





## PRESCRIPTIVE APPLICATION FOR NON-LIGHTING MEASURES FOR BUSINESS CUSTOMERS



<b>A. Central Packaged and Split System Air Conditioning (including Rooftop Units)</b>						
For split systems, the indoor coil and condenser must be a matched set to be eligible.						
Description	Size	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
<65,000 BTUH (1 ph)	< 5.4 tons	14.0 SEER	\$30.00			
<65,000 BTUH (3 ph)	<5.4 tons	11.6 EER	\$30.00			
65,000 – 134,000 BTUH	5.4—11.3 tons	11.5 EER	\$40.00			
135,000 – 239,000 BTUH	11.4—20.0 tons	11.5 EER	\$40.00			
240,000 – 759,000 BTUH	20.1—63.3 tons	10.5 EER	\$40.00			
<b>TOTAL INCENTIVE FOR SECTION A:</b>						

<b>B. Central Packaged and Split System Air Source Heat Pumps (including Rooftop Units)</b>						
For split systems, the indoor coil and condenser must be a matched set to be eligible.						
Description	Size	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)
<65,000 BTUH (1 ph)	<5.4 tons	14.0 SEER	\$30.00			
<65,000 BTUH (3 ph)	<5.4 tons	11.6EER	\$30.00			
65,000 – 134,000 BTUH	5.4—11.3 tons	11.5 EER	\$40.00			
135,000 – 239,000 BTUH	11.4—20.0 tons	11.5 EER	\$40.00			
240,000 – 759,000 BTUH	> 20.0 tons	10.5 EER	\$40.00			
<b>TOTAL INCENTIVE FOR SECTION B:</b>						

<b>C. Air Cooled Chillers</b>						
Description (Size)	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)	
All Sizes	1.2 kW/Ton Full Load	\$40.00				
<b>TOTAL INCENTIVE FOR SECTION C:</b>						

<b>D. Water Cooled Chillers</b>						
Qualifying units must meet listed full and part load efficiencies.						
Description (Size)	Minimum ARI Efficiency	Incentive Per Ton	Tons	Qty	Total Incentive (Incentive/Ton x Tons x Qty)	
<150 Ton	0.79 kW/ton full load 0.49 kW/ ton part load (IPLV)	\$25.00				
150 – 300 Ton	0.63 kW/ton full load 0.44 kW/ ton part load (IPLV)	\$40.00				
> 300 Ton	0.58 kW/ton full load 0.44 kW/ ton part load (IPLV)	\$40.00				
<b>TOTAL INCENTIVE FOR SECTION D:</b>						



**E. Three Phase Electric Motors**

Use the NEMA Premium Motor Efficiencies in Table 1 on page 5 for qualifying efficiencies. Rebuilt, rewind, redundant, or backup units do not qualify.

Description	Efficiency %	RPM	ODP or TEFC	HP	Incentive Per HP	Qty	Total Incentive (HP x Incentive/HP x Qty)
1 – 5 HP					\$12.00		
7.5 – 20 HP					\$8.00		
25 – 100 HP					\$5.00		
125 – 250 HP					\$4.00		
<b>TOTAL INCENTIVE FOR SECTION E:</b>							

**F. Variable Frequency Drives**

Drives must be used in pumping or air handling applications related to HVAC only. VFDs must be automatically controlled by a variable signal, and have load diversity that will result in savings through motor speed variation. Redundant unit, back-up units, and replacements of existing VFDs do not qualify.

VFD Application (Fan or Pump, Equipment Served)	Controls before VFD	HP	Incentive Per HP	Qty	Total Incentive (HP x Incentive/HP x Qty)
			\$60.00		
			\$60.00		
			\$60.00		
<b>TOTAL INCENTIVE FOR SECTION F:</b>					

**G. Miscellaneous Equipment**

Equipment must be on the list of qualifying ENERGY STAR equipment to be eligible for an incentive. Please see the Commercial Food Service subsection under the Products section at [www.energystar.gov](http://www.energystar.gov) for a list of qualifying products.

Description	QTY	Incentive Per Unit	Total Incentive (Incentive/Unit x Qty)
Vending Equipment Controller (for cold beverage machines)		\$50.00	
ENERGY STAR Commercial Solid Door Refrigerator Less than 20ft3		\$125.00	
ENERGY STAR Commercial Solid Door Refrigerator Between 20 to 48ft3		\$250.00	
ENERGY STAR Commercial Solid Door Refrigerator More than 48ft3		\$450.00	
ENERGY STAR Commercial Solid Door Freezer Less than 20ft3		\$75.00	
ENERGY STAR Commercial Solid Door Freezer Between 20 to 48ft3		\$200.00	
ENERGY STAR Commercial Solid Door Freezer More than 48ft3		\$350.00	
ENERGY STAR Ice Machines Less than 500 lbs		\$300.00	
ENERGY STAR Ice Machines 500 to 1,000 lbs		\$450.00	
ENERGY STAR Ice Machines More than 1,000 lbs		\$1,000.00	
Pre Rinse Sprayers < 1.6 gpm (electric water heating required)		\$25.00	



TOTAL INCENTIVE FOR SECTION G:

**Summary of Incentives**

Subtotal Section A: <b>Central Packaged and Split System Air Conditioning (including Rooftop Units)</b>	\$
Subtotal Section B: <b>Central Packaged and Split System Air Source Heat Pumps (including Rooftop Units)</b>	\$
Subtotal Section C: <b>Air Cooled Chillers</b>	\$
Subtotal Section D: <b>Water Cooled Chillers</b>	\$
Subtotal Section E: <b>Three Phase Electric Motors</b>	\$
Subtotal Section F: <b>Variable Frequency Drives</b>	\$
Subtotal Section G: <b>Miscellaneous Equipment</b>	\$
<b>Total Incentive:</b>	\$

**Table 1: Nominal Efficiencies For "NEMA Premium™" Induction Motors**

HP	Open Drip-Proof			Totally Enclosed Fan-Cooled		
	1200 RPM	1800 RPM	3600 RPM	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77.0	82.5	85.5	77.0
1.5	86.5	86.5	84.0	87.5	86.5	84.0
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4



## Terms and Conditions

1. **Incentive Offer:** Projects must be implemented (completed) by December 31, 2009. An original signed application and invoices for materials and labor must be delivered via mail to Charlevoix Energy Smart Program<sup>SM</sup>, 1219 Turner Street, Lansing, MI 48906 or faxed to 1-517-316-9027 **within 30 calendar days of installation (completion)**. Please keep a copy for your records.
2. **Proof of Purchase:** This application must have complete information and be submitted with 1) an invoice itemizing the **new equipment purchased and 2) the manufacturer (OEM) specification sheets**. The invoice must indicate date of purchase, size, type, make, model and total project cost. The ARI reference number is required for all cooling equipment. For split system units, model and serial numbers are required for indoor and outdoor units.
3. **Energy Savings:** Projects must result in reduced electric energy use due to improvement in the system efficiency; control upgrades may also qualify. Reduced electric use resulting from peak shaving, demand limiting, fuel switching, power generation, renewable energy, or operating schedule changes does not qualify. Cooling systems, motors, and variable frequency drives, must operate 1,500 hours annually to qualify.
4. **Compliance:**
  - a. All projects must comply with applicable federal, state, and local laws.
  - b. All equipment must be new or retrofitted with new components per the program specifications. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed or permanently disconnected.
  - c. Equipment must meet specification requirements and be purchased and operating prior to submitting an incentive application.
  - d. Only one incentive will be granted for each project.
  - e. All projects must be a retrofit / replacement installation in an existing building (not available for new construction).
  - f. If the project is in a leased building, the term of the lease must be at least five (5) years.
5. **Payment:** Once completed paperwork is submitted, incentive payments are usually made within **30** calendar days. Incomplete applications will either delay payments or result in denial of application approval. The City of Charlevoix reserves the right to refuse payment and participation if the customer or contractor violates program terms and conditions. All projects exceeding **\$2,500** of incentives will be inspected prior to incentive payment. The City of Charlevoix must receive 100% of the energy savings for the rated life of the product(s) or for a period of three (3) years from receipt of rebate, whichever is less. If you do not provide the energy savings, if the facility in which the installed projects are located closes or ceases operation within the three (3) years from receipt of rebate or if you cease to be a customer of the City of Charlevoix during the three (3) years, you shall refund a prorated amount of rebate dollars based on the time installed.
6. **Inspection:** Program staff may conduct an inspection of the facility to survey installed projects.
7. **Publicity:** The City of Charlevoix reserves the right to publicize your participation in this program, unless you specifically request otherwise.
8. **Program Discretion:** Incentives are available on a first-come, first-served basis. Incentive amounts and offerings are subject to change or termination without notice at the discretion of the City of Charlevoix.
9. **Logo Use:** Customers or allies may not use the City of Charlevoix nor the Charlevoix Energy Smart Program<sup>SM</sup> name or logo in any marketing, advertising, or promotional material without written permission.
10. **Disclaimers:** The City of Charlevoix
  - a. does not endorse any particular manufacturer, product, labor or system design by offering these programs;
  - b. will not be responsible for any tax consequences imposed on the customer as a result of the payment of incentives;
  - c. does not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor for detailed warranties);
  - d. is not responsible for the proper disposal/recycling of any waste generated as a result of this project;
  - e. is not liable for any damage caused by the installation of the equipment or for any damage caused by the malfunction of the installed equipment.

### **INCENTIVE LIMIT:**

Purchase and install qualifying equipment and receive an energy efficiency incentive of up to **\$5,000** per project. All projects must receive written approval BEFORE project installation. Incentives may **not exceed 50% of the total project cost, including materials and labor**.

### **ELIGIBILITY:**

These incentives are offered by the City of Charlevoix to electric customers only. For questions regarding eligibility, call 877-NRG-SAV1 (877-674-7281).