

Earn Rebates with our Business HVAC Program Chillers

Chillers are refrigeration systems that produce and circulate chilled water to air-handler units. Inside the air-handler units, fans push air across the evaporator coils to cool and dehumidify air. Chillers are typically found in larger commercial/industrial facilities with combined loads of 100 tons or more.

There are two main types of chillers, air-cooled and water-cooled. The term “air” or “water” cooled simply describes how the chillers’ condenser is removing heat from the building.

Qualifications

Each chiller must meet minimum efficiency guidelines to qualify for a rebate. To ensure all guidelines are met and determine the incentive amount, FPL needs the following information:

- » Chiller performance data at AHRI standard test conditions for each unit (best source)
 - Manufacturer and model number of the unit
 - Condenser type (air-cooled, water-cooled)
 - Compressor type (centrifugal, rotary screw, scroll, reciprocating, etc.)
 - Size/capacity of the unit
 - IPLV (Integrated Part Load Value) – NOT the NPLV (used for rebate purposes only)
 - Fluid and ambient temperatures (44° F-LWT/ 54° F-EWT)
 - Air-cooled condenser rated at 95° F ambient air temperature
 - Water-cooled cooling tower rated at 85° F condenser water temperature

If the above information is unavailable, then we would need:

- » AHRI certificate (we still need to know the size of the chiller)
- » The full load efficiency of the chiller at AHRI standards, in kilowatts per ton or EER – this will be used to determine the rebate
- » Chiller submittal

Note: “Back up” or emergency chillers do not qualify.

For more information regarding our rebate program or to speak with one of our HVAC Program Specialists, please visit our website at FPL.com.

Water-Cooled Chillers Benefits

- » High life expectancy of 20-30 years which offsets higher initial cost
- » Requires a condenser-loop circulation system with cooling tower, additional pumps and piping
- » Installed indoors, extending the lifespan of the system
- » Higher efficiency – best for large buildings and central plant cooling loops that require large cooling loads

Air-Cooled Chillers Benefits

- » Lower initial cost – life expectancy of 15-20 years
- » Self-contained units have built-in, air-cooled condensers
- » Installation is faster and easier than water-cooled systems
- » Installed outdoors or on rooftops, freeing up indoor space