

# **Incentive Catalog and Equipment Specifications**

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**School Energy Efficiency Program Incentives 2006-2008**

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## Customized Savings

Energy efficiency measures that are not shown in the Energy Efficiency Measure List Catalog are eligible for incentives where measurable energy savings above Title 24 requirements or generally accepted industry standards can be documented. Energy savings calculation for customized measures must be approved by PG&E in order to qualify and incentive payments will be calculated according to the following:

### Measure Type

|             |                     |
|-------------|---------------------|
| Lighting    | <b>\$0.05/kWh</b>   |
| AC&R        | <b>\$0.14/kWh</b>   |
| Other       | <b>\$0.08/kWh</b>   |
| Natural Gas | <b>\$0.80/therm</b> |

## Agricultural Products

### LOW PRESSURE SPRINKLER NOZZLES

Must convert from a high-pressure, sprinkler system nozzle (50 psi operating pressure or more at the sprinkler head). Must be accompanied by a pumping plant analysis to ensure reasonable pumping efficiency(45% Overall Pumping Efficiency or above) after the conversion. Portable hand move or solid set systems may apply.

| <b>Product Code</b>                                  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>A272</b> Low Pressure Sprinkler Nozzles,Portable  | <b>\$1.15/Nozzle</b>          |
| <b>A273</b> Low Pressure Sprinkler Nozzles,Permanent | <b>\$1.15/Nozzle</b>          |

### SPRINKLER TO DRIP IRRIGATION

Must convert from a high-pressure, impact-type, sprinkler irrigation system (50 psi operating pressure or more at the sprinkler head) to a micro-irrigation system. Not applicable to new plantings of vineyards or orchards unless a vineyard or orchard was the previous crop on the field. Drip tape systems are not eligible. Include an Assessor's Parcel Map or other documentation to verify acreage.

| <b>Product Code</b>                                       | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>A266</b> Sprinkler to Drip Irrigation, Field Vegetable | <b>\$44.00/Acre</b>           |
| <b>A268</b> Sprinkler to Drip Irrigation, Deciduous Tree  | <b>\$44.00/Acre</b>           |

## Appliances and General Improvement

### ATTIC INSULATION

Must have space heating or cooling source using natural gas or electricity distributed to the installation address by PG&E. All materials must be new. Follow manufacturer's installation requirements. Materials must meet or exceed all applicable local, state and federal standards. Attic and roof/ceiling insulation is eligible for a incentive only if the pre-retrofit insulation level is R-11 or less, and if installed between conditioned area and unconditioned space. The final insulation level must be at least R-30 unless a higher level is specified by local jurisdiction. Dropped commercial ceilings are not eligible for incentive, insulation is feasible only when attic crawl space is adequate. If purchasing insulation, remember that your incentive is based on the amount of insulation actually installed.

**Product Code**

**B32** Attic Insulation

**Incentive/Unit Measure**

**\$0.15/Square Foot**

### WALL INSULATION

Must have space heating or cooling source using natural gas or electricity distributed to the installation address by PG&E. All materials must be new. Follow manufacturer's installation requirements. Materials must meet or exceed all applicable local, state and federal standards. Wall insulation is eligible for a incentive as long as existing walls are uninsulated. Installed insulation must achieve a minimum of R-13.

**Product Code**

**B36** Wall Insulation

**Incentive/Unit Measure**

**\$0.15/Square Foot**

### ELECTRIC STORAGE WATER HEATER

Must have electricity distributed to the installation address by PG&E. Instantaneous and tankless water heaters do not qualify for this incentive. High efficiency electric storage water heaters must have an Energy Factor (EF) of 0.93 or greater. The water heater must be 40 gallons or greater. Look for the EF rating on the water heater specification sheet or on the packaging box; it does not always appear on the water heater label itself. For a list of qualifying products go to [pge.com/res/incentives/gas\\_electric\\_storage/vendors/electric.html](http://pge.com/res/incentives/gas_electric_storage/vendors/electric.html).

**Product Code**

**H154** Electric Storage Water Heater

**Incentive/Unit Measure**

**\$30.00/Unit**

### HIGH EFFICIENCY CLOTHES WASHERS

Must have either natural gas or electricity distributed to the installation address by PG&E.

**Level 1 Incentive**, qualifying clothes washers must have a Modified Energy Factor\* (MEF) of 2.0 or greater and a Water Factor \*\* (WF) of 6.0 or less. Not all ENERGY STAR® clothes washers qualify for this incentive. For a list of qualifying residential products, go to [cee1.org/resid/seha/rwsh/rwsh-prod.pdf](http://cee1.org/resid/seha/rwsh/rwsh-prod.pdf). For a list of qualifying commercial products, go to [cee1.org/com/cwsh/cwshspec.pdf](http://cee1.org/com/cwsh/cwshspec.pdf). Tier 1 does not qualify. Tier 2 on the CEE product list qualifies for this incentive.

**Product Code**

**B33** High Efficiency Clothes Washer Level 1

**Incentive/Unit Measure**

**\$35.00/Unit**

## HIGH EFFICIENCY CLOTHES WASHERS

**Level 2 Incentive**, qualifying clothes washers must have a MEF\* of 2.2 or greater and a WF\*\* of 4.5 or less. Not all ENERGY STAR clothes washers qualify for this incentive. For a list of qualifying residential products go to [.cee1.org/resid/seha/rwsh/rwsh-prod.pdf](http://cee1.org/resid/seha/rwsh/rwsh-prod.pdf). For a list of qualifying commercial products, go to [cee1.org/com/cwsh/cwshspec.pdf](http://cee1.org/com/cwsh/cwshspec.pdf). Tier 3 on the CEE product list qualifies for this incentive.

| <b>Product Code</b>                               | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>B34</b> High Efficiency Clothes Washer Level 2 | <b>\$75.00/Unit</b>           |

*\*Modified Energy Factor (MEF) measures energy consumption of the total laundry cycle (washing and drying). It indicates how many cubic feet of laundry can be washed and dried with one kWh of electricity; the higher the number, the greater the efficiency. \*\*Water Factor (WF) represents the number of gallons of water needed for each cubic foot of laundry. The lower number indicates lower consumption and more efficient use of water.*

## HIGH EFFICIENCY DISHWASHERS

Must have either natural gas or electricity distributed to the installation address by PG&E.

**Level 1 Incentive**, qualifying dishwashers must have an EF\* of 0.65 to 0.67. For a list of qualifying products go to [energystar.gov](http://energystar.gov).

| <b>Product Code</b>                           | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>B35</b> High Efficiency Dishwasher Level 1 | <b>\$30.00/Unit</b>           |

**Level 2 Incentive**, qualifying dishwashers must have an EF\* of 0.68 or greater. Not all ENERGY STAR® dishwashers qualify for this incentive. For a list of qualifying products go to [energystar.gov](http://energystar.gov).

| <b>Product Code</b>                           | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>B20</b> High Efficiency Dishwasher Level 2 | <b>\$50.00/Unit</b>           |

*\*Energy Factor (EF) is defined as the number of cycles per kWh of input power.*

## REFLECTIVE WINDOW FILM

Film must have a minimum five-year manufacturer's warranty. Film must be applied to clear, single-pane glass and have either: (1) a Solar Heat Gain Coefficient (SHGC) value of 0.39 or less; or (2) a SHGC value of 0.47 or less and a Visible Transmittance/Solar Heat Gain Coefficient ratio greater than 1.3 (VT divided by SHGC). Space must be cooled by vapor-compression air conditioner (evaporative-cooled space not eligible). Specification must be documented on the invoice, as well as square footage installed. To convert Shading Coefficient (SC) to Solar Heat Gain Coefficient (SHGC), multiply SC x 0.87. If SC is given in percent form, convert it to decimal form before multiplying. Windows with northern exposure (+ 45 degrees of due North) and/or dual-pane glass do not qualify for this incentive.

| <b>Product Code</b>               | <b>Incentive/Unit Measure</b> |
|-----------------------------------|-------------------------------|
| <b>B07</b> Reflective Window Film | <b>\$1.35/Square Foot</b>     |

## ENERGY STAR® ROOM AIR CONDITIONER

Must have electricity distributed to the installation address by PG&E. Must be ENERGY STAR qualified. For a list of qualifying products go to [energystar.gov](http://energystar.gov).

| <b>Product Code</b>                           | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H169</b> ENERGY STAR® Room Air Conditioner | <b>\$50.00/Unit</b>           |

## Boilers and Water Heating

### COMMERCIAL BOILER

#### (NON SPACE CONDITIONING/NON-PROCESS RELATED)

Available to commercial end-use customers {North American Industry Classification System (NAICS) codes 111, 112, 42, 44, 45, 48-49, 51-56, 61- 62, 71-72, 81 & 92}. Only boilers > 75,000 Btuh qualify. Must meet a minimum thermal efficiency of 84%. Include a manufacturer's specification sheet documenting these characteristics. Boiler must not be used for space conditioning. Boiler must not be used for industrial (process) end-use.

#### Product Code

**H105** Commercial Boiler

#### Incentive/Unit Measure

**\$1.50/MBtuh**

### COMMERCIAL POOL HEATER

Available for swimming pool heating and must replace pre-existing pool heater. The commercial pool and spa heater must be certified to meet the following requirements: 1) heater must be equal to or greater than 84% thermal efficiency, 2) must have an "on/off" switch and have no pilot light and 3) size of equipment must be between 500 MBtu and 2000 MBtu.

#### Product Code

**H103** Commercial Pool Heater

#### Incentive/Unit Measure

**\$2.00/MBtuh**

### DIRECT CONTACT WATER HEATER

Only direct contact water heaters for process end-uses qualify (NAICS codes 31-33). In direct contact water heater systems design, heat from a flame comes into direct contact with small droplets of cold water which run through a stainless steel heat exchange media. Droplets composed from the process come into direct contact with rising heat from the flame and the water is heated directly. Boilers must meet efficiency requirements based on size as shown in below.

#### Required Efficiency

#### Input Rating

≤300 MBtuh    AFUE ≥88%

> 300 MBtuh    Thermal Efficiency > 90%

All required efficiencies exceed Title 20 & 24 standards, as prescribed above.

#### Product Code

**H16** Direct Contact Water Heater

#### Incentive/Unit Measure

**\$2.00/MBtuh**

## INSTANTANEOUS WATER HEATER (NON-PROCESS RELATED)

Available to commercial end-use customers only (NAICS codes 111, 112, 42, 44, 45, 48-49, 51-56, 61-62, 71-72, 81 & 92). Water heaters must meet efficiency requirements based on size, as shown. Only instantaneous water heaters (as defined by the California Energy Commission Title 20 & 24 standards) used for non-process hot water applications qualify. The manufacturer name and equipment model number must be provided. Customers must provide proof of the tankless nature of the water heater (e.g., manufacturer equipment specification sheets).

**Input Rating**      **Required Efficiency**  
 ≤200 MBtuh      Energy Factor ≥0.63%  
 > 200 MBtuh      Thermal Efficiency ≥82%

All required efficiencies exceed Title 20 & 24 standards, as prescribed above.

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H9</b> Instantaneous Water Heater > 75 MBtuh, ≤200 MBtuh | <b>\$2.00/MBtuh</b>           |
| <b>H10</b> Instantaneous Water Heater □200 MBtuh            | <b>\$2.00/MBtuh</b>           |
| <b>H14</b> Instantaneous Water Heater ≤75 MBtuh             | <b>\$2.00/MBtuh</b>           |

## PIPE INSULATION

1" or 2" of fiberglass, foam, or calcium silicate insulation must be added to existing nonresidential bare pipe systems which transfer fluid directly from gas-fired equipment. Minimum qualifying pipe diameter is 1". Insulation thickness, liquid or steam temperature will determine the incentive amount. Additional required information will be the manufacturer's name, insulation material type, and the material k-value rating.

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H108</b> 1" Pipe insulation; low pressure (< 15 psig) steam 200 - 250° F | <b>\$3.00/Linear Foot</b>     |
| <b>H106</b> 1" Pipe insulation; hot water 120 - 200° F                      | <b>\$2.00/Linear Foot</b>     |
| <b>H109</b> 2" Pipe insulation; low pressure (< 15 psig) steam 200 - 250° F | <b>\$4.00/Linear Foot</b>     |
| <b>H107</b> 2" Pipe insulation; hot water 120 - 200° F                      | <b>\$3.00/Linear Foot</b>     |

## PROCESS BOILER

Available to industrial end-use customers who manufacture a sellable product only (NAICS codes 31-33). Manufacturing involves the mechanical or chemical transformation of materials or substances into a new product which is neither a structure nor any other fixed improvement. Boilers must meet a minimum combustion efficiency of 82% as installed. Only process boilers (i.e., units not primarily used for domestic hot water, space conditioning, pool or spa use) qualify. The manufacturer name and equipment model number must be provided. A flue gas analysis measured under full load conditions is required to document combustion efficiency after installation is complete.

| <b>Product Code</b>             | <b>Incentive/Unit Measure</b> |
|---------------------------------|-------------------------------|
| <b>H15</b> Steam Process Boiler | <b>\$2.00/MBtuh</b>           |
| <b>H11</b> Water Process Boiler | <b>\$2.00/MBtuh</b>           |

## SPACE HEATING BOILER

Boilers must meet efficiency requirements based on size and type, as shown below. Include a manufacturer's specification sheet documenting these characteristics. Boiler must be used for space heating for human comfort as defined by California Titles 20 & 24 standards.

| Type        | Input Rating                     | Required Efficiency           |
|-------------|----------------------------------|-------------------------------|
| Steam       | < 300 MBtuh                      | AFUE $\geq$ 77%               |
| Small water | < 300 MBtuh                      | AFUE $\geq$ 82%               |
| Large       | $\geq$ 300 Mbtuh – < 2,500 MBtuh | Thermal Efficiency $\geq$ 84% |

All required efficiencies exceed Title 20 & 24 standards, as prescribed above.

| Product Code                           | Incentive/Unit Measure |
|--|------------------------|
| <b>H113</b> Steam Space Heating Boiler | <b>\$1.00/MBtuh</b>    |
| <b>H111</b> Water Space Heating Boiler | <b>\$1.00/MBtuh</b>    |
| <b>H112</b> Large Space Heating Boiler | <b>\$1.00/MBtuh</b>    |

## STEAM TRAPS - REPLACEMENT

Steam traps are automatic valves used in every steam system to remove condensate, air, and other non-condensable gasses while preventing or minimizing passage of steam. There are three major types of steam traps: 1) mechanical, 2) thermostatic, and 3) thermodynamic. All replaced steam traps in an existing steam system are eligible. New construction is not eligible. Steam trap type designation for the replacement steam trap must be provided, along with a specification sheet for the replacement steam trap(s). **Eligible customers must have a valid PG&E commercial or industrial gas account. Also, qualifying steam traps must be purchased and installed on or after October 1, 2006.**

| Product Code  | Incentive/Unit Measure |
|---|------------------------|
| <b>H221</b> Commercial Steam Traps - Less than 24 hr/day operations | <b>\$100/unit</b>      |
| <b>H201</b> Commercial Steam Traps - 24 hr/day operations           | <b>\$100/unit</b>      |
| <b>H202</b> Industrial Steam Traps - 24 hr/day operations           | <b>\$200/unit</b>      |

## STORAGE WATER HEATER

Water heaters must meet efficiency requirements based on size, as shown below. If the size and efficiency are not shown on the invoice, you must include a manufacturer's specification sheet documenting these characteristics.

| Input Rating       | Required Efficiency           |
|--------------------|-------------------------------|
| $\leq$ 75,000 Btuh | Energy Factor $\geq$ 0.62     |
| > 75,000 Btuh      | Thermal Efficiency $\geq$ 82% |

All required efficiencies exceed Title 20 & 24 standards, as prescribed above.

| Product Code                   | Incentive/Unit Measure |
|--------------------------------|------------------------|
| <b>H6</b> Storage Water Heater | <b>\$2.00/MBtuh</b>    |

## TANK INSULATION

Tank Insulation Incentives: 1” or 2” of fiber glass or foam insulation must be added to existing bare liquid or solution storage or transfer tanks that are coupled to gas-fired commercial or industrial equipment that transfers heat to the liquid or solution. The insulation thickness and tank solution temperature will determine the incentive amount. Additional required information will be the manufacturer’s name, insulation material type, and the material k-value rating.

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H114</b> 1” Tank insulation, high temp 170 – 200° F solution | <b>\$3.00/Square Foot</b>     |
| <b>H115</b> 1” Tank insulation, low temp 120 – 170° F solution  | <b>\$2.00/Square Foot</b>     |
| <b>H18</b> 2” Tank insulation, high temp 170 – 200° F solution  | <b>\$4.00/Square Foot</b>     |
| <b>H13</b> 2” Tank insulation, low temp 120 – 170° F solution   | <b>\$3.00/Square Foot</b>     |

### Definitions

**Btu:** British Thermal Unit, the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

**MBtu:** 1000 British thermal units

**MBtuh:** 1000 British thermal Units per hour.

**NAICS:** North American Industry Classification System identifies new, emerging and advanced technology industries. NAICS defines industries according to a consistent principle: businesses that use similar production process are grouped together. For a list of NAICS Codes and Titles, please visit [www.census.gov/epcd/naics02/naicod02.html](http://www.census.gov/epcd/naics02/naicod02.html).

## Business Computing

### NETWORK PC POWER MANAGEMENT SOFTWARE

Must be a PG&E electric customer. Installed software must automatically control the power settings of networked personal computers (PC) at the server level. The software must be capable of managing power consumption for each individual PC. In addition, the software must be capable to report energy savings results. This software is to be used as part of a customer’s system-wide best practice strategy for energy efficiency. When submitting a incentive worksheet, customers must ensure proper documentation is attached (see below)\*. Qualifying software must be purchased and installed on or after March 1, 2007.

| <b>Product Code</b>                             | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>M03</b> Network PC Power Management Software | <b>\$15.00/per PC</b>         |

### PLUG LOAD OCCUPANCY SENSORS

This incentive applies to passive infrared and/or ultrasonic detectors only. Plug-load sensors must control electricity using equipment in offices or cubicles, including shared copiers and /or printers.

| <b>Product Code</b>                   | <b>Incentive/Unit Measure</b> |
|---------------------------------------|-------------------------------|
| <b>L65</b> Plug Load Occupancy Sensor | <b>\$15.00/Sensor</b>         |

\*Documentation includes: (1) copy of Software License Agreement, (2) a report directly from the Network Energy Management Software that verifies the number of PCs that are being controlled by the system, and (3) the number of computers authorized per License.

Also when requested, customers must allow PG&E access to customer property site to verify the software license installation and the number of PCs being controlled by the system.

## Food Service

Customers applying for a gas measure must have a PG&E gas account, and customers applying for an electric measure must have a PG&E electric account. All incentives apply toward the purchase of new or replacement energy efficient equipment. Used or rebuilt equipment is not eligible. Customers must provide proof that the appliances meet the energy efficiency specifications. **For a list of qualifying products for the Food Service Equipment, visit [www.fishnick.com/saveenergy/incentives](http://www.fishnick.com/saveenergy/incentives).**

### COMMERCIAL COMBINATION OVEN (ELECTRIC)

The tested oven must meet or exceed heavy load cooking energy efficiency of  $\geq 60\%$  utilizing American Society for Testing and Materials (ASTM) Standard F1639.

| <b>Product Code</b>                                | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>F100</b> Commercial Combination Oven (Electric) | <b>\$1,000.00/Oven</b>        |

### COMMERCIAL COMBINATION OVEN (GAS)

The tested oven must meet or exceed heavy load cooking energy efficiency of  $\geq 40\%$  utilizing ASTM Standard F1639.

| <b>Product Code</b>                           | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F101</b> Commercial Combination Oven (Gas) | <b>\$750.00/Oven</b>          |

### COMMERCIAL CONVECTION OVEN (ELECTRIC)

The tested oven must meet or exceed heavy load potato cooking energy efficiency of  $\geq 70\%$  utilizing ASTM Standard F1496.

| <b>Product Code</b>                               | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F102</b> Commercial Convection Oven (Electric) | <b>\$350.00/Oven</b>          |

### COMMERCIAL CONVECTION OVEN (GAS)

The tested oven must meet or exceed heavy load potato cooking energy efficiency of  $\geq 40\%$  utilizing ASTM Standard F1496.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>F103</b> Commercial Convection Oven (Gas) | <b>\$500.00/Oven</b>          |

### COMMERCIAL RACK OVENS (GAS)

Incentives are not available for purchases prior to 7/1/2006. The tested commercial rack oven must meet or exceed baking energy efficiency of  $\geq 50\%$  utilizing ASTM Standard F2093.

| <b>Product Code</b>                     | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F141</b> Commercial Rack Oven Single | <b>\$1,000.00/Single Oven</b> |
| <b>F142</b> Commercial Rack Oven Double | <b>\$2,000.00/Double Oven</b> |

### COMMERCIAL FRYER (ELECTRIC)

The commercial fryer must meet ENERGY STAR® specifications for energy efficiency or must have a tested heavy load cooking energy efficiency of  $\geq 80\%$  utilizing ASTM Standard F1361. Multiple vat configurations are paid per qualifying vat.

| <b>Product Code</b>                     | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F104</b> Commercial Fryer (Electric) | <b>\$200.00/Vat</b>           |

**COMMERCIAL LARGE VAT FRYER (ELECTRIC)**

Incentives are not available for purchases prior to 7/1/2006. The commercial fryer must have a tested heavy load (French fry) cooking energy efficiency of  $\geq 80\%$  utilizing ASTM Standard F2144. Multiple vat configurations are paid per qualifying vat.

| <b>Product Code</b>                               | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F138</b> Commercial Large Vat Fryer (Electric) | <b>\$200.00/Vat</b>           |

**COMMERCIAL FRYER (GAS)**

The commercial fryer must meet ENERGY STAR specifications for energy efficiency or must have a tested heavy load cooking energy efficiency of  $\geq 50\%$  utilizing ASTM Standard F1361. Multiple vat configurations are paid per qualifying vat.

| <b>Product Code</b>                | <b>Incentive/Unit Measure</b> |
|------------------------------------|-------------------------------|
| <b>F105</b> Commercial Fryer (Gas) | <b>\$500.00/Vat</b>           |

**COMMERCIAL LARGE VAT FRYER (GAS)**

Incentives are not available for purchases prior to 7/1/2006. The commercial fryer must have a tested heavy load (French fry) cooking energy efficiency of  $\geq 50\%$  utilizing ASTM Standard F2144. Multiple vat configurations are paid per qualifying vat.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>F139</b> Commercial Large Vat Fryer (Gas) | <b>\$500.00/Vat</b>           |

**COMMERCIAL GLASS DOOR REFRIGERATORS**

The refrigeration system shall be built-in (packaged). Cases with remote refrigeration systems do not qualify. Customers must provide proof that the appliance meets the CEE Tier II energy efficiency specifications using ASHRAE Standard 117-1992 (38°F +/- 2°F).

| <b>Total Volume (foot<sup>3</sup>)</b>         | <b>CEE Maximum Daily Energy Use</b> |
|--|-------------------------------------|
| 1 Section; <19 ft <sup>3</sup> CEE Tier II     | $\leq 0.086 V + 2.39$ kWh/day       |
| 1 Section; 19-30 ft <sup>3</sup> , CEE Tier II | $\leq 0.086 V + 2.39$ kWh/day       |
| 2 Section; 31-60 ft <sup>3</sup> , CEE Tier II | $\leq 0.086 V + 2.39$ kWh/day       |
| 3 Section; 61-90 ft <sup>3</sup> , CEE Tier II | $\leq 0.086 V + 2.39$ kWh/day       |

*V=Internal volume in cubic feet (ft<sup>3</sup>)*

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>F117</b> Commercial Glass Door Refrigerators, < 19 ft <sup>3</sup> , CEE Tier II  | <b>\$75.00/Unit</b>           |
| <b>F118</b> Commercial Glass Door Refrigerators, 19-30 ft <sup>3</sup> , CEE Tier II | <b>\$100.00/Unit</b>          |
| <b>F119</b> Commercial Glass Door Refrigerators, 31-60 ft <sup>3</sup> , CEE Tier II | <b>\$125.00/Unit</b>          |
| <b>F120</b> Commercial Glass Door Refrigerators, 61-90 ft <sup>3</sup> , CEE Tier II | <b>\$150.00/Unit</b>          |

**COMMERCIAL GRIDDLE (ELECTRIC)**

The tested griddle must meet or exceed heavy load cooking energy efficiency of  $\geq 70\%$  utilizing ASTM Standard F1275.

| <b>Product Code</b>                       | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>F106</b> Commercial Griddle (Electric) | <b>\$300.00/Griddle</b>       |

**COMMERCIAL GRIDDLE (GAS)**

The tested griddle must meet or exceed heavy load cooking energy efficiency of  $\geq 38\%$  utilizing ASTM Standard F1275.

|                                      |                               |
|--------------------------------------|-------------------------------|
| <b>Product Code</b>                  | <b>Incentive/Unit Measure</b> |
| <b>F107</b> Commercial Griddle (Gas) | <b>\$125.00/Griddle</b>       |

**COMMERCIAL ICE MACHINES**

This incentive covers machines generating 60 grams (2 oz.) or lighter ice cubes, as well as flaked, crushed, or fragmented ice that meets the energy efficiency thresholds by Ice Harvest Rate (IHR) as listed below. The IHR (or capacity in lbs) is the amount of ice produced in 24 hours. In addition, ice machines must not exceed the specified kWh per 100 lbs of ice or less as shown below. Only air-cooled machines (icemaker heads, self-contained units, and remote condensing units) are eligible for incentives. The test method must be in accordance with the Air-Conditioning and Refrigeration Institute (ARI) Standard 810.

| <b>Ice Harvest Rate Capacity</b> | <b>Incentive Threshold kWh/100 lbs Ice<br/>(or less)</b> |
|----------------------------------|--|
| 101-200 lbs/day                  | 9.4  |
| 201-300 lbs/day                  | 8.5  |
| 301-400 lbs/day                  | 7.2  |
| 401-500 lbs/day                  | 6.1  |
| 501-1,000 lbs/day                | 5.8  |
| 1,001-1,500 lbs/day              | 5.5  |
| > 1,500 lbs/day                  | 5.1  |

|  |                               |
|--|-------------------------------|
| <b>Product Code</b>                                      | <b>Incentive/Unit Measure</b> |
| <b>F123</b> Commercial Ice Machines, 101-200 lbs/day     | <b>\$300.00/Machine</b>       |
| <b>F124</b> Commercial Ice Machines, 201-300 lbs/day     | <b>\$300.00/Machine</b>       |
| <b>F125</b> Commercial Ice Machines, 301-400 lbs/day     | <b>\$300.00/Machine</b>       |
| <b>F126</b> Commercial Ice Machines, 401-500 lbs/day     | <b>\$300.00/Machine</b>       |
| <b>F127</b> Commercial Ice Machines, 501-1,000 lbs/day   | <b>\$400.00/Machine</b>       |
| <b>F122</b> Commercial Ice Machines, 1,001-1,500 lbs/day | <b>\$500.00/Machine</b>       |
| <b>F121</b> Commercial Ice Machines, > 1,500 lbs/day     | <b>\$500.00/Machine</b>       |

**COMMERCIAL STEAM COOKER (ELECTRIC)**

The commercial steam cooker must meet ENERGY STAR specifications for energy efficiency or must have a tested heavy load potato cooking energy efficiency of  $\geq 50\%$  utilizing ASTM Standard F1484.

|  |                               |
|--|-------------------------------|
| <b>Product Code</b>                            | <b>Incentive/Unit Measure</b> |
| <b>F108</b> Commercial Steam Cooker (Electric) | <b>\$750.00/Steamer</b>       |

**COMMERCIAL STEAM COOKER (GAS)**

The commercial steam cooker must meet ENERGY STAR specifications for energy efficiency or must have a tested heavy load potato cooking energy efficiency of  $\geq 38\%$  utilizing ASTM Standard F1484.

|   |                               |
|---|-------------------------------|
| <b>Product Code</b>                       | <b>Incentive/Unit Measure</b> |
| <b>F109</b> Commercial Steam Cooker (Gas) | <b>\$750.00/Steamer</b>       |

## COMMERCIAL SOLID DOOR FREEZERS

The refrigeration system shall be built-in (packaged). Cases with remote refrigeration systems do not qualify. Customers must provide proof that the appliance meets the CEE Tier II energy efficiency specifications using ASHRAE Standard 117-1992 (0°F +/- 2°F).

| Product Description              | CEE Tier II Maximum Daily Energy Use |
|----------------------------------|--------------------------------------|
| 1 Section; < 19 ft <sup>3</sup>  | ≤0.28 V + 0.97 kWh/day               |
| 1 Section; 19-30 ft <sup>3</sup> | ≤0.28 V + 0.97 kWh/day               |
| 2 Section; 31-60 ft <sup>3</sup> | ≤0.28 V + 0.97 kWh/day               |
| 3 Section; 61-90 ft <sup>3</sup> | ≤0.28 V + 0.97 kWh/day               |

*V=Internal volume in cubic feet (ft<sup>3</sup>)*

| Product Code  | Incentive/Unit Measure |
|---|------------------------|
| <b>F128</b> Commercial Solid Door Freezers, < 19 ft <sup>3</sup>  | <b>\$100.00/Unit</b>   |
| <b>F129</b> Commercial Solid Door Freezers, 19-30 ft <sup>3</sup> | <b>\$200.00/Unit</b>   |
| <b>F130</b> Commercial Solid Door Freezers, 31-60 ft <sup>3</sup> | <b>\$325.00/Unit</b>   |
| <b>F131</b> Commercial Solid Door Freezers, 61-90 ft <sup>3</sup> | <b>\$500.00/Unit</b>   |

## COMMERCIAL SOLID DOOR REFRIGERATORS

The refrigeration system shall be built-in (packaged). Cases with remote refrigeration systems do not qualify. Customers must provide proof that the appliance meets the CEE Tier II energy efficiency specifications using ASHRAE Standard 117-1992 (38°F +/- 2°F).

| Product Description              | CEE Tier II Maximum Daily Energy Use |
|----------------------------------|--------------------------------------|
| 1 Section; < 19 ft <sup>3</sup>  | ≤0.06 V + 1.22 kWh/day               |
| 1 Section; 19-30 ft <sup>3</sup> | ≤0.06 V + 1.22 kWh/day               |
| 2 Section; 31-60 ft <sup>3</sup> | ≤0.06 V + 1.22 kWh/day               |
| 3 Section; 61-90 ft <sup>3</sup> | ≤0.06 V + 1.22 kWh/day               |

*V=Internal volume in cubic feet (ft<sup>3</sup>)*

| Product Code   | Incentive/Unit Measure |
|--|------------------------|
| <b>F132</b> Commercial Solid Door Refrigerators, < 19 ft <sup>3</sup>  | <b>\$75.00/Unit</b>    |
| <b>F133</b> Commercial Solid Door Refrigerators, 19-30 ft <sup>3</sup> | <b>\$100.00/Unit</b>   |
| <b>F134</b> Commercial Solid Door Refrigerators, 31-60 ft <sup>3</sup> | <b>\$150.00/Unit</b>   |
| <b>F135</b> Commercial Solid Door Refrigerators, 61-90 ft <sup>3</sup> | <b>\$225.00/Unit</b>   |

## INSULATED HOLDING CABINETS

This measure does not include cook and hold equipment. All measures must be electric hot food holding cabinets that are fully insulated and have solid doors. Qualifying cabinets must not exceed the maximum idle energy rate of 20 Watts per cubic foot in accordance with the ASTM Standard F2140 test method.

| Product Code   | Incentive/Unit Measure |
|--|------------------------|
| <b>F110</b> Insulated Holding Cabinets, Full Size          | <b>\$300.00/Unit</b>   |
| <b>F112</b> Insulated Holding Cabinets, Three-Quarter Size | <b>\$250.00/Unit</b>   |
| <b>F111</b> Insulated Holding Cabinets, Half Size          | <b>\$200.00/Unit</b>   |

## Heating Ventilation and Air Conditioning (HVAC)

### ADVANCED EVAPORATIVE COOLER

Must replace an existing, vapor-compression air conditioning system, or the existing compressor must be made inoperative. Must not have “constant bleed” option. Tonnage on incentive form is based on the capacity of the package unit that is being replaced. For evaporative coolers, one equivalent ton of cooling is defined as 1300 cfm of 0.1” Static Pressure. The invoice should contain information describing what is being replaced. An advanced evaporative cooler (AEC) must have a rigid, manufactured evaporative media with a rated saturation effectiveness of 0.85 or better (a natural fiber pad is not allowed – the rigid media is generally 12” thick), and be equipped with water quality management system that provides positive removal of sump water on a regular interval (a bleed system is not allowed).

| <b>Product Code</b>                     | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H127</b> Advanced Evaporative Cooler | <b>\$123.00/Ton</b>           |

### 92 AFUE CENTRAL NATURAL GAS FURNACE

Must be a PG&E natural gas customer. The central natural gas furnace must have a rating of 92% Annual Fuel Utilization Efficiency (AFUE) or greater. For a list of qualifying products go to gamapower.org.

| <b>Product Code</b>                             | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H185</b> 92 AFUE Central Natural Gas Furnace | <b>\$200.00/Unit</b>          |

### 94 AFUE CENTRAL NATURAL GAS FURNACE

Must be a PG&E natural gas customer. The central natural gas furnace must have a rating of 94% Annual Fuel Utilization Efficiency (AFUE) or greater. For a list of qualifying products go to gamapower.org.

| <b>Product Code</b>                             | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H186</b> 94 AFUE Central Natural Gas Furnace | <b>\$300.00/Unit</b>          |

### PACKAGE TERMINAL AIR CONDITIONERS AND PACKAGE TERMINAL HEAT PUMPS

Package terminal air conditioners (PTAC) and Package terminal heat pumps (PTHP) are through-the-wall, self-contained units and are 2 tons (24,000 Btu/hr) or less. Eligible units must meet the applicable minimum energy efficiency ratio (EER) as stated below.

| <b>Unit Capacity</b>     | <b>Minimum EER</b> |
|--------------------------|--------------------|
| ≤7,000 Btu/hr            | 11.29              |
| > 7,000 & ≤24,000 Btu/hr | 10.27              |

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>H131</b> Package Terminal Air Conditioners and Package Terminal Heat Pumps | <b>\$100.00/Unit</b>          |

### 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 an incentive only if throttling devices, such as inlet vanes, bypass dampers and throttling valves, are removed or permanently disabled. A 3% impedance choke is recommended.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>H148</b> Variable Frequency Drives (VFDs) | <b>\$80.00/hp</b>             |

## VARIABLE SPEED MOTOR (VSM) AIR HANDLER SYSTEM

Restricted to Climate Zones 11, 12 and 13.

Must have electricity distributed to the installation address by PG&E. Must have this VSM installed in conjunction with a NEW air conditioner or heat pump. Purchase and install a VSM or other advanced technology motor specification for efficient air handlers installed with any air conditioning or heat pump, split or package air handler system. When installed in conjunction with a new furnace, the furnace must meet the federal minimum standard of 78 Annual Fuel Utilization Efficiency (AFUE).

### Product Code

**H182** Variable Speed Motor (VSM) Air Handler System

### Incentive/Unit Measure

**\$50.00/Unit**

## HIGH EFFICIENCY AIR CONDITIONERS AND HEAT PUMPS

Unitary commercial air conditioners and heat pump units must meet the applicable minimum energy efficiency standards as stated below. If the efficiency standards are not shown on the invoice a manufacturer's specification sheet documenting these characteristics must be provided.

### Three Phase Equipment

| Equipment Type  | Size Category   | Sub-Category                    | Efficiency in Cooling Mode |
|---|---|---------------------------------|----------------------------|
| Air-Cooled  | Tier 1<br><65 kBtuh<br>( < 5.4 tons)                                  | Split System                    | 11.0 EER or 13.0 SEER      |
|   |   | Single Package                  | 11.0 EER or 12.0 SEER      |
|   | Tier 2<br><65 kBtuh<br>( < 5.4 tons)                                  | Split System w/TXV              | 11.6 EER or 13.0 SEER      |
|   |   | Single Package                  | 11.3 EER or 13.0 SEER      |
|   | Tier 3<br><65 kBtuh<br>( < 5.4 tons)                                  | Split System w/TXV              | 12.0 EER or 14.0 SEER      |
|   |   | Single Package                  | 11.6 EER or 14.0 SEER      |
| Tier 2<br>≥ 65 kBtuh and < 135 kBtuh<br>( ≥ 5.4 tons and < 11.3 tons) | Split System and Single Package                                       | 11.0 EER or 11.4 IPLV           |                            |
|   | Tier 2<br>≥ 135 kBtuh and < 240 kBtuh<br>( ≥ 11.3 tons and < 20 tons) | Split System and Single Package | 10.8 EER or 11.2 IPLV      |
| Air-Cooled  | Tier 2<br>≥ 240 kBtuh and < 760 kBtuh<br>( ≥ 20 tons and < 63.3 tons) | Split System and Single Package | 10.5 EER or 10.9 IPLV      |
| Air-Cooled  | Tier 2<br>≥ 760 kBtuh<br>( ≥ 63.3 tons)                               | Split System and Single Package | 9.7 EER or 10.1 IPLV       |
| Water Source HP; Water/Evap. Cooled AC (Three Phase and Single Phase) | Tier 2<br>< 65 kBtuh<br>( < 5.4 tons)                                 | Split System and Single Package | 14.0 EER                   |
|   | Tier 2<br>≥ 65 kBtuh and < 135 kBtuh<br>( ≥ 5.4 tons and < 11.3 tons) | Split System and Single Package | 14.0 EER                   |
|   | Tier 2<br>≥ 135 kBtuh and < 240 kBtuh<br>( ≥ 11.3 tons and < 20 tons) | Split System and Single Package | 14.0 EER                   |

**Three Phase**

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>H116</b> AC/HP <65 kBtuh Package single Tier 1-air cooled               | <b>\$76.00/ton</b>            |
| <b>H119</b> AC/HP <65 kBtuh Split System single Tier 1- air cooled         | <b>\$76.00/ton</b>            |
| <b>H117</b> AC/HP <65 kBtuh Package single Tier 2 - air cooled             | <b>\$95.00/ton</b>            |
| <b>H120</b> AC/HP <65 kBtuh Split System single Tier 2- air cooled         | <b>\$95.00/ton</b>            |
| <b>H118</b> AC/HP <65 kBtuh Package single Tier 3 - air cooled             | <b>\$132.00/ton</b>           |
| <b>H121</b> AC/HP <65 kBtuh Split System Tier 3 - air cooled               | <b>\$132.00/ton</b>           |
| <b>H136</b> AC/HP <65 kBtuh Water/Evap cooled, package or split            | <b>\$132.00/ton</b>           |
| <b>H125</b> AC/HP 65-135 kBtuh air cooled, package or split Tier 2         | <b>\$71.00/ton</b>            |
| <b>H138</b> AC/HP 65-135 kBtuh Water/Evap cooled, package or split Tier 2  | <b>\$107.00/ton</b>           |
| <b>H122</b> AC/HP 135-240 kBtuh air cooled, package or split Tier 2        | <b>\$71.00/ton</b>            |
| <b>H137</b> AC/HP 135-240 kBtuh Water/Evap cooled, package or split Tier 2 | <b>\$107.00/ton</b>           |
| <b>H124</b> AC/HP 240-760 kBtuh air cooled, package or split Tier 2        | <b>\$71.00/ton</b>            |
| <b>H135</b> AC/HP >760 kBtuh air cooled, package or split Tier 2           | <b>\$71.00/ton</b>            |

**Single Phase**

| <b>Product Code</b>   | <b>Incentive/Unit</b> |
|---|-----------------------|
| <b>H196</b> AC/HP <65 kBtuh Package single Tier 1-air cooled Single Phase       | <b>\$150/unit</b>     |
| <b>H197</b> AC/HP <65 kBtuh Split System single Tier 1- air cooled Single Phase | <b>\$150/unit</b>     |

**Lighting**

*Carefully read the specifications below to determine that you are installing a qualifying product(s). Must attach the manufacturer's specification sheet documenting the characteristics of lamps, ballasts and Fixtures.*

**FIXTURES****INTERIOR LINEAR FLUORESCENT FIXTURES**

Only complete new T8 or T5 or High Output (HO) T5 fixtures qualify. New fixtures must not exceed the maximum Wattage listed in the incentive table below for each range of lamp Wattage being replaced and must have a lower Wattage than the fixture being replaced.\* *Fixtures must be equipped with linear fluorescent lamps and ballasts that 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, Mercury Vapor, T12/High Output Fluorescent, T12/Very High Output Fluorescent, Standard Metal Halide, or High Pressure Sodium Fixtures in interior installations. Existing Pulse Start Metal Halide installations do not qualify. Exterior installations do not qualify. All fixtures must be hardwired. Fixtures are not eligible for additional incentives under the Compact Fluorescent Fixtures and T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts categories, but may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met. To qualify for the 400 Watt and > 400 Watt categories, fixtures must be installed at a height over 12' above the finished floor.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L895</b> >400 Watt lamp basecase, up to 600 Watt replacement fixture          | <b>\$125.00/Fixture</b>       |
| <b>L292</b> 400 Watt lamp basecase, up to 244 Watt replacement fixture (Tier 1)  | <b>\$100.00/Fixture</b>       |
| <b>L896</b> 400 Watt lamp basecase, 245 to 360 Watt replacement fixture (Tier 2) | <b>\$75.00/Fixture</b>        |

|  |                        |
|--|------------------------|
| <b>L956</b> 176-399 Watt lamp basecase, up to 192 Watt replacement fixture | <b>\$75.00/Fixture</b> |
| <b>L955</b> 101-175 Watt lamp basecase, up to 128 Watt replacement fixture | <b>\$50.00/Fixture</b> |
| <b>L954</b> ≤100 Watt lamp basecase, up to 64 Watt replacement fixture     | <b>\$35.00/Fixture</b> |

## COMPACT FLUORESCENT FIXTURES

Only complete new Compact Fluorescent fixtures qualify. New fixtures must not exceed the maximum Wattage listed in the incentive table below for each range of lamp Wattage being replaced and must have a lower Wattage than the fixture being replaced.\* Fixtures must be equipped with Compact Fluorescent Lamps and electronic ballasts. CFL ballasts must be Programmed-start or Programmed Rapid-start with a Power Factor (PF) of ≥0.90 and Total Harmonic Distortion (THD) of < 20%. New fixtures must replace, one for one, existing Incandescent, Mercury Vapor, T12/High Output Fluorescent, T12/Very High Output Fluorescent, Standard Metal Halide, or High Pressure Sodium Fixtures in interior installations. Exterior installations qualify for existing lamps ≤100 Watts only. Existing Pulse Start Metal Halide installations do not qualify. All fixtures must be hardwired. Fixtures are not eligible for additional incentives under the Interior Linear Fluorescent Fixtures and T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts categories, but may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met. To qualify for the ≥400 Watt category, fixtures must be installed at a height over 12' above the finished floor.

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>L965</b> Interior ≥400 Watt lamp basecase, up to 390 Watt replacement fixture    | <b>\$45.00/Fixture</b>        |
| <b>L964</b> Interior 176-399 Watt lamp basecase, up to 275 Watt replacement fixture | <b>\$20.00/Fixture</b>        |
| <b>L963</b> Interior 101-175 Watt lamp basecase, up to 160 Watt replacement fixture | <b>\$20.00/Fixture</b>        |
| <b>L962</b> Interior ≤100 Watt lamp basecase, up to 70 Watt replacement fixture     | <b>\$17.00/Fixture</b>        |
| <b>LA00</b> Exterior ≤100 Watt lamp basecase, up to 70 Watt replacement fixture     | <b>\$17.00/Fixture</b>        |

**\*Please Note:** In all cases, the Wattage of the replacement fixture must be less than the Wattage of the existing lamp. The maximum replacement Wattage listed in the table for each category is typically associated with the highest Wattage in the basecase range.

## INTERIOR PULSE-START METAL HALIDE FIXTURES

Complete new Pulse Start Metal Halide Fixtures or Retrofit Kits qualify as replacements. Retrofit kits may be used on existing Mercury Vapor, Standard Metal Halide or High Pressure Sodium Fixtures only. New fixtures or retrofit kits must not exceed the maximum Wattage listed in the incentive table below for each range of lamp Wattage being replaced and must have a lower Wattage than the fixture or lamp being replaced.\* Replacements must be equipped with Pulse Start Metal Halide lamps and either magnetic or electronic ballasts. Lamp Wattages below 175 Watts do not qualify under this category. New fixtures must replace, one for one, existing Incandescent, Mercury Vapor, T12/High Output Fluorescent, T12/Very High Output Fluorescent, Standard Metal Halide, or High Pressure Sodium Fixtures in interior installations. Exterior installations do not qualify. All replacements must be hardwired. Fixtures may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met. To qualify for the 400 Watt and > 400 Watt categories, fixtures must be installed at a height over 12' above the finished floor.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L969</b> >400 Watt lamp basecase, up to 820 Watt replacement fixture (Tier 1)     | <b>\$100.00/Fixture</b>       |
| <b>L971</b> >400 Watt lamp basecase, up to 821-950 Watt replacement fixture (Tier 2) | <b>\$50.00/Fixture</b>        |
| <b>L968</b> 400 Watt lamp basecase, up to 400 Watt replacement fixture               | <b>\$45.00/Fixture</b>        |
| <b>L967</b> 176-399 Watt lamp basecase, up to 275 Watt replacement fixture           | <b>\$40.00/Fixture</b>        |
| <b>L966</b> 175 Watt lamp basecase, up to 190 Watt replacement fixture               | <b>\$10.00/Fixture</b>        |

## EXTERIOR PULSE-START METAL HALIDE FIXTURES

Complete new Pulse Start Metal Halide Fixtures or Retrofit Kits qualify as replacements. All installations for this measure are for exterior applications only. Interior installations do not qualify. New fixtures must replace, one-for-one, existing Incandescent, Mercury Vapor, T12/High Output Fluorescent, T12/Very High Output Fluorescent, Standard Metal Halide, or High Pressure Sodium Fixtures. Retrofit kits may be used on existing Mercury Vapor, Standard Metal Halide, or High Pressure Sodium Fixtures only. New fixtures or retrofit kits must not exceed the maximum Wattage listed in the incentive table below for each range of lamp Wattage being replaced and must have a lower Wattage than the fixture or lamp being replaced.\* Replacements must be equipped with Pulse Start Metal Halide lamps and either magnetic or electronic ballasts. Lamp Wattages below 175 Watts do not qualify under this category. All replacements must be hardwired. To qualify for the 400 Watt and > 400 Watt categories, fixtures must be installed at a height of over 12' above the finished floor.

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>L975</b> >400 Watt lamp basecase, up to 820 Watt replacement fixture (Tier 1)  | <b>\$100.00/Fixture</b>       |
| <b>L976</b> >400 Watt lamp basecase, 821 to 950 Watt replacement fixture (Tier 2) | <b>\$50.00/Fixture</b>        |
| <b>L974</b> 400 Watt lamp basecase, up to 400 Watt replacement fixture            | <b>\$45.00/Fixture</b>        |
| <b>L973</b> 176-399 Watt lamp basecase, up to 275 Watt replacement fixture        | <b>\$40.00/Fixture</b>        |
| <b>L972</b> 175 Watt lamp basecase, up to 190 Watt replacement fixture            | <b>\$10.00/Fixture</b>        |

## INTERIOR INDUCTION FIXTURES

Only complete new Induction fixtures qualify. New fixtures must not exceed the maximum Wattage listed in the incentive table below for each range of lamp Wattage being replaced and must have a lower Wattage than the fixture being replaced.\* Fixtures must be equipped with Induction lamps and drivers. New fixtures must replace, one-for-one, existing Incandescent, Mercury Vapor, T12/High Output Fluorescent, T12/Very High Output Fluorescent, Standard Metal Halide, or High Pressure Sodium fixtures in interior installations. Existing Pulse Start Metal Halide installations do not qualify. Exterior installations do not qualify. All fixtures must be hardwired. Fixtures may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met. To qualify for the 400 Watt category, fixtures must be installed at a height over 12' above the finished floor.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L961</b> 400 Watt lamp basecase, up to 360 Watt replacement fixture     | <b>\$100.00/Fixture</b>       |
| <b>L959</b> 176-399 Watt lamp basecase, up to 180 Watt replacement fixture | <b>\$75.00/Fixture</b>        |
| <b>L958</b> 101-175 Watt lamp basecase, up to 160 Watt replacement fixture | <b>\$35.00/Fixture</b>        |
| <b>L957</b> 100 Watt lamp basecase, up to 95 Watt replacement fixture      | <b>\$35.00/Fixture</b>        |

## BI-LEVEL STAIRWELL/HALL/GARAGE FIXTURES

Eligible units shall be hardwired fluorescent fixtures with electronic ballasts and manufacturer integrated occupancy sensors. All lamps shall be pin-based. Each unit shall contain a passive infrared and/or ultrasonic occupancy sensor that controls the individual fixture. Fixtures controlled by "manual on" overrides are not eligible. During occupied periods the fixture shall operate at full output, and during unoccupied periods the fixture shall operate at reduced light output and Wattage. This measure is not eligible for additional incentives under the Occupancy Sensor category.

| <b>Product Code</b>                                 | <b>Incentive/Unit Measure</b> |
|---|-------------------------------|
| <b>L733</b> Bi-Level Stairwell/Hall/Garage Fixtures | <b>\$25.00/Fixture</b>        |

**L A M P S****T8 OR T5 LINEAR FLUORESCENT LAMPS WITH ELECTRONIC BALLASTS**

Incentive applies to existing T12 lamps and 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 Power Factor (PF) of  $\geq 0.90$ . At full light output, ballasts for 4-foot and 8-foot lamps must have Total Harmonic Distortion (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. Customers installing T5 lamps for direct lighting in low ceilings should consult a lighting professional to address the possibility of excessive glare. T8 and T5 replacement lamps must meet the Color Rendering Index (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 and occupancy sensors are not in use, Instant Start ballasts must be used. When occupancy sensors are installed to control circuits in lamp/ballast retrofits, Programmed Start or Programmed Rapid-start ballasts are recommended in order to maximize lamp life. Occupancy sensor incentives are allowed with linear fluorescent lighting retrofits, but must meet the requirements of the Occupancy Sensor category. Replacement lamps and ballasts incentivized in this category are not eligible for incentives under the Interior Linear Fluorescent Fixtures category.

**Lamp and Ballast Requirements**

| Lamp Type & Size      | Ballast Type                               | CRI       | Minimum Rated Lamp Life (3 hrs/start) |
|-----------------------|--|-----------|---------------------------------------|
| T8 – 2-ft, 3-ft, 4-ft | Programmed Start or Programmed Rapid-start | $\geq 80$ | 24,000 hours                          |
| T8 – All sizes        | Instant Start                              | $\geq 80$ | 18,000 hours                          |
| T5 – All sizes        | Programmed Start or Programmed Rapid-start | $\geq 82$ | 20,000 hours                          |

A de-lamping incentive may also apply. De-lamping is the permanent removal of existing T12 lamps/ballasts and unused lampholders (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.

**Installed****Product Code****L170** 2-ft lamp/installed**L171** 3-ft lamp/installed**L290** 4-ft lamp/installed**L299** 8-ft lamp/installed**Incentive/Unit Measure****\$3.50/Lamp****\$4.25/Lamp****\$4.25/Lamp****\$7.50/Lamp****Delamped****Product Code****L17** 2-ft lamp/removed**L18** 3-ft lamp/removed**L19** 4-ft lamp/removed**L20** 8-ft lamp/removed**Incentive/Unit Measure****\$4.00/Lamp****\$4.00/Lamp****\$6.00/Lamp****\$9.00/Lamp**

**COLD CATHODE LAMPS**

Must replace incandescent lamps of at least 10 Watts. Cold cathode lamps must range from 2 Watts to 8 Watts and may be medium (Edison) or candelabra base. Product must be rated for at least 18,000 average life hours.

| <b>Product Code</b>            | <b>Incentive/Unit Measure</b> |
|--------------------------------|-------------------------------|
| <b>L734</b> Cold Cathode Lamps | <b>\$2.00/lamp</b>            |

**ACCENT/DIRECTIONAL LIGHTING**

Must replace existing reflector-type incandescent, PAR halogen, or PAR halogen IR lamps or fixtures. Accent lighting, flood lighting, or down lighting in interior installations qualify.

**INTEGRATED BALLAST CERAMIC METAL HALIDE PAR LAMPS**

Only 25 Watt integrated ballast ceramic metal halide PAR lamps with a rated lamp life of 10,500 hours or greater are eligible. Customers are responsible for determining if the lamp will fit in their existing equipment and for verifying compatibility with existing lighting controls.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L984</b> Integrated Ballast CMH PAR Lamps | <b>\$12.50/Lamp</b>           |

**CERAMIC METAL HALIDE DIRECTIONAL LIGHTING FIXTURES**

Only Ceramic Metal Halide directional light fixtures with a nominal lamp Wattage of 39 Watts or lower qualify. Customers are responsible for verifying compatibility with existing lighting controls.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L982</b> Ceramic Metal Halide Directional Lighting Fixtures | <b>\$45.00/Fixture</b>        |

**SCREW-IN COMPACT FLUORESCENT 14 - 28 WATTS, REFLECTOR LAMPS**

Screw-in compact fluorescent reflector lamps with integrated ballasts must be listed as ENERGY STAR® qualified. Screw-in induction reflector lamps also qualify if it can be demonstrated that lamp performance is equivalent to ENERGY STAR®.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L985</b> Screw-in Compact Fluorescent, 14 - 28 Watts, Reflector Lamps | <b>\$5.00/Lamp</b>            |

**S I G N A G E****HIGH EFFICIENCY EXIT SIGNS**

Only new Light Emitting Diode (LED), Electroluminescent, or Photoluminescent exit signs that replace incandescent or compact fluorescent lamps (CFL) qualify. All new exit signs must meet UL-924 requirements. Exit signs must have a usage level  $\leq 5$  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 incentive form. New exit signs must meet local fire codes. Retrofit kits are not eligible.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>LA01</b> Exit Sign, Incandescent basecase | <b>\$27.00/Fixture</b>        |
| <b>LA02</b> Exit Sign, CFL basecase          | <b>\$15.00/Fixture</b>        |

## 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. 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.

| <b>Product Code</b>                          | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L282</b> Indoor $\leq$ 2 ft. Retrofit     | <b>\$4.00/Foot</b>            |
| <b>L286</b> Indoor $\leq$ 2 ft. Replacement  | <b>\$4.00/Foot</b>            |
| <b>L284</b> Outdoor $\leq$ 2 ft. Retrofit    | <b>\$2.00/Foot</b>            |
| <b>L288</b> Outdoor $\leq$ 2 ft. Replacement | <b>\$2.00/Foot</b>            |
| <b>L283</b> Indoor > 2 ft. Retrofit          | <b>\$6.00/Foot</b>            |
| <b>L287</b> Indoor > 2 ft. Replacement       | <b>\$6.00/Foot</b>            |
| <b>L285</b> Outdoor > 2 ft. Retrofit         | <b>\$3.00/Foot</b>            |
| <b>L289</b> Outdoor > 2 ft. Replacement      | <b>\$3.00/Foot</b>            |

## CONTROLS

### OCCUPANCY SENSORS

This incentive 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. Fixture-integrated sensors are defined as units that are factory-installed in a lighting fixture and used in interior installations and must control all lamps in the fixture. New fixtures equipped with fixture-integrated sensors used in stairwells, halls, or garages may qualify under the Bi-level Stairwell/Hall/Garage Fixtures category. Wattage controlled requirements are listed in the table below where applicable. For fluorescent lamps, programmed rapid start ballasts are generally recommended for use with occupancy sensors. Customers shall ensure that the appropriate ballast is in use for the installation.

| <b>Product Code</b>  | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>L82</b> Wall-box  | <b>\$16.50/Sensor</b>         |
| <b>L859</b> Wall- or Ceiling-Mounted < 500                   | <b>\$20.00/Sensor</b>         |
| <b>L860</b> Wall- or Ceiling-Mounted $\geq$ 500 Watts        | <b>\$44.00/Sensor</b>         |
| <b>L861</b> Fixture-Integrated in Installations Over 12'     | <b>\$20.00/Sensor</b>         |
| <b>L978</b> Fixture-Integrated in Installations 12' or Under | <b>\$7.00/Sensor</b>          |

### PHOTOCELLS

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

| <b>Product Code</b>   | <b>Incentive/Unit Measure</b> |
|-----------------------|-------------------------------|
| <b>L36</b> Photocells | <b>\$7.00/Photocell</b>       |

### TIME CLOCKS

Time clocks must control lighting equipment. All units must feature a 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.

| <b>Product Code</b>    | <b>Incentive/Unit Measure</b> |
|------------------------|-------------------------------|
| <b>L31</b> Time Clocks | <b>\$36.00/Time Clock</b>     |

## PLUG LOAD OCCUPANCY SENSORS

This incentive applies to passive infrared and/or ultrasonic detectors only. Plug-load sensors must control electricity using equipment in offices or cubicles, including shared copiers and /or printers.

| <b>Product Code</b>                   | <b>Incentive/Unit Measure</b> |
|---------------------------------------|-------------------------------|
| <b>L65</b> Plug Load Occupancy Sensor | <b>\$15.00/Sensor</b>         |

## DEFINITIONS

**Basecase** – Refers to the existing lighting equipment, prior to retrofitting, based on lamp (bulb) Wattage

**Replacement Fixture** – Refers to new equipment being installed based on system (lamp and ballast) Wattage

**Electroluminescent Exit Sign** – Exit sign using materials containing phosphors that light up when voltage is applied

**Photoluminescent Exit Sign** – Non-electrified exit sign containing materials that absorb and reradiate light

## Refrigeration

- Medium temperature refers to refrigerated space temperatures between 1° F and 35° F
- Low temperature refers to refrigerated space temperatures below 0° F

## 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 New Refrigeration Display Case with Doors measures. Incentive is based on the total linear footage of the case.

| <b>Product Code</b>                        | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>R7</b> Anti-Sweat Heater (ASH) Controls | <b>\$14.00/Linear Foot</b>    |

## AUTO-CLOSERS FOR MAIN COOLER OR MAIN FREEZER DOORS

The auto-closer should 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.

| <b>Product Code</b>                            | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>R79</b> Auto-Closers for Main Cooler Doors  | <b>\$40.00/Closer</b>         |
| <b>R80</b> Auto-Closers for Main Freezer Doors | <b>\$50.00/Closer</b>         |

## AUTO-CLOSERS FOR REACH-IN COOLER OR FREEZER DOORS

The auto-closer device should be applied to the glass reach-in door of a walk-in 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.

| <b>Product Code</b>                                | <b>Incentive/Unit Measure</b> |
|--|-------------------------------|
| <b>R92</b> Auto-Closers for Reach-In Cooler Doors  | <b>\$40.00/Closer</b>         |
| <b>R93</b> Auto-Closers for Reach-In Freezer Doors | <b>\$50.00/Closer</b>         |

### **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. Incentive is based on total door perimeter in linear feet.

**Product Code**

**R89** Door Gaskets on Glass Doors

**Incentive/Unit Measure**

**\$4.00/Linear Foot**

### **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. Incentive is based on total door perimeter in linear feet.

**Product Code**

**R50** Door Gaskets on Solid Doors

**Incentive/Unit Measure**

**\$4.00/Linear Foot**

### **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. This measure cannot be used in conjunction with the Evaporator Fan Controller measure.

**Product Code**

**R76** Efficient Evaporator Fan Motor – ECM

**R9** Efficient Evaporator Fan Motor – PSC

**Incentive/Unit Measure**

**\$20.00/Motor**

**\$20.00/Motor**

### **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 5)evaporator does not use off-cycle or time-off defrost.

**Product Code**

**R53** Evaporator Fan Controller for Walk-In Coolers

**Incentive/Unit Measure**

**\$75.00/Controller**

### **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 nitrile 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. Incentive is based on the length, in linear feet, of the insulation installed.

**Product Code**

**R11** Insulation for Bare Suction Lines

**Incentive/Unit Measure**

**\$1.00/Linear Foot**

## **NEW HIGH EFFICIENCY REFRIGERATION DISPLAY CASES WITH SPECIAL DOORS (LOW TEMP)**

A new high efficiency reach-in display case must replace an existing low temperature self-contained or remote reach-in as shown below. This measure cannot be used in conjunction with the Anti-Sweat Heater measure.

### **Existing**

T-12 lamps, magnetic ballast  
Shaded-pole fan motor  
Standard glass doors

### **Replacement**

T-8 lamps, electronic ballast  
ECM fan motor  
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.

### **Product Code**

**R87** New High Efficiency Refrigeration Display Cases with Special Doors (Low Temperature)

### **Incentive/Unit Measure**

**\$200.00/Linear Foot**

## **NEW REFRIGERATION DISPLAY CASE WITH DOORS**

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 ballast. This measure can be applied to self-contained or remote cases. New display cases are incentivized based on their length. New case length must be equal to or shorter than original case.

### **Product Code**

**R4** New Refrigeration Display Case with Doors (Low Temperature Case) **\$200.00/Linear Foot**  
**R5** New Refrigeration Display Case with Doors (Medium Temperature Case) **\$150.00/Linear Foot**

### **Incentive/Unit Measure**

## **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 incentive 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. 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.

### **Product Code**

**R1** Night Covers for Display Cases (Low Temperature Case)  
**R74** Night Covers for Display Cases (Medium Temperature Case)

### **Incentive/Unit Measure**

**\$9.00/Linear Foot**  
**\$9.00/Linear Foot**

### **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. Incentive is based on number of doors replaced. This measure cannot be used in conjunction with the Anti-Sweat Heater Controls measure.

**Product Code**

**Incentive/Unit Measure**

**R6** Special Doors with Low/No Anti-Sweat Heat on Low Temperature Display Cases **\$50.00/Door**

### **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 incentive is not available for replacement of existing strip curtains that have useful life left. Incentive is based on the square footage of the doorway.

**Product Code**

**Incentive/Unit Measure**

**R2** Strip Curtains for Walk-In Boxes

**\$3.00/Square Foot**

### **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.*

**Product Code**

**Incentive/Unit Measure**

**R86** Vending Machine Controller

**\$90.00/Controller**