

HVAC INCENTIVES

Equipment Type	Size Category	Qualifying Efficiency	Incentive (per ton)
Unitary and Split Air Conditioning Systems and Air Source Heat Pumps	< 65,000 Btuh (5.4 tons)	14 SEER	\$15.00
		15 SEER	\$30.00
	≥ 65,000 Btuh and < 240,000 Btuh (5.5–20 tons)	11.5 EER / 11.9 IPLV	\$15.00
		12 EER / 12.4 IPLV	\$30.00
	≥ 240,000 Btuh and < 760,000 Btuh (21–63 tons)	10.5 EER / 10.9 IPLV	\$15.00
		10.8 EER / 12.0 IPLV	\$30.00
	≥ 760,000 Btuh (> 63 tons)	9.7 EER / 11.0 IPLV	\$15.00
		10.2 EER / 11.0 IPLV	\$30.00
Water-Cooled Chillers	ALL	Level 1 (see specifications)	\$20.00
		Level 2 (see specifications)	\$40.00
Air-Cooled Chillers	ALL	1.04 kW/ton-IPLV	\$30.00
Room Air Conditioners	ALL	Level 1 (see specifications)	\$30.00
		Level 2 (see specifications)	\$50.00
PTAC/PTHP	ALL	13.08–(0.2556 x Btuh/1000) EER	\$30.00

Variable Speed Drive on HVAC Motors

\$25 per Horsepower for Chillers

\$50 per Horsepower for Fans and Pumps

Demand Control Ventilation for Kitchen Exhaust Hoods

New Hood — \$300 per Exhaust fan Horsepower

Retrofit Hood — \$400 per Exhaust fan Horsepower

SPECIFICATIONS FOR HVAC MEASURES

Unitary and Split Air Conditioning Systems and Air Source Heat Pumps

New unitary air conditioning units or air source heat pumps that meet or exceed the qualifying cooling efficiency shown in the HVAC Incentive Worksheet Table are eligible for an incentive. They can be either split systems or single package units.

The efficiency of split systems is based on an ARI reference number. Water-cooled systems, evaporative coolers, and water source heat pumps do not qualify under this program, but may qualify for a custom incentive. All packaged and split system cooling equipment must meet Air Conditioning and Refrigeration Institute (ARI) standards (210/240, 320 or 340/360), be UL listed, use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). All required efficiencies are based on the Consortium for Energy Efficiency (CEE) high efficiency commercial air conditioning and heat pump specifications (www.cee1.org). A manufacturer's specification sheet indicating the system efficiency must accompany the application. Disposal of the existing unit must comply with local codes and ordinances.

Water- and Air-cooled Chillers

Chillers are eligible for an incentive if they have a rated kW/ton for the Integrated Part Load Value (IPLV) that is less than or equal to the qualifying Level 1 or Level 2 efficiency shown in the table below. The chiller efficiency rating must be based on ARI Standard 550/590-2003 for IPLV conditions and not based on full-load conditions. The chillers must meet ARI standards 550/590-2003, be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). The ARI net capacity value should be used to determine the chiller tons. A manufacturer's specification sheet with the rated kW/Ton-IPLV or COP-IPLV must accompany the application. Qualifying efficiencies for chillers are summarized below.

Chiller Type	Size (Tons)	Level 1 kW/ton IPLV	Level 2 kW/ton IPLV
Scroll or Helical-Rotary	< 150	0.61	0.54
	150 to 300	0.57	0.50
	>= 300	0.51	0.46
Centrifugal	< 150	0.60	0.54
	150 to 300	0.54	0.48
	>= 300	0.49	0.44
Reciprocating	ALL	0.63	0.56
Air-Cooled	ALL	1.04	NA

Room Air Conditioners

Room air conditioning units are through-the-wall (or built-in) self-contained units that are 2 tons or less. There are two eligible efficiency levels as listed by the CEE (www.cee1.org). A unit can either qualify under ENERGY STAR standards or under Super Efficient Home Appliance (SEHA) Tier 1 standards. The minimum

requirements and eligible equipment are listed in the CEE high efficiency room air conditioning specifications (www.cee1.org). These units are with and without louvered sides, without reverse cycle (i.e., heating), and casement. The qualifying efficiencies for both levels are provided below. Disposal of existing unit must comply with local codes and ordinances.

Size (Btuh)	Level 1 2000 ENERGY STAR® (EER)	Level 2 SEHA Tier 1 (EER)
< 8,000 (<.67 tons)	10.7	11.2
8,000 – 13,999 (.67 – 1.2 tons)	10.8	11.3
14,000 – 19,999 (1.3 – 1.7 tons)	10.7	11.2
>= 20,000 (> 1.7 tons)	9.4	9.8

Package Terminal AC and Heat Pump Units (PTAC/PTHP)

Package terminal air conditioners and heat pumps are through-the-wall self contained units that are 2 tons (24,000 Btuh) or less. Only units that have an EER greater than or equal to $13.08 - (0.2556 * \text{Capacity} / 1000)$, where capacity is in Btuh, qualify for the incentive. All EER values must be rated at 95 °F outdoor dry-bulb temperature.

Variable Speed Drives on HVAC Motors

Variable-speed drives (VSDs) which are installed on existing chillers, HVAC fans, HVAC pumps and package units are eligible for this incentive. New chillers with integrated VSDs are eligible under the chiller incentive. VSDs on new equipment are not eligible. The installation of a VSD must accompany the permanent removal or disabling of any throttling devices such as inlet vanes, bypass dampers, and throttling valves. VSDs for non-HVAC applications may be eligible for a custom incentive. The incentive is per controlled HP.

Demand Control Ventilation for Kitchen Exhaust Hoods

The measure consists of installing a control system that varies the exhaust rate of kitchen ventilation (exhaust and/or makeup air fans) based on the energy and effluent output from the cooking appliances (i.e., the more heat and smoke/vapors generated, the more ventilation needed). This involves installing a temperature sensor in the hood exhaust collar and/or an optic sensor on the end of the hood that senses cooking conditions and allows the system to automatically vary the rate of exhaust to what is needed by adjusting the fan speed accordingly.