

Incentives for HVAC and refrigeration energy efficiency retrofits

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	ARI Standard	Customer Incentive
Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode)	< 65,000 Btu/hr	Split system and single package (single phase)	15.0 SEER and 12.5 EER	210/240	\$50/ton
	< 65,000 Btu/hr	Split system and single package (three phase)	13.0 SEER and 11.6 EER	210/240	\$50/ton
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	11.0 EER and 11.4 IPLV	210/240	\$50/ton
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	10.8 EER and 11.2 IPLV	340/360	\$50/ton
	≥ 240,000 Btu/hr	Split system and single package	10.0 EER and 10.4 IPLV	340/360	\$50/ton
Unitary Commercial Air Conditioners, Water and Evaporatively Cooled	< 135,000 Btu/hr	Split system and single package	14.0 EER	210/240	\$50/ton
	≥ 135,000 Btu/hr	Split system and single package	14.0 EER	340/360	\$50/ton
Package Terminal Air Conditioners (PTAC) (Heating & Cooling Mode)	≤ 8,000 Btu/hr	Single package	11.8 EER and 3.3 COP Heating	310/380	\$50/ton
	> 8,000 and < 10,500 Btu/hr	Single package	11.4 EER and 3.2 COP Heating	310/380	\$50/ton
	≥ 10,500 and ≤ 13,500 Btu/hr	Single package	10.7 EER and 3.1 COP Heating	310/380	\$50/ton
	> 13,500 Btu/hr	Single package	10.0 EER and 3.0 COP Heating	310/380	\$50/ton
Heat Pumps, Air Cooled (Cooling Mode)	< 65,000 Btu/hr	Split system and single package (single phase)	15.0 SEER and 12.5 EER	210/240	\$50/ton
	< 65,000 Btu/hr	Split system and single package (three phase)	13.0 SEER and 11.6 EER	210/240	\$50/ton
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	11.0 EER and 11.4 IPLV	210/240	\$50/ton
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	10.8 EER and 11.2 IPLV	340/360	\$50/ton
	≥ 240,000 Btu/hr	Split system and single package	10.0 EER and 10.4 IPLV	340/360	\$50/ton
Heat Pumps, Air Cooled (Heating Mode)	< 65,000 Btu/hr	Split system (single phase)	8.5 HSPF	210/240	See note 3
		Single package (single phase)	8.0 HSPF	210/240	See note 3
	< 65,000 Btu/hr	Split system (three phase)	8.0 HSPF	210/240	See note 3
		Single package (three phase)	7.5 HSPF	210/240	See note 3
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	47°F db /43°F wb outdoor air	3.4 COP	340/360	See note 3
		17°F db /15°F wb outdoor air	2.4 COP	340/360	See note 3
≥ 135,000 Btu/hr	47°F db /43°F wb outdoor air	3.3 COP	340/360	See note 3	
	17°F db /15°F wb outdoor air	2.2 COP	340/360	See note 3	
Heat Pumps, Water Source (Cooling Mode)	< 135,000 Btu/hr	85°F entering water	14.0 EER	320	\$50/ton
Heat Pumps, Water Source (Heating Mode)	< 135,000 Btu/hr	70°F entering water	4.6 COP	320	See note 3
Evaporative Cooling	All	Direct or indirect	Industry Standard Rating (ISR)		\$0.02/ISR CFM
Programmable Thermostats	All sizes with non-programmable thermostat for air conditioner	Programmable thermostat for air conditioner	Must comply with 2006 ENERGY STAR [®] requirements and not be required by code		\$50/thermostat
	All sizes with non-programmable thermostat for heat pumps or all electric heating	Optimizer programmable thermostat for heat pumps or all electric heating	Must comply with 2006 ENERGY STAR [®] requirements and not be required by code		\$70/thermostat
Chillers	All except chillers intended for backup service only	Serving primarily occupant comfort cooling loads (no more than 20% for process cooling loads)	Must exceed minimum efficiencies required by energy code		See note 4
Variable-Frequency Drive HVAC fans and pumps	≤ 100 horsepower	HVAC fans and pumps	See note 5		\$65/horsepower
Occupancy Based PTHP/PTAC control	All sizes with no prior occupancy based control		See note 6		\$50/controller
Electronically Commutated Motor	≤ 1 horsepower	Refrigeration application			\$0.50/watt
		HVAC application			\$50/horsepower
Solid Door Refrigerator	≤ 30 cubic feet volume (V)		Maximum kwh/day = 0.06*V+1.22		\$50/unit
	31– 60 cubic feet		Maximum kwh/day = 0.06*V+1.22		\$70/unit
	≥ 61 cubic feet		Maximum kwh/day = 0.06*V+1.22		\$90/unit
Solid Door Freezer	≤ 30 cubic feet volume (V)		Maximum kwh/day = 0.28*V+0.97		\$150/unit
	31– 60 cubic feet		Maximum kwh/day = 0.28*V+0.97		\$175/unit
	≥ 61 cubic feet		Maximum kwh/day = 0.28*V+0.97		\$200/unit

Notes for mechanical and other energy efficiency measures incentives table:

- For retrofits of existing equipment, incentives are for one-for-one same-size equipment replacements. Exception: PTACs can replace electric resistive heating, which must be removed.
- Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for an incentive.
- Incentives for heat pumps are \$50 per ton of cooling capacity ONLY. No incentives are paid per ton of heating capacity. Heat pumps must meet both the cooling mode and heating mode efficiency requirements to qualify for per-ton cooling efficiency incentives.

- \$0.12/kWh annual energy savings + \$50/kW. Chiller energy and demand savings subject to approval by Pacific Power.
- Throttling or bypass devices, such as inlet vanes, bypass dampers, three-way valves or throttling valves must be removed or permanently disabled to qualify for HVAC fan and pump VFD incentives. VFDs required by energy code are not eligible for incentives. Savings will only be realized for installations where a variable load is present.

- Controller units must include an occupancy sensor and include the capability to set back the zone temperature during extended unoccupied periods and set up the temperature once the zone is occupied.
- Incentives for all mechanical and other equipment listed in the incentive table are available via a post-purchase application process.

SEER = Seasonal Energy Efficiency Ratio
 EER = Energy Efficiency Ratio
 COP = Coefficient of Performance
 HSPF = Heating Seasonal Performance Factor
 IPLV = Integrated Part Load Value
 PTHP = Packaged Terminal Heat Pump
 PTAC = Packaged Terminal Air Conditioner
 HVAC = Heating, Ventilating and Air Conditioning
 VFD = Variable-Frequency Drive
 ARI = Air-Conditioning and Refrigeration Institute