

Energy Efficiency Business Rebates Natural Gas Catalog

Natural Gas Products					
Solution	Product Code	Product Description	Units	\$/Unit	Page #
Storage Water Heater	G-A1	Storage Water Heater	MBtuh	\$2.00	3
Space Heating Boiler	G-B1	Space Heating Boiler (Steam)		\$0.25	3
	G-B2	Space Heating Boiler (Water)		\$0.25	
	G-B3	Space Heating Boiler (Large)		\$0.50	
Commercial Boiler	G-C1	Commercial Boiler		\$0.50	4
Instantaneous Water Heater	G-D1	Instantaneous Water Heater, Small (less than or equal to 200 MBtuh)		\$2.00	4
	G-D2	Instantaneous Water Heater, Large (greater than 200 MBtuh)		\$0.50	
Process Boiler	G-E1	Process Boiler (Steam)		\$0.50	5
	G-E2	Process Boiler (Water)		\$0.50	
Direct Contact Water Heater	G-G1	Direct Contact Water Heater, greater than 300 MBtuh		\$2.00	6
	G-G2	Direct Contact Water Heater, less than or equal to 300 MBtuh	\$2.00		
Pipe Insulation	G-H11	Pipe Insulation Low Pressure (less than or equal to 15 psi) Steam Application less than 1 in	Linear Foot	\$3.00	6
	G-H21	Pipe Insulation Low Pressure (less than or equal to 15 psi) Steam Application greater than 1 in		\$3.00	
	G-H31	Pipe Insulation Hot Water Application less than 1 in		\$3.00	
	G-H41	Pipe Insulation Hot Water Application greater than or equal 1 in		\$3.00	
	G-H51	Pipe Insulation Medium Pressure (greater than 15 psi) Steam Application less than 1 in		\$4.00	
	G-H61	Pipe Insulation Medium Pressure (greater than 15 psi) Steam Application greater than or equal to 1 in		\$4.00	
	G-H71	Pipe Insulation High Pressure (greater than or equal to psi) Dry Cleaner Steam Application greater than or equal to 1 in		\$4.00	
Tank Insulation	G-I1	Tank Insulation High Temperature Application 1 in	Square Foot	\$3.00	7
	G-I2	Tank Insulation High Temperature Application 2 in		\$4.00	
	G-I3	Tank Insulation Low Temperature Application 1 in		\$2.00	
	G-I4	Tank Insulation Low Temperature Application 2 in		\$3.00	
Residential Clothes Washer	G-J1	High Efficiency Clothes Washer, CEE Tier 2 and 3A Models	Unit	\$35.00	7
	G-J2	High Efficiency Clothes Washer, CEE Tier 3B Models		\$75.00	
Steam Trap	G-M1	Steam Trap Replacement, Large Commercial operating system 12-24 hrs./day Dry cleaners, Agricultural and Industrial accounts excluded		\$115.00	8
Ozone Laundry	G-N11	Ozone Laundry System	lb.	\$39.00	8

GENERAL REQUIREMENTS

- Customer must have a SDG&E commercial gas account if applying for a gas measure
- Everything must be installed and operational before a rebate application is submitted
- All rebates apply toward the purchase of new or replacement energy-efficient equipment, unless otherwise indicated. Used or rebuilt equipment is not eligible
- If you are uncertain whether equipment qualifies, contact a utility representative.
- 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

DEFINITIONS:

Annual Fuel Utilization Efficiency (AFUE)

Is the ratio of annual output energy to annual input energy

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

MBtuh

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

Storage Water Heater

Requirements:

- Water heaters must meet efficiency requirements based on size, as shown in Table below. Equipment used for pools and spas does not qualify
- If the size and efficiency are not shown on the invoice, you must include a manufacturer’s specification sheet documenting these characteristics

Storage Water Heater Efficiency Requirements Table

Input Rating	Required Efficiency
Less than or equal to 75,000 Btuh	Energy Factor greater than or equal to 67%
Greater than 75,000 Btuh	Thermal Efficiency greater than or equal to 84%

Storage Water Heater Table

Product Code	Description	Rebate/Unit
G-A1	Storage Water Heater	\$2.00/MBtuh

Space Heating Boiler

Requirements:

- Boilers must meet efficiency requirements based on size and type as shown in Table below, Include a manufacturer’s specification sheet documenting these characteristics. Equipment used for pools and spas does not qualify
- Boiler must be used for space heating for human comfort as defined by California Titles 20 & 24 standards
- In order to comply with SB 454, Must use a licensed contractor, as appropriate, and follow applicable permitting requirements for this installation. Ensure you have completed both the customer certification and the contractor certification in section 10 of the Energy Efficiency Business application for this HVAC related product

Space Heating Boiler Table

Product Code	Type	Input Rating	Required Efficiency	Rebate/Unit
G-B1	Steam	Less than 300 MBtuh	Greater than or equal to 82% AFUE	\$0.25/MBtuh
G-B2	Small Water	Less than 300 MBtuh	Greater than or equal to 84% AFUE	\$0.25/MBtuh
G-B3	Large	Greater than or equal to 300 MBtuh	Greater than or equal to 85% Combustion Efficiency	\$0.50/MBtuh

Commercial Boiler (non-Space Conditioning/non-Process Related)

Requirements:

- Only boilers > 75,000 Btuh qualify
- Must meet a minimum thermal efficiency of 84%
- Must Include a manufacturer’s specification sheet documenting these characteristics

Exclusions:

- Boiler must not be used for space conditioning for human comfort
- Boiler must not be used for industrial (process) end-use
- Equipment used for pools and spas does not qualify
- Industrial customers do not qualify

Commercial Boiler (non-Space Conditioning/non-Process Related) Table

Product Code	Description	Rebate/Unit
G-C1	Commercial Boiler	\$0.50/MBtuh

Instantaneous (Tankless) Water Heater

Requirements:

- Water heaters must meet efficiency requirements based on size shown in Table below
- Only instantaneous water heaters (as defined by the California Energy Commission Title 20 & 24 standards) used for non-process hot water applications qualifies
- The manufacturer name and equipment model number must be provided
- Must provide proof of the tankless nature of the water heater (e.g., manufacturer equipment specification sheets)

Instantaneous (Tankless) Water Heater Table

Product Code	Description	Technical & Size Requirements	Rebate/Unit
G-D1	Small Instantaneous Hot Water Heater	Less than or equal to 200 MBtuh Energy Factor greater than or equal to 82%	\$2.00/MBtuh
G-D2	Large Instantaneous Hot Water Heater	Greater than 200 MBtuh Thermal Efficiency greater than or equal to 82%	\$0.50/MBtuh

Process Boiler

Manufacturing - involves the mechanical or chemical transformation of materials or substances into a new product which is neither a structure nor any other fixed improvement.

Requirements:

- Available to industrial end-use customers who manufacture a sellable product only (NAICS codes 31-33). Boilers primarily used for domestic hot water, space conditioning, pool or spa use do not qualify
- Boilers must meet efficiency requirements as shown in Table below
- The manufacturer name and equipment model number must be provided
- A flue gas analysis measured under full load conditions is required to document combustion efficiency after installation is complete

Process Boiler Table

Product Code	Description	Sub Category	Size Category (input)	Minimum Efficiency ^{b,c}	Rebate/Unit
G-E1	Steam Process Boiler	Gas-Fired	<300,000 Btu/h	82% AFUE	\$0.50/MBtuh
			≥ 300,000 Btu/h and ≤ 2,500,000 Btu/h ^d	80% E_t	
			>2,500,000 Btu/h ^e	82% E_c	
G-E2	Water Process Boiler	Gas-Fired	<300,000 Btu/h	80% AFUE	\$0.50/MBtuh
		Gas-Fired all, except natural draft	≥ 300,000 Btu/h and ≤ 2,500,000 Btu/h ^d	79% E_t	
			>2,500,000 Btu/h ^e	79% E_t	
		Gas-Fired, natural draft	≥ 300,000 Btu/h and ≤ 2,500,000 Btu/h ^d	77% E_t	
			>2,500,000 Btu/h ^e	77% E_t	

Direct Contact Water Heater

In direct contact water heater system designs, heat from a flame comes into direct contact with small droplets of cold water which run through a stainless steel heat exchange media

Requirements:

- Only direct contact water heaters for process end-uses qualify (NAICS codes 31-33). Water heater primarily used for domestic hot water, space conditioning, pool or spa use do not qualify
- Boilers must meet efficiency requirements as shown in Table below

Direct Contact Water Heater Table

Product Code	Required Efficiency	Rebate/Unit
G-G1	Greater than 300 MBtuh Greater than or equal to 90% Thermal Efficiency	\$2.00/MBtuh
G-G2	Less than or equal to 300 MBtuh Greater than or equal to 88% AFUE	\$2.00/MBtuh

Pipe Insulation (Non-space Conditioning)

Requirements:

- 1" or 2" of fiberglass, foam, or calcium silicate insulation must be added to existing nonresidential bare pipe systems which transfer fluid directly from gas-fired equipment
- The bare pipe diameter must be at least 1/2 inch
- Minimum insulation must be 1" to qualify
- Must submit manufacturer's name and insulation material type
- Must also provide proof of insulating values (e.g. Manufacturer's specification sheets)

Exclusions:

- New pipe system replacement does not qualify
- Fuel switching application does not qualify

Pipe Insulation (Non-Space Conditioning) Table

Product Code	Description & Technical Requirements	Rebate/Unit
G-H1	Pipe diameter less than 1"; Low pressure (less than or equal to 15 psi) Steam	\$3.00/Linear Foot
G-H21	Pipe diameter more than or equal to 1"; Low pressure (less than or equal to 15 psi) Steam	\$3.00/Linear Foot
G-H31	Pipe diameter less than 1"; Hot Water	\$3.00/Linear Foot
G-H41	Pipe diameter greater than or equal to 1"; Hot Water	\$3.00/Linear Foot
G-H51	Pipe diameter less than 1"; Medium pressure (greater than 15 psi) Steam	\$4.00/Linear Foot
G-H61	Pipe diameter greater than or equal to 1"; Medium pressure (greater than 15 psi) Steam	\$4.00/Linear Foot
G-H71	Pipe diameter greater than or equal to 1"; High pressure (greater than or equal to 15 psi) Steam (FOR CLEANER APPLICATION USE ONLY NAICS CODE 812320)	\$4.00/Linear Foot

Tank Insulation

High temperature application: 170 – 200 degrees F solution; Low temperature application: 120 – 170 degrees F solution

Requirements:

- 1” or 2” of fiber glass or foam insulation must be added to existing bare liquid or solution storage or transfer tanks
- Tanks must be coupled to gas-fired commercial or industrial equipment that transfers heat to the liquid or solution
- Must provide the manufacturer’s name and insulation material type

Tank Insulation Table

Product Code	Description & Technical Requirements	Rebate/Unit
G-I1	Tank Insulation High Temperature (171 to 200 degrees F solution) 1" thick	\$3.00/square Foot
G-I2	Tank Insulation High Temperature (171 to 200 degrees F solution) 2" thick	\$4.00/square Foot
G-I3	Tank Insulation Low Temperature (120 to 170 degrees F solution) 1" thick	\$2.00/square foot
G-I4	Tank Insulation Low Temperature (120 to 170 degrees F solution) 2" thick	\$3.00/square Foot

Residential High Efficiency Clothes-washer

Modified Energy Factor (MEF) - measures energy consumption of the total laundry cycle (washing and drying). It indicates how many cubic feet of laundry can be washed and dried with one kWh of electricity; the higher the number, the greater the efficiency.

Water Factor (WF) - represents the number of gallons of water needed for each cubic foot of laundry. The lower number indicates lower consumption and more efficient use of water.

Requirements:

- Rebate is for a high-efficiency residential washer used at a business for onsite/in-house laundry. Commercial coin operated equipment does not qualify
- Must have either natural gas or electricity distributed to the installation address by SDG&E
- Qualifying clothes washers must have specific Modified Energy Factors (MEF) and Water Factors (WF) based on levels listed below
- Qualifying Level 1 residential clothes washers may be viewed at <http://www.cee1.org/resid/seha/rwsh/rwsh-prod.pdf>, Tier 2 and 3A
- Qualifying Level 2 residential clothes washers may be viewed at <http://www.cee1.org/resid/seha/rwsh/rwsh-prod.pdf>, Tier 3B

Residential High Efficiency Clothes Washer Table

Product Code	Description & Technical Requirements	Rebate/Unit
G-J1	High Efficiency Clothes Washer, CEE Tier 2 and 3A models only MEF of 2.0 or greater and a WF of 6.0 or less	\$35.00/Unit
G-I2	High Efficiency Clothes Washer, CEE Tier 3B models only MEF of 2.2 or greater and a WF of 4.5 or less	\$75.00/Unit

Steam Traps

Requirements:

- Must be a commercial facility that operates 12 hours or more.
- New construction is not eligible
- Steam traps must replace one-to-one an existing failed or older steam traps that have been in service for a minimum of five years
- For each steam trap being replaced must provide steam trap manufacturer, model number, specification sheet, paid purchase receipt with tax and proof of shipping
- Must provide operating pressure of steam system, and construction style (mechanical, thermostatic, or thermodynamic)
- May be asked to verify the location of the replaced steam trap(s) in steam loop

Steam Traps Table

Product Code	Description & Technical Requirements	Rebate/Unit
G-M1	Large Commercial operating system 12-24 hrs./day Dry cleaners excluded Not available for Industrial and Agricultural Applications.	\$115.00/Unit

Ozone Laundry System

Requirements:

- Must have a natural gas-fired boiler or natural gas water heater that supplies hot water to the on-premise laundry equipment
- This incentive only applies to hotels/motels with fewer than 250 guest rooms OR fitness and recreational sports centers that have on-premise laundry operations
- The ozone laundry system(s) must be a new purchased product and added-on to a new or existing commercial washing machine(s)
- The ozone laundry system(s) must transfer ozone into the water through Venturi Injection OR Bubble Diffusion.
- For hotel customers: The total number of guest rooms must be provided on the invoice
- Include a manufacturer's specification sheet documenting manufacturer name, equipment model, and ozone laundry system's serial number(s)
- Must provide total washer capacity in pounds for operating washer units with ozone laundry system(s) connected

Additional Details:

- Hotels/motels with 250 guest rooms or more and other types of facilities may be considered under our Energy Efficiency Business Incentives

Ozone Laundry System Table

Product Code	Description	Rebate/Unit
G-N1	Ozone Laundry System	\$39.00/lb. Washing Machine Capacity (Connected to Ozone Laundry System)

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