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These terms and conditions are subject to change without notice. All measures require a pre-install inspection by a program representative. Please check with your Account Manager 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

Cases

Refrigeration Retrofits

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

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

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	LED lamps
No doors	Glass doors with Anti Sweat Heat Controls (ASH)
Shaded pole fan motors	EC 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 EC Motors, T-8 lamps or anti-sweat heat controls.

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).

LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #7).

Units: Linear feet of case

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)	LED lamps
Glass doors (reach-in only)	Low/no anti-sweat heat glass doors (see measure #4)
Shaded pole fan motors	EC 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.

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

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>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps, magnetic ballasts	LED lamps
	Evaporators must meet Saturated Evaporative Temperatures (SET) as follows: Produce, ≥ 29°F; Dairy / Deli, ≥ 26°F; Meat, ≥ 22°F
Shaded pole fan motors	EC fan motors

Exclusions:

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 EC Motors or T-8 lamps.

Units: Linear feet of case

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>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Glass door	Triple pane glass door
Anti-sweat heat >0.39 amps/linear feet of case at 120 volts	Anti-sweat heat in door rail, glass, and frame must be ≤0.39 amps/Linear feet of case at 120 volts.
	Doors must prevent condensation from occurring in the frame assembly.

Exclusions: An additional separate rebate cannot be claimed for Anti-sweat Heater Controls.

Units: Door

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 with no doors	Doors installed on walk-in reach-in with no anti-sweat heaters (ASH)
T-8 lamps	LED lamps
Display case evaporator coil with shaded pole fan motors	Case evaporator coil, fans, and motors removed

Exclusions: An additional separate rebate cannot be claimed for Anti-sweat Heater Controls.

Recommendation: LEDs in Existing Reach-in Refrigerated Cases are recommended in conjunction with this measure to minimize post retrofit total lighting power.

Units: Linear feet of case

6. Add Doors to Open Medium Temp Cases

Must add glass doors to an existing open vertical medium temp display case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Open vertical medium temp display case	Doors installed on open vertical medium temp display case
T-8/10/12 lamps or LEDs	LEDs (Installed LEDs must be on approved LDL or DLC list)
	Post retrofit total case lighting power may not exceed pre-retrofit total case lighting power

Exclusions: Retrofitted door must not have anti-sweat heat in the door, rail, or frame. Not applicable to wet rack cases.

Cases with previously installed and/or rebated night covers qualify for the “Add doors to open Medium Temp Cases with night covers” version of this measure. No additional rebates for adding case LEDs may be claimed in conjunction with this measure.

Recommendation:

Refrigeration load will be reduced as a result of adding doors to cases. Consult with your refrigeration contractor to make adjustments to refrigeration system capacity control.

Low Power LED lighting refers to lighting fixtures with a power consumption between 4 W/ft of luminaire and 2.5 W/ft of luminaire
Ultra Low Power LED lighting refers to lighting fixtures with a power consumption less than 2.5 W/ft of luminaire

“French” Doors are a configuration of two reach-in doors that swing open away from the center interface between the two doors. French style doors do not have a traditional mullion; instead they have overlapping gasket material that creates a temporary seal when the two doors are closed. French doors typically have lighting on the doors next to the hinges, and along the top door frame.

Units: Linear feet of case

Case Lighting

7. Case Lighting Retrofits

<u>Pre-Retrofit Requirements</u>	<u>Post-Retrofit Requirements</u>
T8, T10 or T12 Fluorescent lamps operating with electronic or magnetic ballasts.	<p>Must install a LED lighting system in lieu of a fluorescent lighting system in an existing reach-in or open multi-deck refrigerated case.</p> <p>The efficacy of the LED lamp must be no less than 10 Lumens/watt of the Design Lights Consortium specification of 80 lumens/watt.</p> <p>LEDs must be rated for at least 50,000 lifetime hours T10 lamps will be treated as T12 lamps for the purpose of calculating rebate values.</p> <p>A low power LED is defined as $\leq 4.5W$ per linear ft, a high power high LED is defined as one $>4.5W$ per linear ft.</p> <p>The total number of feet of LEDs rebated shall not exceed the total number of feet of fluorescent lamps replaced.</p>

Notes: A luminaire that is modified and can no longer accept the original lamps must have a visible label affixed to the altered luminaire indicating the modified luminaire and can no longer operate originally intended lamp(s). All materials, including PCB ballasts, must be disposed of or recycled in accordance with current environmental laws.
Drop in replacement LED tubes must use manufacturer recommended ballast and driver type.
Outside lamp is defined as lamps located on an open multi deck case canopy or rail.
Inside lamp is defined as lamps located on an open multi deck case shelf or inside of a reach-in case.
Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficiency improves.

Recommendations

Program recommends that products be selected from the following Qualified Products List (QPL), have a 5 Year manufacturer product warranty and have an efficacy of at least 80 lumens/Watt.
www.designlights.org
www.lightingdesignlab.com

Units: Ln Ft of LED	Pre-Inspection Required: No
Measure Life: 8 years	<p>Rebate: <u>Single to Single Lamp Replacements:</u></p> <ul style="list-style-type: none"> • MT Case: T8 to LP LED Inside Lamp = \$10.00/Ln Ft • MT Case: T12 to LP LED Inside Lamp = \$10.00/Ln Ft • LT Case: T8 to LP LED Inside Lamp = \$10.00/Ln Ft • LT Case: T12 to LP LED Inside Lamp = \$10.00/Ln Ft • MT Case: T8 to LP LED Outside Lamp = \$7.00/Ln Ft • MT Case: T12 to LP LED Outside Lamp = \$7.00/Ln Ft <p><u>Double to Single Lamp Replacements:</u></p> <ul style="list-style-type: none"> • MT Case: 2 T8 to 1 HP LED Inside Lamp = \$18.00/Ln Ft • MT Case: 2 T12 to 1 HP LED Inside Lamp = \$18.00/Ln Ft • LT Case: 2 T8 to 1 HP LED Inside Lamp = \$18.00/Ln Ft • LT Case: 2 T12 to 1 HP LED Inside Lamp = \$18.00/Ln Ft • MT Case: 2 T8 to 1 HP LED Outside Lamp = \$10.00/Ln Ft • MT Case: 2 T12 to 1 HP LED Outside Lamp = \$10.00/Ln Ft <p><u>Delamping:</u></p> <ul style="list-style-type: none"> • All Delamping = \$3.00/Ln Ft

Controls

8. Anti-Sweat Heater (ASH) Controls

Must install a device that controls the ASH load of reach-in doors.
This measure is relevant for both medium and low temp reach-in glass door cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
<p><u>Medium Temperature Case</u> Uncontrolled ASH present > 0.20 amps/ft of case (door rail, glass and/or frame heating element combined)</p>	<p>Must automatically modulate door ASH output based on environmental conditions (temperature or relative humidity) as measured by a sensor that is part of the control system</p>
<p><u>Low Temperature Case</u> Uncontrolled ASH present > 0.37 amps/ ft of case (door rail, glass and/or frame heating element combined)</p>	

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:

The ASH controller is expected to reduce the runtime on LT cases by 50% and on MT cases by 80%
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

9. Walk-in Evaporator Fan Control - ECM

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>Existing Equipment Requirements</u>	<u>Replacement Equipment 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).

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.

Units: Motor

Strip Curtains and Gaskets

10. Strip Curtains

Must install new strip curtains or plastic swinging doors on qualifying walk-in doorways.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
No strip curtains installed	Strip curtains ≥0.06 inches thick
	Low temp strip curtains must be used on low temp applications.

Exclusions: Rebate is only eligible for applications in supermarket walk-in freezers & coolers, convenience store freezers and restaurant walk-in freezers. A supermarket is defined as a ≥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.

This measure is eligible for a one-time incentive only. Measure is not eligible for equipment with strip curtains included in a maintenance contract, providing regular upkeep/replacement. Rebate is not available for replacement of existing strip curtains, or application of strip curtains on display cases restaurant walk-in freezers located inside of walk-in coolers.

Rebate is not available for other facility types such as drug stores.

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.

Units: Square feet of doorway (measured inside door frame)

11. 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>Existing Equipment Requirements</u>	<u>Replacement Equipment 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. This measure is eligible for a one-time incentive only. Measure is not eligible for equipment with gaskets included in a maintenance contract providing regular upkeep/replacement.	Replacement gaskets and/or door sweep must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism.

Exclusions: Under counter half coolers, freezers, or beverage merchandisers do not qualify for rebates.

Units: Door

Motors

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

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

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in display case	Electronically Commutated Motor (ECM) in display case

Units: Motor

13. 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>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in walk-in evaporator	Electronically Commutated Motor (ECM) in walk-in evaporator

Exclusions: Not applicable for motors with fans less than 10" in diameter.
Not applicable if Evaporator Fan Control is already installed.

Recommendations: This measure may be combined with "Walk-in Evaporator Fan Control – ECM" measure for additional energy savings and rebate. See measure #14.

Units: Motor

14. VFD on Condenser Fan Motor

Must install variable frequency drive (VFD) on condenser fan motor(s) serving a multiplex system.

Existing Equipment Requirements

Replacement Equipment Requirements

No VFD present

Condenser fan motors controlled via VFD

Exclusions: Cannot be combined with measures that require a VFD or assume their installation in the energy savings calculations.

Units: Motor nameplate horsepower

15. ECMs for Compressor Head Fans

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

Existing Equipment Requirements

Replacement Equipment Requirements

Shaded pole motor, 35-55 Watts

ECM motor, ≤20 Watts

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.

Units: Motor

Compressors and Condensers

16. High Efficiency Multiplex Compressor System

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

Existing Equipment Requirements

Replacement Equipment Requirements

Stand-alone compressor system

High efficiency multiplex compressor system

Air Cooled Condenser - Fixed pressure head

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.

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 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.

Exclusions: An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Speed Drive for Condensers.

Notes: See measure #29 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 copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

Units: Ton

17. Efficient/Oversized Air or Evaporative Condenser for Multiplex

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

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment 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. Condenser energy efficiency ratio (EER) must be 105 MBH/kW or greater.
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 240 MBH/kW or better.

Exclusions: An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Speed Drive for Condensers.

Notes: EER will be calculated by the EnergySmart Program. See measure #29 if combined with a multiplex compressor implementation. Rebate is limited to 150% of the required condenser capacity necessary to meet TD requirements. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

Units: Ton

18. 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>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	Requirements for both Multiplex Compressor Systems (Measure #26) and Efficient/Oversized Condensers (Measure #27) 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 is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

Units: Ton

19. 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	

20. Floating Suction Pressure Controller

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

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Fixed suction pressure set point	Floating suction pressure
	Suction pressure must be adjusted to the highest point that can still maintain set point temperatures at monitored cases on the suction circuit.
Units: Compressor nameplate horsepower	

21. 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 set point of 25°F temperature differential (TD) or less between the outside air wetbulb temperature and the set point.
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 copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.	
Units: Tons	Pre-Inspection Required: Yes

22. Efficient Compressors — Low Temperature

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

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment 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

Lighting Measures

23. General Lighting Retrofits

For general lighting retrofits, must retrofit facility with lamps or lamp controls that increase overall efficiency of lighting load.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Contact program for details.	Contact program for details.

Unit: To be determined by pre-qualifying review

Disclaimer: The selection, purchase, and ownership of the equipment are the sole responsibility of the customer. The EnergySmart Grocer Program makes no representation as to the safety, reliability, and/or efficiency of the equipment selected or components thereof. The EnergySmart Grocer Program makes no warranty, expressed or implied, for any particular purpose, use or application of the equipment.

24. Advanced Rooftop Unit Control Retrofit

Applicable to existing roof top units (RTU).

Existing Equipment Requirements

- Have greater than 5 tons of cooling capacity
- Unitary equipment (no split-systems)
- Constant speed supply fan (no variable speed fans)
- Serve a single zone

Replacement Equipment Requirements

- Variable speed, multi-speed or cycling of supply fan while meeting ventilation and space conditioning needs
- For full ARC Retrofit, must also include a digital, integrated economizer control and Web-enabled control, monitoring, and alarms.

Additional Information

Rebate is broken into regular occupancy and high occupancy, and Full and Lite options. Regular occupancy is defined as 2,000-4,000 occupied hours a year. High occupancy is defined as 4,001-8,760 occupied hours a year. A full ARC retrofit includes both the fan replacement requirements and has a digital, integrated economizer control. It is recommended that systems receive a tune up prior to installation of the advanced controller to optimize energy savings.

Units: Tons

Pre-Inspection Required: Yes

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

Measure Life: 5 years

Rebate:

Full ARC retrofit --

Regular occupancy \$150

High occupancy \$225

Lite ARC retrofit –

Regular Occupancy \$100

High Occupancy \$150

Commercial Food Service

For potential kitchen appliance incentives, please reference the Commercial Kitchen Incentives website:

<http://pse.com/savingsandenergycenter/ForBusinesses/Pages/Commercial-Kitchen-Equipment.aspx>