

A smart way to save on
Commercial Refrigeration
operating costs



i-CON 2500

Refrigeration System Electricity Economizer



i-CON is a microprocessor-based, electricity-saving control for commercial refrigeration systems. *i-CON 2500* reduces compressor run-time, wear on parts and electrical usage, when installed on any new or existing commercial refrigeration compressor. *i-CON 2500* 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. *i-CON 2500* 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 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

Intelligent Control Systems LLC

208 Rte 109, Ste 211, Farmingdale, NY 11735, USA • Telephone 516-340-1011 • Fax: (888) 711-0750

www.icssaves.com • sales@icssaves.com



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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

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 *i-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.

i-CON 2500'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, *i-CON 2500* 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. *i-CON 2500* typically reduces electricity consumption 10% to 20% and usually decreases compressor cycling 15 to 20% or more. After installation, the *i-CON 2500* includes an anti-short cycle feature to provide additional protection for the compressor and does not require any maintenance or seasonal programming.

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