

A smart way to save on Commercial Refrigeration operating costs

E-con 25

Refrigeration System Electricity Economizer



E-con is a microprocessor-based, electricity-saving control for commercial refrigeration systems. *E-con 25* reduces compressor run-time, wear on parts and electrical usage, when installed on any new or existing commercial refrigeration compressor. *E-con 25* uses intelligent Dynamic Cycle Management (DCM) technology to save energy by adjusting the compressor run pattern to match the system's "refrigeration load" based on real time conditions.

E-con 25 improves the electrical consumption of the refrigeration compressor by supplementing the antiquated "on/off" action of the thermostat or pressuretrol with the analysis and precise control capabilities of a computer.

Features

- For systems up to 1 HP or larger
- Dynamic Cycle Management (DCM) technology reduces fuel consumption—typically 10% to 20%
- Illuminated LCD display shows electricity consumption savings, operating modes, system diagnostics
- Short payback period—typically 12 to 24 months
- UL listed, "Energy Management Equipment"
- Increased savings without replacing or upgrading costly system components
- "State-of-the-art" microprocessor-based control
- No additional sensors required
- Multiple units can be "daisy-chained" together to reduce peak demand
- Simple installation by qualified installer
- No programming or follow-up visits required
- Maximum efficiency year-round
- Reduces maintenance and extends compressor life
- Fail-safe operation
- Guaranteed to reduce compressor electricity consumption
- 10-year replacement warranty for breakdowns or defects

Specifications

Mounting:

Any position via molded-on 1/2"
Electrical Fitting

Size:

4"H x 4"W x 2 1/2"D

Operating Humidity:

5% - 95% Non-Condensing

Operating Temperature Range:

-10°F - +120°F

Power Input:

24/115/220 VAC @ 5W

Control Circuit:

24 VAC/DC, 115/220 VAC

Relay Contact:

10A @ 220 VAC General Purpose

UL cUL Listed:

"Energy Management Equipment"

Made in USA

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The sizing of refrigeration systems is based on a number of factors. When any of the design considerations are not met, the refrigeration system is oversized for the load and thus less efficient. The *E-con*'s patented process analyzes the demands and thermal characteristics of the entire refrigeration system to dynamically modify the compressor cycle pattern. These new patterns result in less frequent and more efficient compressor cycles.

E-con 25's patented process uses Dynamic Cycle Management (DCM) technology to produce electrical energy savings (KWH). Our innovative and intelligent algorithms have field proven electrical savings on systems that were properly sized and operating, but also on systems that were undersized, and those that had not been properly maintained. Just as computer control has increased the gas mileage of automobiles, *E-con 25* with DCM Technology improves the electricity utilization of refrigeration systems, by supplementing the antiquated on/off control action of the thermostat or pressuretrol with the analysis and control capabilities of a computer.

Installation by a qualified refrigeration service technician is recommended and normally takes 45 minutes to 1 hour. *E-con 25* typically reduces electricity consumption 10% to 20% and usually decreases compressor cycling 15 to 20% or more. After installation, the *E-con 25* includes an anti-short cycle feature to provide additional protection for the compressor and does not require any maintenance or seasonal programming.

