



## 2009 REBATE PROGRAM AC Rebate Matrix

Use to calculate rebates for HVAC systems for business customers.  
Total installed must be over 5 tons.

### Rebates for the installation of new systems

Determine efficiency from the table below.

\$65 /Ton for Step 1 efficiency  
\$150 /Ton for Step 2 efficiency

### Sizing and Efficiency Matrix for CPS Commercial Rebate Program

Steps based on minimum efficiencies listed in AHRAE 90.1-2001 Table 6.2.1A, Table 6.2.1B, Table 6.2.1D and Table 6.2.1C

#### Unitary Air Conditioners and Condensing Units, Electrically Operated

Proposed numbers

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION		Step 1	Step 2
Air Conditioners, Air Cooled - Single Phase	LESS THAN 5.4 TONS	Split System	SEER	15.0	16.0
		Single Package	SEER	15.0	16.0
Air Conditioners, Air Cooled - Three Phase	LESS THAN 5.4 TONS	Split System	SEER	15.0	16.0
		Single Package	SEER	13.8	14.8
	5.4 TO 11.25 TONS	All	EER	11.0	11.3
	11.26 TO 20 TONS	All	EER	10.8	11.5
	20.1 TO 63.33 TONS	All	EER	11.0	12.0
			IPLV	11.5	12.5
	63.34 AND GREATER TONS	All	EER	11.0	12.0
			IPLV	11.4	12.4
Air Conditioners, Water and Evaporatively Cooled	LESS THAN 5.4 TONS	All	EER	13.7	14.5
	5.4 TO 11.25 TONS	All	EER	13.5	14.5

	<b>11.26 TO 20 TONS</b>	All	EER	13.0	14.0
	<b>20.1 TONS AND GREATER</b>	All	EER IPLV	13.0 15.0	14.0 16.0

### Unitary and Applied Heat Pumps, Electrically Operated

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION		Step 1	Step 2
		Air cooled (Cooling mode)	<b>LESS THAN 5.4 TONS</b>	Split System	SEER
	Single Package	SEER		13.0	14.0
	<b>5.4 TO 11.25 TONS</b>	All	EER	11.2	11.7
	<b>11.26 TO 20 TONS</b>	All	EER	10.7	11.5
	<b>20.1 TO 63.33 TONS</b>	All	EER	10.7	11.2
			IPLV	10.9	11.4
Water source (Cooling mode)	<b>&lt; 1.41 TONS</b>	86° F entering water	EER	12.6	13.3
	<b>≥ 1.41 TONS and &lt; 11.25 TONS</b>	86° F entering water	EER	13.6	14.4
Groundwater source (Cooling mode)	<b>&lt; 11.26 TONS</b>	59° F entering water	EER	18.2	19.2
Ground source (Cooling mode)	<b>&lt; 11.25 TONS</b>	77° F entering water	EER	15.4	16.4
Air cooled (Heating mode)	<b>&lt; 5.4 TONS (Cooling capacity)</b>	Split System	HSPF	8.8	9.8
		Single Package	HSPF	8.6	9.6
	<b>≥ 5.4 TONS &lt; 11.25 TONS (Cooling capacity)</b>	47° F db/43° F wb outdoor air	COP	5.2	6.2
	<b>≥ 11.25 TONS (Cooling capacity)</b>	47° F db/43° F wb outdoor air	COP	4.1	4.6
Water source (Heating mode)	<b>&lt; 11.25 TONS (Cooling capacity)</b>	68° F entering water	COP	5.2	5.7
Groundwater source (Heating mode)	<b>&lt; 11.25 TONS (Cooling capacity)</b>	50° F entering water	COP	4.6	5.1
Ground source (Heating mode)	<b>&lt; 11.25 TONS (Cooling capacity)</b>	32° F entering water	COP	4.1	4.6

**Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps, Electrically Operated**

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION		Step 1	Step 2
PTAC (Cooling mode) New construction	All Capacities	95° F db outdoor air	EER	11.5	12.5
PTAC (Cooling mode) Replacements <sup>a</sup>	All Capacities	95° F db outdoor air	EER	11.5	12.5
PTHP (Cooling mode) New construction	All Capacities	95° F db outdoor air	EER	11.5	12.5
PTHP (Cooling mode) Replacements <sup>a</sup>	All Capacities	95° F db outdoor air	EER	11.5	12.5
PTHP (Heating mode) New construction	All Capacities	—	COP	3.5	4.5
PTHP (Heating mode) Replacements <sup>a</sup>	All Capacities	—	COP	3.5	4.5

a. Replacement efficiencies apply only to units with existing sleeves less than 16 inches (406 mm) high and less than 42 inches (1067 mm) wide.

**Water Chilling Packages<sup>b</sup>**

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION		Step 1	Step 2
Air cooled, with condenser, electrically operated	< 150 tons	—	COP	3.70	4.20
			IPLV	3.80	4.30
	≥ 150 tons	—	COP	3.50	4.00
			IPLV	3.60	4.10
Air cooled, without condenser, electrically operated	All capacities	—	COP	4.10	4.60
			IPLV	4.20	4.70
Water cooled, electrically operated	< 150 tons	—	COP	7.00	8.00
			IPLV	7.50	8.50
	≥ 150 tons and < 300 tons	—	COP	8.50	9.60
			IPLV	9.60	9.80
	≥ 300 tons	—	COP	9.30	9.70
			IPLV	9.70	10.10

b. The chiller equipment requirements do not apply for chillers used in low temperature applications where the design leaving fluid temperature is less than or equal to 40° F.