City of Fort Collins Resources for Restaurants

John Phelan, PE Energy Services Manager October 5, 2010



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Where to Start

- Business Efficiency Program
 - Focus on energy and water savings
 - Assessments
 - Rebates
 - Technical assistance
- Climate Wise Program
 - Focus on carbon emissions reduction from energy, water, recycling/waste, transportation
 - Commitment to join program
 - Recognition based on achievement levels



Assessments

- Efficiency Assessments (energy and water)
 - Bill analysis
 - Site visit
 - Interview
 - Survey of energy end-uses (lighting, HVAC, refrigeration, equipment)
 - Detailed report with prioritized opportunities
- Climate Wise assessment adds recycling, solid waste and transportation



- Business Efficiency Program
 - Rebate categories
 - Lighting
 - Building envelope
 - Food service
 - Grocery
 - Office
 - Custom
 - Joint funding from Fort Collins Utilities and Platte River Power Authority



Electric Efficiency Program Application (v1.2) Existing Buildings & Facilities

Page 5: High Efficiency Food Service Equipment

Rebates

New High Efficiency Equipment*	Rebate per Unit	# Units	Total Potential incentive	Minimum Required Citeria (see below for qualifying models)	Average Annual Electric Cost Savings**
High Efficiency Ice Machine (kWh/100 lbs of ice)	\$300			CEE Tier 3	\$150
High Efficiency Ice Machine (kWh/100 lbs of ice)	\$200			ENERGY STAR or CEE Tier 2	\$100
Insulated Hot Food Holding Cabinets (min 7 cu ft)	\$300			ENERGY STAR	\$334
Reach-In Refrigerators & Freezers (< 19 ft3) (glass or solid door)	\$50			ENERGY STAR or CEE Tier 2	\$32
Reach-In Refrigerators & Freezers (19 - 30 ft3) (glass or solid door)	\$75			ENERGY STAR or CEE Tier 2	\$34
Reach-In Refrigerators & Freezers (31 - 60 ft3) (glass or solid door)	\$100			ENERGY STAR or CEE Tier 2	\$43
Reach-In Refrigerators & Freezers (61 - 90 ft3) (glass or solid door)	\$125			ENERGY STAR or CEE Tier 2	\$65
Electric Steamers	\$250			ENERGY STAR	\$185
Electric Fryers	\$75			ENERGY STAR	\$43
Electric Griddles	\$150			ENERGY STAR (> 70% HL Eff)	\$82
Combination Ovens - Electric	\$1,000			ENERGY STAR (> 70% HL Eff)	\$600
Convection Ovens - Electric	\$225			ENERGY STAR (> 70% HL Eff)	\$115
Vent Hood Controls					
Vent Hood Controls with VFD fans & sensors; per hp (enter total exhaust fan horsepower)	\$200			Recommend using	\$114
Are there MUA fans controlled? (select yes or no)	No			qualified installer	
Total potential incentive on page 10 must be a minimum of \$50 to qualify. Rebate cannot exceed project cost.	Total	0	\$0		

0

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Approval Code:

Minimum Required Citeria Reference	Website Links	Description
CEE Tier 2 & 3 Qualifying Model Lists www.cee1.org	<u>CEE1 Com. Kitchen Equip.</u> <u>Homepage</u>	Visit the Consortium for Energy Efficiency (CEE) website for a list of all CEE qualifying kitchen equipment; including Tiers 2 & 3.
ENERGY STAR Qualifying Model Lists	HOOD Service and Lither	ENERGY STAR website homepage to find ENERGY STAR qualifying equipment models
ASTM (American Society of Testing Materials) Heavy Load Efficiency Ratings	Service Appliances	heavy load efficiency ratings for electric griddles and
General Energy Savings Calculators www.fishnick.com		interactive FSTC commercial Kitchen equipment interactive web-based tool, displaying estimated savings with energy efficient appliances

* Rebates are avaialable for NEW equipment only. Used or refurbished equipment does not qualify.

** Annual cost and kWh savings are based on a typical restaurant savings and average energy rate of \$0.06 per kWh. Results may vary for your business.



Commercial Kitchens - Windows Internet Explorer provided by City of Fort Collins							
 Image: http://www.cee1.org/com/com-kit/com-kit-equ 	uip.php3						
View Favorites Tools Help							
CEE - Commercial Kitchens							
CE			Commercial Programs				
		Consortium For Energy	y Efficiency	Home / Contact			
About EE Pro Indus	ogram	Info for Men	<u>nbers</u> · <u>Equipment</u> ·	<u>Resources</u>			
	ential nercial	Qualifying Product Lists	Specifications	Savings Calculators			
- Buildir Clothe Data - HVAC	ngs es Washers Centers		Dishwashers 👌 Fryers	Dishwashers 🌢 Fryers			
 Kitche Lightir New C School 	ng Construction	Hot Food Holding Cabinets	Hot Food Holding Cabinets	Hot Food Holding Cabinets			
Indus	strial I	Ice Machines 👌	Ice Machines 👌	Ice Machines 👌			
Gas P	rograms F	Pre-Rinse Sprayers 🌢	Pre-Rinse Sprayers 👌	Pre-Rinse Sprayers 🔌			
		Refrigerators and Freezers	Refrigerators and Freezers	Refrigerators and Freezers			
Evalu Resou	irce	Steamers 🌢	Steamers 🔌	Steamers (Electric)			
Librar Consu	-	Having Trouble Viewing the Lists?		Steamers (Gas) 🌢			

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CEE Tier 3 Qualified Ice Machines - June 28, 2010

CEE THE S Quarties - Sure 20, 2010 Source 20, 2010 For instructions, terms and conditions of use, and contact information, please click on the "Intro and Instructions" tab on the lower left corner.

Туре	Manufacturer	Model	Ice Harvest Rate (Ib/24hr)	Potable Water Use Rate (gal/100lb of ice)	Condenser Water Use Rate (gal/100lb of ice)	Energy Consumption Rate (kWh per 100lb of ice)	Condenser	Compressor	Qualifies for Tier 1?	Qualifies for Tier 2? (=ENERGY STAR on air- cooled units only)	Qualifies for Tier 3?
IMH-A	Scotsman	C0322MA-1#	255	19.0	0	6.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0322MA-32#	255	19.0	0	6.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0322SA-1#	255	19.0	0	6.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0322SA-32#	255	19.0	0	6.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0330MA-1#	280	19.0	0	6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0330MA-32#	280	19.0	0	6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0330SA-1#	280	19.0	0	6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C0330SA-32#	280	19.0	0	6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1030MA-3#	844	18.4	0	5	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1030MA-32#	844	18.4	0	5	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1030SA-3#	844	18.4	0	5	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1030SA-32#	844	18.4	0	5	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1448MA-3#	1242	18.5	0	4.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1448MA-32#	1242	18.5	0	4.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1448SA-3#	1242	18.5	0	4.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1448SA-32#	1242	18.5	0	4.6	n/a	n/a	yes	yes	yes
IMH-A	Scotsman	C1848MR-3# (Canada)	1645	17.9	0	4.3	ERC611-32#	n/a	yes	yes	yes
IMH-A	Scotsman	C1848MR-32# (Canada)	1645	17.9	0	4.3	ERC611-32#	n/a	yes	yes	yes
IMH-A	Scotsman	C1848SR-3# (Canada)	1645	17.9	0	4.3	ERC611-32#	n/a	yes	yes	yes
IMH-A	Scotsman	C1848SR-32# (Canada)	1645	17.9	0	4.3	ERC611-32#	n/a	yes	yes	yes



ercial Hot Food Holding Cabinets : ENERGY STAR - Windows Internet Explorer provided by City of Fort Collins

R http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COM

View Favorites Tools Help

Products

🔁 Commercial Hot Food Holding Cabinets :.

Home > Products > Find ENERGY STAR Products > Commercial Hot Food Holding Cabinets

Find ENERGY STAR Products

How a Product Earns the Label

Save Energy at Home

Join Our Movement

Commercial Hot Food Holding Cabinets for Businesses and

Operators (Are you a partner? For Partners)

Did You Know?

Each ENERGY STAR qualified hot food holding cabinet can save businesses approximately 3,200 to 9,300 kWh annually, or an average of \$340 to \$960/year on utility bills.

About ENERGY STAR Commercial Hot Food Holding Cabinets

Overview

Specifications

Hot food holding cabinets that have earned the ENERGY STAR are 65 percent more energy efficient than standard models.

Hot food holding cabinet models that earn the ENERGY STAR must meet a maximum idle energy rate of 40 watts/ft³. This means that ENERGY STAR qualified hot food holding cabinets are more efficient at maintaining food temperature while using less energy. Models

that meet this requirement incorporate better insulation, reducing heat loss, and may also offer additional energy saving devices such as magnetic door gaskets, auto-door closures, or dutch doors. The insulation of the cabinet also offers better temperature uniformity within the cabinet from top to bottom.



Buying Guidance

Commercial Hot Food Holding Cabinets Resources

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Google

- » Qualified Commercial Hot Food Holding Cabinets Excel PDF
- » Where to Buy
- » Locate CFS Incentives
- » Savings Calculator 🔏
- » Procurement Resources

Related Products

- » Commercial Kitchen Package
- » Commercial Dishwashers
- » Commercial Fryers
- » Commercial Griddles
- Commercial Ice Machines
- Commercial Ovens
- » Commercial

ENERGY STAR Qualified Hot Food Holding Cabinets: List posted on October 1, 2010

Company Name	Brand Name	Model Name	Model Number	Models Represented:	Door/Wall Type	Number of Doors	Internal Volume (ft3)	Energy Usage (watts)	Maximum Idle Energy Rate (not to exceed 40 watts/cubic foot)	Date Available
Alto-Shaam, Inc.	Alto-Shaam	Hot Holding Cabinets	500-S/120V/STD 202902	750-S, 1000-S (solid-door version only), 1200-S, 1200- SR, 1000-UP (solid-door version only), 1200-UP, 1200- UP/SR	Solid/Solid	1	3.59	110	30.64	May-01
Alto-Shaam, Inc.	Alto-Shaam	500-PH/GD	500-PH/GD		Glass/Solid	1	4.89	148	30.26	Jan-09
Alto-Shaam, Inc.	Alto-Shaam	Hot Holding Cabinets	12.20MW	12.20W	Solid/Solid	1	19.41	212	10.92	May-08
Alto-Shaam, Inc.	Alto-Shaam	Hot Holding Cabinets	20.20MW	20.20W	Solid/Solid	1	29.27	291	9.94	May-08
Alto-Shaam, Inc.	Alto-Shaam	1200-S	1200-S		Solid/Solid	1	9.85	195.33	20	Jul-09
Alto-Shaam, Inc.	Alto-Shaam	1000-UP	1000-UP		Solid/Solid	2	15.56	284	18.25	Jun-09
Alto-Shaam, Inc.	Alto-Shaam	1200-UP	1200-UP		Solid/Solid	2	19.7	381.34	20	Jul-09
Alto-Shaam, Inc.	Alto-Shaam	1000-BQ2/96	1000-BQ2/96		Solid/Solid	2	21.99	331	15.05	Jun-09
Alto-Shaam, Inc.	Alto-Shaam	1000-BQ2/128	1000-BQ2/128		Solid/Solid	2	28.15	379	13.46	Jun-09
Alto-Shaam, Inc.	Alto-Shaam	1000-BQ2/192	1000-BQ2/192		Solid/Solid	4	43.98	523	11.89	Jun-09
Alto-Shaam, Inc.	Alto-Shaam	AR-7H	AR-7H		Glass/Solid	2	11.28	435	38.56	Jun-09

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Electric Efficiency Program Application (v1.) Existing Buildings & Facilities Page 6: High Efficiency Grocery Equipment	2)			0 Approval Code:	0
High Efficiency Equipment Upgrades	Rebate per Unit	# Units	Unit of measure	Potential Incentive	Total Annua Electric Cost Savings*
New or Existing Reach-in or Open Display Cases ar (see below for new walk-ins or refrigerated warehouse re		lk-ins Only			
Zero Energy Glass Doors w/ No ASH <1a>	\$125		door		\$81
Low Energy Glass Doors <1b>	\$75		door		\$46
Anti-Sweat Heater Controls <2>	\$75		door		\$46
Case Lighting Retrofit T12/mag - T8/elec <3>	\$20		lamp		\$19
LED Case Lighting replacing T8/elec <4a>	\$40		lamp		\$35
LED Case Lighting replacing T-10/12/mag <4a>	\$60		lamp		\$62
EC Motors in Display Cases <5> (electronically commutated motor)	\$30		motor		\$17
EC Motor in Walk-in Cooler/Freezer <6>	\$60		motor		\$35
EC Motor compressor head cooling fans <7>	\$50		motor		\$43
Night Covers – Vertical or Horizontal	\$10		In ft case		\$15
Hardwired T8 Fixture in Walk-in cooler/freezer	\$15		lamp		\$36
Screw-in CFL for walk-in cooler/freezer	\$1		lamp		\$37
Smart Defrost Control Walk-in Freezer <8> (greater than or equal to 1.5 horsepower)	\$150		controller		\$79
Evap Fan Controls Walk-ins <9> (controls shaded pole motor only)	\$50		fan motor		\$25
Outside Air Economizers for Walk-ins <10> (walk-in must be ≥ 1,000 cu. ft.)	\$1,250		Unit		\$657
New Walk-in or Refrigerated Warehouse (see above f	or existing wall	<-in or ware	house retrof	its)	
Zero Energy Doors w/ No ASH <1>	\$50		door		\$36
LED Case Lighting <4b>	\$40		lamp		\$35
Smart Defrost Control Walk-in Freezer <8>	\$150		controller		\$79
Evap Fan Controls Walk-ins <9>	\$30		fan motor		\$17
Outside Air Economizers for Walk-ins <10> (walk-in must be ≥ 1,000 cu. ft.)	\$1,250		Unit		\$657
Total potential incentive on page 10 must be a minimum of \$50 gualify. Rebate cannot exceed project co		0		\$0	

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Keep Current						
部 My	Keep Current 🛛 🔀 Explore the eLibrar	ry : # Ask an Expert : # Newsletters : # Tools You Can Use : # Preferences				
My Keep Current		🧰 Print 🔤 E-mail				
INDUSTRY SPOTLIGHT ON - Data Centers - Government Facilities - Grocery/Convenience Stores - Hospitals - Restaurants/Food Service	Fort Collins Utilities	Racare Antikas from Kaap Currare 2010 Business Environmental Program Series Commercial Rebate Opportunities Update Climate Wise, Business Smart Colorado Industrial Energy Challenge				
	Tools You CAN USE	Have You Tried Our Teale You Can Use? Use our tools to help you make sound decisions. Quickly calculate costs and identify improvements. <u>Try them now!</u>				
About the Industry Spotlight	Ask an Expert	AkkanDipant Our researchers, development experts and engineers are available now to answer your industry-related questions at no cost to you. <u>Ask an Expert now!</u> Your recent inquiries: <u>Energy Usage</u>				
		an electronic newsletter and online resource ollins Utilities commercial customers.				

Resources

- Business Efficiency Program
 - www.fcgov.com/conservation
- Climate Wise
 - www.fcgov.com/climatewise
- ENERGY STAR
 - www.energystar.gov
- Consortium for Energy Efficiency
 - www.cee1.org
- Foodservice Technology Center
 - www.fishnick.com



Questions Now?

Anytime 970-221-6700

