

## 2010 Chiller Rebate

### Section A: CUSTOMER INFORMATION

Customer Name	Electric Account Number	Rate	Application Number
Facility Address	City	State	Zip Code
Service Location Identification			
Mailing Address (if different from above)	City	State	Zip Code
Contact Person/Title	Telephone Number	Incorporated? (Check one.) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exempt	
Federal Tax Identification Number	Rebate Payment Preference (Check one) <input type="checkbox"/> Check <input type="checkbox"/> Bill Credit <input type="checkbox"/> Pay Contractor	Please Assign Payment to Contractor. Customer Signature:	

### Section B: CONTRACTOR INFORMATION

Contractor Name	Contact Person/Title (Print)	Contact Person Signature	
Mailing Address	City	State	Zip Code
Federal Tax Identification Number	Incorporated? (Check one.) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exempt	Telephone Number	

### Section C: DOCUMENT APPROVALS

#### PRE-INSTALLATION INSPECTION

Utility Signature	Date
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#### PRE-APPROVAL OFFER

Technical Review - Utility Signature	Date		
Utility Signature	Date	Amount of Rebate Offer (\$)	Completion Date

By signing and dating below, customer accepts this rebate offer and agrees to the Utility Terms and Conditions attached hereto. Pursuant to a Commission order, customer also agrees that the utility will capture all kW and kWh savings and to forgo applying directly or indirectly for any ISO-NE capacity payments resulting from this energy efficiency project. This agreement is contingent upon continued approval and authorization by the Commission to recover said amounts from the System Benefits Charge. The rebate, in conjunction with all other sources of funding, cannot exceed the total project cost.

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

#### POST-INSTALLATION INSPECTION

Utility Signature	Date	Total Project Cost (\$)	Amount of Rebate (\$)
Customer Signature	Date		

#### MANAGEMENT APPROVAL

Utility Signature	Date
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# SCHOOL / NE&C CHILLER REBATE WORKSHEET

Measure	Minimum Efficiency FL and IPLV (A) Notes 2,6	Unit Size-Net ARI Tons (B)	Unit Efficiency (C) Notes 2,6	Base Unit Rebate (D)	Performance Rebate (\$) (E) Notes 2,6	Calculated Base Rebate per chiller, \$ (F) Notes 3, 4	Calculated Performance Rebate per chiller, \$ (G) Notes 3, 4	Total Rebate (\$) (H)
<b>Air Cooled Chillers</b>								
≤ 300 tons	EER:: FL: 10.5 IPLV: 12.8	_____	EER: FL: _____ IPLV: _____	\$40 / ton	\$5 / ton for each 0.1 EER above minimum criteria			
<b>Water Cooled Chillers – Rotary Screw and Scroll</b>								
< 150 tons	kW/ton: FL: 0.711 IPLV: 0.609	_____	kW/ton: FL: _____ IPLV: _____	\$33 / ton	\$3 / ton for each 0.01 kW/ton below minimum criteria			
≥ 150 to < 300 tons	kW/ton: FL: 0.646 IPLV: 0.565	_____	kW/ton: FL: _____ IPLV: _____	\$33 / ton	\$8 / ton for each 0.01 kW/ton below minimum criteria			
≥ 300 tons	kW/ton: FL: 0.575 IPLV: 0.515	_____	kW/ton: FL: _____ IPLV: _____	\$33 / ton	\$8 / ton for each 0.01 kW /ton below minimum criteria			
<b>Water Cooled Chillers – Centrifugal</b>								
< 150 tons	kW/ton: FL: 0.633 IPLV: 0.603	_____	kW/ton: FL: _____ IPLV: _____	\$33 / ton	\$3 / ton for each 0.01 kW/ton below minimum criteria			
≥ 150 to < 300 tons	kW/ton: FL: 0.570 IPLV: 0.536	_____	kW/ton: FL: _____ IPLV: _____	\$27 / ton	\$2 / ton for each 0.01 kW/ton below minimum criteria			
≥ 300 to ≤ 1000 tons	kW/ton: FL: 0.519 IPLV: 0.494	_____	kW/ton: FL: _____ IPLV: _____	\$16 / ton	\$4 / ton for each 0.01 kW below minimum criteria			
<b>Equipment Manufacturer and Model:</b>							<b>Total Rebate</b>	

<b>Rebate Calculations:</b>	
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## NOTES

1. This rebate is available only for comfort cooling applications operating for min. 800 equivalent full load hours (EFLH) or 1500 run hours. Process chillers or chillers equipped with variable speed drives may be evaluated as a custom rebate.
2. Chiller equipment efficiency criteria are based on ARI Standard 550/590-98 at ARI standard conditions (see note 6) using a non-CFC refrigerant. Attach copy of manufacturer's performance sheet showing both Full Load (FL) and Integrated Part Load Value (IPLV) efficiencies (KW/ton). Air cooled chiller efficiencies shall include condenser fan energy consumption. Tons should be ARI net capacity, not gross capacity. Rebates for chillers shall be calculated using FL and IPLV efficiency ratings.
3. The total rebate (H) for air cooled chiller projects with efficiencies based on EER is calculated as follows:  
H = base rebate (B x D) plus performance rebate (using FL or IPLV EER): (C - A) x 10 x E X B (performance rebate may not exceed \$52 per ton)
4. The total rebate (H) for water cooled chiller projects with efficiencies based on kW / ton is calculated as follows:  
H = base rebate (B x D) plus performance rebate (using FL or IPLV kW / ton): (A-C) x 100 x E x B (performance rebate may not exceed \$52 per ton)
5. All water-cooled chillers shall incorporate condenser water reset strategy.
6. ARI Chiller standard 550/590-98 conditions are as follows:
  - 44° F leaving chiller water,
  - 2.4 GPM / ton,
  - 95° F entering condenser air temperature (air cooled only),
  - 85° F entering condenser water temperature (water cooled only),
  - 3.0 GPM / ton condenser water flow rate (water cooled only)
7. Chillers with VFD's shall have a minimum 3% impedance reactor in its AC power input connection.

