

Water-Chilling Equipment Technology

Rocky Mountain Power provides incentives for many types of energy efficient technologies. Please read the following sections carefully to ensure that you purchase and install qualifying equipment.

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 HVAC dealer or Rocky Mountain Power. You can also visit the program's Web site at rockymountainpower.net/wattsmart or you can call our **Energy Services Hotline** at **1-800-222-4335**.

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:

- Chillers must exceed the minimum efficiency requirements per Table H-2 below.
- Chiller must not be a backup service unit.
- IPLV ratings must account for Variable Frequency Drives (VFD) installed on the chiller compressor, if applicable
- Chiller loads must not be more than 20% process related.
- Chiller energy and demand savings subject to approval by Rocky Mountain Power
- 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.)
- Equipment must be purchased on or after May 1, 2008, and meet all other program terms and conditions

- Items to submit with application:**
1. Dated sales receipt/invoice
 2. Manufacturer's equipment specification sheet showing the unit's COP and IPLV ratings at ARI rated conditions
 3. Table H-3

Prequalification Required? Pre-qualification is recommended, but not required to receive incentives.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
HVCCHL	Chillers	\$0.12/kWh annual energy savings + \$50/kW

To calculate the project savings and incentives, complete Table H-3 and submit a copy with your application to your vendor or via e-mail to: id.hvacr@rockymountainpower.net

WATER-CHILLING EQUIPMENT CONTINUED...
Table H-2. Chiller Efficiency Requirements

Heat Rejection	Type	Size Category (tons)	IECC 2006	
			Minimum COP	Minimum IPLV
Air cooled	Screw	< 150	2.80	2.80
		≥ 150	2.50	2.50
	Reciprocating	< 150	2.80	2.80
		≥ 150	2.50	2.50
Water cooled	Reciprocating	All capacities	4.20	4.65
	Rotary/Screw/Scroll	< 150	4.45	4.50
		≥ 150 & < 300	4.90	4.95
		≥ 300	5.50	5.60
	Centrifugal	< 150	5.00	5.00
		≥ 150 & < 300	5.55	5.55
≥ 300		6.10	6.10	

Table H-3. Chiller Information Table
(Submit completed table with application or e-mail to id.hvacr@rockymountainpower.net)

Customer	Customer Name	
	Facility Address	
	Facility City, State, Zip	
	Account Number	
	Service Territory	
	Rate Schedule	
	Select Nearest Weather Station	
	Facility Type	
EEA Part.	EEA Participant Name	
	EEA Participant City	
	EEA Participant Contact Name	
Chiller Data	Proposed Chiller Heat Rejection	
	Proposed Chiller Type	
	Proposed Chiller ARI Nameplate Capacity (tons)	
	Does Proposed Chiller Include VFD?	
	Proposed ARI Chiller COP (dimensionless)	
	Proposed ARI Chiller IPLV (dimensionless)	
	Proposed Chiller Cost (\$)	
	Cost adder for proposed chiller (\$)	

INCENTIVE CALCULATED BY ROCKY MOUNTAIN POWER