

Chillers, Cooling Towers, Air Handling VAVs



2012 Rebate Application

Connexus Energy
14601 Ramsey Blvd NW
Ramsey, MN 55303
ConnexusEnergy.com
763.323.2600

Business Member Information

Company name _____ Date submitted _____
 Billing address _____ City _____ State _____ ZIP _____
 Installation address (if different) _____ City _____ State _____ ZIP _____
 Account number _____
 Contact name (print) _____ Phone _____
 E-mail _____

Vendor Information

Vendor name _____ Vendor contact name _____
 Vendor address _____ City _____ State _____ ZIP _____
 Phone _____ Fax _____
 E-mail _____

The undersigned does hereby certify that 1) The undersigned, and not the cooperative, is solely responsible for the accuracy of the information contained in this application, 2) all rules of the Chillers, Cooling Towers, Air Handling VAVs Rebate program have been followed, and 3) the installation is complete. Further, the undersigned acknowledges that nothing contained in the application shall impose any liability on the cooperative for the work performed and information presented by the member's engineer, contractor or vendor. Connexus Energy will be referred to hereafter in this application as "the cooperative".

I verify the information on this application is correct and request consideration for participation in this program.

Member signature _____ Date _____

How to Apply for This Rebate

1. Fill out and sign the Business and Vendor Information sections, page 1.
2. Fill out the Project – Equipment and Rebate Information section, pages 4-7.
3. Attach a copy of the paid, itemized invoice(s). Be sure that the quantity, make, model number, and unit price appears on the invoice. Sending inadequate invoice documentation or incomplete/incorrect forms will delay the rebate payment.
4. Make a copy of this document for your records.
5. Mail completed form by November 16 to Connexus Energy 14601 Ramsey Blvd, Ramsey, MN 55303.

Application # _____



Specific Rules and Qualifications

1. On the documents establishing proof-of-purchase, circle the energy-saving products 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. Rebates for air-cooled equipment are limited to 150 tons per account. Larger total capacities must use the cooperative's custom rebate program.
6. 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 a primary chiller fails.
2. The basis for the rebate efficiency level will be design conditions and chiller efficiency data as contained in the vendor's data.
3. Members can use either the standard rebate (i.e. based on full-load efficiency) or part-load rebate formula for centrifugal chillers ≥ 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 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 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 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 may 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 to reduce fan energy usage must be included.
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.

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.

Other Important Program Rules

1. Evaluation must be complete before funds will be issued for the rebate.
2. Members and vendors must submit itemized equipment invoices, along with rebate application and worksheet, to the cooperative. 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. The member is responsible for checking with the cooperative to determine whether funding is available and to verify program parameters.
5. Rebate must comply with all program specific rules and qualifications on page 2.
6. Qualifying members must apply for 2012 rebates no later than November 16, 2012.

Air Cooled Chillers – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EEER	Specific Rules
Air Cooled Chillers	FLV-EER 9.70 IPLV-SEER 12.00	\$10.00	\$2.00	Chiller rebates are based on design conditions

FLV – Base Full Load Value (kW/ton) IPLV – Integrated Part Load Value (kW/ton)

Air Cooled Chillers – Required Information

Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	EER / SEER	Base Rebate	Incremental Eff. Rebate	Rebate	
						\$	\$	\$	
						\$	\$	\$	
Example of Total Rebate = [Base Rebate \$10 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table – equipment kW/Ton from vendor)/.01 x Tons] X Number of Units								Project Cost Rebate	\$

Rebate must comply with all program specific rules and qualifications.

Water Cooled Chillers < 150 Tons (Centrifugal) – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EEER	Specific Rules
Water Cooled Chillers < 150 Tons (centrifugal)	FLV Efficiency kW/Ton IPLV Efficiency kW/Ton ***ASHRAE 90.1***	\$20.00	\$2.00	Chiller rebates are based on design conditions Must improve on ASHRAE 90.1

Water Cooled Chillers < 150 tons (Centrifugal) – Required Information

Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate	
						\$	\$	\$	
						\$	\$	\$	
Example of Total Rebate = [Base Rebate \$20 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table – equipment kW/Ton from vendor)/.01 x Tons] X Number of Units								Project Cost Rebate	\$

Rebate must comply with all program specific rules and qualifications.

Water Cooled Chillers ≥ 150 Tons (Centrifugal) – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EER	Specific Rules
Water Cooled Chillers ≥ 150 Tons (centrifugal)	FLV Efficiency kW/Ton ***0.016 kW/Ton*** IPLV Efficiency kW/Ton	\$20.00	\$2.00	Chiller rebates are based on design conditions 2004 baseline by 0.016 kW/ton

Water Cooled Chillers ≥ 150 tons (Centrifugal) – Required Information

Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying	kW/Ton	Base Rebate	Incremental	Rebate
						\$	\$	\$
						\$	\$	\$
						Project Cost Rebate		
						\$		

Example of Total Rebate = [Base Rebate \$20 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table – equipment kW/Ton from vendor)/.01 x Tons] X Number of Units

Rebate must comply with all program specific rules and qualifications.

Water Cooled Chillers < 150 Tons (screw/scroll) – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EER	Specific Rules
Water Cooled Chillers < 150 Tons (screw/scroll)	FLV Efficiency kW/Ton 0.74 IPLV Efficiency kW/Ton 0.63	\$18.00	\$2.00	Chiller rebates are based on design conditions 0.74 FLV kW/ton, 0.63 IPLV kW/ton

Water Cooled Chillers < 150 tons (Screw/Scroll) – Required Information

Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate
						\$	\$	\$
						\$	\$	\$
						Project Cost Rebate		
						\$		

Example of Total Rebate = [Base Rebate \$18 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table – equipment kW/Ton from vendor)/.01 x Tons] X Number of Units

Rebate must comply with all program specific rules and qualifications.

Chiller, Cooling Towers, Air Handling VAVs 2012 Rebate Application



Water Cooled Chillers ≥ 150 Tons (screw/scroll) – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EER	Specific Rules
Water Cooled Chillers ≥ 150 Tons (screw/scroll)	FLV Efficiency kW/Ton 0.67	\$18.00	\$2.00	Chiller rebates are based on design conditions 0.67 FLV kW/ton, 0.58 IPLV kW/ton
	IPLV Efficiency kW/Ton 0.58			

Water Cooled Chillers ≥ 150 tons (screw/scroll) – Required Information

Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate	
						\$	\$	\$	
						\$	\$	\$	
Project Cost									
Rebate									\$

Example of Total Rebate = [Base Rebate \$18 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table – equipment kW/Ton from vendor)/01 x Tons] X Number of Units

Rebate must comply with all program specific rules and qualifications.

Cooling Towers – Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EER	Specific Rules
Cooling Towers	Over-sized only	\$3/nominal tower ton		

Cooling Towers – Required Information

Manufacturer	Number of Units	Number of Tons	Rebate \$3 X # Tons X # Units
			\$
			\$
Project Cost			
Rebate			\$

Rebate must comply with all program specific rules and qualifications.

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Air Handling Systems (VAV's) Minimum Qualifying Criteria

Equipment Type Unit Tons	Minimum Efficiency	Base Rebate \$/ton	Incremental Rebate \$/ton per 0.01 kW/ton SEER/EER	Specific Rules
Air Handling Systems (VAV)	N/A	\$170/VAV Box		Must be controlled and operated with VFD and premium motor

Air Handling Systems (VAV's) – Required Information

Manufacturer	Number of Units	CFM	Rebate = \$200 X # Units
			\$
			\$
		Project Cost	
		Rebate	\$

Rebate must comply with all program specific rules and qualifications.

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.
See page 2 for chiller rebate rules and specific guidelines.

Important: A copy of this completed application form and an invoice(s) is required before Connexus Energy issues incentives.

Connexus Energy

Date