

Heating, Ventilation & Air Conditioning Equipment

Rocky Mountain Power provides incentives for many types of energy efficient technologies. Please read the following sections carefully to ensure that you follow the appropriate steps for securing your incentive.

Incentives for additional measures may be available. For more information about the FinAnswer Express program, eligibility requirements, incentive levels or other general inquiries, contact your local equipment dealer or Rocky Mountain Power. You can visit the program website at rockymountainpower.net/wattsmart and submit your inquiry online, or you can call our **energy services hotline** at 1-800-222-4335.

HEATING VENTILATION AND AIR CONDITIONING (HVAC)

Measure Description: High-efficiency cooling equipment can significantly reduce annual energy costs compared to standard-efficiency units. Incentives are available for high-efficiency air conditioning, heat pump and evaporative cooling equipment.

Applicability: New construction and retrofit installations are eligible.

Equipment Eligibility: Equipment must be purchased and installed, and meet all other program terms and conditions. Incentives of \$75/ton and \$100/ton for unitary air conditioning and heat pump equipment are only available for equipment purchased and installed on or after January 15, 2011.

Incentives are available for equipment meeting or exceeding the efficiency requirements listed in Tables 1, 2, and 3. Efficiency ratings will be determined by the applicable AHRI Standard and reported in the AHRI Directory of Certified Equipment (except evaporative equipment).

This directory is available at www.ahridirectory.org

Heat Pumps must meet both the cooling mode and heating mode efficiency requirements to qualify for per ton cooling efficiency incentives. Packaged Terminal Heat Pumps (PTHPs) can replace electric resistive heating; however, in such cases, electric resistive heating must be removed.

Items to submit with application:

1. Dated sales receipt/invoice with install date and retailer/contractor name, address and phone number
2. AHRI certificate or other manufacturer information documenting the efficiency and capacity of the equipment.
3. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification Required? No.

Table 1. Air-Cooled A/C Efficiency Requirements, Incentive Levels, & Equipment Codes

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement(s) & Customer Incentive		
			\$50/ton	\$75/ton	\$100/ton
Unitary Commercial Air Conditioners, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr (single phase)	Split system and single package	15.0 SEER 12.5 EER	--	--
	< 65,000 Btu/hr (three phase)	Split system and single package	--	14.0 SEER 11.6 EER	15.0 SEER 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	--	11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	--	11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 240,000 Btu/hr and < 760,000 Btu/hr	Split system and single package	--	10.5 EER and either 10.9 IPLV or 10.7 IEER	10.8 EER and either 12.0 IPLV or 11.0 IEER
	≥ 760,000 Btu/hr	Split system and single package	--	9.7 EER and either 11.0 IPLV or 9.9 IEER	10.2 EER and either 11.0 IPLV or 10.4 IEER

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for an incentive. Equipment must meet both listed efficiency requirements to qualify for incentives.
2. Equipment size categories and capacities are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units <65,000 Btu/hr and AHRI Standard 340/360 for units ≥65,000 Btu/hr.

EER = Energy Efficiency Ratio

SEER = Seasonal Energy Efficiency Ratio

IPLV = Integrated Part Load Value

IEER = Integrated Energy Efficiency Ratio

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
HVCSA1	Single phase split system A/C	See Table 1
HVCPA1	Single phase packaged A/C	See Table 1
HVCSA3	Three phase split system A/C	See Table 1
HVCPA3	Three phase packaged A/C	See Table 1

Table 2. Air-Cooled Heat Pump Efficiency Requirements, Incentive Levels, & Equipment Codes

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement(s) & Customer Incentive		
			\$50/ton	\$75/ton	\$100/ton
Heat Pumps, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr (single phase)	Split system and single package	15.0 SEER 12.5 EER	--	--
	< 65,000 Btu/hr (three phase)	Split system and single package	--	14.0 SEER 11.6 EER	15.0 SEER 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	--	11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	--	11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 240,000 Btu/hr	Split system and single package	--	10.5 EER and either 10.9 IPLV or 10.7 IEER	10.8 EER and either 12.0 IPLV or 11.0 IEER
Heat Pumps, Air-Cooled (Heating Mode) (See Note 2)	< 65,000 Btu/hr (single phase)	Split system	8.5 HSPF	--	--
		Single package	8.0 HSPF	--	--
	< 65,000 Btu/hr (three phase)	Split system	--	8.5 HSPF	9.0 HSPF
		Single package	--	8.0 HSPF	8.5 HSPF
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	47°F db/43°F wb outdoor air	--	3.4 COP	
		17°F db/15°F wb outdoor air	--	2.4 COP	
		47°F db/43°F wb outdoor air	--	3.2 COP	
		17°F db/15°F wb outdoor air	--	2.1 COP	

1. Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for an incentive. Equipment must meet both listed efficiency requirements to qualify for incentives.
2. Incentives for heat pumps are \$50-\$100 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.
3. Equipment size categories and capacities are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units < 65,000 btu/hr and AHRI Standard 340/360 for units ≥ 65,000 btu/hr.

EER = Energy Efficiency Ratio
SEER = Seasonal Energy Efficiency Ratio
IPLV = Integrated Part Load Value
IEER = Integrated Energy Efficiency Ratio
HSPF = Heating Seasonal Performance Factor
COP = Coefficient of Performance

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
HVCSH1	Single phase split system HP	See Table 2
HVCPH1	Single phase packaged HP	See Table 2
HVCSH3	Three phase split system HP	See Table 2
HVCPH3	Three phase packaged HP	See Table 2

Table 3. Other HVAC Equipment Efficiency Requirements, Incentive Levels, & Equipment Codes

Equipment Type	Equipment Code	Size Category	Sub-Category	Minimum Efficiency Requirement(s)	Customer Incentive
Unitary Commercial Air Conditioners, Water and Evaporatively Cooled	HVCUWC	< 135,000 Btu/hr	Split system and single package	14.0 EER	\$50 / ton
		≥ 135,000 Btu/hr	Split system and single package	14.0 EER	
Packaged Terminal Air Conditioners and Heat Pumps (PTAC/PTHP) (Heating & Cooling Mode)	HVCPTA (PTAC)	≤ 8,000 Btu/hr	Single package	11.8 EER (Cooling) 3.3 COP (Heating)	\$50 / ton
		> 8,000 Btu/hr and < 10,500 Btu/hr	Single package	11.4 EER (Cooling) 3.2 COP (Heating)	
	HVCPTH (PTHP)	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr	Single package	10.7 EER (Cooling) 3.1 COP (Heating)	
		> 13,500 Btu/hr	Single package	10.0 EER (Cooling) 3.0 COP (Heating)	
Heat Pumps, Water-Source	HVCWSH	< 135,000 Btu/hr	86°F Entering Water	14.0 EER (Cooling Mode)	\$50 / ton
			68°F Entering Water	4.6 COP (Heating Mode)	
Evaporative Cooling	HVCEVP	All sizes	Direct or Indirect	Industry Standard Rating (ISR)	\$0.02/ ISR CFM

1. Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for an incentive. Equipment must meet both listed efficiency requirements to qualify for incentives.
2. Incentives for heat pumps are \$50-\$100 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.
3. Equipment size categories and capacities are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units < 65,000 btu/hr, AHRI Standard 340/360 for units ≥ 65,000 btu/hr, and AHRI Standard 310/380 for PTAC/PTHP units.

EER = Energy Efficiency Ratio
COP = Coefficient of Performance
PTAC = Packaged Terminal Air Conditioner
PTHP = Packaged Terminal Heat Pump
ISR = Industry Standard Rating

WATER-CHILLING EQUIPMENT

Measure Description: Water-chilling equipment (e.g., chillers) is commonly used to provide cooling for a variety of building types and process loads. Chillers come in many different types (centrifugal, rotary screw, scroll, and reciprocating) and typically reject heat either through air-cooled or water-cooled condensers. High efficiency chillers can yield significant energy cost savings compared to standard efficiency units.

Applicability: New construction and retrofit installations are eligible. Technical assistance and financial incentives for comprehensive chiller projects are also available through Rocky Mountain Power’s Energy FinAnswer program. For more information about Energy FinAnswer, contact Rocky Mountain Power or your vendor before purchasing your equipment.

Equipment Eligibility: Eligible chiller projects must meet the following requirements:

1. Chillers must exceed the minimum efficiency requirements per Table 4 below;
2. Chiller must not be a backup service unit;
3. IPLV ratings must account for Variable Frequency Drives (VFD) installed on the chiller compressor, if applicable;
4. Chiller must serve primarily occupant comfort cooling loads (no more than 20% for process cooling loads);
5. Projects must not incorporate significant deviations from the standard chiller operational practices; (e.g., non-standard chilled water or condenser water set points, ice production during off peak hours, changes in chiller sequencing, etc.);
6. Equipment must be purchased and installed, and meet all other program terms and conditions.

Items to submit with application:

1. Dated sales receipt/invoice with install date and retailer/contractor name, address and phone number.
2. Manufacturer’s equipment specification sheet showing the unit’s COP and IPLV ratings and Net Cooling Capacity at AHRI rated conditions (AHRI Standard 550/590).
3. A completed copy of the Chiller Information Table, see Table 5 below.
4. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification Required? Prequalification is recommended, but not required to receive incentives. Contact your vendor or Rocky Mountain Power for more information.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive*</u>
HVCCHL	Chiller	\$0.12/kWh + \$50/kW

*To calculate the project savings and incentives, complete Table 5 and submit a copy with your application via e-mail to: id.hvacr@rockymountainpower.net. Energy and demand savings are subject to Rocky Mountain Power approval.

Table 4. Chiller Minimum Efficiency Requirements

(IECC 2009 Table 503.2.3 (7))

Heat Rejection	Type	Size Category (tons)	Path A ¹		Path B ¹	
			Maximum Full Load (kW/ton)	Maximum IPLV (kW/ton)	Maximum Full Load (kW/ton)	Maximum IPLV (kW/ton)
Air cooled	All	< 150 tons	1.255	0.960	NA ²	NA ²
		≥ 150 tons	1.255	0.941	NA ²	NA ²
Water cooled	Reciprocating, Rotary, Screw, or Scroll	< 75 tons	0.780	0.630	0.800	0.600
		≥ 75 tons and < 150 tons	0.775	0.615	0.790	0.586
		≥ 150 tons and < 300 tons	0.680	0.580	0.718	0.540
		≥ 300 tons	0.620	0.540	0.639	0.490
	Centrifugal	< 300 tons	0.634	0.596	0.639	0.450
		≥ 300 tons and < 600 tons	0.576	0.549	0.600	0.400
		≥ 600 tons	0.570	0.539	0.590	0.400

¹ Compliance can be obtained by meeting the minimum requirements of Path A or Path B. However, both the full and IPLV requirements must be met to fulfill one path or the other.

²NA means that this requirement is not applicable and cannot be used for compliance.

Table 5. Chiller Information Table

(Submit copy of table with application)

Customer	Customer Name	
	Facility Address	
	Facility City, State, Zip	
	Rocky Mountain Power Account Number	
	Rocky Mountain Power Rate Schedule	
	Facility Type	
Vendor	Company Name	
	Company City	
	Company Contact Name	
Chiller data (see Notes)	Chiller Cost (\$)	
	Cost Adder for Chiller	
	Chiller Heat Rejection (circle one)	AIR WATER
	Chiller Type (from Table 4)	
	Does the Chiller Include a VFD (circle one)?	YES NO
	*AHRI Chiller Nameplate Capacity (tons)	
	*AHRI Chiller Full Load (COP or kW/ton)	COP kW/ton
	*AHRI Chiller IPLV (kW/ton)	

* Refer to cut sheets provided by chiller manufacturer for information on these parameters.

AHRI = Air-conditioning, Heating, and Refrigeration Institute

COP = Coefficient of Performance

IPLV = Integrated Part Load Value

OCCUPANCY BASED PACKAGED TERMINAL AC/HP CONTROLS

Measure Description: Occupancy based Packaged Terminal Heat Pump (PTHP) and Packaged Terminal Air-Conditioning (PTAC) controllers are a combination of a control unit and occupancy based sensor that operate in conjunction to provide occupancy controlled heating and/or cooling. The control unit is operated by an occupancy sensor that is mounted in the room and turns the PTHP/PTAC on and off.

Applicability: This incentive is available for installation of new occupancy based control on all sizes of PTHP/PTAC units with no existing occupancy based control. New construction and retrofit applications are eligible for incentives.

Equipment Eligibility: Eligible controller units must include an occupancy sensor and have the capability to setback the zone temperature during extended unoccupied periods and return the temperature to an established setpoint when the zone is occupied.

Equipment must be purchased and installed, and meet all other program terms and conditions.

Items to submit with application:

1. Dated sales receipt/invoice with install date and retailer/contractor name, address and phone number.
2. Manufacturer's equipment specification sheet.
3. Itemized listing of quantity, description, manufacturer, model number and other identifying information as appropriate.
4. A current copy of the Rocky Mountain Power utility bill for the address where the item(s) are installed.

Prequalification Required? No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
HVCPTC	PTAC/PTHP Control	\$50 / controller

PROGRAMMABLE THERMOSTATS

Measure Description: ENERGY STAR programmable thermostats provide improved control for HVAC zones where occupancy varies according to a predictable schedule.

Applicability: Prior to January 15, 2011, incentives were available for customers who replaced a non-programmable thermostat with a qualifying ENERGY STAR programmable thermostat in a retrofit application. Incentives were not offered for thermostats installed in new construction applications or where required by the Idaho State energy code.

Equipment Eligibility: Incentives are not available for ENERGY STAR programmable thermostats purchased and installed on or after January 15, 2011.

Other types of standalone programmable thermostats (i.e. 365/366 day programmable thermostats) are not a listed measure and may be eligible for a Custom Energy Efficiency Incentive. To be eligible for a Custom Incentive, a FinAnswer Express Incentive Agreement must be signed before you sign any purchase orders for equipment or installation contracts. Custom Energy Efficiency Incentives for such Energy Efficiency Measures will be the product of multiplying Rocky Mountain Power's estimate of the annual energy savings by \$0.08/kWh, where the incentive amount will be limited to no more than 50% of the eligible project cost, and capped at a one-year simple payback. To determine whether a thermostat may qualify for a Custom Incentive, and the incentive amount, please call 1-800-222-4335 or e-mail id.hvacr@rockymountainpower.net.