



Chillers, Cooling Towers, Air Handling VAVs 2012 Rebate Application

Elk River Municipal Utilities, PO Box 430, Elk River, MN 55330 Ph: 763-441-2020

Business Customer Information

Company name _____
Billing address _____ Phone _____
City _____ State _____ ZIP _____
Installation address _____
(if different from above) _____
Account number _____
Contact name _____ Phone _____
Email _____

Vendor Information

Vendor name _____
Vendor address _____
City, State, ZIP _____
Vendor Contact Name _____ Phone _____
Email _____

The undersigned does hereby certify that 1) The undersigned, and not Elk River Municipal Utilities (ERMU), 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 ERMU for the work performed and information presented by the customer's engineer, contractor or vendor.

Customer signature _____ Date _____

How to Apply for This Rebate

1. Fill out this rebate application. All information needs to be supplied before a rebate check can be issued. Please note all warranty information, rules, and qualifications on the rules and information tabs of this form.
2. Complete and e-mail this form to tsagstetter@elkriverrutilities.com.
3. Call Tom Sagstetter at 763-635-1332 with questions.

Application # _____

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Specific Rules and Qualifications

1. Documents establishing proof-of-purchase (invoice) must be furnished when the original rebate application is completed.
2. 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).
3. 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
4. Only new and complete central air conditioning units, water chillers, and remote condensing unit retrofits qualify. Rebuilds do not qualify.
5. The new equipment must use a minimum ozone depleting refrigerant.
6. Rebates for air-cooled equipment are limited to 150 tons per account. Larger total capacities must use ERMU's Custom Energy Grant Rebate program.
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 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. Customers 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 ERMU'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 ERMU's NEMA Premium Efficient Motor and VFD program standards. See Premium Efficient Motor Rebate and VFD

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Warranty Information

Rebate qualifications do not imply any representation or warranty of such equipment, design or installation by ERMU. ERMU shall not be responsible or liable for any personal injury or property damage caused by this equipment. ERMU 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 ERMU 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. Customers and vendors must submit itemized equipment invoices, along with rebate application and worksheet, to ERMU. To ensure that the equipment installed meets ERMU'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. ERMU will conduct both preconstruction and postconstruction inspections of installations. Call 763-635-1332 to schedule.
4. The customer is responsible for checking with ERMU to determine whether funding is available and to verify program parameters.
5. Project must comply with all program specific rules and qualifications.
6. The maximum rebate amount shall be the lesser of 50 percent of the project cost or \$100,000.
7. Qualifying customers must apply for 2012 rebates no later than November 16, 2012.

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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 Cooled Chillers	FLV - EER	IPLV - SEER	\$10.00	\$2.00	Chiller rebates are based on design conditions
	9.70	12.00			
Water Cooled Chillers	Efficiency	Efficiency			Chiller rebates are based on design conditions
< 150 Tons (centrifugal)			\$20.00	\$2.00	Must improve on ASHRAE 90.1 2004 baseline by 0.016 kW/ton 0.74 FLV kW/ton, 0.63 IPLV kW/ton 0.67 FLV kW/ton, 0.58 IPLV kW/ton
≥ 150 Tons (centrifugal)			\$20.00	\$2.00	
< 150 Tons (screw/scroll)	0.74	0.63	\$18.00	\$2.00	
≥ 150 Tons (screw/scroll)	0.67	0.58	\$18.00	\$2.00	
Cooling Towers	Over-sized only		\$3/nominal tower ton		
Air Handling Systems (VAV)			\$170/VAV Box		Must be controlled and operated with VFD and premium motor

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

Air Cooled Chillers								
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 - equip kW/Ton from vendor)/.01 x Tons] X Number of Units								
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Chillers < 150 tons (Centrifugal)								
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 - equip kW/Ton from vendor)/.01 x Tons] X Number of Units								
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Chillers ≥ 150 tons (Centrifugal)								
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 - equip kW/Ton from vendor)/.01 x Tons] X Number of Units								
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Chillers < 150 tons (screw/scroll)								
Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
Example of Total Rebate = [Base Rebate \$18 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table - equip kW/Ton from vendor)/.01 x Tons] X Number of Units								
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Chillers ≥ 150 tons (screw/scroll)								
Manufacturer	Model No.	# of Units	Tons/Unit	Minimum Qualifying Efficiency	kW/Ton	Base Rebate	Incremental Eff. Rebate	Rebate
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
Example of Total Rebate = [Base Rebate \$18 x Tons/Unit] + [Incremental Efficiency Rebate \$2 X (Min. Qualifying kW/Ton from table - equip kW/Ton from vendor)/.01 x Tons] X Number of Units								
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Cooling Towers				Number of Units		Number of Tons		Rebate = \$3 X # Tons X # Units
Manufacturer								\$ -
								\$ -
								\$ -
								\$ -
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								
Air Handling Systems (VAV's)				Number of Units		CFM		Rebate = \$170 X # Units
Manufacturer								\$ -
								\$ -
								\$ -
						Project Cost		
						Rebate \$ -		
Rebate must comply with all program specific rules and qualifications.								

Elk River Municipal Utilities 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 1 for chiller rebate rules and specific guidelines.

Important: A copy of this completed application form and an invoice(s) is required before Elk River Municipal Utilities issues incentives.

Elk River Municipal Utilities

Date