

REFRIGERATION PRODUCTS

This Equipment Catalog describes the eligibility requirements and rebate amounts for qualifying equipment under SRP's FY10 PowerWise Standard Business Solutions program. It also includes instructions on how to complete the Rebate Application and information regarding any required additional documentation. SRP's PowerWise Standard Business Solutions provides rebates for many types of energy efficient technologies. Please read the following sections carefully to ensure that you purchase and install qualifying equipment.

In order to be eligible for rebates through the PowerWise Standard Business Solutions program all equipment must meet the following requirements:

- Equipment must be purchased on or after May 1, 2009.
- Equipment must be new and installed in a manner that meets or exceeds code regulations.
- Replaced equipment must be disposed of in accordance with local, state, or federal codes and regulations and cannot be re-installed elsewhere.

Pre-qualification of eligible measures under the PowerWise Standard Business Solutions program is not required **except** for Retrofit Lighting Equipment and occupancy sensors. Under this program, "Low Temperature" refrigeration applications refer to space temperatures less than or equal to 0 °F while "Medium Temperature" refrigeration applications refer to space temperatures from 1 to 35 °F. Additional eligibility and submittal requirements for refrigeration technologies are outlined in this Equipment Catalog.

Rebates for additional measures may be available. For more information about PowerWise Standard Business Solutions, eligibility requirements, rebate levels, other SRP energy efficiency programs, or general inquiries, contact a participating SRP Alliance Contractor. You can also visit the program's Web site at srpnet.com/powerwisebiz, email us at PowerWiseStandardBusinessSolutions@srpnet.com, or contact the PowerWise Business Solutions hotline at 602-236-3054.

ANTI-SWEAT HEATER CONTROL PRODUCTS

Measure Description: When a refrigerator operates at a temperature below the dew point temperature of the surrounding air, condensation will form on the outside of the case. Anti-sweat heaters (ASH) prevent condensation from forming on display cases by heating the display case frame. This is necessary to allow customers to see inside cases and prevent excess moisture build-up. Anti-sweat heaters are generally set to run all the time, regardless of the relative humidity and dew point of the surrounding air. In addition to causing a significant electrical draw, the heat from the anti-sweat devices causes an increased refrigeration load. ASH controls are devices that sense the relative humidity in the air or condensation on the refrigerator's glass and reduce or cycle off the heater when it is not needed.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Controller must sense humidity or condensation and adjust heater accordingly. Equipment must be purchased and installed and meet all other program terms and conditions. Rebates are not available when rebates are also paid for high-efficiency doors.

Items to submit with rebate Application:

1. Dated sales receipt/invoice
2. Manufacturer's specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” as “NA” and the “Measure Size” as the total door perimeter in linear feet.

Measure Rebate: Rebate amounts for qualifying measures are listed below in Table R-1.

Table R-1. Anti-Sweat Heater Control Rebates

Equipment Code	Measure Description	Unit	Rebate
RFASHL	Anti-Sweat Heater Controls - Low Temperature Applications (≤ 0 °F)	Linear Foot	\$14.00/linear ft
RFASHM	Anti-Sweat Heater Controls - Medium Temperature Applications (> 0 °F)	Linear Foot	\$14.00/linear ft

AUTO CLOSER FOR MAIN & REACH-IN REFRIGERATOR & FREEZER DOORS

Measure Description: An auto closer is a device that automatically closes a refrigerator or freezer door. They may be applied to the main door of a walk-in unit or the door of a reach-in display case. This prevents excess heat from entering the cooler, thereby reducing the load on the compressor. They are typically required to close a door completely, even if left open as little as one inch.

Applicability: New construction (except for walk-in main refrigerator or freezer doors) and retrofit installations are eligible.

Equipment Eligibility: Auto closer for main refrigerator doors must firmly close door when door is within 1” of full closure. Auto closer for reach-in refrigerator doors must be applied to a door with a minimum perimeter of 16’ and must firmly close door when door is within 1” of full closure. Equipment must be purchased and installed and meet all other program terms and conditions.

- Items to submit with rebate Application:**
1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” and “Measure Size” as “NA”.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-2.

Table R-2. Door Auto Closer Rebates

Equipment Code	Measure Description	Unit	Rebate
RFWACL	Auto Closer Main Walk-in Unit Doors - Low Temperature Application (≤ 0 °F)	Each	\$50.00/each
RFWACM	Auto Closer Main Walk-in Unit Doors - Medium Temperature Application (1 to 35 °F)	Each	\$40.00/each
RFRACL	Auto Closer Reach-In Doors - Low Temperature Application (≤ 0 °F)	Each	\$50.00/each
RFRACM	Auto Closer Reach-In Doors - Medium Temperature Application (1 to 35 °F)	Each	\$40.00/each

DOCK DOOR SEALS FOR FREEZERS AND REFRIGERATORS

Measure Description: The dock door is the space where trucks pull up to refrigerated spaces for loading or unloading. During the delivery process, conditioned air can escape the facility or refrigerated truck, allowing

unconditioned air to enter. This results in increased refrigeration loads and higher energy consumption. A dock door seal serves as an interface between the warehouse and the truck, preventing air from entering or leaving. There are a number of different types of dock door seals including curtains seals, cushion seals, and inflatable seals.

Applicability: Only retrofit installations are eligible.

Equipment Eligibility: Equipment must create seal between building and truck during loading. Seals requiring blowers are not eligible. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with Rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” as “NA” and the “Measure Size” as the total door perimeter in linear feet.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-3.

Table R-3. Dock Door Seal Rebates

Equipment Code	Measure Description	Unit	Rebate
RFDDSF	Dock Door Seals for Freezers	Linear Foot	\$17.00/linear ft.
RFDDSR	Dock Door Seals for Refrigerators	Linear Foot	\$14.00/linear ft.

DOOR GASKETS FOR GLASS & SOLID DOORS

Measure Description: Gaskets provide a seal around the refrigerator door to prevent outside air from entering the cooler when the door is closed. Old or damaged door gaskets can lead to outside air leaks, resulting in higher refrigeration loads and excess frost build up on the evaporator. Replacing the damaged gasket can achieve a stronger seal, and help reduce refrigeration load.

Applicability: Only retrofit installations are eligible.

Equipment Eligibility: Replacement gaskets must meet or exceed the manufacturer’s specifications including dimensions, materials, attachment method, style, compression, and magnetism. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” as “NA” and the “Measure Size” as the total door perimeter in linear feet.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-4.

Table R-4. Door Gasket Rebates

Equipment Code	Measure Description	Unit	Rebate
RFDGGL	Door Gaskets for Glass Doors - Low Temperature Application (≤ 0 °F)	Linear Foot	\$7.00/linear ft.
RFDGGM	Door Gaskets for Glass Doors - Medium Temperature Application (1 to 35 °F)	Linear Foot	\$5.00/linear ft.
RFDGSL	Door Gaskets for Solid Doors - Low Temperature Application (≤ 0 °F)	Linear Foot	\$7.00/linear ft.
RFDGSM	Door Gaskets for Solid Doors - Medium Temperature Application (1 to 35 °F)	Linear Foot	\$5.00/linear ft.

ELECTRONICALLY COMMUTATED MOTORS

Measure Description: An electronically commutated motor (ECM) is a fractional horsepower direct current (DC) motor used most often in commercial refrigeration applications such as display cases, walk-in coolers/freezers, refrigerated vending machines, and bottle coolers. ECMs can also be used in HVAC applications, primarily as small fan motors for packaged terminal units or in terminal air boxes.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: All ECMs up to 1 HP in size may qualify for an incentive. Rebates are not available when rebates are paid for high-efficiency display cases. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with Rebate Application: 1. Dated sales receipt/invoice
2. Manufacturer’s equipment specification sheet

Instructions for Rebate Application: On the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the nameplate motor size.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-5.

Table R-5. Electronically Commutated Motor (ECM) Rebates

Equipment Code	Measure Description	Unit	Rebate
ECMREF	Refrigeration Application	Nameplate Wattage	\$0.50/watt
ECMHVC	HVAC Application	Nameplate HP	\$50/HP

EVAPORATOR FAN CONTROLLER FOR WALK-IN COOLERS

Measure Description: Most walk-in coolers are cooled by forced air convection over an evaporator. The evaporator fan generally operates continuously, regardless of the cooling needs. In addition to consuming unneeded power, the fan motors produce heat that increases the refrigeration load of the system. Evaporator fan controllers sense the status of the cooling system and adjust the usage of the fan motor accordingly. Controllers can operate by cycling the fans off or reducing voltage to the fan. This saves energy by reducing the power drawn by the motor, as well as decreasing the load on the refrigeration system by eliminating the excess heat from the fan motor.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Must control a minimum fan load of 1/20 HP and reduce fan power by at least 75% when operating at reduced speed. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” as “NA” and the “Measure Size” as the size (in HP) of the controlled evaporator fan(s).

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-6.

Table R-6 Evaporator Fan Controller for Walk-in Cooler Rebates

Equipment Code	Measure Description	Unit	Rebate
RFWEFC	Evaporator Fan Controller for Walk-in Coolers	Each	\$25.00/each

FAST-ACTING COOLER & FREEZER DOORS

Measure Description: Fast-acting doors are doors for refrigerated areas that can open and close quickly, thereby reducing the amount of outside air entering the conditioned facility. The doors can be opened with a push button, or some type of automatic sensor. The doors are often insulated to prevent excess heat conduction. The two main classifications of fast acting doors are bi-fold doors and roll-up doors.

Applicability: Only retrofit installations are eligible.

Equipment Eligibility: Bi-fold doors must open or close in 1.5 seconds or less. Roll-up doors must open or close in 4 seconds or less. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the square footage of the affected doorway.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-7.

Table R-7. Fast-Acting Cooler and Freezer Door Rebates

Equipment Code	Measure Description	Unit	Rebate
RFFACD	Fast-acting Cooler Doors	Square Foot	\$30.00/sq. ft.
RFFAFD	Fast-acting Freezer Doors	Square Foot	\$80.00/sq. ft.

HIGH-EFFICIENCY DOORS FOR LOW TEMPERATURE DISPLAY CASES

Measure Description: High-efficiency doors generally include double or triple paned glass that helps prevent conductive heat loss from the display case. These doors also minimize anti-sweat heat. This measure is often referenced by utilities as ‘Special Doors with Low/No Anti-Sweat Heat.’

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Only available for low temperature applications (≤ 0 °F). Must be a low/no anti-sweat door with a total amperage below 0.39 amps per door at 120 volts. Equipment must be purchased and installed and meet all other program terms and conditions. Rebates are not available when rebates are paid for anti-sweat heater controls.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” and “Measure Size” as “NA”.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-8.

Table R-8. High-Efficiency Doors for Low Temperature Display Cases Rebates

Equipment Code	Measure Description	Unit	Rebate
RFHEDL	High-efficiency Doors for Reach-In Display Case - Low Temperature Applications (≤ 0 °F)	Each	\$50.00/each

HIGH-EFFICIENCY OPEN AND REACH-IN DISPLAY CASES

Measure Description: Supermarkets use refrigerated open and reach-in (units with glass doors) display cases to allow customers to see and access products. High-efficiency display cases include features such as energy efficient lighting and electronically commutated fan motors.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Display case equipment must have T-8 lamps with electronic ballasts (or better) and electronically commutated motors. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the length of the unit in feet.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-9.

Table R-9. High Efficiency Open and Reach-In Display Case Rebates

Equipment Code	Measure Description	Unit	Rebate
RFODCM	High-efficiency Open Display Case - Medium Temperature Applications (1 to 35 °F)	Linear Foot	\$20.00/linear ft
RFRDCM	High-efficiency Reach-In Display Case - Medium Temperature Applications (1 to 35 °F)	Linear Foot	\$70.00/linear ft
RFRDCL	High-efficiency Reach-In Display Case - Low Temperature Applications (≤ 0 °F)	Linear Foot	\$150.00/linear ft

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NIGHT COVERS FOR OPEN VERTICAL AND HORIZONTAL DISPLAY CASES

Measure Description: Refrigerated display cases in food stores are often left open to allow customers to easily see and access the contents of the case. This causes the refrigerator compressors to work over-time to compensate for the warming caused by the infiltration of store air. Night covers are blinds that can be used to cover the open display case during the night time when it is not necessary for the contents of the case to be visible.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Night covers must be permanently installed on display cases and in use for at least 6 hours nightly.

Items to submit with rebate Application: 1. Dated sales receipt/invoice
 2. Manufacturer’s specification sheets demonstrating compliance with equipment eligibility requirements

Instructions for Rebate Application: On the Rebate Application note the “Efficiency” as “NA” and the “Measure Size” as the linear footage of the installed cover.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-10.

Table R-10. Night Cover Rebates

Equipment Code	Measure Description	Unit	Rebate
RFVONC	Night Covers for Vertical Open Display Cases	Linear Foot	\$5.00/linear ft.
RFHONC	Night Covers for Horizontal Open Display Cases	Linear Foot	\$5.00/linear ft.

STRIP CURTAINS FOR WALK-IN AND REFRIGERATED WAREHOUSE SPACES

Measure Description: Strip curtains are flexible barriers that cover the door to a walk-in refrigerator or refrigerated warehouse. They are used to allow spaces to be easily accessed with equipment or products, while reducing the infiltration of warm outside air. Strip curtains generally replace direct openings to the outside air.

Applicability: Only retrofit installations are eligible.

Equipment Eligibility: Install strip curtains on doorways of walk-in refrigerators or freezers or doorways to refrigerated warehouses. Strip curtains replacing worn or existing curtains are not eligible. Equipment must be purchased and installed and meet all other program terms and conditions.

Items to submit with rebate Application: 1. Dated sales receipt/invoice

Instructions for Rebate Application: On the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the square footage of the affected doorway.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table R-11.

Table R-11. Strip Curtains Rebates

Equipment Code	Measure Description	Unit	Rebate
RFSCN	Strip Curtains Walk-in & Refrigerated Warehouse Spaces	Square Foot	\$6.00/sq. ft.