

PIZZA SNACKS

  
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SNACKS



Every time he opens a fridge

**it costs us the earth...  
...needlessly**

The solution is CUES

An incredible product that can save up to **30%** on refrigeration

**CUES**  
CHILLED UNIT ENERGY SAVER

THE ENERGY SAVING BUSINESS



## How does CUES work?

Refrigeration units work in a series of cycles – starting and stopping to maintain the required temperature. They usually monitor circulating air temperature in order to decide when to switch on and off – so we call them air cycles. However, circulating air temperature tends to rise quickly, far more quickly than food temperature and, as a result, refrigeration works harder than necessary to maintain stored products at the right temperature. This in turn leads to excessive energy consumption and undue wear and tear on the equipment.

This is where CUES kicks in. CUES consists of a food simulant contained in a double-skinned enclosure. This food simulant mimics the temperature of food at 10mm below the surface. Due to its specific design, CUES ensures that refrigeration keeps food at the correct temperature.

When fitted to the thermostat sensor, which controls the compressor, CUES significantly reduces the frequency of the refrigeration cycles as they are now based on food temperature rather than fluctuating air temperature.

Air cycles typically produce a minimum of 12 cycles/hour and, in some open display cases, 20 cycles/hour. By using CUES as a cycle control mechanism, refrigerated cycles can be reduced by as much as 80%.

As the start-up of a refrigerator compressor uses 3 times more power than in the running cycle, considerable energy savings are achieved. In addition, the more efficient refrigeration cycle leads to a more efficient unit, which then leads to a colder storage area. Consequently, you can turn down the thermostat and enjoy further energy savings without compromising food safety and quality.

**Its simple - more efficient refrigeration cycles = substantial energy savings.**

**Example:** a traditional Dairy Display Case cycles 3 minutes on, 2 minutes off = 12 cycles per hour.

**With a CUES fitted, the cycles change to 8 minutes on, 7 minutes off = 4 cycles per hour.**

**This equates to a 66.7% reduction in starts.**



### BENEFITS OF CUES

**CUES can achieve savings of up to 30% resulting in a short payback.**

**It reduces wear and tear thus extending the life of the equipment.**

**Its application results in fewer breakdowns, sensor failures and reduces noise pollution.**

**It maintains food at a safer temperature resulting in less product spoilage.**

**It is a one-time retro-fit product requiring no further maintenance once installed.**

### CASE STUDY

**150 CUES were fitted throughout the Park Plaza Riverbank Hotel, London. This installation is yielding annual electricity savings of \$34,000 in addition to the benefits that come from reduced noise, maintenance and breakdown. As a result of the savings achieved CUES is now being installed in all of the Park Plaza Hotels in the UK.**



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Approval may vary depending on model.