Customers may be eligible to participate in Pacific Gas and Electric Company's (PG&E) demand response incentive programs. Refer to pge.com/demandresponse for the requirements and guidelines of these programs or call the Business Customer Service Center at 1-800-468-4743.
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**DEFINITIONS** 8
Central Natural Gas Furnaces

Requirements:
- To qualify, the central natural gas forced air furnace must have an annual fuel utilization efficiency (AFUE) rating of:
  - 95 to 96.9 percent for the $150 rebate
  - 97 percent or greater for the $250 rebate
- Step 7a of the application must include a permit number and a signature from a licensed contractor.
- Only residential furnaces installed in a small commercial setting qualify for this rebate. To find a list of qualifying equipment that meets or exceeds the program requirements, go to ahridirectory.org/ahridirectory/pages/home.aspx. In the Residential Directory, select “Furnaces,” then indicate the AFUE minimum in the appropriate box and search.
- Furnace must be a weatherized unit.

 Rebate Code | Description | Rebate/Unit Measure
-------------|-------------|---------------------
 SA17 | Central Natural Gas Furnace 95–96.9% AFUE without VSM | $150/unit
 SA19 | Central Natural Gas Furnace ≥ 97% AFUE without VSM | $250/unit

Rebate is only applicable to the following building types: assembly, education (community college, primary/secondary school, relocatable classroom), grocery, hospitals, hotels, nursing homes, small office, restaurant (fast-food, sit-down), single story large retail, small retail, conditioned storage, refrigerated warehouses, manufacturing (biotech, light industrial), commercial, other.

Installation address must have a commercial natural gas account with PG&E.
Central Natural Gas Furnaces with Built-in Variable-Speed Motors (VSM)

Requirements:
• The central natural gas forced air furnace with built-in variable-speed motor must have an AFUE rating of:
  • 95 to 96.9 percent for the $200 rebate
  • 97 percent or greater for the $300 rebate
• Step 7a of the application must include a permit number and a signature from a licensed contractor.
• Only residential furnaces installed in a small commercial setting qualify for this rebate. To find a list of qualifying equipment that meets or exceeds the program requirements, go to ahridirectory.org/ahridirectory/pages/home.aspx. In the Residential Directory, select “Furnaces,” then indicate the AFUE minimum in the appropriate box and search.
• A brushless direct current (DC) motor, also known as an electronically commutated motor (ECM), qualifies for this rebate.
• Consult with a licensed contractor to verify that your furnace has a built-in VSM.
• Furnace must be a weatherized unit.
• Rebate is only applicable to the following building types: assembly, education (community college, primary/secondary school, relocatable classroom), grocery, hospitals, hotels, nursing homes, small office, restaurant (fast-food, sit-down), single story large retail, small retail, conditioned storage, refrigerated warehouses, manufacturing (biotech, light industrial), commercial, other.
• Installation address must have both commercial natural gas and electric accounts with PG&E.

<table>
<thead>
<tr>
<th>Rebate Code</th>
<th>Description</th>
<th>Rebate/Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA16</td>
<td>Central Natural Gas Furnace 95–96.9% AFUE with VSM</td>
<td>$200/unit</td>
</tr>
<tr>
<td>SA18</td>
<td>Central Natural Gas Furnace ≥ 97% AFUE with VSM</td>
<td>$300/unit</td>
</tr>
</tbody>
</table>

Replacement Multiple-Speed Brushless Permanent Magnet Blower Motors

Requirements:
• Supply air blower with a new super-efficient direct replacement brushless permanent magnet blower motor with built-in controller must replace the existing permanent split capacitor motor.
• Motor must be 10 horsepower (hp) or less to be eligible for this rebate.
• Motor must be capable of plugging into existing control board.
• Rebate only available to customers residing in climate zones [CZ] 11, 12 and 13. Go to pge.com/climatezones to find your climate zone.
• Installation address must have a commercial electric account with PG&E.

Exclusions:
A variable frequency drive (VFD) is not eligible for this rebate.

<table>
<thead>
<tr>
<th>Rebate Code</th>
<th>Description</th>
<th>Rebate/Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H182</td>
<td>Replacement Multiple-Speed Brushless Permanent Magnet Blower CZ restrictions apply</td>
<td>$50/unit</td>
</tr>
</tbody>
</table>
Space Heating Boilers

Next-generation, high-efficiency, space-heating boilers use better materials and combustion controls to transfer more heat generated by burning gas to the water or steam circulated to heat the facility.

Requirements:

- Boiler must be used for space heating for human comfort per California Energy Commission (CEC) Title 20 and 24.
- Rebate application must include the manufacturer’s specifications sheet showing specified efficiency rating.
- Installation address must have a commercial natural gas account with PG&E.

<table>
<thead>
<tr>
<th>Rebate Code</th>
<th>Description</th>
<th>Rebate/Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV015</td>
<td>Space heating forced draft water boiler thermal efficiency of ≥ 85% and input rating 300 MBtuh and ≤ 2,500 MBtuh</td>
<td>$1/MBtuh</td>
</tr>
<tr>
<td>HV016</td>
<td>Space heating condensing water boiler thermal efficiency of ≥ 94% and input rating 300 MBtuh and ≤ 2,500 MBtuh</td>
<td>$2/MBtuh</td>
</tr>
<tr>
<td>HV018</td>
<td>Space heating forced draft water boiler combustion efficiency of ≥ 85% and input rating &gt; 2,500 MBtuh</td>
<td>$1/MBtuh</td>
</tr>
<tr>
<td>HV019</td>
<td>Space heating condensing water boiler thermal efficiency of ≥ 94% and input rating &gt; 2,500 MBtuh</td>
<td>$2/MBtuh</td>
</tr>
<tr>
<td>HV023</td>
<td>Space heating forced draft steam boiler thermal efficiency of ≥ 85% and input rating 300 MBtuh and ≤ 2,500 MBtuh</td>
<td>$1/MBtuh</td>
</tr>
<tr>
<td>HV025</td>
<td>Space heating forced draft steam boiler combustion efficiency of ≥ 80% and input rating &gt; 2,500 MBtuh</td>
<td>$1/MBtuh</td>
</tr>
</tbody>
</table>

Variable Frequency Drives (VFD) for HVAC Fans

Requirements:

- Drives must be applied to existing HVAC supply, return or exhaust air fans only.
- Drives are eligible for this rebate only if throttling devices, such as inlet vanes or bypass dampers, are removed or permanently disabled.
- Rebate is only applicable to the following building types: education [secondary schools, community college, universities], hospitals, hotels, nursing homes, large offices, multistory large retail.
- Installation address must have a commercial electric account with PG&E.

Exclusions:

- Fan size greater than 100 hp is not eligible for this rebate.
- VFDs on cooling tower fans are not eligible for this rebate.

<table>
<thead>
<tr>
<th>Rebate Code</th>
<th>Description</th>
<th>Rebate/Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H148</td>
<td>Variable Frequency Drive for HVAC Fan</td>
<td>$80/hp</td>
</tr>
</tbody>
</table>

For more information and for the most up-to-date catalogs, visit [pge.com/businessrebates](http://pge.com/businessrebates) or call our Business Customer Service Center at 1-800-468-4743.
Advanced Rooftop HVAC Controls

Retrofit your existing rooftop HVAC unit with one of several advanced control options.

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)
- Customer must assure that controls are installed and operate according to current applicable building and energy codes.
- Installation address must have a commercial electric account with PG&E.

Advanced Digital Economizer Control (ADEC) Systems for Packaged HVAC Units

Retrofit your existing analog or nonfunctional economizer controller for your packaged HVAC unit with an advanced digital economizer control system. ADECs detect and report problems with sensors, dampers and other components so that energy efficiency can be maintained.

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)
- Customer must replace existing analog or nonfunctional economizer control system with an ADEC system.
- Customer must assure that controls are installed and operate according to current applicable building and energy codes. Maximum rebate is $300 per ADEC system.
- Customer cannot combine this rebate with Demand Controlled Ventilation (DCV) or Enhanced Ventilation Control (EVC) rebate offers for the same HVAC unit.
- Rebate applicable for heat pumps, air conditioners, gas packs and variable air volume (VAV) systems.
- Installation address must have a commercial electric account with PG&E.

Exclusions:
Not all building types qualify. See table below for table of eligible building types.

Eligible Building Type Table for Advanced Digital Economizer Controls (ADEC)

<table>
<thead>
<tr>
<th>Measure</th>
<th>Packaged HVAC Unit Type</th>
<th>Eligible Building Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV294</td>
<td>Gas Pack</td>
<td>Assembly, community colleges, primary schools, relocatable classrooms, secondary schools, universities, grocery, hospitals, hotels, motels, manufacturing (biotech and light industrial), nursing homes, large and small offices, restaurants (fast food and sit-down), retail (single/multi-story large, small), conditioned storage, refrigerated warehouses, other</td>
</tr>
<tr>
<td>HV295</td>
<td>Air Conditioning</td>
<td>Assembly, community colleges, primary schools, relocatable classrooms, secondary schools, universities, grocery, hospitals, hotels, motels, manufacturing (biotech and light industrial), nursing homes, large and small offices, restaurants (fast food and sit-down), retail (single/multi-story large, small), conditioned storage, refrigerated warehouses, other</td>
</tr>
<tr>
<td>HV296</td>
<td>Heat Pump Unit</td>
<td>Assembly, community colleges, primary schools, relocatable classrooms, secondary schools, universities, grocery, hospitals, hotels, manufacturing (biotech and light industrial), nursing homes, large and small offices, restaurants (fast food and sit-down), retail (single/multi-story large, small), conditioned storage, refrigerated warehouses, other</td>
</tr>
<tr>
<td>HV297</td>
<td>Variable Air Volume (VAV) Unit</td>
<td>Community colleges, secondary schools, universities, hospitals, hotels, manufacturing (biotech), nursing homes, large and small offices, multi-story large retail</td>
</tr>
</tbody>
</table>
Demand Controlled Ventilation (DCV) for Packaged HVAC Units

Add demand controlled ventilation to your packaged HVAC unit. DCV enables your economizer to reduce the amount of outside air when the conditioned space is occupied by fewer people than the design capacity. A CO₂ sensor provides the occupancy signal to the ADEC system. This is a good energy-efficiency measure for conditioned spaces with highly-variable or low occupancy. If your rooftop unit already has an ADEC, then you have the option of just adding a CO₂ sensor.

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.
- Customer must assure 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.
- 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, universities), small office, restaurant (fast-food, sit-down), retail, manufacturing (biotech), other.
- Installation address must have a commercial electric account with PG&E.

Enhanced Ventilation Control (EVC) for Packaged HVAC Units

Add enhanced ventilation control to your packaged HVAC unit. EVC kits add variable speed, CO₂ sensors and ADECs to existing packaged HVAC units. These retrofit add-on technologies can reduce the ventilation rate and outside air when the conditioned space is occupied by fewer people than the design capacity. This is a good energy-efficiency measure for conditioned spaces with highly-variable or low occupancy.

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.

<table>
<thead>
<tr>
<th>Packaged HVAC Unit Type</th>
<th>Advanced Digital Economizer Controller</th>
<th>Demand Controlled Ventilation</th>
<th>Enhanced Ventilation Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Pack</td>
<td>ADEC</td>
<td>ADEC + CO₂ sensor only to existing ADEC</td>
<td>ADEC + CO₂ sensor + VFD</td>
</tr>
<tr>
<td></td>
<td>HV294</td>
<td>HV027</td>
<td>SA07</td>
</tr>
<tr>
<td></td>
<td>Heat Pump Unit</td>
<td>HV026</td>
<td>SA08</td>
</tr>
<tr>
<td></td>
<td>HV296</td>
<td>SA10</td>
<td>SA09</td>
</tr>
<tr>
<td>Air Conditioning</td>
<td>HV295</td>
<td>HV031</td>
<td>SA11</td>
</tr>
<tr>
<td></td>
<td>HV029</td>
<td>HV030</td>
<td>SA12</td>
</tr>
<tr>
<td>Variable Air Volume (VAV) Unit</td>
<td>HV297</td>
<td>No rebate available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rebate/Unit Measure</th>
<th>Gas Pack</th>
<th>Heat Pump Unit</th>
<th>Air Conditioning</th>
<th>Variable Air Volume (VAV) Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>$20/ton (max $300)</td>
<td>$40/ton (max $600)</td>
<td>$100/ton (max $1,500)</td>
<td>$155/ton (max $3,875)</td>
<td>$190/ton (max $4,750)</td>
</tr>
</tbody>
</table>

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).
Notched V-Belts Replacing Solid V-Belts

If you have existing solid v-belts driving the packaged HVAC fan(s), you can qualify for this rebate by replacing them with notched v-belts.

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.”
- Customer must request separate rebate for each HVAC unit retrofitted with notched belts. See the HVAC unit’s nameplate. (1 ton AC capacity = 12,000 Btuh)
- Customer must identify the building location, HVAC unit, motor, HVAC tonnage, v-belt make and model number and the quantity of the belts being replaced.
- Maximum rebate is $30 per motor with solid v-belts retrofitted with notched v-belts.
- Customer must replace solid v-belts with notched v-belts on HVAC supply or return fan motor.
- Only “A” or “B” type v-belts are considered.
- Rebates only applicable to the following building types: assembly, education (community colleges, primary/secondary schools, relocatable classrooms, universities), hospitals, nursing homes, hotels, offices, restaurants (fast-food, sit-down), retail, conditioned storage, manufacturing (biotech, light industrial, other)
- Installation address must have a commercial electric account with PG&E.

Exclusions:

- Packaged HVAC units already fitted with notched v-belts do not qualify. Only units with solid v-belts qualify.
- SA14 is not applicable to relocatable classrooms.

<table>
<thead>
<tr>
<th>Rebate Code</th>
<th>Description</th>
<th>Rebate/Unit Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA13</td>
<td>HVAC Fans Cogged V-Belt Replacement for Gas Packs</td>
<td>$0.35/ton (max $30/motor)</td>
</tr>
<tr>
<td>SA14</td>
<td>HVAC Fans Cogged V-Belt Replacement for Heat Pumps</td>
<td>$0.35/ton (max $30/motor)</td>
</tr>
<tr>
<td>SA15</td>
<td>HVAC Fans Cogged V-Belt Replacement for Unitary AC Only</td>
<td>$0.35/ton (max $30/motor)</td>
</tr>
</tbody>
</table>
Definitions

**Annual Fuel Utilization Efficiency (AFUE):** This measures the percentage of fuel that is converted into usable heating energy. For example, a 90 percent AFUE furnace means that 90 percent of the fuel is used in heating a facility, while 10 percent escapes as exhaust with the combustion gases.

**Btuh:** British thermal units per hour.

**Climate Zones (CZ):** Climate zones are based on energy use, temperature, weather and other factors. They are basically a set of geographic areas that are grouped according to similar climatic characteristics.

**CO₂ Sensor:** This device measures the parts per million (PPM) of CO₂ in the air.

**Horsepower (hp):** This is a unit of power equal to 550 foot-pounds per second.

**Large Office:** Office buildings typically greater than 20,000 square feet.

**Large Retail:** Retail buildings that are typically greater than 5,000 square feet.

**MBtuh:** 1,000 British thermal units per hour.

**NEMA Premium Motor:** This is an alternating current induction motor that has a certified efficiency rating from the National Electrical Manufacturers Association.

**Permanent Mag Motor:** This term refers to a permanent magnet AC motor.

**Small Office:** Office buildings typically less than 20,000 square feet.

**Small Retail:** Retail buildings that are typically less than 5,000 square feet.

**Ton:** A ton is the unit of measurement that is the cooling capacity of the system and is 12,000 Btuh.

**Variable Frequency Drive (VFD):** This electric motor changes the motor’s revolutions per minute by either manual setting or variable input from one or more sensors.
More ways for your business to save money

Looking for more information on PG&E’s rebates and incentives for your business? Visit pge.com/businessrebates to access the latest rebate information and catalogs. If you are ready to apply for a rebate, you can download an application at pge.com/businessrebates.

PG&E offers a wide range of tools and resources that can help your business save energy and money while helping the environment:

• Didn’t find a rebate matching the high-efficiency equipment you’d like to install? You may still be eligible for financial support with PG&E’s customized incentives for businesses. To learn more, visit pge.com/cr.

• Sign up for automated benchmarking service at pge.com/benchmarking, which allows you to use the ENERGY STAR® Portfolio Manager to track and compare your facility’s energy performance over time.

• Use PG&E’s audit tools to identify options for saving energy and money at your facility, and get started on developing a comprehensive energy management plan. Visit the Business Energy Checkup at pge.com/waystosave.

• Find a suite of customized incentives for retrofitting outdated, inefficient equipment, as well as incentives to optimize existing equipment through PG&E’s Retrocommissioning (RCx) Program at pge.com/rcx.

• Explore PG&E’s demand response programs, which offer incentives for managing your energy use during times of peak demand at pge.com/demandresponse.

• Check out PG&E’s incentives for solar, wind and fuel cell self-generation equipment, if you are considering generating your own electricity.

You also may learn more about these programs, tools and offers by contacting your local PG&E account representative or by calling our Business Customer Service Center at 1-800-468-4743.

Ready to get started with your next project and need the help of a contractor? Find local vendors who participate in PG&E’s energy-efficiency rebate programs for your business at pge.com/tradeprodirectory.