

HVAC AND LIGHTING CONTROL WORKFORCE STANDARD QUALIFICATION REQUIREMENTS*

As required by the CPUC, to be eligible to receive an energy efficiency (EE) incentive for non-residential heating, ventilation, and air conditioning (HVAC) measure exceeding \$3000 and/or for lighting control (LC) measure exceeding \$2000, *prior to* these measures being installed, modified or maintained, each worker and/or technician performing such will be required to provide a copy of their applicable qualification documentation as follows:

- a) **HVAC Measure Installation Qualification.** at least one of the following criteria: (a) Completed an accredited HVAC apprenticeship. (b) Is enrolled in an accredited HVAC apprenticeship. (c) Completed at least five years of work experience at the journey level according to the Department of Industrial Relations definition, Title 8, Section 205, of the California Code of Regulations, passed a practical and written HVAC system installation competency test, and received credentialed training specific to the installation of the technology being installed. (d) Has a C-20 HVAC contractor license issued by the California Contractor's State Licensing Board.

- b) **Lighting Control Measure Qualification.** A certification from the California Advanced Lighting Controls Training Program.

*Effective July 1, 2019 for all non-residential projects implementing HVAC and lighting control measures.

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REFRIGERATION

1. Open case to New Reach-in – Low or Medium Temperature

Measure Code	Measure Name	Rebate/Unit
R4	Low Temperature Reach-in Display Case	\$175/ln ft
R5	Medium Temperature Reach-in Display Case	\$75/ln ft

Requirements:

- Must replace an existing, open multi-deck display case with a new reach-in unit with doors, Electronically Commutated Motor (ECM) evaporator fan(s), and LED lighting.
- Medium temperature cases must have no heat in the door. Heat is allowed in the frames of medium temperature cases. Low temperature door and frame heaters combined may not consume more than 50 W/ft of case length.
- New case length must be less than or equal to the original case length.
- This measure is only for cases served by a remote refrigeration system.
- Rebate is based on linear footage of new display case.

Exclusions:

- Specialty deli cases, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify. Refurbished cases are excluded unless compliant with 2012 Federal Efficiency Standards.

2. Low Temp Coffin to New High Efficiency Reach-In

Measure Code	Measure Name	Rebate/Unit
RA06	LT Coffin to Reach-in	\$30/ln ft

Requirements:

The measure is applicable to any coffin base case that is less than or equal to code:

- If the display width is less than 3 feet, the coffins must be replaced by RI cases that are 1/4 the total length of the coffins or less.
- If the display width is greater than 3 feet, the coffins must be replaced by RI cases that are 1/3 the total length of the coffins or less.
- The replacement case must use triple pane doors with low/no anti-sweat heat or anti-sweat heat controls.
 - Low/no anti-sweat heat: Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.925 amps per door.

Additional details:

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

3. Low Temperature Reach-in to High Efficiency Reach-in

Measure Code	Measure Name	Rebate/Unit
R87	LT Reach-in to High Efficiency Reach-in	\$75/ln ft

Requirements:

- Must replace an existing low temperature self-contained or remote reach-in case with a new high-efficiency remote reach-in case as described in the table below.
- New case length must be equal to, or shorter than, the original case.
- This measure is for remote cases only.
- Rebate is based on linear footage of new display case.

Existing	Replacement
T12 lamps, magnetic ballast	T8 lamps, electronic ballast
Shaded-pole fan motor	ECM fan
Standard glass door	Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.925 amps per door.

Exclusions:

- Cannot be used in conjunction with the “Anti-Sweat Heater (ASH) Controls” rebate.
- Deli cases, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify.

Additional details:

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

4. Medium Temp Open Case to High Efficiency Open Case

Measure Code	Measure Name	Rebate/Unit
RA02	Open MT to High Efficiency Open	\$10/ln ft

Requirements:

- Must replace an existing medium temperature open vertical refrigerated display case with a new case of the same style that exceeds federal energy standards through the use of a high efficiency evaporator coil.
- The temperature differential (TD) between the rated evaporator temperature and rated discharge air temperature of the replacement case must be 5°F or less.

Additional details:

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

5. Add Doors to Medium Temp Open Walk-in Cooler

Measure Code	Measure Name	Rebate/Unit
HB30	Add Doors to open walk-in, Energy Efficient Fans Baseline	\$75/ln ft
R160	Add Doors to open walk-in, Standard Fan Baseline	\$75/ln ft

Requirements:

- Must replace existing medium temperature open walk-in reach-in refrigerated display case equipped with T8 or less efficient lighting with a medium temperature reach-in door.
- Existing case evaporator coils, fans, and lighting must be removed.
- New reach-in door must have T8 or more efficient lighting and frame heaters, but no anti-sweat heaters.

6. Add Doors to Open Medium Temperature Cases

Measure Code	Measure Name	Rebate/Unit
RA01	Add Doors to Open MT Cases	\$30/ln ft
HA09	Add Doors to Open MT Cases, w/ Night Covers Baseline	\$30/ln ft

Requirements:

- Must add glass doors to an existing open vertical medium temp display case.

Exclusions:

- Total lighting power in the case after the retrofit may not exceed total lighting power in the existing case.
- No anti-sweat heat may be present in the glass doors or door mounting.

Additional Details:

- Rebate paid based on linear feet of door installed.

7. Anti-Sweat Heater (ASH) Controls

Measure Code	Measure Name	Rebate/Unit
R7	ASH Controls- Medium Temp	\$25/ln ft
HB31	ASH Controls- Low Temp	\$25/ln ft

Requirements:

- Must sense the relative humidity in the air surrounding the display case and reduce or turn off the anti-sweat heaters of the glass door (if applicable) and door frame during periods of low humidity.
- Equivalent technologies that reduce or turn off anti-sweat heaters depending on the level of condensation on the inner glass pane may qualify.
- Rebate is based on linear footage of the case.

Exclusions:

- Cannot be used in conjunction with the "Reach-in Low Temp to High Efficiency Reach -In" rebate.

8. ECMs for Cases

Measure Code	Measure Name	Rebate/Unit
R76	ECMs for Cases	\$20/motor

Requirements:

- The existing motor must be a shaded-pole motor in fan coil systems in refrigerated display cases.
- Shaded-pole motors must be replaced by Electronically Commutated Motors (ECM).

9. High Efficiency Multiplex Compressor System

Measure Code	Measure Name	Rebate/Unit
R107	Air-Cooled Multiplex	\$75/ton
RF001	Air-Cooled Multiplex – Early Retirement	\$275/ton
R108	Evap-Cooled Multiplex	\$150/ton
RF002	Evap-Cooled Multiplex – Early Retirement	\$500/ton

NOTE: Rebate subject to an engineering review to verify conformity with terms and conditions.

Requirements:

- Must replace stand-alone single compressor system with a high-efficiency multiplex compressor system.
- Must include floating head pressure control to a minimum 70 F set point. Air-cooled condensers must use fan cycling or variable speed fans. Evaporative-cooled condensers must use two-speed or variable-speed fans.
- Only the suction groups that are mechanically subcooled to 50 F will be eligible for rebate

Exclusion:

- An additional rebate cannot be claimed for floating head pressure control

Additional Details:

- Send completed rebate design checklist form and refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

10. Floating Head Pressure Controller

Measure Code	Measure Name	Rebate/Unit
R116	Floating Head Pressure Controller – Air Cooled	\$25/hp
R123	Floating Head Pressure Controller – Evap Cooled	\$25/hp

Requirements:

- Existing multiplex refrigeration system must have a fixed saturated condensing temperature (SCT) setpoint
- The new SCT setpoint must be controlled by an ambient following strategy by controlling condenser fans with variable- speed drives or by staging condenser fans.
- For air-cooled condensers, the SCT setpoint must be controlled to follow ambient + 12°F TD or less.
- For evaporative cooled condensers, the SCT setpoint must be controlled to follow ambient wetbulb + 17°F TD or less.
- If back-flood controls are present, the setpoint must be 68°F or less.
- The minimum SCT setpoint must be set to 70°F or less.
- Compressor HP units must be based on connected display cases, walk-in coolers and freezers, and prep areas only.

Exclusions:

- New construction installations or any retrofits that trigger the requirement to install floating refrigeration controls.
- Subcooler loads and air conditioning loads are not eligible for incentives.

Additional Details:

- To qualify for rebate, new hardware must be installed. Projects that only reprogram a controller are not eligible for this rebate.

11. Floating Suction Pressure Controller

Measure Code	Measure Name	Rebate/Unit
R119	Floating Suction Pressure Controller	\$5/hp

Requirements:

- Existing multiplex refrigeration system must operate with fixed suction setpoints.
- The controls must allow the suction pressure to rise to the highest point that can still maintain setpoint temperatures at the critical case on the suction circuit during periods of low fixture loads.
- Compressor HP units must be based on connected display cases, walk-in coolers and freezers, and prep areas only.

Exclusions:

- New construction installations or any retrofits that trigger the requirement to install floating refrigeration controls.
- Floating suction pressure controls on refrigeration systems with variable speed evaporator fans.
- Subcooler loads and air conditioning loads are not eligible for incentives.

Additional Details:

- To qualify for rebate, new hardware must be installed. Projects that only reprogram a controller are not eligible for this rebate.

12. Floating Head Pressure on Singles

Measure Code	Measure Name	Rebate/Unit
R320-321	Floating Head Pressure on Singles- Condensing Unit	\$100/hp
R322-323	Floating Head Pressure on Singles- Remote Condenser	\$60/hp

Requirements:

- This measure is applicable only to refrigeration systems having: A single compressor with a 1 HP motor or larger serving a suction group, either in a condensing unit or with a remote condenser, condenser intake air from outside ambient air, and a fixed head pressure control valve.
- Pre-inspection is required.
- Must replace a fixed head pressure control valve with an adjustable head pressure control valve (flood- back control valve) to lower the minimum condensing head pressure.
- The adjustable valve must be set to a pressure equivalent of 70° F saturated temperature or lower and verified with a calibrated pressure gauge or transducer.
- Must install either:
 - A balanced-port valve or electronic expansion valve sized to meet the load requirement at a 70° F condensing temperature.
 - A device to supplement refrigerant feed to each evaporator attached to the condenser.

Additional Details:

- Rebate is based on a “per compressor motor nameplate HP” basis.
- Documentation of field adjustments made to the installed valve should be provided by the contractor establishing the set points stated above.

STORE LIGHTING

1. LED High Bay and Low Bay Fixtures

Tier 1 – DLC Standard Classification

Measure Code	Measure Description	Rebate/Unit	Measure Expires:
LT376	110 LPW to <130 LPW, 0 to <48W	\$12/fixture	8/11/2019
LT377	110 LPW to <130 LPW, 48 to <71W	\$15/fixture	8/11/2019
LT378	110 LPW to <130 LPW, 71 to <90W	\$18/fixture	8/11/2019
LT379	120 LPW to <130 LPW, 90 to <125W	\$21/fixture	8/11/2019
LT380	120 LPW to <130 LPW, 125 to <153W	\$24/fixture	8/11/2019
LT381	125 LPW to <130 LPW, 153 to <187W	\$27/fixture	8/11/2019
LT382	125 LPW to <135 LPW, 187 to <212 W	\$30/fixture	8/11/2019
LT383	125 LPW to <135 LPW, 212 to <246 W	\$33/fixture	8/11/2019
LT384	125 LPW to <135 LPW, 246 to <283 W	\$36/fixture	8/11/2019

Tier 2 – DLC Premium Classification

Measure Code	Measure Description	Rebate/Unit	Measure Expires:
LT385	≥130 LPW, 0 to <42 W	\$20/fixture	8/11/2019
LT386	≥130 LPW, 42 to <60 W	\$25/fixture	8/11/2019
LT387	≥130 LPW, 60 to <82 W	\$30/fixture	8/11/2019
LT388	≥130 LPW, 82 to <113 W	\$35/fixture	8/11/2019
LT389	≥130 LPW, 113 to <140 W	\$40/fixture	8/11/2019
LT390	≥135 LPW, 140 to <174 W	\$45/fixture	8/11/2019
LT391	≥135 LPW, 174 to <194 W	\$50/fixture	8/11/2019
LT392	≥135 LPW, 194 to <227 W	\$55/fixture	8/11/2019
LT393	≥135 LPW, 227 to <262 W	\$60/fixture	8/11/2019

Requirements:

- Only interior installations of LED fixtures or retrofit kits on the list of prequalified LED fixtures, available at www.designlights.org/search/ in the following DLC product categories, qualify for this rebate:
 - High-bay Luminaires (fixtures and retrofit kits)
 - Low-bay Luminaires (fixtures and retrofit kits)
 - High-bay Aisle Luminaires (fixtures)
- Customer selects the measure code based on the wattage of the replacement fixture.

Exclusions:

- Self-ballasted, screw-based lamps or pin-based lamps and LED tube-style lamps do not qualify.
- Products not listed in the high-bay or low-bay categories above, including LED troffers, troffer retrofit kits, linear LED retrofit kits, lamp style retrofit kits, linear ambient luminaires, or any lighting products classified in the outdoor/exterior categories, do not qualify for this rebate.
- Horticultural installations do not qualify for this rebate.
- Exterior installations do not qualify for this rebate.

Exclusions:

- Measure codes and rebates are defined by and set according to efficacy and wattage and grouped as follows:
 - Tier 1 measures: Products must meet or exceed DLC Standard classification
 - Tier 2 measures: Products must meet or exceed DLC Premium classification

2. LED Outdoor Area Lighting

Outdoor Pole/Arm-Mounted Area Lighting

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT297	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 30 - 45 W Fixture	\$30/lamp	8/11/2019
LT298	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 46 - 68 W Fixture	\$35/lamp	8/11/2019
LT299	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 69 - 90 W Fixture	\$40/lamp	8/11/2019
LT300	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 91 - 107 W Fixture	\$45/lamp	8/11/2019
LT301	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 108 - 146 W Fixture	\$55/lamp	8/11/2019
LT302	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 147 - 235 W Fixture	\$60/lamp	8/11/2019
LT303	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 236 - 390 W Fixture	\$65/lamp	8/11/2019
LT304	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 391 - 571 W Fixture	\$70/lamp	8/11/2019

LED Outdoor Parking Garage Lighting

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT305	LED Outdoor Parking Garage Lighting: Install 0 - 38 Watts Fixture	\$15/lamp	8/11/2019
LT306	LED Outdoor Parking Garage Lighting: Install 39 - 56 Watts Fixture	\$20/lamp	8/11/2019
LT307	LED Outdoor Parking Garage Lighting: Install 57 - 88 Watts Fixture	\$25/lamp	8/11/2019
LT308	LED Outdoor Parking Garage Lighting: Install 89 - 113 Watts Fixture	\$30/lamp	8/11/2019

LED Outdoor Wall-Mounted Area Lighting

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT309	LED Outdoor Wall-Mounted Area Lighting: Install 0 - 25 Watts Fixture	\$25/lamp	8/11/2019
LT310	LED Outdoor Wall-Mounted Area Lighting: Install 26 - 39 Watts Fixture	\$30/lamp	8/11/2019
LT311	LED Outdoor Wall-Mounted Area Lighting: Install 40 - 58 Watts Fixture	\$35/lamp	8/11/2019
LT312	LED Outdoor Wall-Mounted Area Lighting: Install 59 - 78 Watts Fixture	\$40/lamp	8/11/2019
LT313	LED Outdoor Wall-Mounted Area Lighting: Install 79 - 97 Watts Fixture	\$45/lamp	8/11/2019
LT314	LED Outdoor Wall-Mounted Area Lighting: Install 98 - 126 Watts Fixture	\$60/lamp	8/11/2019
LT315	LED Outdoor Wall-Mounted Area Lighting: Install 127 - 203 Watts Fixture	\$70/lamp	8/11/2019
LT316	LED Outdoor Wall-Mounted Area Lighting: Install 204 - 337 Watts Fixture	\$90/lamp	8/11/2019
LT317	LED Outdoor Wall-Mounted Area Lighting: Install 338 - 493 Watts Fixture	\$105/lamp	8/11/2019

LED Outdoor Fuel Pump Canopy Lighting

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT318	LED Outdoor Fuel Pump Canopy Lighting: Install 0 - 19 Watts Fixture	\$15/lamp	8/11/2019
LT319	LED Outdoor Fuel Pump Canopy Lighting: Install 20 - 29 Watts Fixture	\$20/lamp	8/11/2019
LT320	LED Outdoor Fuel Pump Canopy Lighting: Install 30 - 46 Watts Fixture	\$25/lamp	8/11/2019
LT321	LED Outdoor Fuel Pump Canopy Lighting: Install 47 - 59 Watts Fixture	\$30/lamp	8/11/2019
LT322	LED Outdoor Fuel Pump Canopy Lighting: Install 60 - 73 Watts Fixture	\$35/lamp	8/11/2019
LT323	LED Outdoor Fuel Pump Canopy Lighting: Install 74 - 99 Watts Fixture	\$40/lamp	8/11/2019
LT324	LED Outdoor Fuel Pump Canopy Lighting: Install 100 - 153 Watts Fixture	\$45/lamp	8/11/2019

Requirements:

- Applications received must include products in the below qualifying categories and must be listed as DesignLights Consortium (DLC)-premium classification to qualify for this rebate.
- Only LED fixtures or retrofit kits on the list of prequalified LED fixtures available at www.designlights.org/search/ in the following categories qualify for this rebate:
 - Outdoor Pole/Arm-mounted Area and Roadway Luminaires (fixtures and retrofit kits)
 - Large Outdoor Pole/Arm-mounted Area and Roadway Luminaires (retrofit kits)
 - Outdoor Pole/Arm-mounted Decorative Luminaires (fixtures and retrofit kits)
 - Parking Garage Luminaires (fixtures and retrofit kits)
 - Outdoor Non/Semi/Full-cutoff Wall-mounted Area Luminaires (fixtures)
 - Outdoor Full-cutoff Wall-mounted Area Luminaires (retrofit kits)
 - Fuel Pump Canopy Luminaires (fixtures and retrofit kits)

Exclusions:

- Self-ballasted, screw-based or pin-based lamps do not qualify.
- Architectural Flood and Spot Luminaires, Landscape/Accent Flood and Spot Luminaires, and Bollards do not qualify.
- Street lighting applications for Pole/Arm-mounted Area and Roadway luminaires do not qualify for these rebates.
- Interior installations do not qualify for this rebate.

3. LED Troffers

2x4 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT148	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)	8/11/2019

2x2 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT150	≥ 125 LPW and < 140 LPW	\$4.25/kilolumen (max \$19.13/fixture)	8/11/2019

1x4 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT152	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50 /fixture)	8/11/2019

2x4 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT154	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)	8/11/2019

2x2 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT156	≥ 125 LPW and < 140 LPW	\$4.25/kilolumen (max \$19.13/fixture)	8/11/2019

1x4 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit	Measure Expires:
LT158	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)	8/11/2019

All LED Troffer and Integrated Troffer Retrofit Kit rebates are capped at 4.5 kilolumens per fixture.

Requirements:

- Applications received must include products in the below qualifying categories and must be listed as DesignLights Consortium (DLC)-premium classification to qualify for this rebate.
- Only LED troffer fixtures or integrated troffer retrofit kits on the list of prequalified LED fixtures, available at www.designlights.org/search/ in the following DLC product categories, qualify for this rebate:
 - Troffer, 2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
 - Troffer, 1x4 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
 - Troffer, 2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
 - Troffer, 2x2 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
 - Troffer, 1x4 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
 - Troffer, 2x4 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
- DLC-listed initial light output must be ≥ 2,200 lumens (lm) and ≤ 6,500 lm to qualify for this rebate.

Exclusions:

- Other fixture configurations, including LED troffer linear retrofit kits, linear ambient luminaires (direct/indirect) or external driver lamp-style retrofit kits (Underwriters Laboratories, Type C), do not qualify for this rebate. These configurations will be considered under the Customized Retrofit Program.
- Exterior or high/low-bay installations of these products do not qualify for this rebate.
- Products in the above listed categories < 2,200 lm or > 6,500 lm do not qualify for this rebate and will be considered under the Customized Retrofit Program.

Additional Details:

- Customer selects the measure code based on the efficacy in lumens per watt (LPW) of the replacement fixture.
- LED Troffer and Integrated Troffer Retrofit rebates are offered on a per kilolumen (KLM)—1,000 lumens—basis, rather than a per fixture basis. The rebate increases as the efficacy (LPW) of the fixture or kit increases.

- Efficacy is defined by LPW, or how much light is produced by one watt of energy consumed.
- A lumen is the unit of light output: kilolumen = 1,000 lumens.

How to calculate a rebate:

LED Troffer and Integrated Troffer Retrofit rebates are offered on a per kilolumen (KLM)— 1,000 lumens—basis, rather than a per fixture basis. The rebate increases as the efficacy (LPW) of the fixture or kit increases.

A lumen is the unit of light output: kilolumen = 1,000 lumens.

Efficacy is defined by LPW, or how much light is produced by one watt of energy consumed.

Use the rebate calculator available at pge.com/ledqpl to help determine your total rebate amount.

1. Search for your product using model number, product manufacturer and/or product brand. Alternatively, use the filters for rebate category, product category and/or product metrics to narrow down results and see many options.
2. Once the desired product is found, click on the measure code in the Rebate Information box to be taken to the Rebate Calculator.
3. Enter in the total number of fixtures of a given product that you wish to purchase, and the calculator will calculate the total rebate amount. Enter product and rebate information into the rebate application, as shown.

HVAC

1. VFDs for HVAC Fans

Measure Code	Measure Name	Rebate/Unit
H148	Variable Frequency Drive for HVAC Fans	\$80/hp

Requirements:

- The variable frequency drive (VFD) must be applied to existing HVAC supply, return or exhaust air fan motors.
- VFD must be applied to HVAC applications in which there is a call for varying air flow demand. Motor speed shall be controlled to automatically adapt to varying air flow demand.
- VFDs must be applied to single-speed motors.
- Any throttling devices, such as inlet vanes or bypass dampers, must be removed or permanently disabled.
- Installation must follow manufacturer's guidelines and instructions.
- Rebates are only applicable for the following building types: secondary schools, community colleges, universities, hospitals, hotels, nursing homes, large offices, multistory large retail. For building types that do not apply, rebates for Advanced Rooftop HVAC Controls may be applicable.
- Installation address must have a commercial electric account with PG&E.

Exclusions:

- Rebate is not eligible for constant fan speed applications.
- HVAC fan motors less than 3 hp or greater than 100 hp are not eligible for this rebate. For HVAC fan motors less than 3 hp, rebates for Advanced Rooftop HVAC Controls may be applicable.
- Applications where variable speed fans are required by code are not eligible for this rebate.
- Applications on cooling tower fans are not eligible for this rebate.

Additional Details:

- Place the VFD as close to the motor as possible (ideally less than 15 ft) when applying VFDs to standard duty NEMA motors. Failure to do so may result in premature motor failure.
- Maintain sufficient air flow through the motor to prevent overheating.
- Comply with the practices and requirements of ANSI/IEEE 519-2014.

2. Demand Controlled Ventilation (DCV) for Packaged HVAC Units

Requirements:

- Customer must pick correct measure code for the type of packaged HVAC unit and enter the HVAC unit's tons of AC capacity on the rebate application as "Quantity." See the HVAC unit's nameplate for cooling capacity. (1 ton AC capacity = 12,000 Btuh)
- Rebate is based on the HVAC unit's cooling capacity and is maxed at \$1,500 per ADEC, plus CO2 sensor system, or \$600 for CO2 sensor.
- Installation must follow manufacturer's requirements. Customer must also ensure that controls are installed and operate according to current applicable building and energy codes.
- Customer must install DCV on existing operational packaged HVAC unit.
- Installer and manufacturer must warrant equipment for at least two years for parts and labor. All installed equipment to be new.
- Rebate cannot be combined with ADEC or EVC rebate offers for the same HVAC unit.
- Rebate is only applicable to the following building types: assembly, education (primary/ secondary school, relocatable classrooms, universities), small office, restaurant (fast-food, sit-down), retail, manufacturing (biotech), other.
- Installation address must have a commercial electric account with PG&E.

Packaged HVAC Unit Type	Advanced Digital Economizer Controller	Demand Controlled Ventilation		Enhanced Ventilation Control		
	ADEC	+CO ₂ sensor only to existing ADEC	ADEC + CO ₂ sensor	ADEC + CO ₂ sensor + VFD	ADEC + CO ₂ sensor + VFD + NEMA Premium Motor	ADEC + CO ₂ sensor + VFD + Permanent Magnet Motor
Gas Pack	HV294	HV027	HV026	SA07	SA08	SA09
Heat Pump Unit	HV296	HV031	HV030	SA10	SA11	SA12
Air Conditioning	HV295	HV029	HV028	No rebate available		
Variable Air Volume (VAV) Unit	HV297					
Rebate/Unit Measure	\$10/ton (max \$150)	\$40/ton (max \$600)	\$100/ton (max \$1,500)	\$155/ton (max \$3,875)	\$190/ton (max \$4,750)	\$194/ton (max \$4,850)

Demand controlled ventilation and enhanced ventilation control do not have specific separate rebates for the VAV category, but VAV is an option on the other three HVAC types: gas pack, heat pump and air conditioning only. [For example, an HVAC unit can be a VAV heat pump.]

3. Enhanced Ventilation Control (EVC) for Packaged HVAC Units

Requirements:

- Customer must install EVC on existing operational packaged HVAC unit.
- Rebate cannot be combined with ADEC or DCV rebate offers for the same HVAC unit. • Rebate is only applicable to the following building types: assembly, education (primary/ secondary school, universities), small office, restaurant (fast-food, sit-down), retail, manufacturing (biotech), other.
- Installation address must have a commercial electric account with PG&E.

Exclusions:

- Variable air volume packaged HVAC units are excluded.

Demand controlled ventilation and enhanced ventilation control do not have specific separate rebates for the VAV category, but VAV is an option on the other three HVAC types: gas pack, heat pump and air conditioning only (e.g., an HVAC unit can be a VAV heat pump).

Food Service

1. Commercial Convection Oven (Electric)

Measure Code	Measure Name	Rebate/Unit
F187	Commercial Convection Oven Electric	\$350/oven

Requirements:

- Qualifying models must be listed in the California Energy Commission (CEC) database.
- Model must meet ENERGY STAR® Version 2.2 specification or have a tested heavy-load (potato) cooking energy efficiency of 71 percent or more, utilizing ASTM Standard F1496.
- Full-size electric ovens (≤ 5 pans) must have an idle rate of 1.6 kW or less.
- Large full-size (> 5 pans) must have an idle rate of 1.9 kW or less and a heavy-load cooking energy efficiency of 73 percent or more.
- Half-size electric ovens must have an idle rate of 1.0 kW or less.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

2. Commercial Convection Oven (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
F188	Commercial Convection Oven Natural Gas	\$500/oven

Requirements:

- Qualifying models must be listed in the CEC database.
- Model must meet ENERGY STAR® Version 2.2 specification or have a tested heavy-load (potato) cooking energy efficiency of 46 percent or more, utilizing ASTM Standard F1496.
- Full-size gas ovens (≤ 5 pans) must have an idle rate of 12,000 Btuh or less.
- Large full-size (> 5 pans) must have an idle rate of 13,000 Btuh or less.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

3. Commercial Combination Ovens/Steamers (Electric)

Measure Code	Measure Description	Rebate/Unit
HA16	Commercial Combination Oven/Steamer Electric (< 15 pans)	\$1,000/unit
F100	Commercial Combination Oven/Steamer Electric (15–28 pans)	\$1,000/unit
HA19	Commercial Combination Oven/Steamer Electric (> 28 pans)	\$4,000/unit

Requirements:

- Oven must have a cooking energy efficiency of 50 percent or greater in steam mode and 70 percent cooking energy efficiency or greater in convection mode, utilizing American Society for Testing and Materials (ASTM) Standard F2861.
- Oven must meet the idle energy rate requirements in the accompanying Electric Combination Ovens/Steamers Rebates table, utilizing ASTM Standard F2861.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- 2/3-size combination ovens are not eligible.
- Electric combination ovens with a pan capacity of < 5 are not eligible.
- For more information about food service, visit PG&E Food Service Technology Center at fishnick.com.

Electric Combination Ovens/Steamers Rebates

Pan Capacity	Steam Mode/Idle Energy Rate	Convection Mode/Idle Energy Rate
Less than 15 pans*	5.0 kW or less	2.0 kW or less
15-28 pans*	6.0 kW or less	2.5 kW or less
More than 28 pans*	9.0 kW or less	4.0 kW or less

*Combination oven/steamer pan capacity is based on the maximum capacity of full-size, 2½-inch deep hotel pans. This must be consistent with the number of pans used to meet the energy-efficiency qualifications for ASTM F2861.

4. Commercial Combination Ovens/Steamers (Natural Gas)

Rebate Code	Measure Description	Rebate/Unit Measure
HA48	Commercial Combination Oven/Steamer Natural Gas (< 15 pans)	\$700/unit
F101	Commercial Combination Oven/Steamer Natural Gas (15–28 pans)	\$1,000/unit
HA49	Commercial Combination Oven/Steamer Natural Gas (> 28 pans)	\$2,000/unit

Requirements:

- Oven must have a cooking energy efficiency of 38 percent or greater in steam mode and 44 percent or greater in convection mode, utilizing ASTM Standard F2861.
- Oven must meet the idle energy rate requirements in the accompanying Gas Combination Ovens/Steamers Rebates table, utilizing ASTM Standard F2861.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- 2/3-size combination ovens are not eligible.
- Gas combination ovens with a pan capacity < 6 are not eligible.

Gas Combination Ovens/Steamers Rebates

Pan Capacity	Steam Mode/Idle Energy Rate	Convection Mode/Idle Energy Rate
Less than 15 pans*	15,000 Btuh or less	8,000 Btuh or less
15–28 pans*	18,000 Btuh or less	10,000 Btuh or less
More than 28 pans*	28,000 Btuh or less	16,000 Btuh or less

*Combination oven/steamer pan capacity is based on the maximum capacity of full-size, 2½-inch deep hotel pans. This must be consistent with the number of pans used to meet the energy-efficiency qualifications for ASTM F2861.

5. Commercial Steam Cookers (Electric)

Measure Code	Measure Description	Rebate/Unit
F108	Commercial Steam Cooker Electric	\$1,250/steamer compartment

Requirements:

- Cooker must meet ENERGY STAR® Version 1.2 specification for energy efficiency or must have a tested heavy-load (potato) cooking energy efficiency of 50 percent or greater, utilizing ASTM Standard F1484.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

6. Commercial Steam Cookers (Natural Gas)

Measure Code	Measure Description	Rebate/Unit
F109	Commercial Steam Cooker Natural Gas	\$2,000/steamer compartment

Requirements:

- Cooker must meet ENERGY STAR® Version 1.2 specification for energy efficiency or must have a tested heavy-load (potato) cooking energy efficiency of 38 percent or greater, utilizing ASTM Standard F1484.
- Installation address must have a commercial gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

7. Commercial Fryer (Electric)

Measure Code	Measure Name	Rebate/Unit
F205	Commercial Fryer Electric	\$650/vat

Requirements:

- Electric fryer (vat width < 18 inches) must meet ENERGY STAR® Version 2.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 80 percent and an idle energy rate less than or equal to 1,000 watts (W), utilizing ASTM Standard F1361.
- Electric large vat fryer (vat width ≥ 18 inches) must meet ENERGY STAR Version 2.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 80 percent and an idle energy rate less than or equal to 1,100 W, utilizing ASTM Standard F2144.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

8. Commercial Fryer (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
F206	Commercial Fryer Natural Gas	\$749/vat

Requirements:

- Gas fryer (vat width < 18 inches) must meet ENERGY STAR® Version 3.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 50 percent and an idle energy rate less than or equal to 9,000 Btuh, utilizing ASTM Standard F1361.
- Gas large vat fryer (vat width ≥ 18 inches) must meet ENERGY STAR Version 3.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 50 percent and an idle energy rate less than or equal to 12,000 Btuh, utilizing ASTM Standard F2144.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Additional details:

- Multiple vat configurations are paid per qualifying vat.

9. Commercial Rack Oven (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
F207	Commercial Rack Oven Natural Gas	\$2,000/oven

Requirements:

- Both single and double full-size rack ovens are eligible.
- Oven must have a tested baking energy efficiency of 50 percent or greater, utilizing ASTM Standard F2093.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- Mini rack ovens (< 15 pans) are not eligible.

10. Commercial Conveyer Oven (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
F208	Commercial Conveyer Oven Natural Gas	\$500/oven deck

Requirements:

- Oven must have a tested baking energy efficiency of 42 percent or greater and must have a tested idle energy rate that is 57,000 Btuh or less, utilizing ASTM Standard F1817.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Additional details:

- Multiple-deck oven configurations are paid per qualifying oven deck.

11. Commercial Griddle (Electric)

Measure Code	Measure Name	Rebate/Unit
FS002	Commercial Griddle Electric	\$150/ln ft

Requirements:

- Griddle must have a tested heavy-load cooking energy efficiency of 70 percent or greater and an idle energy rate of 355 W per square foot of cooking surface or less, utilizing ASTM Standard F1275.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

12. Commercial Griddle (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
FS003	Commercial Griddle Natural Gas	\$100/ln ft

Requirements:

- Gas griddle must meet ENERGY STAR® Version 1.2 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 38 percent or greater and an idle energy rate of 2,650 Btuh per square foot of cooking surface or less, utilizing ASTM Standard F1275.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

13. Single Tank Door-Type Commercial Dishwasher

Measure Code	Measure Name	Rebate/Unit
FS005	Single Tank Door-Type Commercial Dishwasher	\$600/unit

Requirements:

- Qualifying models must meet ENERGY STAR® Version 2.0 plus 15 percent water consumption or have a tested water consumption of ≤ 0.75 gallons/rack and idle energy rate ≤ 0.70 kW per the ENERGY STAR test method.
- Qualifying models must be door-type high temperature sanitizing.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

14. Insulated Holding Cabinet

Measure Code	Measure Name	Rebate/Unit
F110	Full Size insulated holding cabinet	\$750/unit
F111	Half Size insulated holding cabinet	\$200/unit

Requirements:

- Qualifying models must be listed in the CEC database.
- Cabinet must meet the Consortium for Energy Efficiency (CEE)-Tier 2 specification and must have a tested idle energy rate less than or equal to 20 W per cubic foot utilizing ASTM Standard F2140.
- All measures apply to electric hot-food holding cabinets that are fully insulated and have solid doors.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- Cook and hold equipment do not qualify.

15. On-Demand Hand Wrap Machine

Measure Code	Measure Name	Rebate/Unit
FS009	On-demand Hand Wrap Machine	\$125/unit

Requirements:

- Must use either a mechanical or optical control system.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

16. Commercial Glass Door Refrigerator

Measure Code	Measure Name	Rebate/Unit
F171	Commercial Glass Door Refrigerator Internal volume less than 15 ft ³	\$30/unit
F172	Commercial Glass Door Refrigerator Internal volume 15 ft ³ – 29.9 ft ³	\$60/unit
F173	Commercial Glass Door Refrigerator Internal volume 30 ft ³ – 49.9 ft ³	\$80/unit
F174	Commercial Glass Door Refrigerator Internal volume 50 ft ³ or greater	\$100/unit

Requirements:

- Qualifying models must be listed in the CEC database.
- Refrigeration system must be built in (packaged).
- Model must meet ENERGY STAR® Version 4.0 specification.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- Units with remote refrigeration systems do not qualify.

17. Commercial Solid Door Freezer

Measure Code	Measure Name	Rebate/Unit
F179	Commercial Solid Door Freezer Internal volume less than 15 ft ³	\$75/unit
F180	Commercial Solid Door Freezer Internal volume 15 ft ³ – 29.9 ft ³	\$100/unit
F181	Commercial Solid Door Freezer Internal volume 30 ft ³ – 49.9 ft ³	\$160/unit
F182	Commercial Solid Door Freezer Internal volume 50 ft ³ or greater	\$350/unit

Requirements:

- Qualifying models must be listed in the CEC database.
- Refrigeration system must be built in (packaged).
- Model must meet ENERGY STAR® Version 4.0 specification.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- Units with remote refrigeration systems do not qualify.

18. Commercial Solid Door Refrigerators

Measure Code	Measure Name	Rebate/Unit
F183	Commercial Solid Door Refrigerator Internal volume less than 15 ft ³	\$45/unit
F184	Commercial Solid Door Refrigerator Internal volume 15 ft ³ – 29.9 ft ³	\$60/unit
F185	Commercial Solid Door Refrigerator Internal volume 30 ft ³ – 49.9 ft ³	\$85/unit
F186	Commercial Solid Door Refrigerator Internal volume 50 ft ³ or greater	\$120/unit

Requirements:

- Qualifying models must be listed in the CEC database.
- Refrigeration system must be built in (packaged).
- Model must meet ENERGY STAR® Version 4.0 specification.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit caenergywise.com/rebates/.

Exclusions:

- Units with remote refrigeration systems do not qualify.

19. Commercial Ice Machines

Measure Code	Measure Name	Rebate/Unit
FS014	Commercial Ice Machine SCU < 110 lbs/day	\$50/unit
FS015	Commercial Ice Machine SCU 110–200 lbs/day	\$75/unit
FS016	Commercial Ice Machine SCU > 200 lbs/day	\$100/unit
FS017	Commercial Ice Machine IMH < 300 lbs/day	\$75/unit
FS018	Commercial Ice Machine IMH 300–800 lbs/day	\$125/unit
FS019	Commercial Ice Machine IMH 801–1,500 lbs/day	\$200/unit
FS020	Commercial Ice Machine IMH >1,500 lbs/day	\$300/unit
FS021	Commercial Ice Machine RCU < 988 lbs/day	\$200/unit
FS022	Commercial Ice Machine RCU ≥ 988 lbs/day	\$300/unit

Requirements:

- Qualifying models must be listed in the California Energy Commission (CEC) database.
- Models must meet ENERGY STAR® Version 3.0 specification.
- Models include machines generating ice cubes that are 60 grams (2 oz.) or lighter.
- It also includes ice makers that flake, crush and fragment ice cubes.
- Rebate amount depends on ice making rate (pounds per day) and equipment type: self-contained units (SCU), Ice-making heads (IMH) and remote condensing units (RCU).
- Only air-cooled machines qualify for this rebate.
- Customer must purchase the entire Air Conditioning, Heating and Refrigeration Institute (AHRI)-tested ice-making system.
- Remote machines must be purchased with qualifying remote condenser or remote condenser/compressor unit.
- Ice machines must be tested in accordance with the AHRI Standard 810.
- Visit ahrinet.org to learn more about product information and testing procedures.
- Installation address must have a commercial electric account with PG&E.
- For a list of rebate-qualified commercial ice machines, visit caenergywise.com/rebates.

CUSTOM

1. Customized Incentives

Measure Code	Measure Description	Rebate/kWh	Rebate/kW	Rebate/therm
XXXXX	To code / Standard practice	\$0.06	\$75	\$0.50
XXXXX	Above code / Standard practice	\$0.12	\$150	\$1.25

NOTE: Rebate subject to an engineering review to verify conformity with terms and conditions.

Requirements:

- Eligibility and energy savings for all Customized projects are evaluated on an individual basis
- The project must demonstrate energy savings that earn an incentive of at least \$2,000 to be considered for program eligibility
- The project must be inspected and approved by PG&E prior to the removal of the existing equipment/systems and prior to the ordering or the installation of new equipment/systems
- All project documentation, including product cut sheets, to-scale floor plans, etc. must be provided to the program

For Lighting Projects:

- All LED fixtures or retrofit kits must be listed on the DesignLights Consortium qualified products list. For the most up to date list, visit www.designlights.org/search/
- For retrofit kits, the existing ballast must be removed and external drivers must be installed

Exclusions:

- Customized incentives are not available for measures that would qualify for an incentive through a deemed measure offering, including the Distributor LED Replacement Lamps Program
- Plug-n-Play LED "T8 style" replacement lamps do not qualify
- LED retrofit tubes with an internal driver that removes the ballast and connects line voltage directly to the tombstones do not qualify
- Lighting control measures are ineligible for incentives when installed as part of a project that triggers the Title 24 requirements for lighting controls