

# REFRIGERATION INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

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**A pre-approval application is required; review instructions on the standard and custom incentives pre-approval and final application form. Wait for pre-approval before starting your project.**

## EC Motors

### Specifications and Eligible Equipment

1. New walk-in or reach-in coolers and freezers with integrated EC motors do not qualify for this incentive.
2. This measure cannot be used in conjunction with the evaporator fan controls measures.

### EC Motor for Walk-in Cooler or Freezer

**\$60 per motor**

Replacement of an existing standard-efficiency shaded-pole evaporator fan motor with an electronically commutated (EC) motor.

Number of motors:

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### EC Motor for Reach-in Refrigerated Case

**\$30 per motor**

Replacement of an existing standard-efficiency shaded-pole evaporator fan motor with an electronically commutated (EC) motor.

Number of motors:

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### EC Motor with Evaporator Fan Controls for Walk-in Cooler or Freezer

**\$90 per controlled motor**

Replacement of an existing standard-efficiency shaded pole evaporator fan motor without controls with an electronically commutated (EC) evaporator fan motor with controls in medium and low temperature walk-in coolers and freezers.

Number of motors:

### Specifications and Eligible Equipment

1. Must control a minimum fan load of 1/20 HP where the fan(s) operate continuously at full speed.
2. Must reduce fan motor power by at least 75 percent during the compressor off-cycle.
3. This measure is not applicable if any of the following existing (base case) conditions apply:
  - The compressor runs all the time with high duty cycle.
  - The evaporator fan does not run at full speed all the time.
  - The evaporator fan motor runs on poly-phase power.
  - The evaporator does not use off-cycle or time-off defrost.

Customer Name:

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## Q-Sync Motor

### Specifications and Eligible Equipment

1. Replacement of an existing uncontrolled and continuously operating standard efficiency shaded pole or electronically commutated evaporator fan motor with a new Q-Sync motor qualifies under this measure
2. Measure applies for both medium and low temperature cases

### Q-Sync Motor in Place of EC Motor

#### \$10 per motor

Replacement of existing EC motor with Q-Sync Motor in either a refrigeration or freezer case.

Number of motors:

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### Q-Sync Motor in Place of Shaded Pole Motor

#### \$50 per motor

Replacement of existing shaded pole motor with Q-Sync motor in either a refrigeration or freezer case.

Number of motors:

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INCENTIVE SUBTOTAL:
\$

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## Anti-Sweat Heater Controls for Glass Door Cooler or Refrigerator

**\$25 per linear foot**

Installation of controls that turn off door heaters when there is low risk of condensation, based on either: (1) the relative humidity of the air in the store or (2) the conductivity of the door (which drops when condensation appears).

### Specifications and Eligible Equipment

1. Incentive is based on the total horizontal linear footage of the case.
2. Controls must be installed on all doors of the case.

Linear feet:

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## Display Cases With Doors

### Specifications and Eligible Equipment

1. Case must be equipped with:
  - High efficiency T8 lamp and electronic ballast or LED lighting
  - Electronically commutated motors (ECMs)
  - High-efficiency glass doors that meet the specifications outlined under special doors with low/no anti-sweat heaters on display cases, below
2. Retrofit case length cannot exceed the length of the original case.
3. This measure applies to remote cases only.

## Cooler Display Cases with Doors

**\$180 per linear foot**

Replacement or retrofit of existing open vertical (or multi-deck) display cases with new reach-in glass door display cases. New cases (i.e., cases that do not replace older cases) are also eligible.

Linear feet:

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## Freezer Display Cases with Doors

**\$180 per linear foot**

Replacement or retrofit of existing open vertical (or multi-deck) display cases with new reach-in glass door display cases. New cases (i.e., cases that do not replace older cases) are also eligible.

Linear feet:

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<b>INCENTIVE SUBTOTAL:</b>
\$

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## Special Doors with Low/No Anti-Sweat Heaters (ASH) on Display Cases

### Specifications and Eligible Equipment

1. The new door must prevent condensation within the frame assembly.
2. The door's total rail, glass and frame heater amperage (at 120V) cannot exceed 0.587 A per door for coolers and 1.360 A per door for freezers.
3. This measure cannot be used in conjunction with anti-sweat heater controls for glass door cooler or refrigerator or cooler/freezer display cases with doors measures.

### Special Doors with Low/No Anti-Sweat Heaters (ASH) on Cooler Display Cases

**\$130 per door**

Replacement of a standard one-pane glass display case door with anti-sweat heater with a special display case glass door that eliminates the need for anti-sweat heaters.

Number of doors:

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### Special Doors with Low/No Anti-Sweat Heaters (ASH) on Freezer Display Cases

**\$130 per door**

Replacement of a standard one-pane glass display case door with anti-sweat heater with a special display case glass door that eliminates the need for anti-sweat heaters.

Number of doors:

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## Evaporator Fan Controls

### Specifications and Eligible Equipment

1. Must control a minimum fan load of 1/20 HP where the fan(s) operate continuously at full speed.
2. Must reduce fan motor power by at least 75 percent during the compressor off-cycle.
3. This measure is not applicable if any of the following existing (base case) conditions apply:
  - The compressor runs all the time with high duty cycle.
  - The evaporator fan does not run at full speed all the time.
  - The evaporator fan motor runs on poly-phase power.
  - The evaporator does not use off-cycle or time-off defrost.

### Evaporator Fan Controls on EC Motor

**\$50 per controlled motor**

In medium and low temperature walk-in coolers and freezers with existing electronically commutated (EC) evaporator fan motors, installation of controls that reduce airflow of the evaporator fans when there is no refrigerant flow.

Number of controlled motors:

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### Evaporator Fan Controls on Shaded-Pole Motor

**\$25 per controlled motor**

Installation of controls in medium temperature walk-in coolers and freezers that reduce airflow of the evaporator fans when there is no refrigerant flow.

Number of controlled motors:

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## Demand Defrost Controls

### Specifications and Eligible Equipment

1. The current system must include an operating electric defrost system with a functional electro-mechanical time clock.
2. Evaporator coil temperature and pressure must be monitored by controller in order to determine optimal defrost cycles.
3. New intelligent control systems to control the defrost systems will typically replace timed-defrost controls.

### Demand Defrost Controls on Walk-in Coolers

#### \$20 per evaporator fan motor

Installation of defrost controls that monitor the refrigeration system and delay the defrost cycles as necessary.

Number of motors:

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### Demand Defrost Controls on Walk-in Freezers

#### \$20 per evaporator fan motor

Installation of defrost controls that monitor the refrigeration system and delay the defrost cycles as necessary.

Number of motors:

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## Efficient Refrigeration Condenser

### \$10 per ton

Design and installation of oversized condensers for multiplex refrigeration systems. The design reduces the approach (difference in existing refrigerant and ambient dry-bulb temperature), lowers the head pressure and conserves compressor horsepower.

Number of tons:

### Specifications and Eligible Equipment

1. The new condenser must result in at least 85 Btu/hr of heat rejection per watt of fan power for air-cooled condensers.
2. For evaporative cooled equipment, a minimum of 195 Btu/h per watt is required.
3. New condenser must be more efficient than condenser being replaced.

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INCENTIVE SUBTOTAL:
\$

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## Floating Head Pressure Controls

### Specifications and Eligible Equipment

1. Controls must vary head pressure to adjust condensing temperatures in relation to outdoor air temperature.
2. Must replace existing constant pressure or manually controlled systems to achieve reduced head pressure in order to maintain a minimum saturated condensing temperature of 70°F, or a 20°F variance below design heat pressure during mild weather conditions.
3. Compressors must be 1HP or greater.
4. This measure does not apply to multiplex refrigeration systems.

### Floating Head Pressure Controls – Condensing Unit, Medium Temperature

#### \$60 per compressor HP

Installation of automatic control to reduce condensing pressure at lower ambient temperatures in refrigeration systems.

<b>Total compressor size (HP):</b>

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### Floating Head Pressure Controls – Condensing Unit, Low Temperature

#### \$60 per compressor HP

Installation of automatic control to reduce condensing pressure at lower ambient temperatures in refrigeration systems.

<b>Total compressor size (HP):</b>

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### Floating Head Pressure Controls – Remote Condenser, Medium Temperature

#### \$60 per compressor HP

Installation of automatic control to reduce condensing pressure at lower ambient temperatures in refrigeration systems.

<b>Total compressor size (HP):</b>

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### Floating Head Pressure Controls – Remote Condenser, Low Temperature

#### \$60 per compressor HP

Installation of automatic control to reduce condensing pressure at lower ambient temperatures in refrigeration systems.

<b>Total compressor size (HP):</b>

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<b>INCENTIVE SUBTOTAL:</b>
\$

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## LED Refrigerated Display Case Lighting for Open and Closed Cases

**\$40 per door for closed case**

**\$15 per linear foot of lamp for open case (horizontal)**

Replacement of fluorescent refrigerated display case lighting with a DLC-qualified LED fixture.

### Specifications and Eligible Equipment

1. The product must be listed on the DesignLights™ Consortium qualified products list available at <http://www.designlights.org>.
2. Include the linear feet of all shelves with individual lighting.

Example: a 6 foot case with 3 individually-lit shelves equals 18 linear feet; a 6 foot case with 3 shelves, 1 individually-lit shelf and 2 non-lit shelves, equals 6 linear feet.

<b>Number of doors:</b>	OR	<b>Linear feet:</b>	<b>Incentive:</b>

## Display Case Lighting Controls for Open and Closed Refrigerated Cases

**\$25 per door for closed case controls**

**\$8 per linear foot of case for open case controls (horizontal)**

Replacement of fluorescent refrigerated display case lighting with a DLC-qualified LED fixture.

### Specifications and Eligible Equipment

1. Passive infrared, ultrasonic detectors or fixture-integrated sensors are eligible for this incentive.

<b>Number of doors:</b>	OR	<b>Linear feet:</b>	<b>Incentive:</b>

## ENERGY STAR® Freezers

### Specifications and Eligible Equipment

1. Must meet ENERGY STAR Version 2.1 specification.
2. Cases with remote refrigeration systems are not eligible.



### ENERGY STAR Solid Door Freezer

**\$100 per freezer**

New or replacement ENERGY STAR solid door freezer.

<b>Number of freezers:</b>

### ENERGY STAR Glass Door Freezer

**\$200 per freezer**

New or replacement ENERGY STAR glass door freezer.

<b>Number of freezers:</b>

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## ENERGY STAR Refrigerator

### Specifications and Eligible Equipment

1. The refrigerator must be ENERGY STAR-qualified.
2. Cases with remote refrigeration systems are not eligible.



## ENERGY STAR Solid Door Refrigerator

**\$45 per refrigerator**

New or replacement ENERGY STAR solid door refrigerator.

<b>Number of refrigerators:</b>

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## ENERGY STAR Glass Door Refrigerator

**\$45 per refrigerator**

New or replacement ENERGY STAR glass door refrigerator.

<b>Number of refrigerators:</b>

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<b>INCENTIVE SUBTOTAL:</b>
\$

## Night Covers

### Specifications and Eligible Equipment

1. Incentives are available for new and existing equipment.
2. Display cases that operate at sub-zero Fahrenheit temperatures are not eligible for this incentive.

## Night Covers - Vertical open, remote condensing, case temperature (35°F to 55°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

<b>Linear feet:</b>

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## Night Covers - Vertical open, remote condensing, case temperature (0°F to 30°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

<b>Linear feet:</b>



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## Night Covers (continued)

### Night Covers - Vertical open, self-contained case temperature (35°F to 55°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

Linear feet:

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### Night Covers - Horizontal open, remote condensing, case temperature (35°F to 55°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

Linear feet:

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### Night Covers - Horizontal open, remote condensing, case temperature (0°F to 30°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

Linear feet:

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### Night Covers - Horizontal open, self-contained, case temperature (35°F to 55°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

Linear feet:

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### Night Covers - Horizontal open, self-contained, case temperature (0°F to 30°F)

**\$10 per linear foot**

Installation of fitted covers on existing open-type refrigerated display cases that are deployed during the facility's unoccupied hours.

Linear feet:

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<b>INCENTIVE SUBTOTAL:</b>
\$

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## Strip Curtains

### Specifications and Eligible Equipment

1. This measure is only applicable for walk-in coolers and freezers in the following facility types:
  - Grocery stores
  - Retail/service (convenience stores)
  - Restaurants
2. All other facility types are not eligible for this incentive but may be eligible for a custom incentive. Please specify from one of the above facility types in the application description.
3. The existing doorway must have either no existing strip curtain or have an existing strip curtain that is no longer effective.
4. Strip curtains must be at least 0.06 inches thick and low temperature strip curtains must be used on low temperature applications (e.g. freezers).
5. Accurate door dimensions are required as this incentive is based on square footage. The new strip curtain must cover the entire doorway area when the door is open.

### Strip Curtains – Cooler Door

**\$4 per square foot**

Installation of a strip curtain on a walk-in cooler door in either grocery stores, retail/service (convenience stores) or restaurants.

<b>Square feet:</b>

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### Strip Curtains – Freezer Door

**\$4 per square foot**

Installation of a strip curtain on a walk-in cooler door in either grocery stores, retail/service (convenience stores) or restaurants.

<b>Square feet:</b>

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<b>INCENTIVE SUBTOTAL:</b>
\$

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## Automatic High Speed Doors

### Specifications and Eligible Equipment

1. Automatic high speed doors must be installed in place of strip curtains, separating spaces with different cooling set points.
2. Accurate door dimensions are required as this incentive is based on square footage. The new automatic high speed door must cover the entire doorway area when the door is closed.
3. The automated door must be used in applications recommended by the automatic high speed door manufacturer.

### Automatic High Speed Doors – Freezer and Cooler Spaces

**\$50 per square foot**

Installation of high speed doors in place of strip curtains, separating freezer and cooler spaces with different cooling set points.

<b>Square feet:</b>

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### Automatic High Speed Doors – Freezer and Dock Spaces

**\$50 per square foot**

Installation of high speed doors in place of strip curtains, separating freezer and dock spaces with different cooling set points.

<b>Square feet:</b>

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### Automatic High Speed Doors – Cooler and Dock Spaces

**\$50 per square foot**

Installation of high speed doors in place of strip curtains, separating cooler and dock spaces with different cooling set points.

<b>Square feet:</b>

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<b>INCENTIVE SUBTOTAL:</b>
\$

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## Insulation of Bare Refrigeration Suction Lines

### \$2 per linear foot of insulation

Installation of insulation on bare suction refrigeration pipes located outside of the refrigerated space.

### Specifications and Eligible Equipment

1. Must insulate bare refrigeration suction lines of 1 5/8 inches in diameter or less on existing equipment only.
2. Cooler lines require 3/4 inch flexible, closed-cell, nitrite rubber or an equivalent insulation.
3. Freezer lines require 1-inch flexible, closed-cell, nitrite rubber or an equivalent insulation.
4. Insulation exposed to the outdoors must be protected from the weather (e.g., jacketed with a medium-gauge aluminum jacket).

<b>Number of machines:</b>

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<b>TOTAL INCENTIVE REQUESTED</b>
\$

Incentive cannot exceed 100 percent of the incremental measure cost and 75 percent of the total project cost and must meet all program terms and conditions.