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These terms and conditions are subject to change without notice.

Please check with your Field Energy Analyst to confirm that your proposed installation meets terms and conditions or call 1.800.230.9420 to speak with a program representative. If you have a custom measure that yields equal or greater energy savings, you may request an engineering review to determine whether it qualifies for a rebate.

Refrigeration Retrofits

“Low temperature” covers evaporator temperatures below 0°F.

“Medium temperature” covers evaporator temperatures between 1°F and 35°F.

Cases

1. Low or Medium Temperature Open Case to New Reach-in

Must replace an existing low or medium temperature open vertical display case with a new high efficiency reach-in case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps	T-8 lamps with electronic ballasts or LED lamps
No doors	Glass doors
Shaded pole fan motors	ECM fan motors

Exclusions:

Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours.

Additional separate rebates cannot be claimed for Efficient Evaporator Fan Motors or T-8 lamps.

New case length must be equal to or shorter than original case.

Recommendations:

Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves and re-setting to higher suction pressures/temperatures).

Anti-Sweat Heater Control is recommended in conjunction with this measure (see measure #6).

LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #32).

Units: Linear feet of case

Pre-Inspection Required: Yes

Measure Life: 15 years

Rebate:

Low Temp case – T12 Baseline: \$450

Low Temp case – T8 Baseline: \$435

Med Temp case – T12 Baseline: \$150

Med Temp case – T8 Baseline: \$135

2. Low Temperature Reach-in or Coffin to New High Efficiency Reach-in

Must replace an existing low temperature reach-in or coffin case with a new high efficiency reach-in case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps, (reach-in only)	T-8 lamps with electronic ballasts or LED lamps (see measure #30)
Glass doors (reach-in only)	Low/no anti-sweat heat glass doors (see measure #4)
Shaded pole fan motors	ECM fan motors

Exclusions:

No additional rebate available for Anti-Sweat Heater Control.

Reach-in cases replacing reach-in case must be equal to or shorter than original case.

Reach-in cases replacing coffin cases must be equal to or shorter than 1/3 the original case length.

Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours.

Recommendations:

Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves and re-setting to higher suction pressures/temperatures).

Anti-Sweat Heater Control is recommended in conjunction with this measure (see measure #6).

LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #32).

Exceptions:

In lieu of low/no anti-sweat heat glass doors, triple pane doors with anti-sweat heater controls may be used.

Units: Linear feet of case

Pre-Inspection Required: Yes

Measure Life: 15 years

Rebate:

Reach-in to high efficiency reach-in: \$130

Coffin to high efficiency reach-in: \$55

3. Medium Temperature Open Case to New High Efficiency Open Case

Must replace an existing Medium temperature open case with a new high efficiency open case.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
T-8/10/12 lamps, magnetic ballasts	T-8 lamps with electronic ballasts or LED lamps (see measure #34)
	Evaporators must meet Saturated Evaporative Temperatures (SET) as follows: Produce, ≥ 29°F; Dairy / Deli, ≥ 26°F; Meat, ≥ 22°F
Shaded pole fan motors	ECM fan motors
<p><u>Exclusions:</u> Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours. New case length must be equal to or shorter than original case. Additional separate rebates cannot be claimed for Efficient Evaporator Fan Motors or T-8 lamps.</p>	
<p><u>Recommendations:</u> Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves and re-setting to higher suction pressures/temperatures). Anti-Sweat Heater Control is recommended in conjunction with this measure (see measure #6). LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #34).</p>	
<u>Units:</u> Linear feet of case	<u>Pre-Inspection Required:</u> Yes
<u>Measure Life:</u> 15 years	<u>Rebate:</u> \$30

4. Standard Doors to Low/No Anti-Sweat Heat Doors for Low Temperature Reach-in

Must replace an existing standard glass door of a low temperature reach-in display case with a low/no anti-sweat heat glass door.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Glass door	Triple pane glass door
Anti-sweat heat >0.39 amps/ln ft of case at 120 volts	Anti-sweat heat in door rail, glass, and frame must be ≤0.39 amps/ln ft of case at 120 volts.
	Doors must prevent condensation from occurring in the frame assembly.
<u>Exclusions:</u> An additional separate rebate cannot be claimed for Anti-sweat Heater Controls.	
<u>Units:</u> Door	<u>Pre-Inspection Required:</u> Yes
<u>Measure Life:</u> 15 years	<u>Rebate:</u> \$173.25

5. Add Doors to Medium Temp Walk-in Reach-in

Must add doors to open section of medium temp walk-in reach-in.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Walk-in reach-in no doors	Doors installed on open section of walk-in reach-in
T-8 lamps	T-8 lamps
Display case evaporator coil with shaded pole fan motors	Removed
No doors	No anti-sweat heat (ASH) doors
<u>Units:</u> Linear feet of case	<u>Pre-Inspection Required:</u> Yes
<u>Measure Life:</u> 12 years	<u>Rebate:</u> \$130

Controls

6. Anti-Sweat Heater (ASH) Controls	
Must install a device that controls the ASH load of reach-in doors. This measure is relevant for both MT and LT reach-in glass door cases.	
<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Medium Temperature Case Uncontrolled ASH present > 0.20 amps/ft of case (door rail, glass and/or frame heating element combined)	Medium Temp: Reduces ASH run time by at least 80%. Includes any heating element in door rail, glass, and frame.
Low Temperature Case Uncontrolled ASH present > 0.37 amps/ ft of case (door rail, glass and/or frame heating element combined)	Low Temp: Reduces ASH run time by at least 50%. Includes any heating element in door rail, glass, and frame.
	Must automatically modulate heater output based on environmental conditions (temperature or relative humidity) as measured by a sensor that is part of the control system.
Exclusions: An additional separate rebate cannot be claimed for Standard Doors to Low/No Anti-Sweat Heat Doors for Low Temperature Reach-ins.	
Additional Information: If there is no amp tag for the case door, please call program staff to help qualify the case or door frame.	
Units: Linear feet of case	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$40

7. Walk-in Evaporator Fan Control – Shaded Pole – Medium Temp	
Must install controls that reduce energy consumption of evaporator fan motors in medium-temperature walk-in by reducing fan speed when there is no refrigerant being delivered to the evaporator.	
<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole fan motor	Same
Evap fan motor size (nameplate rated output power): $\geq 1/20$ hp	Same
	Must reduce fan motor power by at least 75% when operating at reduced speed.
Recommendations: Not recommended if any of the following conditions exist: 1) the compressor runs with a very high duty cycle (more than 65%); 2) the evaporator fan does not run at full speed all the time; or 3) the evaporator does not use off-cycle or time-off defrost.	
Exclusions: This measure cannot be used in conjunction with Efficient Evaporator Fan Motor measure.	
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$25

8. Walk-in Evaporator Fan Control – ECM – Low & Medium Temperature

Must install controls that reduce energy consumption of evaporator fan motors in walk-ins by reducing fan speed when there is no refrigerant being delivered to the evaporator.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Electronically Commutated Motor (ECM)	Same
Evap fan motor size (nameplate rated output power): 1/20th HP to 1/10th HP	Evap fan motor size (nameplate rated output power): 1/20th HP to 1/10th HP
Evap fan full speed runtime: full speed 24hrs/day except if off for defrost periods	Evap fan full speed runtime: full speed only during call for cooling (compressor on or liquid-line solenoid open)
Evap fan full speed: 1,550 RPM	Evap fan full speed: 1,550 RPM
Evap fan low speed: N/A	Evap fan low speed: 500<=RPM>=600
	Alternative to low speed: On/Off Cycling. During periods when there is no refrigerant being delivered to the evaporator, eligible controllers may cycle the fans off only if they turn the fans on periodically during that time to circulate air in the walk-in (not more than 1 minute every 8 minutes or 13% of time).
<p>Exclusions: Not applicable if Evaporator Fan Control is already installed. On walk-in refrigeration circuits served by multiplex systems, liquid-line solenoid is required for adequate control; multiplex systems without liquid-line solenoid on the walk-in circuit are not eligible at this time.</p>	
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$35

Strip Curtains

9. Strip Curtains	
Must install new strip curtains or plastic swinging doors on qualifying walk-in doorways.	
<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
No strip curtains installed	Strip curtains ≥ 0.06 inches thick
	Low temp strip curtains must be used on low temp applications.
<p>Exclusions: Rebate is only eligible for applications in supermarket walk-in freezers & coolers, and restaurant walk-in freezers (Note: restaurant walk-in freezers located inside of walk-in coolers are not eligible). A supermarket is defined as a $\geq 10,000$ sq ft self-service commercial retail food service facility. A restaurant is defined as a commercial retail facility with the majority sales resulting from prepared food. Rebate is not available for other facility types such as convenience & drug stores, replacement of existing strip curtains, or application of strip curtains on display cases.</p>	
<p>Notes: Rebates are only available to certified strip curtain trade allies. If you are interested in certification information, please contact the Program at 800-230-9420.</p>	
Units: Square feet of doorway (measured inside door frame)	Pre-Inspection Required: No
Measure Life: 4 years	Rebate: \$9

Gaskets

10. Door Gaskets for Solid or Reach-In Glass Doors	
Applicable to main insulated solid door(s) of walk-in cooler or freezer that open to ambient temperatures and/or standard size reach-in glass or solid door(s) of a low or medium temperature display case.	
<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Worn or damaged gasket (and/or door sweep) with degradation sufficient to create an air gap (leak) equal to or greater than 14 inches in length.	Replacement gaskets and/or door sweep must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism.
<p>Exclusions: Under counter half coolers, freezers, or beverage merchandisers do not qualify for rebates.</p>	
Units: Door	<p>Pre-Inspection Required: Yes (Pre-Inspection alternative: If program audit took place more than one month prior to the proposed installation date, photo verification of damaged or missing gaskets may be used in lieu of pre-inspection.)</p>
Measure Life: 4 years	<p>Rebate: Walk-In Cooler: \$35 Walk-In Freezer: \$70 Reach-In Cooler: \$30 Reach-In Freezer: \$50</p>

Auto-Closers

11. Auto-Closers for Walk-in Cooler or Freezer Doors

Auto-closer must be installed on the main insulated solid door of a walk-in cooler or freezer.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Auto-closer must firmly close door when door is within 1 inch of door latch.
	Walk-in door perimeter ≥ 16 ft
Exclusions: Rebate unavailable for adjustments made to existing auto-closers.	
Notes: Rebate available for both new auto-closer installations and replacement of parts on non-functioning auto-closers.	
Units: Closer	Pre-Inspection Required: Yes
Measure Life: 8 years	Rebate: Low Temp: \$170 Med Temp: \$25

12. Auto-Closers for Glass Doors on Reach-in Coolers or Freezers

Auto-closer must be installed on the glass door of a reach-in case.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Auto-closer must firmly close door when door is within 1 inch of full closure.
	Walk-in door perimeter ≥ 16 ft
Exclusions: Rebate unavailable for adjustments made to existing auto-closers.	
Notes: Rebate available for both new auto-closer installations and replacement of parts on non-functioning auto-closers.	
Units: Closer	Pre-Inspection Required: Yes
Measure Life: 8 years	Rebate: \$34

Motors

13. ECMs - Replace Shaded Pole Fan Motors in Refrigerated Display Cases

Applicable to existing shaded pole evaporator fan motors in refrigerated display cases.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole motor in display case	Electronically Commutated Motor (ECM) in display case
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$55

14. ECMs - Replace Shaded Pole Fan Motors in Walk-in Coolers or Freezers

Applicable to existing shaded pole evaporator fan motors in refrigeration system evaporators in walk-in coolers or freezers.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole motor in walk-in evaporator	Electronically Commutated Motor (ECM) in walk-in evaporator
<p>Exclusions: Not applicable for motors with fans less than 10" in diameter. Not applicable if Evaporator Fan Control is already installed.</p>	
<p>Recommendations: This measure may be combined with "Walk-in Evaporator Fan Control – ECM" measure for additional energy savings and rebate. See measure 8.</p>	
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$140

15. ECMs for Compressor Head Fans

Must replace existing shaded pole compressor head-cooling fan motors with ECM fan motor.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole motor, 35-55 Watts	ECM motor, ≤20 Watts
<p>Exclusions: Applicable to only low temperature reciprocating compressor systems that are an integral part of a refrigeration system with a remote air cooled or evaporative condenser.</p>	
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$62

16. Motors — Shaded Pole to PSC in display cases

Applicable to existing shaded pole evaporator fan motors for refrigerated display cases.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole motor in display case	Permanent Split Capacitor (PSC) motor in display case
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$25

17. Motors — Shaded Pole to PSC in Walk-in Evaporator

Applicable to existing shaded pole evaporator fan motors for refrigeration system evaporators in walk-ins.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Shaded pole motor in walk-in evaporator	Permanent Split Capacitor (PSC) motor in walk-in evaporator
<p>Exclusions: Not applicable for motors with fans less than 10" in diameter. Rebate not available if Evaporator Fan Control is already installed.</p>	
Units: Motor	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$40

18. VFD on Condenser Fan Motor

Must install variable frequency drive (VFD) on condenser fan motors.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
No VFD present	All Condenser fan motors controlled via VFD
<p>Exclusions: Cannot be combined with measures that require a VFD or assume their installation in the energy savings calculations.</p>	
Units: Motor nameplate horsepower	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: \$225

Condensers & Compressors

19. High Efficiency Multiplex Compressor System

Must replace stand alone compressor system with a high efficiency multiplex compressor system.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Stand alone compressor system	High efficiency multiplex compressor system
Air Cooled Condenser - Fixed pressure head	<p>Floating head pressure controls, air-cooled condensers: Must use staged fans or variable speed drive. Must maintain an ambient following condensing setpoint of 10°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint for low temperature systems, and a 15°F TD or less for medium temperature systems. When a single circuit condenser is used, it must operate at a 10°F TD or less. Minimum saturated condensing temperature must be equal to or less than 70°F.</p>
Evaporative Cooled Condenser - Fixed pressure head	<p>Floating head pressure controls, evaporative-cooled condensers: Must use variable speed drive. Must maintain a wetbulb following setpoint of 25°F TD or less between the outside air wetbulb temperature and the setpoint. Minimum saturated condensing temperature must be equal to or less than 70°F.</p>
<p><u>Exclusions:</u> An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Frequency Drive (VFD) for Condensers.</p>	
<p><u>Notes:</u> See measure #21 if this measure is implemented in tandem with an efficient oversized condenser. Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a completed Rebate Design Checklist form and a refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.</p>	
<u>Units:</u> Ton	<u>Pre-Inspection Required:</u> Yes
<u>Measure Life:</u> 15 years	<u>Rebate:</u> \$300

20. Efficient / Oversized Air or Evaporative Condenser for Multiplex

Must replace an existing condenser with a new efficient/oversized condenser.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Existing condenser	Efficient/oversized condenser
Air Cooled Condenser - Fixed pressure head	Floating head pressure controls, air-cooled condensers: Must use stage fans or variable speed drive. Must maintain an ambient following condensing setpoint of 8°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint for low temperature systems, and a 13°F TD or less for medium temperature systems. When a single circuit condenser is used, it must operate at an 8°F TD or less. Minimum saturated condensing temperature must be equal to or less than 70°F.
Evaporative Cooled Condenser - Fixed pressure head	Floating head pressure controls, evaporative-cooled condensers: Must use variable speed drive. Must maintain a wetbulb following setpoint of 18°F TD or less between the outside air wetbulb temperature and the setpoint. Minimum saturated condensing temperature must be equal to or less than 70°F.
	Condenser energy efficiency ratio (EER) must be 105 or greater.
<p>Exclusions: An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Frequency Drive (VFD) for Condensers.</p>	
<p>Notes: See measure #21 if combined with a multiplex compressor implementation. This measure applies to new and existing multiplex systems. Rebate is limited to 150% of the required condenser capacity necessary to meet TD requirements. Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a completed Rebate Design Checklist form and a refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.</p>	
Units: Ton	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: \$110

21. Multiplex Compressor System with Efficient Condenser

Must replace a stand-alone compressor system with a multiplex compressor system, and replace an existing condenser with a new efficient/oversized condenser.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Requirements for both Multiplex Compressor Systems (Measure #21) and Efficient/Oversized Condensers (Measure #22) apply. Please refer to Terms & Conditions for these measures.
Notes: An installation of either a multiplex or an efficient condenser will be treated as a combined installation if the other item (a multiplex or efficient condenser) was installed in the current Program time frame. Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a completed Rebate Design Checklist form and a refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.	
Units: Ton	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: To be determined by Pre-Qualifying Review

22. Floating Head Pressure Controller for Multiplex Compressor System

Must convert the head pressure controls of an existing multiplex system from fixed control to floating control.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Fixed head pressure	Floating head pressure
	Air-cooled condensers: Must maintain an ambient following condensing setpoint of 12°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint. Either use a variable speed drive or assume no change in fan operation. If a variable frequency drive is used it must control all condenser fans in parallel, unless the controls sequence receives pre-approval by The Program.
	Evaporative-cooled condensers: Must maintain a wetbulb following setpoint of 17°F TD or less between the outside air wetbulb temperature and the setpoint. Must be controlled with a variable speed drive or 2 speed fan control.
	Minimum saturated condensing temperature must be equal to or less than 70°F.
Exclusions: Measure cannot be used in conjunction with measures that require floating head pressure controls.	
Units: Compressor nameplate horsepower	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: Air or Evap-Cooled: \$60 Air or Evap-Cooled with VFD: \$80

23. Floating Head Pressure Control on Single Compressor Systems

Must convert the head pressure controls of an existing single compressor system from fixed control to floating control. Applicable to either condensing unit or remote condensing refrigeration systems.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Fixed pressure head control valve	<p>Must replace any non adjustable flood-back control valve with adjustable flood-back control valve (head pressure control valve) to lower minimum condensing head pressure from 180 psig (93 F for R22) to saturated pressure equivalent of 70 F or less. Alternatively, a fan control safety switch can be used to maintain adequate head pressure.</p> <p>Pressure setting must be verified against a calibrated pressure gauge or transducer.</p>
Expansion valve	<p>To prevent evaporator from starving, at low condensing pressures, one of the following must be implemented:</p> <ul style="list-style-type: none"> - Replace each expansion valve with balanced-port valve or electronic expansion valve (EEV) sized to meet the load requirement at 70° F condensing temperature - Install a device to supplement refrigerant feed to each evaporator attached to the condenser. <p>Exemption: Existing expansion valve is a balanced port or electronic expansion valve.</p>
Compressor motor nameplate indicates motor is 1 HP or more	Same
A single compressor serves suction group	Same
Condenser intake air must be from outside ambient air	Same
Units: Compressor nameplate HP	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: Condensing Unit: \$100 Remote Condensing Unit: \$60

24. Floating Suction Pressure Controller

Must convert the suction pressure controls of an existing multiplex system from fixed control to floating control.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Fixed suction pressure set point	Floating suction pressure
	Suction pressure must be adjusted to the highest point that can still maintain setpoint temperatures at monitored cases on the suction circuit.
Notes: Pre-approval must be granted prior to installation.	
Units: Compressor nameplate horsepower	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: \$15

25. Air-Cooled to Evaporative-Cooled Condenser

Must replace an existing air-cooled condenser with an evaporative condenser.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Air-cooled condenser	Evaporative-cooled condenser
	Condenser must be sized to maintain a wetbulb following setpoint of 25°F temperature differential (TD) or less between the outside air wetbulb temperature and the setpoint.
Multiplex or single compressor system	Same
Exclusions: Rebate eligible only in hot/dry inland climate zones; not eligible in coastal or humid climate zones. Please contact your Field Energy Analyst or Program headquarters to determine if the store's climate zone qualifies for this rebate.	
Notes: Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a completed Rebate Design Checklist form and a refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.	
Units: Tons	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: \$195

26. Efficient Compressors — Low Temperature

Must replace a reed valve compressor with a disc valve or discus compressor on low temp systems.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
Reed valve compressor on low temp system	Disc valve or discus compressor on low temp system
Recommendations: Only compressors serving evaporators with Saturated Evaporative Temperatures (SET) of -10°F or less can benefit from this measure.	
Notes: Rebate will be allowed for up to 110% of the existing compressor capacity. Invoice must show both the pre-existing and new compressor model numbers.	
Units: Tons	Pre-Inspection Required: Yes
Measure Life: 15 years	Rebate: \$45

Case Lighting

27. Case Lighting T10/12 to T8

Must replace existing T10/12 lamps with T8 lamps in refrigerated display cases.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
T10/12 lamp with magnetic ballasts	T8 lamp with electronic ballast
	Lamp must have a minimum rated life of 24,000 hours with rapid-start ballasts or 18,000 hours with instant start ballasts (at 3-hour starting rating)
Units: Lamp	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: 4 ft lamp: \$12.75 5 ft lamp: \$15.00 6 ft lamp: \$18.75 8 ft lamp: \$22.50

28. Lighting — T-12, 5ft and 6ft Case Lighting - Magnetic to Electronic Ballast

Must replace existing magnetic ballasts controlling T12 case lights in refrigerated cases with electronic ballasts.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
T12 lamps with magnetic ballasts	T12 lamps with electronic ballasts that meet the following requirements: <ul style="list-style-type: none"> - High frequency (>20kHz) - UL-listed - Warranted against mechanical or electrical defects for five years - Power factor ≥ 0.90 - Rated at THD $\leq 20\%$ (5 ft lamps) at full light output - Rated at THD $\leq 32\%$ (6 ft lamps) at full light output
Units: Lamp	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$15

LEDs in Reach-in Refrigerated Cases

29. LEDs in Existing Reach-in Refrigerated Cases	
Must install a LED lighting system in lieu of a fluorescent lighting system in an existing reach-in refrigerated display case.	
<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
T8, T10 and T12 Fluorescent lamps operating with electronic or magnetic ballasts.	<p>Must install a LED lighting system and replace a fluorescent lighting system for existing reach-in refrigerated display cases.</p> <p>Fluorescent ballasts cannot be used to power the LED system.</p> <p>LED lighting system must be a permanently installed luminaire: LED lamps that install into fluorescent lamp sockets are not eligible for rebates.</p> <p>Installed LED lighting system must appear on the Lighting Design Lab's approved product list or on the Design Lighting Consortium's Qualified Product list.</p> <p>The Design Lighting Consortium's Qualified Product list can be found at: http://www.designlights.org/solidstate.about.QualifiedProductsList_Publicv2.php</p> <p>The Lighting Design Lab's list can be found at: http://www.lightingdesignlab.com/LED-List/LDL_LED_fixture_list.pdf</p> <p>T10 lamps will be treated as T12 lamps for the purpose of calculating rebate values.</p> <p>The total number of feet of LEDs rebated shall not exceed the total number of feet of fluorescent lamps replaced.</p>
<p><u>Recommendations:</u></p> <p>These measures may be combined with motion sensor measures for additional energy savings and rebate. See measure 32. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficiency improves.</p>	
<u>Units:</u> Ln Ft of LED	<u>Pre-Inspection Required:</u> No
<u>Measure Life:</u> 6 years	<p><u>Rebate:</u></p> <p>T-12 to LED – High Power (4 to 7.5 W/ft) - Retrofit \$20 T-12 to LED – Low Power (< 4 W/ft) - Retrofit - \$25 T-8 to LED – High Power (4 to 7.5 W/ft) - Retrofit - \$10 T-8 to LED – Low Power (< 4 W/ft) - Retrofit - \$20</p>

30. LEDs in New Reach-in Refrigerated Cases

Must install a LED lighting system in lieu of a fluorescent lighting system in a new reach-in refrigerated display case.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	<p>Must install a LED lighting system for new reach-in refrigerated display cases.</p> <p>Fluorescent ballasts cannot be used to power the LED system.</p> <p>LED lighting system must be a permanently installed luminaire.</p> <p>Installed LED lighting system must appear on the Lighting Design Lab's approved product list or on the Design Lighting Consortium's Qualified Product list.</p> <p>The Design Lighting Consortium's Qualified Product list can be found at: http://www.designlights.org/solidstate.about.QualifiedProductsList_Publicv2.php</p> <p>The Lighting Design Lab's list can be found at: http://www.lightingdesignlab.com/LED-List/LDL_LED_fixture_list.pdf</p> <p>T10 lamps will be treated as T12 lamps for the purpose of calculating rebate values.</p> <p>The total number of feet of LEDs rebated shall not exceed the total number of feet of fluorescent lamps replaced..</p>
<u>Exclusions:</u>	None
<p><u>Recommendations:</u></p> <p>These measures may be combined with motion sensor measures for additional energy savings and incentives. See Measure #32.</p> <p>Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficiency improves.</p>	
<u>Units:</u> Linear feet of LED	<u>Pre-Inspection Required:</u> No
<u>Measure Life:</u> 6 years	<p><u>Rebate:</u></p> <p>T-8 to LED – High Power (4 to 7.5 W/ft) - New \$10</p> <p>T8 to LED – Low Power (< 4 W/ft) - New \$10</p>

31. LED Motion Sensors for Reach-in Refrigerated Cases

Must install motion sensor that controls permanently installed LED lighting in refrigerated reach-in display cases.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Motion sensor must activate lighting control system that reduces lighting load to 20% or less of full load when unoccupied.
	Load reduction ability must be indicated on system specification sheets or confirmed by manufacturer.
	Load reduction programming must be indicated on manufacturer/installers invoicing.
Notes: Measure is applicable to LED lighting retrofits or existing LED case lighting without existing motion sensor installed.	
Units: Linear feet of lamp	Pre-Inspection Required: No
Measure Life: 8 years	Rebate: \$2

Vending Machine Controller

32. Vending Machine Controller

Must install control device on vending machine or beverage merchandiser that turns off machine when surrounding area is unoccupied.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit contains non-perishable food items limited to bottled and canned beverages.
No controller installed	Controller installed that includes a passive infrared occupancy sensor to turn off fluorescent lights (applicable to machines with illuminated front only) and compressor when surrounding area is unoccupied for 15 minutes or longer.
	During unoccupied periods, the control must periodically power up machine to maintain product temperature and provide compressor protection.
Units: Controller	Pre-Inspection Required: No
Measure Life: 15 years	Rebate: \$90

LEDs in Vertical Open Cases

33. LED Case Lighting in Existing Vertical and Semi-Vertical Open Refrigerated Cases

Must install a LED lighting system in lieu of a fluorescent lighting system in an existing vertical or semi-vertical open refrigerated display case.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
<p>T8, T10 and T12 Fluorescent lamps operating with an electronic or magnetic ballast.</p>	<p>Must install a LED lighting system in lieu of a fluorescent lighting system in an existing vertical or semi-vertical open refrigerated display case.</p> <p>Replaced fluorescent lamps and ballasts must be disposed of or recycled in accordance with current environmental laws after removal.</p> <p>LED lighting system must be a permanently installed luminaire. A luminaire that is modified and can no longer accept the original lamps must have a visible label affixed to the altered luminaire (provided by the retrofit manufacturer) indicating that the luminaire has been modified and can no longer operate originally intended lamp(s). Fluorescent ballasts cannot be used to power the LED system. Manufacturer's warranty must be a minimum of 3 years and must include fixtures, mounting hardware, power supply and light source (i.e. LED).</p> <p>LEDs must be rated to maintain $\geq 70\%$ of initial lumen output at 50,000 hours of operation.</p> <p>All installed LED products must have a minimum IP54 rating or UL listed for wet or damp locations. LED products must have LM-79 testing from a DOE (Department of Energy) approved testing lab demonstrating a Color Rendering Index (CRI) of 75 or greater and a minimum average luminous efficacy of 50 lumens/watt.</p> <p>A low power (<4.5 W/ft) LED fixture must replace a single lamp fluorescent fixture. A high power (4.5 to 8.5 W/ft) LED fixture must replace a double lamp fluorescent fixture.</p> <p>T10 lamps will be treated as T12 lamps for the purpose of calculating rebate values.</p>
<p>T8, T10 and T12 Fluorescent lamps operating with an electronic or magnetic ballast.</p>	<p>Delamp Open Case Lighting: LED Case Lighting from Fluorescent</p> <p>Must install a LED lighting system in lieu of a fluorescent lighting system in an existing vertical or semi-vertical open refrigerated display case.</p> <p>The delamp measure accounts for fluorescent lamps that are removed in addition to those retrofitted with LED's..</p> <p>Replaced fluorescent fixtures must be rendered inoperable after removal.</p>
<p>Units: Ln. Ft. of LED</p>	<p>Pre-Inspection Required: Yes</p>
<p>Measure Life: 6 years</p>	<p>Rebate:</p> <p>T-12 to LED – High Power (4.5 to 8.5 W/ft) Retrofit: \$24 T-12 to LED – Low Power (<4.5 W/ft) Retrofit: \$12 T-8 to LED – High Power (4.5 to 8.5 W/ft) Retrofit: \$15 T-8 to LED – Low Power (<4.5 W/ft) Retrofit: \$7 Delamp T-12: \$5 Delamp T-8: \$5</p>

34. LED Case Lighting in New Vertical and Semi-Vertical Open Refrigerated Cases

Must install a LED lighting system in lieu of a fluorescent lighting system in a new vertical or semi-vertical open refrigerated display case.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	<p>Must install a LED lighting system in lieu of a fluorescent lighting system in a new vertical or semi-vertical open refrigerated display case.</p> <p>Manufacturer's warranty must be a minimum of three years and must include fixtures, mounting hardware, power supply and light source (i.e. LED).</p> <p>LEDs must be rated to maintain $\geq 70\%$ of initial lumen output at 50,000 hours of operation.</p> <p>All installed LED products must have a minimum IP54 rating or UL listed for wet or damp locations. LED products must have LM-79 testing from an approved testing lab demonstrating a Color Rendering Index (CRI) of 75 or greater and a minimum average luminous efficacy of 50 lumens/watt.</p> <p>Incentives paid are based on length of LED fixture (ft). Incentive and energy savings values vary based on LED fixture power (low or high): a low power fixture is defined as one that uses less than 4.5 W/ ft of fixture; a high power fixture is defined as one using 4.5 to 8.5 W/ ft of fixture.</p>
Units: Ln. Ft. of LED	Pre-Inspection Required: No
Measure Life: 6 years	Rebate: High Power LED (4.5 to 8.5 W/ft) – New Case: \$11.50 Low Power LED (<4.5 W/ft) – New Case: \$5.00

Lighting

35. General Lighting Retrofits

Must retrofit overhead lighting with lamps that increase overall efficiency of lighting load.

<u>Recommendations</u>	<u>Post-Retrofit Requirements</u>
<p>Program approved products can be found at the following websites:</p> <p>www.cee1.org www.energystar.gov www.designlights.org www.lightingdesignlab.com</p>	<p>All equipment to be installed must meet specifications and requirements found at http://www.bpa.gov/energy/n/projects/lighting.</p> <p>Affected lighting load must be reduced by 25%.</p> <p>All materials, including PCB ballasts, must be disposed of or recycled in accordance with current environmental laws.</p>
<p>Notes: Lighting retrofit energy savings and rebates amounts are calculated for each specific project. Customer must be a commercial customer of a participating BPA utility and have a lighting audit performed by the EnergySmart Program prior to installation.</p>	
Units: Based on project	Pre-Inspection Required: Yes
Measure Life: Based on project	Rebate: Based on project

Commercial Food Service Measures

36. Electric Hot Food Holding Cabinet

Must install new high efficiency electric hot food holding cabinet.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must be listed on Consortium for Energy Efficiency's (CEE) Tier 2 qualifying list, found under "Hot Food Holding Cabinets" link at http://www.cee1.org/com/com-kit/com-kit-equip.php3 , or have an Idle Energy Rate of ≤ 20 Watts/ft ³ .
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: > 20 cu ft capacity: \$400 12 - 20 cu ft capacity: \$300 < 12 cu ft capacity: \$200

37. Electric Steamer

Must install new high efficiency electric steamer.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must have an Idle Energy Rate of ≤ 220 W (3-pan), ≤ 230 W (5-pan), ≤ 250 W (6-pan) and a Cooking Efficiency of 65% or greater. Refer to Consortium for Energy Efficiency's (CEE) "Steamers" link at http://www.cee1.org/com/com-kit/com-kit-equip.php3 to search for qualifying models. Note: all models on CEE list do not qualify for requirements listed above.
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: 3 Pan Capacity: \$100 5 or 6 Pan Capacity: \$200

38. High Efficiency Ice Maker

Must install new high efficiency ice maker.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Air-cooled unit
	Unit must be listed on Consortium for Energy Efficiency's (CEE) Tier 2 (Energy Star) or Tier 3 list, found under "Ice Machines" link at http://www.cee1.org/com/com-kit/com-kit-equip.php3
Units: Unit	Pre-Inspection Required: No
Measure Life: 10 years	Rebate: \$40-\$300, see Term 1

39. Dishwasher

Must install new high efficiency commercial dishwasher.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must meet RTF efficiency standards. Qualifying model list found on page 27.
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$100-\$750, see Term 1

40. Electric Fryer

Must install new high efficiency electric fryer.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must meet RTF efficiency standards. Qualifying model list found on page 28.
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$125

41. Electric Convection Oven

Must install new high efficiency electric convection oven.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must be Energy Star rated. Qualifying list found at http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=COO
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$200

42. Electric Combination Oven

Must install new high efficiency electric combination oven.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must have Cooking Efficiency of $\geq 70\%$
	Unit must have Idle Energy Rate of ≤ 3.5 kW
	Unit must meet RTF efficiency standards. Qualifying model list found on page 28.
Units: Unit	Pre-Inspection Required: No
Measure Life: 12 years	Rebate: \$1,750

43. Pre-Rinse Spray Valves

Must install new high efficiency pre-rinse spray valve and nozzle.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Flow rate of nozzle must be ≤ 1.6 gallons/minute.
	Dishwashing water must be electrically heated.
	Facility must serve 10 or more meal shifts per week (e.g. lunches and dinners five nights/week).
Exceptions: If the facility does not meet the shift requirement, the customer may document the reason for an exception to the 10-meal shift rule. The documentation must indicate that the rinse system uses the equivalent amount of energy as 10 or more meal shifts. Exceptions may include commercial bakeries, central school district cafeterias, or catering facilities that are used less frequently, but intensely with each use.	
Units: Unit	Pre-Inspection Required: No
Measure Life: 4 years	Rebate: \$80

44. Commercial Refrigerator/Freezer

Must install new Energy Star rated commercial refrigerator or freezer.

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
	Unit must be Energy Star rated, list of qualifying models found at: http://www.energystar.gov/ia/products/prod_lists/commer_refrig_prod_list.xls .
Units: Unit	Pre-Inspection Required: No
Measure Life: 20 years	Rebate: Solid Door Freezer - 5 cu ft - 30 cu ft: \$200 Solid Door Freezer - 30.1 cu ft - 60 cu ft: \$400 Solid Door Freezer - 60.1 cu ft - 90 cu ft: \$700 Solid or Glass Door Refrigerator - 5 cu ft - 30 cu ft: \$100 Solid or Glass Door Refrigerator - 30.1 cu ft - 60 cu ft: \$150 Solid or Glass Door Refrigerator - 60.1 cu ft - 90 cu ft: \$200

45. Variable Speed Drive (VSD) on HVAC Supply Fan in Grocery

Applicable to HVAC supply fan serving the 'sales area' of self-service commercial retail food service facilities of any size.

Existing Equipment Requirements

- Supply air fan must run continuously during occupied hours at fixed speed.
- Supply air fan motor must have a nameplate size of one (1) horsepower or larger.

Replacement Equipment Requirements

- Must install VSD (Variable Speed Drive) that slows the supply fan motor speed (RPM) and reduces the motor power draw on supply air fan:
 - When the thermostat calls for heating, cooling, or CO₂ sensor calls for ventilation, the VSD must run no higher than 98% (58.8 Hz) of the original fan motor speed.
 - When the thermostat is not calling for heating or cooling and CO₂ sensor is not calling for ventilation during occupied hours, then the VSD can lower the fan motor speed to no less than 40% (24 Hz) of the original fan motor speed.
 - When the thermostat or EMS HVAC control is in setback or unoccupied mode, the VSD must allow the motor to go fully off (0% speed) when the thermostat is not calling for heating or cooling and the CO₂ sensor is not calling for ventilation.
 - If the VSD is a Variable Frequency Drive (VFD), it must meet ANSI/IEEE 510 and ENAM ICS7 standards.
- Must remove or set at fully open position all air flow throttling devices, such as inlet vanes, bypass dampers, etc. in the HVAC system.
- Must install a self-calibrating CO₂ sensor in the return air duct, or if required by code in the space served by the HVAC system.

CO₂ sensor must be commissioned to assure proper control of the VSD thereby raising the fan speed up to 98%(58.8 Hz) of original speed whenever the sensor determines that the CO₂ concentration exceeds limits established by ASHRAE 62.1 or local code

Additional Information:

This measure is applicable to any motor over one (1) horse power, but the rebate caps at the ten (10) horse power level.

Recommendations:

Due diligence must be exercised to determine that the HVAC fan motor will not be damaged by the VSD.

Exclusions:

If a review of the thermostat or EMS supply fan control setting prior to installing this measure shows that the fan is allowed to turn off (intermittent or AUTO setting) during occupied hours when there is no call for heating or cooling, then this measure should not be installed without written consent from the owner stating that:

- 1) they want to improve their indoor air quality by changing the fan operation to continuous during occupied hours and
- 2) they understand that electrical energy use may increase due to increased fan operation.

Units: Nominal or Nameplate Fan Motor HP

Pre-Inspection Required: Yes

Post Install Inspection: Required (please contact program for requirement details)

Measure Life: 15 years

Rebate: \$150 per unit controlled and
 24 hour store - \$300 per motor HP controlled
 16 hour store - \$150 per motor HP controlled
 12 hour store - \$75 per motor HP controlled

Qualified Dishwashers - T&C #39

Under Counter			Single Tank Door (continued)		
Make	Model	Temp	Make	Model	Temp
ADS	ET-AF	Low	Jackson	Delta 5	Low
Auto-Chlor System	U34	Low	Jackson	Ware Force DG	Low
Auto-Chlor System	U34 PT-10	Low	Jackson	Conservor XL2	Low
Auto-Chlor System	U38	Low	Single Tank Conveyor		
CMA Dishmachines	GL-X	Low	Make	Model	Temp
CMA Dishmachines	L-1X	Low	ADS	ADC-44	High-Low
CMA Dishmachines	L-1X16	Low	ADS	ADC-66	High-Low
Ecolab	ES-1000N	Low	Admiral	44-4CS	Low
Ecolab	PA-UN	Low	Admiral	66-4CS	Low
Hobart	LXiC	Low	Auto-Chlor System	AC-44	Low
Hobart	LXiGC	Low	Auto-Chlor System	AC-44RC	Low
Jackson	Avenger LT	Low	Auto-Chlor System	AC-66	Low
Jackson	Avenger LTH	Low	Hobart	CL54e	High-Low
Jackson	WareFroce UL30	Low	Hobart	CLCS76e	High-Low
Single Tank Door			Hobart	CLPS76e	High-Low
Make	Model	Temp	Hobart	C54A	High-Low
ADS	HT-25	High-Low	Hobart	CCS76A	High-Low
ADS	AFC-ES	Low	Hobart	CPW90A	High-Low
ADS	AF-ES	Low	Hobart	CRS76A	High-Low
Auto-Chlor Systems	A4	Low	Hobart	CL44e	High-Low
Auto-Chlor Systems	A4 (IW)	Low	Hobart	CLCS66e	High-Low
Auto-Chlor Systems	A5	Low	Hobart	CLPS66e	High-Low
Auto-Chlor Systems	A5 (IW)	Low	Hobart	C44A	High-Low
Auto-Chlor Systems	D2	Low	Hobart	CCS66A	High-Low
Auto-Chlor Systems	D2CL	Low	Hobart	CPW80A	High-Low
Auto-Chlor Systems	D2CR	Low	Hobart	CRS66A	High-Low
CMA Dishmachines	EST-AH1	Low	Hobart	FRC54A	High-Low
CMA Dishmachines	EST-AH2	Low	Hobart	FRC76A	High-Low
CMA Dishmachines	EST-AH3	Low	Hobart	FRC90A	High-Low
CMA Dishmachines	EST-AH4	Low	Hobart	FRCL44e	High-Low
CMA Dishmachines	EST-C 1	Low	Hobart	FRCL54e	High-Low
CMA Dishmachines	EST-C 2	Low	Hobart	FRCL66e	High-Low
CMA Dishmachines	EST-C 3	Low	Hobart	FRCL76e	High-Low
CMA Dishmachines	EST-C 4	Low	Hobart	FRC44A	High-Low
Ecolab	APEX TSC	Low	Hobart	FRC66A	High-Low
Ecolab	APEX TSC (Dbl)	Low	Hobart	FRC80A	High-Low
Ecolab	ES-2000	Low	Jackson	AJX-44CE	High-Low
Ecolab	ES-4000	Low	Jackson	AJX-66CE	High-Low
Ecolab	PA-1	Low	Jackson	AJX-80CE	High-Low
Ecolab	PA-2	Low	Jackson	Ware Force 44L	Low
Ecolab	Omega 5E	Low	Multi-Tank Conveyor		
Hobart	AM15	High-Low	Make	Model	Temp
Hobart	AM15T	High-Low	Hobart	CL64e	High-Low
Hobart	AM15F	High-Low	Hobart	CLCS86e	High-Low
Insinger	CS-5	Low	Hobart	CLPS86e	High-Low
Insinger	CS-5C	Low	Hobart	FRCL64e	High-Low
Insinger	CS-5CH	Low	Hobart	FRCL86e	High-Low
Insinger	CS-5H	Low			

Qualified Electric Fryers - T&C #40

Company Name	Brand Name	Model Name	Model Number	Fryer Size (Inches)	Cooking Energy Efficiency (%)	Idle Energy Rate (Watts)
Hobart Corporation	Hobart	1HF50D	1HF50D	14	83.70%	630
Frymaster L.L.C.	Frymaster	RE14TC	RE14TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BK14TC	BK14TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BK14TRC	BK14TRC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BKFP214TC	BKFP214TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BKFP214TRC	BKFP214TRC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BKFP314TC	BKFP314TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BKFP314TRC	BKFP314TRC	14	87.17%	772
Frymaster L.L.C.	Frymaster	BKFP414TC	BKFP414TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	RE17TC	RE17TC	14	87.17%	772
Frymaster L.L.C.	Frymaster	RE22TC	RE22TC	14	87.16%	772
Frymaster L.L.C.	Frymaster	Protector	FPELx22	13x14	86.90%	810
Frymaster L.L.C.	Protector	FPELx14	FPELx14	14	85.60%	790
Frymaster L.L.C.	LOV	BIELx14	BIELx14	14	85.60%	790
Vulcan-Hart Company	Vulcan	1ER50D	1ER50D	14	83.70%	630

Qualified Electric Commercial Combination Ovens - T&C #42

Manufacturer	Model Number	Heavy Load Efficiency (%)	Idle Energy Rate (%)
Alto-Shaam	7-14ES	79%	1.9
Alto-Shaam	7-14ESi	82%	1.6
Cleveland	OEB 10.10	80%	1.7
Cleveland	OEB- 6.2	76%	1.9
Cleveland	OES-6.2	70%	2.9
BKI	1.1	73%	1.85
BKI	1.06	70%	2
Blodgett	BX-14E	72%	3.3
Henny Penny	ECC-61	82%	3.1