

## FOOD SERVICE PRODUCTS

Product Code	Product Description	Rebate/Unit	Page #
402032	Kitchen Ventilation Control: Retrofit	\$1,500.00/Rated HP	<a href="#">9</a>
402033	Kitchen Ventilation Control: New	\$750.00 Rated HP	
402160	Glass-Door Reach-in Freezer 15-29 ft³	\$100.00/Each	<a href="#">10</a>
402161	Glass-Door Reach-in Freezer 30-49 ft³	\$165.00/Each	
402159	Glass-Door Reach-in Freezer 50 ft³ and over	\$250.00/Each	
462971	Griddle: Electric	\$200.00/Linear Foot	<a href="#">11</a>
462972	Griddle: Gas	\$100.00/Linear Foot	
465296	Griddle: Electric - New	\$200.00/Linear Foot	
465297	Griddle: Gas - New	\$100.00/Linear Foot	
463498	Combination Oven < 15 Pans: Electric	\$1,200.00/ Oven	<a href="#">12</a>
463499	Combination Oven 15-28 Pans: Electric		
463500	Combination Oven > 28 Pans: Electric	\$3,500.00/Oven	
463501	Combination Oven < 15 Pans: Gas	\$1,100.00/Oven	
463502	Combination Oven 15 - 28 Pans: Gas	\$1,000.00/Oven	
463503	Combination Oven > 28 Pans: Gas	\$2,000.00/Oven	
464053	Ice Machine SCU < 110 lbs./day: New	\$50.00/Unit	<a href="#">13</a>
464054	Ice Machine SCU < 110 lbs./day: Retrofit		
464055	Ice Machine SCU 110 – 200 lbs./day: New	\$150.00/Unit	
464056	Ice Machine SCU 110 – 200 lbs./day: Retrofit		
464057	Ice Machine SCU > 200 lbs./day: New	\$200.00/Unit	
464058	Ice Machine SCU > 200 lbs./day: Retrofit		
464059	Ice Machine IMH < 300 lbs./day: New	\$75.00/Unit	
464060	Ice Machine IMH < 300 lbs./day: Retrofit		
464061	Ice Machine IMH 300 – 799 lbs./day: New	\$125.00/Unit	
464062	Ice Machine IMH 300 – 799 lbs./day: Retrofit		
464063	Ice Machine IMH 800 – 1499 lbs./day: New	\$200.00/Unit	
464064	Ice Machine IMH 800 – 1499 lbs./day: Retrofit		
464065	Ice Machine IMH > 1500 lbs./day: New	\$300.00/Unit	
464066	Ice Machine IMH > 1500 lbs./day: Retrofit		
464067	Ice Machine RCU < 988 lbs./day: New		
464068	Ice Machine RCU < 988 lbs./day: Retrofit		
464069	Ice Machine RCU ≥ 988 lbs./day: New	\$400.00/Unit	



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464070	Ice Machine RCU ≥ 988 lbs./day: Retrofit	\$400.00/Unit	<a href="#">13</a>	
464297	Hot Food Holding Cabinet-Half-Size (≥15 cuft) - New	\$100.00/Each	<a href="#">15</a>	
464298	Hot Food Holding Cabinet-Full-Size (<15 cuft) - New	\$1,100.00/Each		
464307	Hot Food Holding Cabinet-Half-Size (≥15 cuft)	\$100.00/Each		
464308	Hot Food Holding Cabinet-Full-Size (<15 cuft)	\$1,100.00/Each		
467207	Undercounter Dishwasher, Hi Temp, Tier 1	\$100.00/Each	<a href="#">16</a>	
467208	Undercounter Dishwasher, Hi Temp, Tier 1 - New			
467213	Undercounter Dishwasher, Hi Temp, Tier 2			
467214	Undercounter Dishwasher, Hi Temp, Tier 2 - New			
467219	Undercounter Dishwasher, Lo Temp, Tier 1			
467220	Undercounter Dishwasher, Lo Temp, Tier 1 - New			
467225	Undercounter Dishwasher, Lo Temp, Tier 2	\$820.00/Each		<a href="#">17</a>
467226	Undercounter Dishwasher, Lo Temp, Tier 2 - New			
468145	Automatic Conveyor Broilers Belt Width <20"	\$1,200.00/Each		
468147	Automatic Conveyor Broilers Belt Width <20" - New	\$1,500.00/Each		
468149	Automatic Conveyor Broilers Belt Width 20-26"	\$1,200.00/Each		
468151	Automatic Conveyor Broilers Belt Width 20-26" - New	\$1,200.00/Each		
468153	Automatic Conveyor Broilers Belt Width <20"	\$1,200.00/Each		
468155	Automatic Conveyor Broilers Belt Width <20" - New	\$1,800.00/Each		

### REFRIGERATION PRODUCTS

Product Code	Production Description	Rebate/Unit	Page #
402152	Refrigeration Display Case with Doors: Low Temp	\$75.00/Linear Foot	<a href="#">18</a>
402153	Refrigeration Display Case with Doors: Medium Temp		
467204	High Efficiency Ultra Low Temp Freezer (15 to 24 ft. <sup>3</sup> )	\$300.00/Unit	<a href="#">19</a>
467205	High Efficiency Ultra Low Temp Freezer (24 to 29 ft. <sup>3</sup> ) - New	\$1,200.00/Unit	
467206	High Efficiency Ultra Low Temp Freezer (24 to 29 ft. <sup>3</sup> )	\$1,300.00/Unit	

### NATURAL GAS PRODUCTS

Product Code	Product Description	Rebate/Unit	Page #
402421	Ozone Laundry System	\$39.00/lb.	<a href="#">21</a>
465438	30 Gallon MedDraw Storage Water Heater, UEF $\geq$ 0.64: Retrofit	\$2.00/Cap-kBTU <sub>h</sub>	<a href="#">22</a>
465440	40 Gallon MedDraw Storage Water Heater, UEF $\geq$ 0.64: Retrofit		



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465441	40 Gallon HiDraw Storage Water Heater, UEF ≥ 0.68: Retrofit	\$2.00/Cap-kBTUh	<a href="#">22</a>
465442	50 Gallon MedDraw Storage Water Heater, UEF ≥ 0.64: Retrofit		
465443	50 Gallon HiDraw Storage Water Heater, UEF ≥ 0.68: Retrofit		
465474	Large Storage Water Heater – TE > 0.83 ≤ 0.90	\$2.00/Cap-kBTUh	<a href="#">23</a>
463333	Large Storage Water Heater – TE > 0.90		
466583	Large Instantaneous Heaters, >200 kBtu/hr, 80% TE	\$0.50/Cap-kBTUh	<a href="#">24</a>
466585	Large Instantaneous Heaters, >200 kBtu/hr, 90% TE		
466586	Process Boiler-Hot Water – 85% CE		
466588	Process Boiler-Hot Water – 90% CE	\$4.00/Cap-kBTUh	<a href="#">25</a>
466590	Process Boiler-Steam-83% CE		
466953	Gas Dryer Modulating Valve	\$250.00/Each	<a href="#">26</a>

### PIPE/PIPE FITTING INSULATION PRODUCTS

Product Code	Product Description	Rebate/Unit	Page #
466896	1" Pipe Insulation: Hot Water Pipe ≤ 1" diameter: Indoor	\$3.00/Linear Foot	<a href="#">27</a>
466842	1" Pipe Insulation: Hot Water Pipe, ≤ 1" diameter: Outdoor		
466897	1" Pipe Insulation: Hot Water Pipe, > 1", ≤ 4" diameter: Indoor		
466843	1" Pipe Insulation: Hot Water Pipe, > 1", ≤ 4" diameter: Outdoor		
466898	1" Pipe Insulation: Hot Water Pipe, > 4" diameter: Indoor		
466844	1" Pipe Insulation: Hot Water Pipe, > 4" diameter: Outdoor		
466923	1" Fitting Insulation: Hot Water Pipe ≤ 1" diameter: Indoor	\$7.00/Each	
466869	1" Fitting Insulation: Hot Water Pipe ≤ 1" diameter: Outdoor		
466924	1" Fitting Insulation: Hot Water Pipe, > 1", ≤ 4" diameter: Indoor	\$10.00/Each	
466870	1" Fitting Insulation: Hot Water Pipe, > 1", ≤ 4" diameter: Outdoor		
466925	1" Fitting Insulation: Hot Water Pipe, > 4" diameter: Indoor	\$12.00/Each	
466871	1" Fitting Insulation: Hot Water Pipe, > 4" diameter: Outdoor		
466899	1" Pipe Insulation: ≤ 15 psig Steam Pipe, ≤ 1" diameter: Indoor	\$3.00/Linear Foot	
466845	1" Pipe Insulation: ≤ 15 psig Steam Pipe, ≤ 1" diameter: Outdoor		
466900	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter: Indoor		
466846	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter: Outdoor		
466901	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 4" diameter: Indoor		
466847	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 4" diameter: Outdoor		
466902	1" Pipe Insulation: > 15 psig Steam Pipe, ≤ 1" diameter: Indoor		
466848	1" Pipe Insulation: > 15 psig Steam Pipe, ≤ 1" diameter: Outdoor		

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466903	1" Pipe Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter: Indoor	\$3.00/Linear Foot	<a href="#">27</a>
466849	1" Pipe Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter: Outdoor		
466904	1" Pipe Insulation: > 15 psig Steam Pipe, > 4" diameter: Indoor		
466850	1" Pipe Insulation: > 15 psig Steam Pipe, > 4" diameter: Outdoor		
466926	1" Fitting Insulation: ≤ 15 psig Steam Pipe ≤ 1" diameter: Indoor	\$12.00/Each	
466872	1" Fitting Insulation: ≤ 15 psig Steam Pipe ≤ 1" diameter: Outdoor		
466927	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter: Indoor	\$15.00/Each	
466873	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter: Outdoor		
466928	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 4" diameter: Indoor	\$30.00/Each	
466874	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 4" diameter: Outdoor		
466929	1" Fitting Insulation: > 15 psig Steam Pipe ≤ 1" diameter: Indoor	\$12.00/Each	
466875	1" Fitting Insulation: > 15 psig Steam Pipe ≤ 1" diameter: Outdoor		
466930	1" Fitting Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter: Indoor	\$15.00/Each	
466876	1" Fitting Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter: Outdoor		
466931	1" Fitting Insulation: > 15 psig Steam Pipe, > 4" diameter: Indoor	\$30.00/Each	
466877	1" Fitting Insulation: > 15 psig Steam Pipe, > 4" diameter: Outdoor		

HVAC PRODUCTS			
Product Code	Product Description	Rebate/Unit	Page #
463783	New VFD on existing AC unit with NG heating and ADEC	\$55.00/Cap-Tons	<a href="#">30</a>
463784	New VFD and NEMA motor on existing AC unit with NG heating (and ADEC)	\$86.00/Cap-Tons	
463785	New VFD and PM motor on existing AC unit with NG heating (and ADEC)	\$91.00/Cap-Tons	
463786	New VFD on existing AC unit (no NG heating) and ADEC	\$55.00/Cap-Tons	
463787	New VFD and NEMA motor on existing AC unit (no NG heating)	\$86.00/Cap-Tons	
463788	New VFD and PM motor on existing AC unit (no NG heating)	\$91.00/Cap-Tons	
463789	New VFD on existing Heat Pump unit	\$55.00/Cap-Tons	
463790	New VFD and NEMA motor on existing Heat Pump unit with ADEC	\$86.00/Cap-Tons	
463791	New VFD and PM motor on existing Heat Pump unit and ADEC	\$91.00/Cap-Tons	
463792	New VFD and ADEC on existing AC unit w/ NG heating	\$95.00/Cap-Tons	
463793	New VFD, NEMA motor, and ADEC on existing AC unit w/ NG heating	\$126.00/Cap-Tons	
463794	New VFD, PM motor, and ADEC on existing AC unit w/ NG heating	\$131.00/Cap-Tons	
463795	New VFD and ADEC on existing AC unit only	\$95.00/Cap-Tons	
463796	New VFD, NEMA motor, and ADEC on existing AC unit only	\$126.00/Cap-Tons	



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463797	New VFD, PM motor, and ADEC on existing AC unit only	\$131.00/Cap-Tons	<a href="#">30</a>
463798	New VFD and ADEC on existing Heat Pump unit	\$95.00/Cap-Tons	
463799	New VFD, NEMA motor, and ADEC on existing Heat Pump unit	\$126.00/Cap-Tons	
463800	New VFD, PM motor, and ADEC on existing Heat Pump unit	\$131.00/Cap-Tons	
467104	HVAC ENHANCED VENT GAS HEAT, including adding ADEC, CO2 sensor, VFD to units with Gas Heat	\$127.00/Cap-Tons	
467106	HVAC ENHANCED VENT NEMA GAS HEAT, including adding ADEC, CO2 sensor, VFD, NEMA motor to units with Gas Heat	\$159.00/Cap-Tons	
467108	HVAC ENHANCED VENT PMM GAS HEAT, including adding ADEC, CO2 sensor, VFD, PMM motor to units with Gas Heat	\$164.00/Cap-Tons	
467110	HVAC ENHANCED VENT HEAT PUMP, including adding ADEC, CO2 sensor, VFD to Heat Pump	\$127.00/Cap-Tons	
467112	HVAC ENHANCED VENT NEMA HEAT PUMP, including Adding ADEC, CO2 sensor, VFD, NEMA motor to Heat Pump	\$159.00/Cap-Tons	
467114	HVAC ENHANCED VENT PMM HEAT PUMP, including Adding ADEC, CO2 sensor, VFD, PMM motor to Heat Pump	\$164.00/Cap-Tons	
467718	Unoccupied Fan Control, AC Only Unit	\$3.00/Cap-Tons	<a href="#">32</a>
467720	Unoccupied Fan Control, AC Unit with Gas Heat		
467722	Unoccupied Fan Control, Heat Pump		
467724	Unoccupied Fan Control, Variable Volume AC Unit with Gas Heat		
467802	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F)	\$3.00/Cap-kBTUh	<a href="#">34</a>
467817	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F)	\$2.00/Cap-kBTUh	
467838	VSD on HVAC Fan Control	\$101.00/Rated-HP	
467876	Cogged V-Belt for HVAC Fans	\$0.25/Cap-Tons	
467879	Cogged V-Belt for HVAC Fans - New		
467886	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 85.0 Et, OA Reset from 140 to 165 F) - New	\$8.00/Cap-kBTUh	
467892	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 140 to 165 F) - New	\$3.00/Cap-kBTUh	
467895	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F) - New		



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467901	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 83.0 Et, 85.0Ec, OA Reset from 140 to 165 F) - New	\$4.00/Cap-kBTUh	<a href="#">34</a>
467907	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 140 to 165 F) - New	\$2.00/Cap-kBTUh	
467910	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F) - New		
467916	Space Heating Boiler, Steam boiler (300 - 2500 kBtuh, 82.0 Et, OA Reset from 140 to 165 F) - New	\$12.00/Cap-kBTUh	
467919	Space Heating Boiler, Steam boiler (> 2500 kBtuh, 80.0 Et, OA Reset from 140 to 165 F) - New	\$1.00/Cap-kBTUh	
467922	Space Heating Boiler, Steam boiler (> 2500 kBtuh, 82.0 Et, OA Reset from 140 to 165 F) - New	\$2.00/Cap-kBTUh	
467951	Classroom HVAC Occupancy Sensor, Heat Pump, ERC	\$13.00/Cap-Tons	<a href="#">33</a>

## ***2021 Energy Efficiency Business Rebates Product Catalog Public Customers***

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### **GENERAL REQUIREMENTS**

- Customers must have an active San Diego Gas & Electric® (SDG&E) commercial public electric account if applying for an electric measure and an SDG&E gas account if applying for a gas measure.
- Customer must adhere to all program requirements. Additionally, customer must provide all information when a '**Data Collection Requirements**' section is present.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. New, used or rebuilt equipment is not eligible.
- Customer must provide proof that product(s) meet the energy efficiency requirements.
- It is the responsibility of the customer to ensure the equipment to be installed adheres to all state, local and national building codes or ordinances, as well as the manufacturer's requirements.
- **Note:**  
**Several products offered through the Energy Efficiency Business Rebates program are provided at no cost or at a discount for qualified customers through SDG&E's Business Energy Solutions program. Public sector customers with a monthly electrical demand less than 200 kW may participate and should visit [sdge.com/BES](https://sdge.com/BES) or call our Energy Savings Center at 1-800-644-6133 for details.**

## ***2021 Energy Efficiency Business Rebates Product Catalog Public Customers***

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### **FOOD SERVICE/REFRIGERATION REQUIREMENTS & DEFINITIONS**

- All food service equipment must be listed on [www.energystar.gov/products](http://www.energystar.gov/products) to qualify unless otherwise noted in the product requirement section.
- Medium temperature refers to refrigerated space temperatures between 1°F and 35°F. Low temperature covers temperatures below 0°F.

#### **ASTM**

American Society for Testing and Materials.

#### **ENERGY STAR**

ENERGY STAR specifications are available at: [www.energystar.gov/cfs](http://www.energystar.gov/cfs).

## FOOD SERVICE PRODUCTS

### COMMERCIAL KITCHEN VENTILATION CONTROL

#### Requirements:

- The control system must meet the criteria below to qualify.
- The new commercial kitchen exhaust hood control system must be installed in an existing or a new dedicated commercial kitchen exhaust hood and makeup air system.
- Installation must include temperature sensor(s) in the hood exhaust collar or within the hood, and/or an optic sensor on the end of the hood or within the hood that senses cooking conditions.
- The control system must be used in conjunction with a variable-speed drive (VSD) on the fan motor.
- Installations in a new exhaust hood must have a total kitchen hood airflow  $\leq 5,000$  cfm.
- If installed in an existing exhaust hood  $> 5,000$  cfm, the existing hood must have been installed before July 1, 2014 due to code requirements.
- To comply with SB 454, applicant must use a licensed contractor, as appropriate, and follow applicable permitting requirements for this installation. Both the customer certification and the contractor certification in section 10 of the Energy Efficiency Business Rebates application must be completed for this HVAC related product.

#### Data Collection Requirements:

- Must provide verification of total exhaust cfm controlled by the new or existing kitchen hood.

#### Restrictions:

- Used or rebuilt controls are not eligible.
- Systems with total kitchen hood airflow  $> 5,000$  cfm installed after July 1, 2014 are not eligible.

Commercial Kitchen Ventilation Control Table

Product Code	Description	Rebate/Unit
402032	Kitchen Ventilation Control: Retrofit	\$1,500.00/Fan HP
402033	Kitchen Ventilation Control: New	\$750.00/Fan HP

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### COMMERCIAL GLASS DOOR FREEZER

#### Requirements:

- The refrigeration system shall be built-in (packaged). Cases with remote refrigeration systems do not qualify.
- Used or rebuilt equipment is not eligible.
- Qualifying models must meet ENERGY STAR® specifications for energy efficiency as listed in Table below.

#### Maximum Daily Energy Consumption Requirements

Product Volume (in cubic feet)	Freezer (Glass Door)
$15 \leq V < 30 \text{ ft}^3$	$\leq 0.232V + 2.36 \text{ kWh/day}$
$30 \leq V < 50 \text{ ft}^3$	
$50 \leq V \text{ ft}^3$	

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

#### Restrictions:

- Used or rebuilt equipment are not eligible.
- Units with remote refrigeration systems do not qualify.

#### Commercial Glass Door Freezer Table

Product Code	Description	Rebate/Unit
402160	Glass-Door Reach-in Freezer 15-29 ft <sup>3</sup>	\$100.00/Unit
402161	Glass-Door Reach-in Freezer 30-49 ft <sup>3</sup>	\$165.00/Unit
402159	Glass-Door Reach-in Freezer 50 ft <sup>3</sup> and over	\$250.00/Unit





## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### **COMMERCIAL GRIDDLE**

#### **Requirements:**

- The commercial natural gas and electric griddle must meet ENERGY STAR® specifications for energy efficiency to qualify.

#### **Restrictions:**

- Double-sided griddles are not eligible.
- Used or rebuilt equipment are not eligible.

**Commercial Griddle Table**

Product Code	Description	Rebate/Unit
462971	Griddle: Electric	\$200.00/Linear Foot
462972	Griddle: Gas	\$100.00/Linear Foot
465296	Griddle: Electric - New	\$200.00/Linear Foot
465297	Griddle: Gas - New	\$100.00/Linear Foot

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### COMMERCIAL COMBINATION OVEN

#### Requirements:

- The commercial electric and natural gas combination oven must meet ENERGY STAR® specifications for energy efficiency to qualify.
- Must meet the tested efficiency requirements listed in the table below.

#### Efficiency Requirements

Type	Capacity (pans)	Cooking Energy Efficiency		Idle Energy Rate		Production Capacity (lb/hr)	
		Oven Mode	Steam Mode	Oven Mode	Steam Mode	Oven Mode	Steam Mode
Electric	< 15	≥ 70%	≥ 50%	2,000 W	5,000 W	100	120
	15-28			2,500 W	6,000 W	125	200
	> 28			4,000 W	9,000 W	325	400
Gas	< 15	≥ 44%	≥ 38%	8,000 Btu/hr	15,000 Btu/hr	100	120
	15-28			10,000 Btu/hr	18,000 Btu/hr	125	200
	> 28			16,000 Btu/hr	28,000 Btu/hr	325	400

#### Restrictions:

- Used or rebuilt equipment are not eligible.

#### Commercial Combination Oven Table

Product Code	Description and Required Efficiency	Rebate/Unit
463498	Combination Oven < 15 Pans: Electric	\$1,200.00/Oven
463499	Combination Oven 15-28 Pans: Electric	\$1,200.00/Oven
463500	Combination Oven > 28 Pans: Electric	\$3,500.00/Oven
463501	Combination Oven < 15 Pans: Gas	\$1,100.00/Oven
463502	Combination Oven 15 - 28 Pans: Gas	\$1,000.00/Oven
463503	Combination Oven > 28 Pans: Gas	\$2,000.00/Oven

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### COMMERCIAL ICE MACHINES

#### Requirements:

- Only air-cooled machines (self-contained, icemaker heads, or remote condensing) are eligible.
- To qualify the entire Air Conditioning, Heat and Refrigeration Institute (AHRI) tested ice-making system must be purchased. Remote machines must be purchased with qualifying remote condenser or remote condenser/compressor unit.
- Models must meet Energy Star Version 3.0 specifications listed below.

#### Restrictions:

- Used or rebuilt equipment are not eligible.
- Water-cooled ice machines do not qualify.

#### ENERGY STAR V3.0 Program Requirements for Batch Type Automatic Commercial Ice Makers

Equipment Type	Daily Ice Harvest Rate (lbs. ice/24 hrs.)	Maximum Daily Energy Use (kWh/100 lbs. ice)	Maximum Daily Potable Water Use Limit (gal/100 lbs. ice)
Ice Maker Head (IMH)	$H < 300$	$9.20 - 0.01134 \times H$	20
	$300 \leq H < 800$	$6.49 - 0.0023 \times H$	
	$800 \leq H \leq 1500$	$5.11 - 0.00058 \times H$	
	$1500 \leq H \leq 4000$	4.24	
Remote Condensing Unit (RCU)	$H < 988$	$7.17 - 0.00308 \times H$	20
	$988 \leq H \leq 4000$	4.13	
Self-Contained Unit (SCU)	$H < 110$	$12.57 - 0.0399 \times H$	25
	$110 \leq H < 200$	$10.56 - 0.0215 \times H$	
	$200 \leq H \leq 4000$	6.25	

#### ENERGY STAR V3.0 Program Requirements for Continuous Type Automatic Commercial Ice Makers

Equipment Type	Daily Ice Harvest Rate (lbs. ice/24 hrs.)	Maximum Daily Energy Use (kWh/100 lbs. ice)	Maximum Daily Potable Water Use Limit (gal/100 lbs. ice)
Ice Maker Head (IMH)	$H < 310$	$7.90 - 0.005409 \times H$	15
	$310 \leq H < 820$	$7.08 - 0.002752 \times H$	
	$820 \leq H \leq 4000$	4.82	
	$H < 800$	$7.76 - 0.00464 \times H$	
Remote Condensing Unit (RCU)	$800 \leq H \leq 4000$	4.05	15
	$H < 200$	$12.37 - 0.0261 \times H$	
Self-Contained Unit (SCU)	$200 \leq H < 700$	$8.24 - 0.005429 \times H$	15
	$700 \leq H \leq 4000$	4.44	
	$H < 310$	$7.90 - 0.005409 \times H$	



## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

Commercial Ice Machines Table

Product Code	Description (Ice Harvest Rate Capacity)	Rebate/Unit
464053	Ice Machine SCU < 110 lbs./day: New	\$50/Unit
464054	Ice Machine SCU < 110 lbs./day: Retrofit	
464055	Ice Machine SCU 110 – 200 lbs./day: New	\$150.00/Unit
464056	Ice Machine SCU 110 – 200 lbs./day: Retrofit	
464057	Ice Machine SCU > 200 lbs./day: New	\$200.00/Unit
464058	Ice Machine SCU > 200 lbs./day: Retrofit	
464059	Ice Machine IMH < 300 lbs./day: New	\$75/Unit
464060	Ice Machine IMH < 300 lbs./day: Retrofit	
464061	Ice Machine IMH 300 – 799 lbs./day: New	\$125.00/Unit
464062	Ice Machine IMH 300 – 799 lbs./day: Retrofit	
464063	Ice Machine IMH 800 – 1499 lbs./day: New	\$200.00/Unit
464064	Ice Machine IMH 800 – 1499 lbs./day: Retrofit	
464065	Ice Machine IMH > 1500 lbs./day: New	\$300/Unit
464066	Ice Machine IMH > 1500 lbs./day: Retrofit	
464067	Ice Machine RCU < 988 lbs./day: New	\$300/Unit
464068	Ice Machine RCU < 988 lbs./day: Retrofit	
464069	Ice Machine RCU ≥ 988 lbs./day: New	\$400.00/Unit
464070	Ice Machine RCU ≥ 988 lbs./day: Retrofit	

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### INSULATED HOT FOOD HOLDING CABINET

#### Requirements:

- Qualifying cabinets must not exceed the maximum idle energy rate of 25 W/ft<sup>3</sup> for full-size cabinets and 35 W/ft<sup>3</sup> for half-size cabinets, in accordance with the American Society for Testing and Materials (ASTM) Standard Test Method for the Performance of Hot Food Holding Cabinets (F2140).
- All measures must be electric hot food holding cabinets that are fully insulated (i.e., on all sides) and have solid or transparent doors designed to maintain the temperature of hot food that has been cooked using a separate appliance.

#### Restrictions:

- Used or rebuilt equipment are not eligible.
- Any cabinets considered in this measure must have an electric resistance heating element, passive holding cabinets with no heating elements are not eligible.
- This measure does not include cook-and-hold or retherm equipment

**Insulated Hot Food Holding Cabinet Table**

Product Code	Description and Required Efficiency	Rebate/Unit
464297	Hot Food Holding Cabinet-Half-Size ( $\geq 15$ cuft) - New	\$100.00/Each
464298	Hot Food Holding Cabinet-Full-Size ( $< 15$ cuft) - New	\$1,100.00/Each
464307	Hot Food Holding Cabinet-Half-Size ( $\geq 15$ cuft)	\$100.00/Each
464308	Hot Food Holding Cabinet-Full-Size ( $< 15$ cuft)	\$1,100.00/Each

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### UNDERCOUNTER DISHWASHER

#### Requirements:

- New commercial low- and high-temperature undercounter dishwashers that meet the efficiency requirements presented below:

Sanitization Temperature	Max. Water Consumption (GPR)	Max. Idle Energy Rate (kW)
High Temperature, Tier 1	0.86	0.50
High Temperature, Tier 2	0.73	0.43
Low Temperature, Tier 1	1.19	0.50
Low Temperature, Tier 2	1.01	0.43

#### Restrictions:

- Used or rebuilt equipment are not eligible.
- Other dishwasher types (conveyor, door-type, flight-type) are not eligible.

**Undercounter Dishwasher Table**

Product Code	Description and Required Efficiency	Rebate/Unit
467207	Undercounter Dishwasher, Hi Temp, Tier 1	\$100.00/Each
467208	Undercounter Dishwasher, Hi Temp, Tier 1 - New	
467213	Undercounter Dishwasher, Hi Temp, Tier 2	
467214	Undercounter Dishwasher, Hi Temp, Tier 2 - New	
467219	Undercounter Dishwasher, Lo Temp, Tier 1	
467220	Undercounter Dishwasher, Lo Temp, Tier 1 - New	\$820.00/Each
467225	Undercounter Dishwasher, Lo Temp, Tier 2	
467226	Undercounter Dishwasher, Lo Temp, Tier 2 - New	



## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### AUTOMATED CONVEYOR BROILER

#### Requirements:

- The replacement automatic conveyor broiler must have a catalyst and an input rate less than 80 kBTU/hr or a dual stage or modulating gas valve with a capability of throttling the input rate below 80 kBTU/hr.
- The existing broiler must be an automatic conveyor broiler than can maintain a temperature above 600 °F with a tested idle rate greater than:
  - 40 kBTU/hr for a belt narrower than 20"
  - 60 kBTU/hr for a belt between 20 and 26"
  - 70 kBTU/hr for a belt wider than 26"
- The conveyor broiler must be replaced by a conveyor broiler similar in size or smaller.
- Installation shall comply with all policies, codes and regulations within the SDG&E territory.

#### Restrictions:

- Used or rebuilt equipment are not eligible.

**Automated Conveyor Broiler Table**

Product Code	Description and Required Efficiency	Rebate/Unit
468145	Automatic Conveyor Broilers Belt Width <20"	\$1,200.00/Each
468147	Automatic Conveyor Broilers Belt Width <20" - New	\$1,500.00/Each
468149	Automatic Conveyor Broilers Belt Width 20-26"	\$1,200.00/Each
468151	Automatic Conveyor Broilers Belt Width 20-26" - New	\$1,200.00/Each
468153	Automatic Conveyor Broilers Belt Width <20"	\$1,200.00/Each
468155	Automatic Conveyor Broilers Belt Width <20" - New	\$1,800.00/Each

## REFRIGERATION PRODUCTS

### REFRIGERATION DISPLAY CASE WITH DOORS

#### **Requirements:**

- This measure is applicable for supermarkets and grocery stores with stand-alone and/or multiplex compressor racks that provide refrigeration to remote display cases and walk-in coolers/freezers. Additionally, they have both medium-temperature and low temperature open multi-deck refrigeration cases.
- 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 case door and frame heaters combined may not consume more than 50 W/ft of case length.
- The new case length must be less than or equal to the original case length.
- This measure is only for display cases served by a remote refrigeration system.

#### **Restrictions:**

- Specialty deli cases, custom coolers/freezers, and walk-in boxes with reach-in doors are not eligible.
- Refurbished cases are not eligible unless compliant with the 2012 Federal Efficiency Standards (see Code Requirements).
- Display case replacements that are part of large-scale store remodels and any new construction projects should be revised to be custom measures. Large-scale remodels are defined as any project involving 50% of the linear feet of refrigerated casework or 32 linear feet of casework replacements, whichever is less.

**Refrigeration Display Case with Doors Table**

Product Code	Description	Rebate/Unit
402152	Refrigeration Display Case with Doors: Low Temp	\$75.00/Linear Foot
402153	Refrigeration Display Case with Doors: Medium Temp	\$75.00/Linear Foot

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### HIGH EFFICIENCY ULTRA LOW TEMP FREEZERS

#### Requirements:

- Qualifying freezers must be listed on [Energy Star®](#) to be eligible, or the maximum daily energy consumption (MDEC) of an Ultra Low Temp freezer at -80 °C (-103 °F) is 0.55 kWh/day/ft<sup>3</sup>
- Volume must be  $\geq 15 \text{ ft}^3 \leq 29 \text{ ft}^3$ .
- Freezer must be capable of maintaining temperatures down between -70 °C and -80 °C (-94 °F and -112 °F)
- The rebate is only applicable for the existing building types: Education – University, Health/Medical – Hospital, Manufacturing – Biotech, and Manufacturing – Pharmaceuticals.

High Efficiency Ultra Low Freezers Table

Product Code	Description	Rebate/Unit
467204	High Efficiency Ultra Low Temp Freezer (15 to 24 ft. <sup>3</sup> )	\$300.00/Unit
467205	High Efficiency Ultra Low Temp Freezer (24 to 29 ft. <sup>3</sup> ): New	\$1,200.00/Unit
467206	High Efficiency Ultra Low Temp Freezer (24 to 29 ft. <sup>3</sup> ): Retrofit	\$1,300.00/Unit

## **NATURAL GAS REQUIREMENTS & DEFINITIONS**

The California Energy Commission (CEC) and/or Gas Appliance Manufacturers Association (GAMA) equipment efficiency listed ratings prevail over all submitted technical documentation, unless otherwise approved.

### **BUBBLE DIFFUSION**

A method of inserting ozone into water by continuously bubbling ozone directly into the sump of the washer throughout the wash cycle.

### **COMBUSTION EFFICIENCY (CE)**

100 times (1 - energy lost to flue) divided by input energy.

### **Cap-kBtuh**

1,000 Btuh.

### **THERMAL EFFICIENCY (TE)**

100 times useful energy output divided by input energy.

### **TOTAL WASHER CAPACITY**

Refers to rated capacity of installed and operating washing machine units that will be connected to the ozone laundry system(s).

### **VENTURI INJECTION**

A method of inserting ozone into water using very high pressure directly into the cold-water supply line leading to the washer.

## NATURAL GAS PRODUCTS

### OZONE LAUNDRY SYSTEM

#### **Requirements:**

- Customer must have a natural gas-fired boiler or natural gas water heater that supplies hot water to the on-premise laundry equipment.
- The washing capacity of each washing machine must be rated at 200 pounds or less.
- The ozone laundry system(s) must be a new purchased product and installed with a new or existing commercial washing machine(s) at a hotel/motel, health center, nursing home, or correctional facility.
- The ozone laundry system(s) must transfer ozone into the water with either the venturi injection or bubble diffusion process.
  - Venturi Injection: Ozone is injected into the cold-water supply line leading to the washer.
  - Bubble Diffusion: Ozone is continuously injected directly into the sump of the washer throughout each step of the wash cycle.
- Rebate is per pound of total onsite washer capacity.

#### **Restrictions:**

- Laundry systems equipped with tunnel washers are not eligible.
- Multifamily facilities do not qualify.

**Ozone Laundry System Table**

Product Code	Description	Rebate/Unit
402421	Ozone Laundry System	\$39.00/lb. Washing Machine Capacity

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### SMALL STORAGE WATER HEATER

#### Requirements:

- New energy efficient gas storage water heater must replace a standard efficiency gas storage water heater
- Only storage water heaters as defined by the California Energy Commission qualify:
  - Must be used primarily for domestic hot water
  - Have an input rating of less than 4,000 Btu per hour per gallon of stored water
- New water heater must also meet the efficiency requirements and input ratings as shown in the table below.

#### Restrictions:

- Water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas do not qualify.

Small Storage Water Heater Table

Product Code	Description	Required Efficiency	Input Rating	Rebate/Unit
465438	30 Gallon MedDraw Storage Water Heater: Retrofit	UEF $\geq$ 0.64	$\leq$ 75 kBTU/hr	\$2.00/ Cap-kBTUh
465440	40 Gallon MedDraw Storage Water Heater: Retrofit			
465441	40 Gallon HiDraw Storage Water Heater: Retrofit	UEF $\geq$ 0.68		
465442	50 Gallon MedDraw Storage Water Heater: Retrofit	UEF $\geq$ 0.64		
465443	50 Gallon HiDraw Storage Water Heater: Retrofit	UEF $\geq$ 0.68		



## **LARGE STORAGE WATER HEATER**

### **Requirements:**

- New energy efficient gas storage water heater must replace a standard efficiency gas storage water heater
- Only storage water heaters as defined by the California Energy Commission qualify:
  - Must be used primarily for domestic hot water
  - Have an input rating of less than 4,000 Btu per hour per gallon of stored water
- New water heater must also meet the efficiency requirements and input ratings as shown in the table below.

### **Restrictions:**

- Water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas do not qualify.

**Large Storage Water Heater Table**

Product Code	Description	Required Efficiency	Input Rating	Rebate/Unit
465474	Large Storage Water Heater – TE > 0.83	TE > 0.83 ≤ 0.90	> 75 kBtu/hr	\$2.00/ Cap-kBtuh
463333	Large Storage Water Heater – TE > 0.90	TE > 0.90		

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### LARGE INSTANTANEOUS (TANKLESS) WATER HEATER

#### Requirements:

- New energy efficient gas large instantaneous water heater must replace a standard efficiency gas water heater.
- Only large instantaneous water heaters as defined by the California Energy Commission qualify:
  - Be used primarily for domestic hot water
  - Provide hot water only when there is a hot water draw from the end use.
  - Have an input rating of at least 4,000 Btu/hr per gallon of stored water.
- Applicant must provide proof of the tankless nature of the water heater (e.g., manufacturer equipment specification sheets).
- Large instantaneous water heaters must meet efficiency requirements based on size shown in Table below.

#### Restrictions:

- Water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas do not qualify.
- Cannot be used to supply hot water to a circulation loop without an intermediary hot water storage tank.

**Instantaneous (Tankless) Water Heater Table**

Product Code	Description	Required Efficiency	Input Rating	Rebate/Unit
466583	Large Instantaneous Heaters, >200 kBtu/hr, 80% TE	TE ≥ 0.80	≥ 200 kBtu/hr	\$0.50/Cap-kBtuh
466585	Large Instantaneous Heaters, >200 kBtu/hr, 90% TE	TE ≥ 0.90		

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### PROCESS BOILER

#### Requirements:

- Rebate is available to all existing commercial, agriculture, and industrial (nonresidential) buildings. Additionally, industrial end-use customers who manufacture a sellable product (NAICS codes 31-33) qualify for the rebate.
- Boilers must meet efficiency requirements as shown in Table below.

#### Restrictions:

- Boilers primarily used for space heating, domestic hot water, pools, or spas, and is not eligible for domestic hot water or space heating do not qualify.
- New construction installations are not eligible.

**Process Boiler Table**

Product Code	Description	Input Rating	Required Efficiency	Rebate/Unit
466586	Process Boiler-Hot Water – 85% CE	< 200,000 kBtu/hr	CE ≥ 85%	\$0.50/Cap-kBtuh
466588	Process Boiler-Hot Water – 90% CE		CE ≥ 90%	
466590	Process Boiler-Steam-83% CE		CE ≥ 83%	\$4.00/Cap-kBtuh

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### GAS DRYER MODULATING VALVE

#### Requirements:

- A professional installer will be required for all installations of this product as the inlet natural gas line will have to be removed and reattached during installation.
- The natural gas dryer must not be modified by any technology that would reduce the natural gas consumption beyond the manufacturer specifications.
- The dryer must have an accessible gas valve assembly and room to install the modulating device in the unit and on the unit exhaust.
- The dryer must have a drum capacity ranging from 20 lbs. to 200 lbs.
- All applicants must have their dryers on site.
- Must have an SDG&E gas account.
- This measure will apply to the following building types: general commercial, hotels, motels, small retail, and nursing homes.

#### Restrictions:

- A dryer that makes use of a common or dedicated steam system is not eligible.
- This measure is not eligible for dryers with a capacity greater than 200 lbs. or less than 20 lbs.

**Gas Dryer Modulating Valve Table**

Product Code	Description	Rebate/Unit
466953	Gas Dryer Modulating Valve	\$250.00/Each

## PIPE/PIPE FITTING INSULATION PRODUCTS

### PIPE/PIPE FITTING INSULATION

#### Requirements:

- A minimum of one inch of pipe insulation must be added to an existing bare commercial or industrial steel or copper pipe or pipe fitting (elbows, tees, valves, unions, flanges, reducers, bushings, couplings, etc.).
- The pipe must have a minimum diameter of ½-inch and transfer hot water, low-pressure steam, or medium-pressure steam directly from gas-fired equipment, and the fluid type must be indicated. If the fluid is steam, the pressure of the steam must also be indicated.
- Acceptable types of insulation for hot water pipes include elastomeric foam rubber, polyethylene foam, UV-resistant polyethylene foam, and rigid polyurethane foam.
- Acceptable types of insulation for steam pipes include silicone foam rubber, melamine foam, rigid urethane-based foam, cellular glass, rigid fiberglass, and rigid mineral wool.

#### Data Collection Requirements:

- Length of insulation to be installed with each pipe size must be indicated on the application.
- Hours of operation must be indicated on the application.
- Manufacturer specification sheet must be submitted with the application.

#### Restrictions:

- Insulation required by California Building Energy Efficiency Standards (Title 24) or employee safety laws (Occupational Safety and Health Administration, OSHA) does not qualify.
- Replacement of damaged (existing) insulation does not qualify.
- New construction installations are not eligible.
- Residential installations are not eligible.

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

Pipe/Pipe Fitting Insulation Table

Product Code	Description	Rebate/Unit
466896	1" Pipe Insulation: Hot Water Pipe $\leq$ 1" diameter: Indoor	\$3.00/Linear Foot
466842	1" Pipe Insulation: Hot Water Pipe, $\leq$ 1" diameter: Outdoor	
466897	1" Pipe Insulation: Hot Water Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	
466843	1" Pipe Insulation: Hot Water Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466898	1" Pipe Insulation: Hot Water Pipe, $> 4"$ diameter: Indoor	
466844	1" Pipe Insulation: Hot Water Pipe, $> 4"$ diameter: Outdoor	
466923	1" Fitting Insulation: Hot Water Pipe $\leq$ 1" diameter: Indoor	\$7.00/Each
466869	1" Fitting Insulation: Hot Water Pipe $\leq$ 1" diameter: Outdoor	
466924	1" Fitting Insulation: Hot Water Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	\$10.00/Each
466870	1" Fitting Insulation: Hot Water Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466925	1" Fitting Insulation: Hot Water Pipe, $> 4"$ diameter: Indoor	\$12.00/Each
466871	1" Fitting Insulation: Hot Water Pipe, $> 4"$ diameter: Outdoor	
466899	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $\leq 1"$ diameter: Indoor	\$3.00/Linear Foot
466845	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $\leq 1"$ diameter: Outdoor	
466900	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	
466846	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466901	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $> 4"$ diameter: Indoor	
466847	1" Pipe Insulation: $\leq 15$ psig Steam Pipe, $> 4"$ diameter: Outdoor	
466902	1" Pipe Insulation: $> 15$ psig Steam Pipe, $\leq 1"$ diameter: Indoor	
466848	1" Pipe Insulation: $> 15$ psig Steam Pipe, $\leq 1"$ diameter: Outdoor	
466903	1" Pipe Insulation: $> 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	
466849	1" Pipe Insulation: $> 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466904	1" Pipe Insulation: $> 15$ psig Steam Pipe, $> 4"$ diameter: Indoor	\$12.00/Each
466850	1" Pipe Insulation: $> 15$ psig Steam Pipe, $> 4"$ diameter: Outdoor	
466926	1" Fitting Insulation: $\leq 15$ psig Steam Pipe $\leq 1"$ diameter: Indoor	\$15.00/Each
466872	1" Fitting Insulation: $\leq 15$ psig Steam Pipe $\leq 1"$ diameter: Outdoor	
466927	1" Fitting Insulation: $\leq 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	\$30.00/Each
466873	1" Fitting Insulation: $\leq 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466928	1" Fitting Insulation: $\leq 15$ psig Steam Pipe, $> 4"$ diameter: Indoor	\$12.00/Each
466874	1" Fitting Insulation: $\leq 15$ psig Steam Pipe, $> 4"$ diameter: Outdoor	
466929	1" Fitting Insulation: $> 15$ psig Steam Pipe $\leq 1"$ diameter: Indoor	\$15.00/Each
466875	1" Fitting Insulation: $> 15$ psig Steam Pipe $\leq 1"$ diameter: Outdoor	
466930	1" Fitting Insulation: $> 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Indoor	\$30.00/Each
466876	1" Fitting Insulation: $> 15$ psig Steam Pipe, $> 1"$ , $\leq 4"$ diameter: Outdoor	
466931	1" Fitting Insulation: $> 15$ psig Steam Pipe, $> 4"$ diameter: Indoor	
466877	1" Fitting Insulation: $> 15$ psig Steam Pipe, $> 4"$ diameter: Outdoor	



## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

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### HVAC REQUIREMENTS & DEFINITIONS

- Some of the products require a pre-inspection. Applicant must submit an online application at [sdge.com/NLRebates](https://sdge.com/NLRebates) to schedule a pre-inspection.

#### AFUE

Annual Fuel Utilization Efficiency

#### ADEC

Advanced Digital Economizer Controller

#### Cap-kBtuh

1,000 Btuh

#### DX

Direct expansion

#### NEMA

National Electrical Manufacturers Associations

#### Single Zone

The system is controlled by a single thermostat and does not employ zone dampers, bypass dampers, or any other means of air volume control required for multiple spaces.

#### PMM

Permanent Magnet Motor

#### VFD

Variable Frequency Drive

#### VSD

Variable Speed Drive

## HVAC PRODUCTS

### ENHANCED VENTILATION FOR PACKAGED HVAC

#### Requirements:

- **Pre-inspection and post-inspection required!** Applicant must submit an online application at [sdge.com/NLRebates](https://sdge.com/NLRebates) to schedule a pre-inspection.
- Must submit commissioning report with application.
- Field documentation of the existing conditions that verify the product was necessary and that the product was successfully applied.
- This measure must replace existing equipment with the addition of controls for existing units.
- Contractors and technicians that implement these products must ensure that the existing unit does not already have these products.
- Implementation requires proper setup of the damper limits and fan speeds in order to provide ventilation in accordance with Title 24 2016. Total unit airflow must be verified for at least one of the fan speeds. The percentage of outdoor air must be verified for each of the unit operating modes, including heating and cooling for each stage as well as the ventilation only mode.

Terms and conditions are noted below. Other terms and conditions are set by individual programs.

- The existing system must be packaged single zone DX cooling unit with gas heat, cooling only unit, or heat pump.
- The existing system must have a constant volume supply fan.
- The existing system must have an operable airside economizer installed, and economizer high limit must be optimized for the climate per Title 24 2016 Table 140.4-B, adapted below in Table 1 for reference.
- Maintenance, and repairs to economizer should be completed prior to or in conjunction with this measure.

**Table 1: Economizer High Limit Shut Off Control Requirements**

Device Type	Climate Zones	Economizer High Limit Equation
Fixed Dry Bulb	1, 3, 5, 11-16	Toa > 75 ° F
	2, 4, 10	Toa > 73 ° F
	6, 8, 9	Toa > 71 ° F
	7	Toa > 69 ° F
Differential Dry Bulb	1, 3, 5, 11-16	Toa > Tra ° F
	2, 4, 10	Toa > Tra -2° F
	6, 8, 9	Toa > Tra -4° F
	7	Toa > Tra -6° F
Fixed Enthalpy + Fixed Dry Bulb	All	Hoa > 28Btu/lb or Toa > 75 °F

#### Restrictions:

- The UES values for this product are not appropriate for normal replacement or new construction applications.
- This product does not apply if the rooftop unit (RTU) has a fully operational and/or non-snapdisc sensor and is adjusted to the appropriate changeover setpoint based on the number of thermostat stages available for cooling.
- This product does not apply if the unoccupied supply fan operation is already set to “Auto” or intermittent

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### Enhanced Ventilation for Packaged HVAC Table

Product Code	Description	Rebate/Unit
463783	New VFD on existing AC unit with NG heating and ADEC	\$55.00/Cap-Tons
463784	New VFD and NEMA motor on existing AC unit with NG heating (and ADEC)	\$86.00/Cap-Tons
463785	New VFD and PM motor on existing AC unit with NG heating (and ADEC)	\$91.00/Cap-Tons
463786	New VFD on existing AC unit (no NG heating) and ADEC	\$55.00/Cap-Tons
463787	New VFD and NEMA motor on existing AC unit (no NG heating)	\$86.00/Cap-Tons
463788	New VFD and PM motor on existing AC unit (no NG heating)	\$91.00/Cap-Tons
463789	New VFD on existing Heat Pump unit	\$55.00/Cap-Tons
463790	New VFD and NEMA motor on existing Heat Pump unit with ADEC	\$86.00/Cap-Tons
463791	New VFD and PM motor on existing Heat Pump unit and ADEC	\$91.00/Cap-Tons
463792	New VFD and ADEC on existing AC unit w/ NG heating	\$95.00/Cap-Tons
463793	New VFD, NEMA motor, and ADEC on existing AC unit w/ NG heating	\$126.00/Cap-Tons
463794	New VFD, PM motor, and ADEC on existing AC unit w/ NG heating	\$131.00/Cap-Tons
463795	New VFD and ADEC on existing AC unit only	\$95.00/Cap-Tons
463796	New VFD, NEMA motor, and ADEC on existing AC unit only	\$126.00/Cap-Tons
463797	New VFD, PM motor, and ADEC on existing AC unit only	\$131.00/Cap-Tons
463798	New VFD and ADEC on existing Heat Pump unit	\$95.00/Cap-Tons
463799	New VFD, NEMA motor, and ADEC on existing Heat Pump unit	\$126.00/Cap-Tons
463800	New VFD, PM motor, and ADEC on existing Heat Pump unit	\$131.00/Cap-Tons
467104	HVAC ENHANCED VENT GAS HEAT, including adding ADEC, CO2 sensor, VFD to units with Gas Heat	\$127.00/Cap-Tons
467106	HVAC ENHANCED VENT NEMA GAS HEAT, including adding ADEC, CO2 sensor, VFD, NEMA motor to units with Gas Heat	\$159.00/Cap-Tons
467108	HVAC ENHANCED VENT PMM GAS HEAT, including adding ADEC, CO2 sensor, VFD, PMM motor to units with Gas Heat	\$164.00/Cap-Tons
467110	HVAC ENHANCED VENT HEAT PUMP, including adding ADEC, CO2 sensor, VFD to Heat	\$127.00/Cap-Tons
467112	HVAC ENHANCED VENT NEMA HEAT PUMP, including Adding ADEC, CO2 sensor, VFD, NEMA motor to Heat Pump	\$159.00/Cap-Tons
467114	HVAC ENHANCED VENT PMM HEAT PUMP, including Adding ADEC, CO2 sensor, VFD, PMM motor to Heat Pump	\$164.00/Cap-Tons

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### SUPPLY FAN CONTROLS

#### Requirements:

- **Pre-inspection and post-inspection required!** Applicant must submit an online application at [sdge.com/NLRebates](https://sdge.com/NLRebates) to schedule a pre-inspection.
- Must submit commissioning report with application.
- This product requires field documentation of the existing conditions that verify the product was necessary and that the product was successfully applied.
- Additional technician verification of thermostat wiring and the number of cooling stages that should be performed to ensure that the first stage of cooling is dedicated to economizer operation and two-stage thermostat operation is enabled where possible.
- The controller changeover setpoint should be adjusted appropriately based on the available number of thermostat cooling stages.
- Contractors and technicians that implement the measure must meet all certification and training requirements in accordance with industry standard practices.
- Contractors and technicians that implement this product must ensure that the existing unit does not already have the supply fan in automatic mode or switched OFF during unoccupied periods.

#### Restrictions:

- This product does not apply if the rooftop unit (RTU) has a fully operational and/or non-snapdisc sensor and is adjusted to the appropriate changeover setpoint based on the number of thermostat stages available for cooling.
- This product does not apply if the unoccupied supply fan operation is already set to “Auto” or intermittent.

Supply Fan Controls Table

Product Code	Description	Rebate/Unit
467718	Unoccupied Fan Control, AC Only Unit	\$3.00/Cap-Tons
467720	Unoccupied Fan Control, AC Unit with Gas Heat	\$3.00/Cap-Tons
467722	Unoccupied Fan Control, Heat Pump	\$3.00/Cap-Tons
467724	Unoccupied Fan Control, Variable Volume AC Unit with Gas Heat	\$3.00/Cap-Tons

## CLASSROOM HVAC OCCUPANCY SENSOR

### Requirements:

- **Pre-inspection required!** Applicant must submit an online application at [sdge.com/NLRebates](https://sdge.com/NLRebates) to schedule a pre-inspection.
- Must submit commissioning report with application.
- Requires installation of an HVAC occupancy sensing thermostat in the classroom. This control equipment includes, but is not limited to:
  - An occupancy sensing thermostat
    - The thermostat must have an unoccupied setback temperature control during closed hours
    - The thermostat must be able to revert to the unoccupied setback temperatures when there no occupancy sensed for a predetermined duration
  - An occupancy sensor (wired or wireless)
  - Wiring (if wired)
  - Signal receiver and power pack (if wireless)
- This product is only applicable for classrooms in education re-locatable classroom (ERC).

### Restrictions:

- This product is not applicable for education community colleges and education universities, unless these buildings have relocatable classrooms with packaged HVAC units.

Classroom HVAC Occupancy Sensor Table

Product Code	Description	Rebate/Unit
467951	Classroom HVAC Occupancy Sensor, Heat Pump, ERC	\$13.00/Cap-Tons

## 2021 Energy Efficiency Business Rebates Product Catalog Public Customers

### SPACE HEATING BOILER

#### Requirements:

- Must submit commissioning report with application.
- Manufacturer Specification Sheet that lists the boiler type, input rating, and efficiency rating must be submitted with the enrollment.
- The boiler must be used for space heating to induce human comfort, as defined by the California Appliance Efficiency Regulations (Title 20) and Building Energy Efficiency Standards (Title 24).
- The installation address must have an active SDG&E gas account.
- The boiler must meet the efficiency requirements in the table listed below:

Boiler Type	Rated Input (MBTUh)	Tier 1		Tier 2	
		Measure Efficiency	OA Reset Control	Measure Efficiency	OA Reset Control
Hot Water	300 – 2,500	85% TE	140-165 °F	94% TE	115-165 °F or 140-165 °F
	≥ 2,500	83% TE 85% CE	140-165 °F	94% TE	115-165 °F or 140-165 °F
Steam	300 – 2,500	82% TE	140-165 °F	-	
	≥ 2,500	80% TE	140-165 °F	82% TE	140-165 °F

Space Heating Boiler Table

Product Code	Description	Rebate/Unit
467802	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F)	\$3.00/Cap-kBTUUh
467817	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F)	\$2.00/Cap-kBTUUh
467886	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 85.0 Et, OA Reset from 140 to 165 F) - New	\$8.00/Cap-kBTUUh
467892	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 140 to 165 F) - New	\$3.00/Cap-kBTUUh
467895	Space Heating Boiler, Hot water boiler (300 - 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F) - New	\$3.00/Cap-kBTUUh
467901	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 83.0 Et, 85.0Ec, OA Reset from 140 to 165 F) - New	\$4.00/Cap-kBTUUh
467907	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 140 to 165 F) - New	\$2.00/Cap-kBTUUh



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467910	Space Heating Boiler, Hot water boiler (> 2500 kBtuh, 94.0 Et, condensing, OA reset from 115 to 140 F) - New	\$2.00/Cap-kBTUh
467916	Space Heating Boiler, Steam boiler (300 - 2500 kBtuh, 82.0 Et, OA Reset from 140 to 165 F) - New	\$12.00/Cap-kBTUh
467919	Space Heating Boiler, Steam boiler (> 2500 kBtuh, 80.0 Et, OA Reset from 140 to 165 F) - New	\$1.00/Cap-kBTUh
467922	Space Heating Boiler, Steam boiler (> 2500 kBtuh, 82.0 Et, OA Reset from 140 to 165 F) - New	\$2.00/Cap-kBTUh

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### VARIABLE SPEED DRIVE FOR HVAC FAN CONTROLS

#### Requirements:

- **Pre-inspection and post-inspection required!** Applicant must submit an online application at [sdge.com/NLRebates](https://sdge.com/NLRebates) to schedule a pre-inspection.
- Must submit commissioning report with application.
- This product requires the installation of a variable frequency drive and associated controls on a motor driving a ventilation fan. Eligibility requirements include:
  - The fan must be  $\leq 100$  hp
  - As an add-on equipment installation, the drive must be applied to the existing HVAC supply or return air system.
  - Any other throttling devices, such as inlet vanes or bypass dampers, and throttling valves, must be removed or permanently disable.

Eligible Building Types	
Education – Secondary School	Lodging – Hotel
Education – Community College	Office – Large
Education – University	Retail – Multistory Large
Health/Medical – Hospital	Grocery – Grocery
Health/Medical – Nursing Home	

#### Restrictions:

- Fans of size  $> 100$  hp are not eligible.
- Replacement of multiple-speed or variable speed motors (VSM) are not eligible.
- Variable frequency drives on cooling tower fans are not eligible.

VSD for HVAC Fan Controls Table

Product Code	Description	Rebate/Unit
467838	VSD on HVAC Fan Control	\$101.00/Rated-HP



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### COGGED V-BELT FOR HVAC FAN

#### Requirements:

- Must submit manufacturer specification sheet with application.
- A cogged V-belt can be installed on supply air and return air fans in rooftop units that do not already have a cogged V-belt.
- Only “A” and “B” V-belts are applicable for this rebate:
  - “A” belt is  $\frac{1}{2}$  inch wide and  $\frac{5}{16}$  inch thick
  - “B” belt is  $\frac{21}{32}$  inch wide and  $\frac{12}{32}$  inch thick

Eligible Building Types	
Assembly	Manufacturing – Lighting Industrial
Education – Community College	Office – Large
Education – Primary School	Office – Small
Education – Secondary School	Restaurant – Fast Food
Education – University	Restaurant – Sit Down
Education – Relocatable Classroom	Retail – Multistory Large
Health/Medical – Hospital	Retail – Single-Story Large
Health/Medical – Nursing Home	Retail – Small
Lodging – Hotel	Storage - Conditioned
Lodging – Motel	Grocery – Grocery
Manufacturing – Bio/Tech	

#### Restrictions:

- This product is not applicable if the rooftop unit already has cogged V-belts.

Cogged V-Belt for HVAC Table

Product Code	Description	Rebate/Unit
467876	Cogged V-Belt for HVAC Fans	\$0.25/Cap-Tons
467879	Cogged V-Belt for HVAC Fans - New	\$0.25/Cap-Tons



## ***2021 Energy Efficiency Business Rebates Product Catalog Public Customers***

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