Unit] + [Increm Eff Rebate \$5 X (Min. Qualifying kW/Ton from table - equip kW/Ton from vendor)/.01 x Tons] X No. of Units

Rebate must comply with all program specific rules and qualifications.	<b>Chillers ≥ 150 tons</b>	Subtotal	
		Project Cost	
		Rebate	

Chillers ≥ 150 tons (Centrifugal Only - NPLV)							
Manufacturer	Model No.	# of Units	Tons/Unit	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate

Example = [Base Rebate \$17.50 x Tons/Unit] + [Increm Eff Rebate \$2 X (Min. Qualifying kW/Ton from table - equip kW/Ton from vendor)/.01 x Tons] X No. of Units

Rebate must comply with all program specific rules and qualifications.	<b>Chillers ≥ 150 tons</b>	Subtotal	
		Project Cost	
		Rebate	

Cooling Towers				
Manufacturer	Number of Units	Tons/Unit	Base Rebate	Rebate

Rebate must comply with all program specific rules and qualifications.	<b>Cooling Towers</b>	Subtotal	
		Project Cost	
		Rebate	

Air Handling Systems (VAV's)				
Manufacturer	Number of Units	Base Rebate	Rebate	

Rebate must comply with all program specific rules and qualifications.	<b>Air Handling Systems</b>	Subtotal	
		Project Cost	
		Rebate	