

## Energy Efficiency for Business High-Efficiency Chillers

**Make your business more comfortable – and save money – when you install a high-efficiency chiller.**

Did you know your cooling system can be one of the biggest drains on your business's finances? Make cooling more efficient by installing a water- or air-cooled electric chiller. A more efficient chiller can keep your business cooler – and considerably more comfortable – while using less energy. It can also help reduce monthly cooling bills and can even earn incentives to offset project costs.

**Earn \$50 per ton** in incentives when you install qualifying equipment. Plus save up to 25 percent on annual cooling costs.

The efficiency of chiller equipment will decline as it ages. But you can reduce annual maintenance – and correct equipment reliability issues that may affect facility operation – simply by upgrading to a high-efficiency chiller.

### Benefits include:

- Lower operating costs
- Long-term energy efficiency
- More comfortable business environment
- More productive employees
- Opportunity to offset costs with Duke Energy incentives

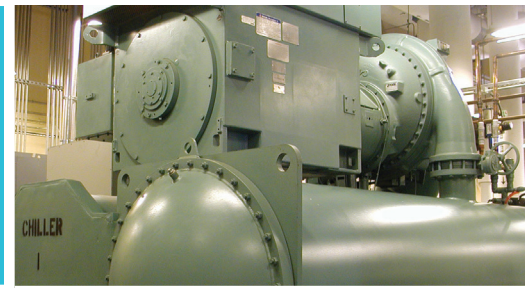
### Incentive and savings example:

An office facility that replaces a 300-ton centrifugal water-cooled chiller with a high-efficiency chiller can save \$3,505 annually and qualify for an incentive of \$15,000.\*

*\*Assumes 0.6 kilowatt/ton and 10 cents per kilowatt-hour, 78 F summer and 70 F winter.*

**Contact your Duke Energy Advisor for further details.**

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### Want to get incentives? Here's how:

1. Call Duke Energy for a FREE Business Energy Check.
2. Chiller efficiencies and performance specifications should be calculated at Air-Conditioning, Heating, and Refrigeration Institute (AHRI) test conditions (550/590 Test Standards.)
3. For air-cooled and water-cooled electric chillers, confirm that cooling load calculations are performed if the capacity of the high-efficiency unit differs from that of the original unit or if the high-efficiency unit is adding cooling to previously unconditioned space.

### Note

All required documentation must be submitted to your Energy Advisor within six months of project completion or Certificate of Occupancy (New Construction).

Other requirements may apply.

## EEB Incentive Eligibility Requirements

AIR-COOLED AND WATER-COOLED ELECTRIC CHILLERS (AHRI 550/590 Test Standards)		
Chiller Type and Size Range	2010 State Energy Code Standard	Minimum Efficiency Eligible for Incentive
<b>Water-Cooled Centrifugal</b>		
Under 150 tons	FL*: 0.634 kW/ton IPLV**: 0.596 kW/ton	FL: 0.571 kW/ton IPLV: 0.405 kW/ton
150-300 tons	FL: 0.634 kW/ton IPLV: 0.596 kW/ton	FL: 0.571 kW/ton IPLV: 0.405 kW/ton
300-600 tons	FL: 0.576 kW/ton IPLV: 0.549 kW/ton	FL: 0.513 kW/ton IPLV: 0.360 kW/ton
Over 600 tons	FL: 0.570 kW/ton IPLV: 0.539 kW/ton	FL: 0.513 kW/ton IPLV: 0.360 kW/ton
<b>Water-Cooled Positive Displacement</b>		
Under 75 tons	FL: 0.780 kW/ton IPLV: 0.630 kW/ton	FL: 0.760 kW/ton IPLV: 0.540 kW/ton
75-150 tons	FL: 0.775 kW/ton IPLV: 0.615 kW/ton	FL: 0.750 kW/ton IPLV: 0.527 kW/ton
150-300 tons	FL: 0.680 kW/ton IPLV: 0.580 kW/ton	FL: 0.660 kW/ton IPLV: 0.486 kW/ton
Over 300 tons	FL: 0.620 kW/ton IPLV: 0.540 kW/ton	FL: 0.610 kW/ton IPLV: 0.441 kW/ton
<b>Air-Cooled</b>		
Any size	FL: 9.562 EER IPLV: 12.50 EER	FL: 10.16 EER IPLV: 13.75 EER

\*Full Load

\*\*Integrated Part Load Value

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