

JULY

Refrigerate your Bills

Refrigeration systems can be one of the heaviest users of energy in a business. They are a great place to reduce energy use – and energy bills – by up to 24%



Automate Fan Control

Propeller fans on the evaporator coil run between 60% to 80% of the time in coolers and freezers. Typically these fans have only one speed – full-on – however, full airflow is only required about half of the time. Inexpensive controllers are available that automatically slow these fans when full-speed operation is unnecessary.

Keep Your Refrigeration Cool

The temperature of the refrigeration environment affects how cold you need to run your refrigerator or freezer. By reducing heat gain, you can reduce cooling needs, and therefore costs, with little up-front expense. A small up-front investment, your refrigeration system can be more efficient, reducing both your energy bills and your equipment maintenance costs.

What you need to know

Many of the steps to make your refrigeration more energy-efficient are easy to implement and can help your equipment last longer, saving you on energy and maintenance bills.

- Set operating temperatures of refrigerators and freezers only as low as necessary and check regularly to maintain consistent temperatures.
- Optimize the defrost cycle based on seasonal, humidity and load requirements by resetting cycle frequency or installing an automatic control.
- Purge non-condensables (air, gases from oil breakdown, water, organic acids, etc.) from the refrigeration system at each purge point to make systems run more efficiently.
- Operate the system at the lowest condensing pressure possible with existing condenser capacity.
- Raise the evaporator temperature to the maximum level possible.
- Install motion sensors or train personnel to turn off lights in unoccupied refrigerated areas.
- Shut down refrigeration in areas where extensive loading and unloading occurs.
- Install an air curtain on all walk-in freezers and coolers.

Learn more at BC HYDRO.com – Refrigeration Guide