

Deemed Refrigeration Retrofit Measures
April 1, 2012

Measure Name	Credit / Reimbursement (\$/unit)	Specifications
Auto Closers - Cooler - Reach-in	\$ 25.00 /closer	The auto-closer should be applied to the glass door of a reach-in case. Reach in door must have a minimum perimeter of 16 feet. Incentive is based on each door that is equipped with a closer. Only full replacement or repairs that include replacement of hard parts qualify.
Auto Closers - Freezer - Walk-in	\$ 150.00 /closer	The auto-closer should be applied to the main insulated solid door of a walk-in freezer. The auto-closer must be able to firmly close the main door of the walk-in whenever it is closed to within one inch of full closure. Incentive is based on each door that is equipped with a closer. Adjustment of existing auto-closers does not qualify for incentives.
Auto Closers - Cooler - Walk-in	\$ 25.00 /closer	The auto-closer should be applied to the main insulated solid door of a walk-in freezer. The auto-closer must be able to firmly close the main door of the walk-in whenever it is closed to within one inch of full closure. Incentive is based on each door that is equipped with a closer. Adjustment of existing auto-closers does not qualify for incentives.
Auto Closers - Freezer - Reach-in	\$ 30.00 /closer	The auto-closer should be applied to the glass door of a reach-in case. Reach in door must have a minimum perimeter of 16 feet. Incentive is based on each door that is equipped with a closer. Only full replacement or repairs that include replacement of hard parts qualify.
Freezer Decommissioning - Any Commercial Building - Residential-Type	\$ 100.00 /freezer	Existing freezer must be at least 10 cu.ft. in capacity, verified as functional. Unit must decommissioned and its components recycled.
Freezers - Solid Door - Less than 15 Cubic Feet - ENERGY STAR 2.0	\$ 100.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Solid Door - 15 to 29.9 Cubic Feet - ENERGY STAR 2.0	\$ 100.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Solid Door - 30 to 49.9 Cubic Feet - ENERGY STAR 2.0	\$ 350.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Solid Door - 50 or more Cubic Feet - ENERGY STAR 2.0	\$ 350.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Glass Door - Less than 15 Cubic Feet - ENERGY STAR 2.0	\$ 100.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Glass Door - 15 to 29.9 Cubic Feet - ENERGY STAR 2.0	\$ 100.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Glass Door - 30 to 49.9 Cubic Feet - ENERGY STAR 2.0	\$ 350.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Glass Door - 50 or more Cubic Feet - ENERGY STAR 2.0	\$ 350.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Solid Door - Chest - ENERGY STAR 2.0	\$ 150.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Freezers - Glass Door - Chest - ENERGY STAR 2.0	\$ 150.00 /freezer	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerator Decommissioning - Any Commercial Building - Residential-Type	\$ 100.00 /refrigerator	Existing refrigerator/freezer must be at least 10 cu.ft. in capacity, verified as functional. Unit must decommissioned and its components recycled
Refrigerators - Solid Door - Less than 15 Cubic Feet - ENERGY STAR 2.0	\$ 50.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Solid Door - 15 to 29.9 Cubic Feet - ENERGY STAR 2.0	\$ 50.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Solid Door - 30 to 49.9 Cubic Feet - ENERGY STAR 2.0	\$ 150.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Solid Door - 50 or more Cubic Feet - ENERGY STAR 2.0	\$ 150.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Glass Door - Less than 15 Cubic Feet - ENERGY STAR 2.0	\$ 50.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Glass Door - 15 to 29.9 Cubic Feet - ENERGY STAR 2.0	\$ 50.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Glass Door - 30 to 49.9 Cubic Feet - ENERGY STAR 2.0	\$ 150.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Glass Door - 50 or more Cubic Feet - ENERGY STAR 2.0	\$ 150.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Refrigerators - Solid Door - Chest - ENERGY STAR 2.0-Any Commercial Building	\$ 75.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification

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Refrigerators - Glass Door - Chest - ENERGY STAR 2.0-Any Commercial Building	\$ 75.00 /refrigerator	Model must be listed as meeting Energy Star 2.0 Specification
Vending Machines - Controller - Glass Front Beverage Merchandiser	\$ 90.00 /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 fluorescent lights 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.
Vending Machines - Controller - Small machine or machine without Illuminated Front	\$ 90.00 /controller	Energy control device for refrigerated vending machines containing non-perishable food items limited to 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. During unoccupied periods, the control must periodically power up machine to maintain product temperature and provide compressor protection.
Vending Machines - Controller - Large machine with Illuminated Front	\$ 90.00 /controller	Energy control device for refrigerated vending machines containing non-perishable food items limited to 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. During unoccupied periods, the control must periodically power up machine to maintain product temperature and provide compressor protection.
Refrigeration Control Improvements (non-VFD) – Controller – Evaporator Fan Control – Shaded Pole - Medium Temp -Walk-In	\$ 25.00 /motor	Must reduce energy consumption of evaporator fans in medium-temperature walk-in by reducing fan speed when there is no refrigerant being delivered to the evaporator. Must control a minimum fan load of 1/20 hp per fan, operating continuously at full speed. Must reduce fan motor power by at least 75% when operating at reduced speed. 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. This measure cannot be used in conjunction with Efficient Evaporator Fan Motor measure. Incentive is based on number of fans controlled.
Refrigeration Control Improvements (non-VFD) - Anti-Sweat Heat Control - Low Temp	\$ 50.00 /linear feet of case	Must install a device that reduces the energy consumption of the anti-sweat heaters by at least 50% for the glass door (if applicable) and door frame. Technologies that reduce energy consumption of anti-sweat heaters based on sensing humidity, dewpoint or condensation qualify. This incentive does not apply to the Special Doors with low/no anti-sweat heat measure. Incentive is based on the total linear footage of the case. "Low temperature" covers evaporator temperatures below 0°F.
Refrigeration Control Improvements (non-VFD) - Anti-Sweat Heat Control - Medium Temp	\$ 40.00 /linear feet of case	Must install a device that reduces the energy consumption of the anti-sweat heaters by at least 50% for the glass door (if applicable) and door frame. Technologies that reduce energy consumption of anti-sweat heaters based on sensing humidity, dewpoint or condensation qualify. This incentive does not apply to the Special Doors with low/no anti-sweat heat measure. Incentive is based on the total linear footage of the case. "Medium temperature" covers evaporator temperatures between 1°F and 35°F.
Refrigeration Control Improvements (non-VFD) - Controller – Evaporator Fan Control – ECM Medium Temp - Grocery-Walk-in	\$ 35.00 /motor	2 or more motors per controller. Add controller to walk-in cooler and freezer evaporator fan motors Evap fan motor type is Electronically Commutated Motor (ECM) Controller will cycle the motors between Hi/Low speeds (2-speed) or On/Off when there is no call for cooling Low Speed must be 600 RPM or less. Applicable only to circuits with liquid line solenoid.

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Refrigeration Control Improvements (non-VFD) - Controller -- Evaporator Fan Control - Low Temp - Grocery-Walk-in	\$ 35.00 /motor	3 or more motors per controller. Add controller to walk-in cooler and freezer evaporator fan motors Evap fan motor type is Electronically Commutated Motor (ECM) Controller will cycle the motors between Hi/Low speeds (2-speed) or On/Off when there is no call for cooling Low Speed must be 600 RPM or less. Applicable only to circuits with liquid line solenoid.
Refrigeration Control Improvements (non-VFD) - Floating Head pressure on single compressor - Medium Temp - Grocery-Condensing unit	\$ 100.00 /hp	Head pressure control valve (flood-back control valve) must be installed to lower minimum condensing head pressure from a fixed position (180 psig for R-22) to a saturated pressure equivalent to 70 degrees F or less. Either a bananced-port or electronic expansion valve that is sized to meet the load requirement at a 70 degree condensing temperature must be installed. Alternatively, a device may be installed to supplement refrigeration feed to each evaporator attached to condenser that is reducing head pressure.
Refrigeration Control Improvements (non-VFD) - Floating Head pressure on single compressor - Low Temp - Grocery-Condensing unit	\$ 100.00 /hp	Head pressure control valve (flood-back control valve) must be installed to lower minimum condensing head pressure from fixed position (180 psig for R-22; 210 psig for R-404a) to a saturated pressure equivalent to 70 degrees F or less. Either a bananced-port or electronic expansion valve that is sized to meet the load requirement at a 70 degree condensing temperature must be installed. Alternatively, a device may be installed to supplement refrigeration feed to each evaporator attached to condenser that is reducing head pressure.
Refrigeration Control Improvements (non-VFD) - Floating Head pressure on single compressor - Medium Temp - Grocery-Remote Condenser	\$ 60.00 /hp	Head pressure control valve (flood-back control valve) must be installed to lower minimum condensing head pressure from fixed position (180 psig for R-22) to a saturated pressure equivalent to 70 degrees F or less. Either a bananced-port or electronic expansion valve that is sized to meet the load requirement at a 70 degree condensing temperature must be installed. Alternatively, a device may be installed to supplement refrigeration feed to each evaporator attached to condenser that is reducing head pressure.
Refrigeration Control Improvements (non-VFD) - Floating Head pressure on single compressor - Low Temp - Grocery-Remote Condenser	\$ 60.00 /hp	Head pressure control valve (flood-back control valve) must be installed to lower minimum condensing head pressure from fixed position (180 psig for R-22; 210 psig for R-404a) to a saturated pressure equivalent to 70 degrees F or less. Either a bananced-port or electronic expansion valve that is sized to meet the load requirement at a 70 degree condensing temperature must be installed. Alternatively, a device may be installed to supplement refrigeration feed to each evaporator attached to condenser that is reducing head pressure.
Case Lighting - Electronic Ballast for T12 - Magnetic ballast replaced - 5 Linear Foot	\$ 15.00/lamp	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 lamps must be rated at THD = 20% at full light output. Ballasts for 8-foot lamps must be rated at THD = 32% at full light output. Incentive is based on the number of lamps controlled by new electronic ballasts.
Case Lighting - Electronic Ballast for T12 - Magnetic ballast replaced - 6 Linear Foot	\$ 5.00/lamp	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 lamps must be rated at THD = 20% at full light output. Ballasts for 8-foot lamps must be rated at THD = 32% at full light output. Incentive is based on the number of lamps controlled by new electronic ballasts.

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Case Lighting - LED - T8 replaced - 18 Hours - Low Temp-Existing	\$ 50.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T8 replaced - 18 Hours - Medium Temp-Existing	\$ 23.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T12 replaced - 18 Hours - Medium Temp-Existing	\$ 40.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T8 replaced - 18 Hours - Low Temp-New	\$ 30.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T8 replaced - 18 Hours - Medium Temp-New	\$ 23.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012

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Case Lighting - LED - T8 replaced - 24 Hours - Low Temp-Existing	\$ 40.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T12 replaced - 24 Hours - Low Temp-Existing	\$ 70.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T12 replaced - 24 Hours - Medium Temp-Existing	\$ 31.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T12 replaced - 24 Hours - Medium Temp-Existing	\$ 55.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T8 replaced - 24 Hours - Low Temp-New	\$ 40.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012

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Case Lighting - LED - T8 replaced - 24 Hours - Medium Temp-New	\$ 31.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - LED - T8 replaced - Any Hours - New or Existing	\$ 30.00 /linear foot of case	Must replace existing reach-in refrigerated display case fluorescent lamps with an LED lighting system. Fluorescent magnetic ballasts can not be used to power the LED system. Lumen levels and Color Rendering Index (CRI) may be decreased due to this retrofit. Incentives paid based on linear feet of case retrofitted. Incentive and energy savings values vary based on lamp size (T8 or T12), case temperature (low or medium), and existing case lighting operational hours (18 or 24 hours per day). Incentive is based on lineal foot of case. T10 lamps will be treated as T12 lamps. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficacy improves. This measure will expire on September 30, 2012
Case Lighting - Standard T8 - Magnetically-ballasted T10 or T12 replaced - 4 Linear Foot - New or Existing	\$ 12.75 /lamp	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). Incentive is based on the number of lamps installed.
Case Lighting - Standard T8 - Magnetically-ballasted T10 or T12 replaced - 5 Linear Foot - New or Existing	\$ 15.00 /lamp	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). Incentive is based on the number of lamps installed.
Case Lighting - Standard T8 - Magnetically-ballasted T10 or T12 replaced - 6 Linear Foot - New or Existing	\$ 18.75 /lamp	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). Incentive is based on the number of lamps installed.
Case Lighting - Standard T8 - Magnetically-ballasted T10 or T12 replaced - 8 Linear Foot - New or Existing	\$ 22.50 /lamp	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). Incentive is based on the number of lamps installed.
Case Lighting - LED - T12 replaced - LED power less than 4.5 watts per linear foot - Open Case-Replacement	\$ 12.00 /linear foot of LED	Must replace existing open refrigerated display case 1-lamp T12 fluorescent fixture with a LED fixture of 4 watts per foot or less. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to - IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.

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Case Lighting - LED- T8 replaced - LED power less than 4.5 watts per linear foot - Open Case-Replacement	\$ 7.00 /linear foot of LED	Must replace existing open refrigerated display case 1-lamp T8 fluorescent fixture with a LED fixture of 4 watts per foot or less. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to - IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.
Case Lighting - LED - T12 replaced - LED power between 4.5 and 8.5 watts per linear foot - Open Case-Replacement	\$ 24.00 /linear foot of LED	Must replace existing open refrigerated display case 2-lamp T12 fluorescent fixture with a LED fixture of 8.5 watts per foot or less. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to -IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.
Case Lighting - LED - T8 replaced - LED power between 4.5 and 8.5 watts per linear foot - Open Case-Replacement	\$ 15.00 /linear foot of LED	Must replace existing open refrigerated display case 2-lamp T8 fluorescent fixture with a LED fixture of 8.5 watts per foot or less. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.
Case Lighting - LED - LED power between 4.5 and 8.5 watts per linear foot - Open Case-New case	\$ 11.50 /linear foot of LED	Applies to new open refrigerated display cases. LED fixture must be rated 8.5 watts per foot or less. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to - IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.
Case Lighting - LED - LED power less than 4.5 watts per linear foot - Open Case-New case	\$ 5.00 /linear foot of LED	Applies to new open refrigerated display cases. LED fixture must be rated 4 watts per foot or less. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Efficacy must be 50 lumens per watt or greater, as tested according to IES Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products. Minimum 3 year manufacturer warranty.
Case Lighting - LED - T8 replaced - LED power less than 4.0 watts per linear foot - Reach-in display case-Replacement	\$ 20.00 /linear foot of LED	Must replace existing reach-in refrigerated display case T8 fluorescent fixture with a LED fixture. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty. Based on linear feet of LED.
Case Lighting - LED - T8 replaced - LED power between 4.0 and 7.5 watts per linear foot - Reach-in display case-Replacement	\$ 10.00 /linear foot of LED	Must replace existing reach-in refrigerated display case T8 fluorescent fixture with a LED fixture. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty. Based on linear feet of LED.
Case Lighting - LED - T12 replaced - LED power less than 4.0 watts per linear foot - Reach-in display case-Replacement	\$ 25.00 /linear foot of LED	Must replace existing reach-in refrigerated display case T12 fluorescent fixture with a LED fixture. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty. Based on linear feet of LED.

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Case Lighting - LED - T12 replaced - LED power between 4.0 and 7.5 watts per linear foot - Reach-in display case-Replacement	\$ 20.00 /linear foot of LED	Must replace existing reach-in refrigerated display case T12 fluorescent fixture with a LED fixture. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty. Based on linear feet of LED.
Case Lighting - LED - LED power less than 4.0 watts per linear foot - Reach-in display case-New Case	\$ 10.00 /linear foot of LED	Must be installed in a new reach-in refrigerated display case. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty. Based on linear feet of LED.
Case Lighting - LED - LED power between 4.0 and 7.5 watts per linear foot - Reach-in display case-New Case	\$ 10.00 /linear foot of LED	Must be installed in a new reach-in refrigerated display case. Fluorescent magnetic ballasts cannot be used to power the LED. LED lighting system must be a permanently installed fixture. LED lights must have minimum CRI of 75 and provide a minimum of 70% of initial lumens at 50,000 hours. Minimum 3 year manufacturer's warranty.
Case Lighting Delamping - Delamp T12 - Open Case	\$ 5.00	Measure to be used in combination with -Open Case Lights - High Power LED from T12 measure where a three-lamp fluorescent fixture is replaced with a high power LED fixture.
Case Lighting Delamping - Delamp T8 - Open Case	\$ 5.00	Measure to be used in combination with -Open Case Lights - High Power LED from T8 measure where a three-lamp fluorescent fixture is replaced with a high power LED fixture.
Doors - Add Doors - Medium Temp	\$ 130.00 /linear feet of case	Must replace existing medium temperature open walk-in reach-in refrigerated display case equipped with T8 lighting and shaded pole fan motors with a medium temperature reach-in door. Existing case evaporator coils, fans, and lighting must be removed. New reach-in door must have T8 lighting and no door anti-sweat heaters.
Gasket Replacement - Reach-in - Glass Door - Low Temp-Grocery	\$ 40.00 /door	Must replace a worn or damaged gasket on a reach-in glass door of a low temperature display case. Replacement gaskets must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism. Incentive is per door. "Low temperature" covers evaporator temperatures below 0°F
Gasket Replacement - Reach-in - Glass Door - Medium Temp-Grocery	\$ 25.00 /door	Must replace a worn or damaged gasket on a reach-in glass door of a medium temperature display case. Replacement gaskets must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism. Incentive is per door. "Medium temperature" covers evaporator temperatures between 1°F and 35°F.
Gasket Replacement - Walk-in - Main Door - Cooler-Grocery	\$ 25.00 /door	Must replace a worn or damaged gasket on the main insulated solid door of a walk-in cooler. Replacement gaskets must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism. Incentive is per door.
Gasket Replacement - Walk-in - Main Door - Freezer-Grocery	\$ 65.00 /door	Must replace a worn or damaged gasket on the main insulated solid door of a walk-in freezer. Replacement gaskets must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism. Incentive is per door.
Lamps/Ballasts - Hard-wired T8 - Cooler or Freezer - Walk-in	\$ 5.00	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. Incentive is based on number of lamps installed. Lamp and ballast must be rated to start at -20°F or lower.

Deemed Refrigeration Retrofit Measures
April 1, 2012

Measure Name	Credit / Reimbursement (\$/unit)	Specifications
Lamps/Ballasts - Screw-in CFLs - Cooler or Freezer - Walk-in	\$ 4.25 /lamp	Incentive 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. Incentive based on number of 27 W CFLs installed.
Motion Sensors - LED power less than 4.0 watts per linear foot - For LED Case Lights	\$ 2.00 /linear foot of lamps	Motion sensor must reduce lighting load to 20% or less when unoccupied. Existing timers must continue to be used after installation of motion sensor. Restricted to refrigerated reach-in display cases only. Rebates are based on dollars per lineal foot of LED tube controlled.
Motion Sensors - LED power between 4.0 and 7.5 watts per linear foot - For LED Case Lights	\$ 2.00 /linear foot of lamps	Motion sensor must reduce lighting load to 20% or less when unoccupied. Existing timers must continue to be used after installation of motion sensor. Restricted to refrigerated reach-in display cases only. Rebates are based on dollars per lineal foot of LED tube controlled.
Motors - Permanent Split Capacitor - Reach-in - Shaded Pole motor replaced	\$ 25.00 /motor	Applicable to existing standard efficiency shaded pole evaporator fan motors for refrigeration system evaporators in walk-ins. Shaded pole motors must be replaced by permanent split capacitor motor (PSC). Not applicable for motors with fans less than 10" in diameter and not applicable if Evaporator Fan Control is already installed. Incentive cannot be used in conjunction with Incentive for Evaporator Fan Control. Incentive is based on number of motors replaced.
Motors - Permanent Split Capacitor - Walk-in - Shaded Pole motor replaced	\$ 40.00 /motor	Applicable to existing standard efficiency shaded pole evaporator fan motors for refrigeration system evaporators in walk-ins. Shaded pole motors must be replaced by permanent split capacitor motor (PSC). Not applicable for motors with fans less than 10" in diameter and not applicable if Evaporator Fan Control is already installed. Incentive cannot be used in conjunction with Incentive for Evaporator Fan Control. Incentive is based on number of motors replaced.
Motors – ECM for Compressor Head Cooling Fan - Shaded Pole motor replaced	\$ 50.00 /motor	Existing shaded pole motor of 35-55 watts must be replaced by ECM motor <= 20 watts. 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.
Motors - Evaporator Motor - ECM - Walk-in - Shaded Pole motor replaced	\$ 140.00 /motor	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. Incentive cannot be used in conjunction with Incentive for Evaporator Fan Control. Incentive is based on number of motors replaced.
Motors - Evaporator Motor - ECM - Display Case - Shaded Pole motor replaced-	\$ 80.00 /motor	Applicable to existing standard efficiency shaded pole evaporator fan motor for refrigerated display cases. Shaded pole motors must be replaced by electronically commutated motors (ECMs). Incentive is based on number of ECMs installed.
Strip Curtains - Freezer - Grocery	\$ 9.00 /sq feet of doorway	Must install a night cover on an open refrigerated case. Cover must be warranted for one year against manufacturing defects. The cover must be applied for a period of at least six hours in a 24-hour period. This incentive is not available for replacement of existing night covers. Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves, resizing the thermostatic expansion valves, and re-setting to a higher suction pressures/temperatures when the covers are applied). Incentive is based on the linear footage of the cover. Consult with the case manufacturer for recommendations on case operation with night covers.

**Deemed Refrigeration Retrofit Measures
April 1, 2012**

Measure Name	Credit / Reimbursement (\$/unit)	Specifications
Strip Curtains - Cooler - Grocery	\$ 9.00 /sq feet of doorway	Must install a night cover on an open refrigerated case. Cover must be warranted for one year against manufacturing defects. The cover must be applied for a period of at least six hours in a 24-hour period. This incentive is not available for replacement of existing night covers. Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves, resizing the thermostatic expansion valves, and re-setting to a higher suction pressures/temperatures when the covers are applied). Incentive is based on the linear footage of the cover. Consult with the case manufacturer for recommendations on case operation with night covers.
Strip Curtains - Freezer - Convenience Store	\$ 9.00 /sq feet of doorway	Must install a night cover on an open refrigerated case. Cover must be warranted for one year against manufacturing defects. The cover must be applied for a period of at least six hours in a 24-hour period. This incentive is not available for replacement of existing night covers. Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves, resizing the thermostatic expansion valves, and re-setting to a higher suction pressures/temperatures when the covers are applied). Incentive is based on the linear footage of the cover. Consult with the case manufacturer for recommendations on case operation with night covers.
Strip Curtains - Freezer - Restaurant	\$ 9.00 /sq feet of doorway	Must install a night cover on an open refrigerated case. Cover must be warranted for one year against manufacturing defects. The cover must be applied for a period of at least six hours in a 24-hour period. This incentive is not available for replacement of existing night covers. Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves, resizing the thermostatic expansion valves, and re-setting to a higher suction pressures/temperatures when the covers are applied). Incentive is based on the linear footage of the cover. Consult with the case manufacturer for recommendations on case operation with night covers.