

EnergySmart Grocer Program Equipment Specification

These terms and conditions are subject to change without notice. Please check with the Program to confirm that proposed installations meet terms and conditions. Call (866)961-6153 to speak with a program representative. If a custom measure potentially yields equal or greater energy savings, an engineering review may be requested to determine whether it qualifies for a rebate.

Terms and Conditions: Refrigeration

Refrigeration Definitions

“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 open multi-deck display case with a new high efficiency reach-in unit with standard glass doors with Electronically Commutated Motor (ECM) fan, T-8 lamps and electronic ballasts. This measure can be applied to self-contained or remote cases. New display cases are rebated based on their length. New case length must be equal to or shorter than original case.

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

A new high efficiency reach-in display case must replace an existing low temperature coffin case, self-contained case or remote reach-in as shown below.

Must replace an existing coffin case or case with T-12 lamps, magnetic ballast, Shaded-pole fan motors and standard glass doors. The new case must have T-8 lamps, electronic ballasts, ECM fan motors and have Low/no anti-sweat glass double pane doors meeting the requirements of **Special Doors with Low/No Anti-Sweat Heat on Low Temperature Display Cases** measure. Instead of the Special Doors with low anti-sweat heat, triple pane doors with anti-sweat heater controls may be used. A separate rebate for Anti-Sweat heater controls may not be claimed.

3. Medium Temperature Open Case to High Efficiency Open Case

Must replace an existing medium temperature open case with high efficiency open case equipped with new ECM fan motor(s), T-8 lamps, and electronic ballasts. Cases must be equipped with high efficiency evaporators that meet SET conditions as follows: Produce, $\geq 29^{\circ}\text{F}$.; Dairy / Deli, $\geq 26^{\circ}\text{F}$.; Meat, $\geq 22^{\circ}\text{F}$. Must raise suction temperature set point on the suction group of the replaced case(s) by at least 3°F. Case length must be equal to or shorter than original case. Rebate is based on linear footage of the case.

4. Special Doors with Low/no Anti-sweat Heat on Low Temperature Display Cases

Must replace an existing standard glass door of a low temperature reach-in display case with a special glass door that requires minimum to no anti-sweat heat (ASH). Doors must prevent condensation from occurring within the frame assembly. Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.39 amps per foot of display case. Rebate is based on number of doors replaced. This measure cannot be used in conjunction with the **Anti-Sweat Heater Controls** measure.

5. Anti-Sweat Heater (ASH) Controls

Must install a device that senses the relative humidity in the air outside of the display case and reduces or turns off the glass door (if applicable) and frame anti-sweat heaters at low humidity conditions. Equivalent technologies that can reduce or turn off anti-sweat heater based on the amount of condensation formed on the inner glass pane may also qualify. This measure cannot be used in conjunction with the **Low or Medium Temperature Open Case to New Reach-in** measures. Rebate is based on the total linear footage of the case.

6. Night Covers for Open Vertical and Horizontal Display Cases

Must install a cover on an otherwise open display case to decrease cooling load of the refrigerated case during off-hours. The rebate is based on linear footage of the installed night cover. It is recommended that these film type covers have small, perforated holes to decrease moisture buildup. The cover must be applied for a period of at least six hours in a 24 hour period. Customer should consider using proper compressor capacity modulation mechanisms (such as Variable Speed Drive [VSD] or cylinder un-loader); Evaporator Pressure Regulator (EPR) and possibly resetting to higher suction temperatures when shields are applied. Case manufacturer must not have objections to the use of this measure.

7. Strip Curtains for Walk-in Boxes

Must install new strip curtains or plastic swinging doors on doorways of walk-in boxes and refrigerated warehouses. This rebate is not available for replacement of existing strip curtains that have useful life left. Curtain strips that no longer have useful life are missing or cut. Useful life of existing curtains can be determined by Program Field Energy Analyst if needed. Rebate is based on the square footage of the doorway.

8. Insulation for Bare Suction Lines

Must insulate bare refrigeration suction lines of 1 5/8 inches or less on existing equipment only. Medium temperature lines require 3/4-inch of flexible closed-cell nitrite rubber, or equivalent insulation, and low temperature lines require 1-inch of the same insulation. Insulation exposed to outside weather must be jacketed (such as with a medium-gauge aluminum jacket) or protected from the weather in some way. Rebate is based on the length, in linear feet, of the insulation installed.

9. Door Gaskets on Solid Doors

Must replace a worn gasket on the insulated opaque door of a walk-in or reach-in cooler or freezer. Replacement gaskets must meet the manufacturer's installation specifications, specifically regarding dimensions, materials, attachment method, style, compression, and magnetism. Rebate is based on total door perimeter in linear feet.

10. Door Gaskets on Glass Doors

Must replace a worn gasket on a reach-in glass door(s) of a cooler or freezer. Replacement gaskets must meet the manufacturer's installation specifications, specifically regarding dimensions, materials, attachment method, style, compression, and magnetism. Rebate is based on total door perimeter in linear feet.

11. Auto-Closers for (Main) Walk-in Coolers or Freezers (Doors)

The auto-closer must be applied to the main insulated opaque door(s) of a walk-in cooler or freezer. The auto-closer must be able to firmly close that door when it is within one inch of full closure.

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

The auto-closer device must be applied to the glass reach-in door of a cooler or freezer. The reach-in door must have a minimum perimeter of 16 feet. The auto-closer must be able to firmly close the door within one inch of full closure. Only full replacement or repairs that include replacement of hard parts qualify. Pre-approval by ESG program is obtained through a program assessment. To schedule an assessment please call (866)961-6153.

13. Evaporator Fan Controller for Walk-in Coolers

Must reduce airflow of evaporator fans in medium-temperature walk-in coolers when compressor(s) cycle off and there is no refrigerant flow through the evaporator. Must control a minimum fan load of 1/20 horsepower where the fan(s) operate continuously at full speed. Must reduce fan motor power by at least 75% during the compressor off-cycle.

Do not use if any of the following conditions apply:

- 1) the compressor runs all the time with high duty cycle;
- 2) the evaporator fan does not run at full speed all the time;
- 3) the evaporator fan motor runs on poly-phase power;
- 4) the evaporator fan motor is not shaded-pole; or time-off defrost
- 5) evaporator does not use off-cycle or time-off defrost

14. ECMs for Walk-in Coolers or Freezers

Applicable to existing standard efficiency shaded pole evaporator fan motors for refrigeration system evaporators in walk-ins. Shaded pole motors must be replaced by electronically commutated motors (ECMs). Not applicable for motors with fans less than 10" in diameter and not applicable if Evaporator Fan Control is already installed. Rebate is based on number of motors replaced.

15. Efficient Evaporator Fan Motor

Applicable to existing standard efficiency shaded-pole evaporator fan motor of refrigerated display cases or fan coil systems in walk-ins. Shaded-pole motors to be replaced by either Electronically Commutated Motors (ECM) or Permanent-Split-Capacitor (PSC) Motors. For walk-in box motors with fan diameter of 10" or more see the measure **ECMs for Walk-in Coolers or Freezers**.

16. Controlled ECM (from Shaded Pole Motors)

Must replace existing standard efficiency shaded pole evaporator fan motor with controlled electronically commutated motor (ECM). Motor retrofits must take place in walk-in coolers or freezers. Not applicable for motors with fans less than 10" in diameter and not applicable if automated evaporator fan speed reduction control is already installed on existing motor. New ECM motor must be controlled to a reduced power draw, not to exceed 20% of full speed power draw, when there is no requirement for cooling from the thermostat. Rebate cannot be used in conjunction with Rebate for **ECMs for Walk-in Coolers or Freezers** Measure. Rebate is based on number of motors replaced.

Do not use if any of the following conditions apply:

- 1) the compressor runs all the time with high duty cycle;
- 2) the evaporator fan does not run at full speed all the time.

17. Vending Machine Controller

Intended for refrigerated vending machines containing only non-perishable bottled and canned beverages. Controller must include a passive infrared occupancy sensor to turn off fluorescent lights and compressor when surrounding area is unoccupied for 15 minutes or longer. Control logic should periodically power up machine at two-hour intervals to maintain product temperature and provide compressor protection. Refurbished vending machines that include this option are eligible.

18. Beverage Merchandiser Controller

Energy control device for stand alone refrigerated glass door beverage merchandisers that contain non-perishable food items limited to bottled and canned beverages. Controller must include a passive infrared occupancy sensor to turn off 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.

19. High Efficiency Multiplex Compressor System

Replace stand alone compressor system with a high efficiency multiplex compressor system. Must include floating head pressure control and mechanical subcooling. The system must operate with a 5°F subcooling or greater at design conditions. For air-cooled condensers, must use staged fans or variable speed drive. For evaporative-cooled condensers, must use a variable speed drive. Air-cooled condensers must operate

at less than or equal to 10°F Temperature Difference (TD) above ambient dry bulb temperature for low temperature, and at less than or equal to 15°F TD for medium temperature. When a single circuit condenser is used, it must operate at less than or equal to 10°F (TD). Evaporative condensers must operate at less than or equal to 25°F TD above ambient wet-bulb temperature. Rebate is based on multiplex compressor capacity in tons and is subject to an engineering review to verify conformity with terms and conditions before any installation.

An additional rebate cannot be claimed for floating head pressure control. If a VFD is installed at this time, Variable Frequency Drive Motors cannot be claimed.

Send a completed Design Checklist form, available at www.EnergySmartGrocer.org, and a refrigeration schedule to your Field Energy Analyst or program headquarters for review to pre-qualify this measure for the rebate.

20. Efficient Condensers

An existing condenser must be replaced with a new energy efficient condenser with floating head pressure controls. For air-cooled condensers, must use three staged fans or variable speed drive. For evaporative-cooled condensers, must use a variable speed drive. An additional rebate cannot be claimed for a variable speed drive. New air-cooled condensers must operate at less than or equal to 8°F Temperature difference (TD) for low temperature systems and at less than or equal to 13°F TD for medium temperature systems. If a single circuit air-cooled condenser is used it must be sized for an 8°F Temperature difference. New evaporative condensers must operate at less than or equal to 18°F TD above ambient wet-bulb temperature. The system must operate with a 5°F subcooling or greater at design conditions. This measure applies to new and existing multiplex systems.

The average efficiency (EER) must be 105 for an air-cooled condenser and 240 for an evaporative condenser. This will be calculated by the EnergySmart Grocer program.

Rebate is based on condenser capacity tons at standard conditions and is limited to 150% of the required condenser capacity necessary to meet TD requirements. If combined with a multiplex compressor implementation, see **Multiplex Compressor System with Efficient Condenser**. Rebate is subject to an engineering review to verify conformity with terms and conditions. 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.

21. Floating Head Pressure Controller

Must convert the head pressure controls of an existing multiplex system from fixed control to floating control. The condensers must use variable speed drive or a staged fan-operation. The minimum saturated condenser temperature programmed will be equal or less than 70°F. Rebate is based on multiplex compressor system hp and is subject to an engineering review to verify conformity with terms and conditions. Cannot be used in conjunction with measures that already incorporate floating head pressure controls. Send a completed Design Checklist form, available at www.EnergySmartGrocer.org, and a refrigeration schedule to your Field Energy Analyst or program headquarters for review to pre-qualify this measure for the rebate.

22. Reduced Head Pressure

Must reduce fixed head pressure setpoint of an existing multiplex system to a lower fixed setpoint of 70°F SCT or lower. Rebate is based on multiplex compressor system hp and is subject to an engineering review to verify conformity with terms and conditions. Cannot be used in conjunction with measures that already incorporate floating head pressure controls. Send a completed Design Checklist form, available at www.EnergySmartGrocer.org, and a refrigeration schedule to your Field Energy Analyst or program headquarters for review to pre-qualify this measure for the rebate.

23. Floating Suction Pressure Controller

Must convert the suction pressure controls of an existing multiplex system from fixed control to floating control. Requires that suction pressure be adjusted to the highest point that can still maintain setpoint temperatures at monitored cases on the suction circuit. Rebate is based on multiplex compressor

horsepower and is subject to an engineering review to verify conformity with terms and conditions. The program offers bid review services to pre-qualify this measure for the rebate. Send the completed design checklist form, available at www.EnergySmartGrocer.org, and a refrigeration schedule to your Field Energy Analyst or program headquarters for review to pre-qualify this measure for the rebate.

24. Air-Cooled to Evaporative Condenser

Must replace an existing air-cooled condenser with an evaporative condenser. The replacement is available only in dry climates, this includes the following California Energy Commission (CEC Climate Zones CZ09, CZ10, CZ11, CZ12, CZ13, CZ14, CZ15 Measure can take place for both multiplex and single compressor systems. New evaporative condenser must be sized at less than or equal to 25°F TD above ambient wet bulb. Rebate is based on condenser tons and is subject to an engineering review to verify conformity with terms and conditions. Complete and send design checklist form, available at www.energysmartgrocer.org, and a refrigeration schedule to your Field Energy Analyst or program headquarters for review to pre-qualify this measure for the rebate. This is not required before installation but highly recommended to ensure product qualifies. This is required before a rebate is issued.

25. Efficient Compressors – Low Temperature

Must replace a reed valve compressor with a disc valve or Discus Compressor. Rebates will be allowed for up to 110% of the existing compressor capacity. Rebate is based on new compressor tons. Invoice must show both the replaced and new compressor model numbers. Only refrigeration systems with an evaporator temperature of –10°F or less can benefit from this measure.

26. Compact Fluorescent Lamp in Walk-in (from Incandescent)

Rebate applies only if an incandescent lamp is being replaced by a compact fluorescent lamp (CFL) 27 W or more. All CFLs must be Energy Star® rated and rated to start at –20°F or lower. Must replace incandescent lamp with 100 Watts or higher. Rebate based on number of 27 W CFLs installed.

27. Hardwired T8 in Walk-in (from Incandescent)

Must replace an existing incandescent fixture with a hardwired 4' T8 fluorescent fixture. T8 lamps must have a minimum rated life (at 3-hour starting rating) of 24,000 hours with rapid-start ballasts or 18,000 hours with instant start ballasts. Rebate is based on number of lamps installed. Lamp and ballast must be rated to start at –20°F or lower.

28. Variable Frequency Drive Motors

Rebate applies to VFD installed on refrigeration compressor motors and condenser fan motors. Cannot be combined with rebates where a VFD is specified as a requirement or assumed in the energy savings calculations. Rebate is based on motor hp, not VFD hp.

29. Case Lighting T10/12 to T8

Must replace existing magnetically ballasted T10 or T12 case lighting in medium temperature cases and reach-ins with electronically ballasted T8 lighting. T8 lamps 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). Rebate is based on the number of lamps installed.

30. Case Lighting T12 Magnetic to Electronic Ballast

Must replace the existing magnetic ballasts controlling T12 case lights in medium or low temperature cases with electronic ballasts. Electronic ballast(s) must be high frequency (>20kHz), UL-listed, and warranted against mechanical or electrical defects for five years. Ballasts must have a power factor ≥ 0.90. Ballasts for 4-foot and 8-foot lamps must be rated at THD ≤ 20% at full light output. . Rebate is based on the number of lamps controlled by new electronic ballasts.

31. LED Case Lighting

Must replace existing five-foot equivalent T12 lamps and magnetic ballasts, or five-foot equivalent T8 lamps and electronic ballasts with a qualifying LED lighting system. Retrofits must take place in existing medium temperature or low temperature display cases. The LED lighting system wattage must be less than 42 Watts/lamp for center lamps and 21 Watts/lamp for end lamps. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Rebates paid based on number of linear feet of lamps installed and vary by base case.

Terms and Conditions: Lighting

1. T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts

Rebate applies to existing T12 lamps with electronic or magnetic ballasts that are replaced by T8 or T5 lamps with the electronic, high frequency ($\geq 20\text{kHz}$), Underwriters Laboratory (UL) listed ballasts that are warranted against mechanical or electrical defects for five years, and have a PF of ≥ 0.90 .

At full light output, ballasts for 4-foot and 8-foot lamps must have THD of $\leq 20\%$, while ballasts for 2-foot and 3-foot lamps must have THD of $\leq 32\%$. Programmed Start/Programmed Rapid-start ballasts must be used for T5 lamp installations. Replacement T5 lamps in low bay installations (under 15') must provide indirect lighting only. T8 and T5 replacement lamps must meet the CRI and Rated Lamp Life standards listed, and the manufacturer's specification sheet must document these characteristics for each ballast type. When T8 lamps are being installed for general illumination purposes, Instant Start ballasts must be used. When occupancy sensors are installed to control circuits in lamp/ballast retrofits, Programmed Start/Programmed Rapid-start ballasts are recommended in order to maximize lamp life. Occupancy sensor rebates are allowed with linear fluorescent lighting retrofits, but must meet the requirements of the Occupancy Sensor category. Replacement lamps and ballasts rebated in this category are not eligible for rebates under Compact and Linear Fluorescent Fixture and Interior High Bay Linear Fluorescent Fixture categories.

Lamp and Ballast Requirements

Lamp Type and Size	Ballast Type	CRI	Minimum Rated Lamp Life (3 hrs/start)
T8 – 2ft, 3ft, 4ft	Programmed Start/Programmed Rapid-start	≥ 80	24,000 hours
T8 – all sizes	Instant Start	≥ 80	18,000 hours
T5 – all sizes	Programmed Start or Programmed Rapid-Start	≥ 82	20,000 hours

A de-lamping rebate may also apply. De-lamping is the permanent removal of existing T12 lamps/ballasts and unused lamp holders (tombstones) from existing fixtures without replacing the lamps. To receive credit for de-lamping, customers must not remove more than half of the existing lamps and ballasts (along with lamp holders) from each fixture. The total number of lamps claimed for de-lamping may not be more than the number of replacement T8 or T5 lamps installed. Customers are responsible for deciding whether de-lamping will maintain adequate light levels. EnergySmart Grocer recommends following the IES guidelines.

2. Interior Metal Halide Pulse Start Fixtures

Only Pulse-Start metal halide lamps and ballasts ≤ 350 Watts that replace existing standard metal halide lamps and ballasts ≥ 400 Watts qualify. Both retrofit kits and new fixtures qualify.

3. High-Intensity Discharge Fixtures, Pulse Start (Interior and Exterior)

Only complete new HID (metal halide or high-pressure sodium) fixtures that replace, one for one, existing incandescent or mercury vapor fixtures qualify. The HID system must have a mean lamp/ballast efficacy of 45 Lumens Per Watt (LPW) for compact sources (≤ 100 Watts), and 55 LPW for standard or full-size sources (> 100 Watts). Metal halide fixtures under 400 Watts can use either electronic or electromagnetic ballasts. Roadway and street lighting do not qualify.

4. Time Clocks

Time clocks must control lighting equipment. All units must feature minimum 3-hour battery back-up to avoid time loss during power outages. For outdoor lighting without a photocell, astronomical time clocks (where on-off time follows sunset and sunrise) are required.

5. Exit Signs - LED

Only new exit signs that replace incandescent exit signs qualify. Non-electrified (such as tritium) and remote exit signs are not eligible. All new exit signs must meet UL-924 requirements. Exit signs must have a usage level ≤ 5 Watts and a minimum product life of 10 years or be listed as ENERGY STAR® qualified. Manufacturer's information stating the model number and ENERGY STAR® qualification or other qualifying specification sheet must be submitted with each rebate form. New exit signs must meet local fire codes. Retrofit kits are not eligible.

6. Screw-in Compact Fluorescent (CFL) Lamps

Rebate applies only if an incandescent lamp is being replaced. All products must be Energy Star® rated. The lamp/ballast combination must have an efficacy ≥ 40 lumens per watt. Electronic ballasts are required for lamps ≥ 18 watts. Rebate is based on compact fluorescent lamp wattage and number of lamps installed. Typical compact fluorescent lamp replacements are shown below.

Screw-in Compact Fluorescent Lamp	Baseline Incandescent lamp
13 Watt	40 Watt
15 Watt	60 Watt
18 Watt	75 Watt
26 Watt	100 Watt

Photoelectric cells that switch outdoor lighting loads on at dusk and off at dawn qualify. Photocells may be built into the fixture or stand-alone.

7. Occupancy Sensors

This rebate applies to hardwired passive infrared and/or ultrasonic detectors that control interior lighting fixtures only. Self-contained wall-box lighting sensors are defined as units without an exterior switch pack or relay that are designed to replace a standard wall switch. Integrated sensors in high bay fixtures are permanently installed in the lighting fixture and must control all lamps in the fixture. Wattage controlled requirements are listed in the table below where applicable.

Occupancy Sensor Type	Wattage Controlled
Wall-box	N/A
Wall or ceiling mounted	<500 Watts
Wall or ceiling mounted	≥ 500 Watts
Integrated sensor in high bay fixture	N/A

8. Compact or Linear (Hardwired) Fluorescent Fixtures

Only complete new fixtures or modular retrofits with hardwired electronic ballasts qualify, and must replace an incandescent fixture. CFLs/ ballasts must meet the minimum efficacy requirements shown below.

Lamp Power and Configuration		Minimum Lumens per Watt Based on initial lumens
Bare Lamp	Power < 15	45.0
	Power ≥ 15	60.0
Covered lamp (no reflector)	Lamp Power < 15	40.0

	Lamp Power ≥ 15 and < 19	48.0
	Lamp Power ≥ 19 and < 25	50.0
	Lamp Power ≥ 25	50.0
Covered lamp with reflector	Lamp Power < 20	33.0
	Lamp Power ≥ 20	40.0

CFL ballasts must be Programmed-start or Programmed Rapid-start with a Power Factor (PF) of ≥ 0.90 and Total Harmonic Index Distortion (THD) of $\leq 20\%$. Linear fluorescent lamps/ballasts must meet the specifications defined in the T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts category. Fixtures in this category are not eligible for additional rebates in the T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts or the Interior High-Bay Linear Fluorescent Fixtures categories.

9. Induction Lamps and Fixtures

Only complete new induction fixtures ≥ 55 Watts that replace existing incandescent or mercury vapor fixtures qualify. Induction lamps < 55 Watts are considered CFLs. Each new fixture must have a mean lamp/ballast efficacy > 50 Lumens Per Watt (LPW). Indoor, outdoor area, and parking lot lighting qualify, but roadway and street lighting do not.

10. Interior High Bay Linear Fluorescent Fixtures

Only complete new T8 or T5 fixtures with 4 or more lamps qualify. New fixtures must not exceed 244 watts each. High Bay fixtures must use T8 or T5 lamps. Linear fluorescent lamps/ballasts must meet the specifications defined in the T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts category. New fixtures must replace, one for one, existing incandescent, T12/Very High Output fluorescent, or High Intensity Discharge (HID) fixtures ≥ 400 Watts in interior installations over 15 feet. All fixtures must have a reflector with a minimum of 90% reflectivity. Exterior installations do not qualify. High bay fixtures are not eligible for additional rebates under the Compact and Linear Fluorescent Fixtures and T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts categories, but may qualify for an occupancy sensor rebate under the Occupancy Sensor category provided all requirements are met.

11. Channel Signs (LED)

Must replace incandescent-lighted or neon-lighted channel letter signs. LED retrofit kits or complete LED replacement signs are eligible. Replacement signs cannot use more than 20% of the actual input power of the sign that is replaced. Measure the length of the sign as follows:

1. Measure the length of each individual letter at the centerline horizontally; do not measure the distance between letters.
2. Add up the measurements of each individual letter to get the length of the entire sign being replaced.

12. Bi-level HID Controller

Must install Bi-level lighting controller on existing high intensity discharge (HID) fixtures rated at 350-Watts or higher. Existing fixtures must have annual operation greater than or equal to 5,500 hours per year. Bi-level controller must reduce fixture wattage draw by at least 50% at low light level and switch from normal-light to low-light automatically based on pre-defined schedule, occupancy sensor signal, or light level reading. Rebates paid based on number of fixtures or per lamp watts controlled.

13. Photocell

Applies to built-in or stand-alone photoelectric cells that switch outdoor lighting loads on at dusk and off at dawn.

Terms and Conditions: HVAC & Other Measures

1. Variable Frequency Drives (VFDs) for HVAC Fans

VFD incentives are for fan applications on HVAC distribution systems. The maximum fan size is 100 hp. The installation of a VFD on a HVAC fan is eligible for a rebate only if throttling devices, such as inlet vanes, bypass dampers and throttling valves, are removed or permanently disabled. A 3% impedance choke is recommended.

2. Motor Voltage Controller

Must install a motor voltage controller on motors with a variable load. A motor voltage controller is defined as a control device that changes the voltage supplied to a motor according to its mechanical load. Rebate is based on the horsepower of the motor controlled.

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.

ADDENDUM

THIS ADDENDUM TO THE EnergySmart Grocer Equipment Specification Terms and Conditions is effective as of January 1, 2009 (Addendum). The purpose of this Addendum is to allow work to continue under certain 2006-2008 energy efficient programs until the California Public Utilities Commission (CPUC) makes a final decision on the 2009-2011 energy efficient Application.

1. On October 16, 2008 the CPUC issued a Bridge Funding Decision authorizing funding for work performed after December 31, 2008 and until the date which is no later than three months after the effective date of a final decision by the CPUC on the 2009-2011 Application, or December 31, 2009, whichever occurs first (Bridge Funding Period).
2. For those projects under this Program which work may be done or completed after the Bridge Funding Period, any payments made to customers will be subject to CPUC approval and in accordance with the CPUC's final decision on the 2009-2011 Application.
3. The remaining terms of the 2006-2008 EnergySmart Grocer Program shall remain in full force and effect for such Bridge Funding Period. In the event of any inconsistency between the terms of the 2006-2008 EnergySmart Grocer Program and the terms of this Addendum, the terms of this Addendum shall control.