

A smart way to save on your air conditioning system costs.

E-con 24

Air Conditioning Electricity Economizer



E-con is a microprocessor-based, electricity-saving control for commercial air conditioning systems. *E-con 24* reduces compressor run time, excessive cycling and electrical usage, when installed on any new or existing air conditioning compressor. *E-con 24* uses intelligent Dynamic Cycle Management (DCM) technology to save energy by adjusting the compressor run pattern to match the system's "cooling load".

Features

- For systems 4 Tons and Larger
- Dynamic Cycle Management (DCM) technology reduces electricity consumption—typically 10% to 20%
- Illuminated LCD display shows electricity consumption savings, operating modes and 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
- Simple installation by qualified installer
- Limited programming required and no follow-up visits required
- Maximum efficiency year-round
- Reduces maintenance and extends compressor life
- Fail-safe operation with anti short cycle protection included
- Guaranteed to reduce 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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E-con uses Dynamic Cycle Management (DCM) technology to determine the cooling demand and thermal characteristics of the entire air conditioning system by analyzing the compressor's cycle pattern and dynamically modifying that cycle to provide the required cooling in the most efficient manner. This is accomplished in real-time by delaying the start of the next compressor "on" cycle determined by the cooling demand analysis. These new cycle patterns are less frequent and more efficient. This improved process augments the existing controls and will not cause the compressor to run unless the existing thermostat calls for it resulting in improved electrical efficiency. The i-con microprocessor allows the control to precisely determine the most efficient compressor cycles.

Field testing of the *E-con 24* has demonstrated that this intelligent modification of the compressor cycling with DCM technology leads to significant electricity savings. These savings have been confirmed on both properly sized and maintained systems as well as on oversized systems and those not properly maintained. Just as computer control has increased the gas mileage of automobiles, *E-con 24* with DCM Technology improves the electricity utilization of air conditioning systems by supplementing the antiquated on/off control action of the thermostat with the analysis and control capabilities of a computer.

Installation by a qualified air conditioning service technician is recommended and normally takes less than 1 hour. *E-con 24* typically reduces electricity consumption 10% to 20% and has decreased compressor cycling 30% or more. After installation, the *E-con 24* includes an anti-short cycling feature to provide additional protection for the compressor and does not require any maintenance or seasonal programming.