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

intelliCon® - *CAC*

Commercial Air Conditioning Electrical Consumption Economizer

OFF / BYPASS ☐ ON

Intellidyne®

Standby Mode
Economizing
Compressor On
Anti-Short-Cycle

IntelliCon® - **CAC**
Commercial Air Conditioning Electrical Economizer

WHITE = COMMON
BLUE = 24 VAC
BLACK = 115 VAC
VIOLET = 220 VAC } POWER CONNECTIONS

c(UL)us
LISTED
53FA

Enclosed
Energy
Management
Equipment

YELLOW = CALL FROM THERMOSTAT
RED = OUTPUT TO COMPRESSOR
GRAY = 24 VAC COMMON
BROWN = 115/220 VAC COMMON } COMPRESSOR CIRCUIT

CAUTION: UNUSED WIRES SHOULD BE SEPARATELY INSULATED.

Intellidyne
Glen Cove, NY 11542
Protected by one or more U.S.
and Foreign Patents

Model : CAC
Power: 24/115/220 VAC 60/50 Hz @ 5 Watts
Output Contact: 10A @ 220 VAC General Purpose

Features

- Patented process reduces air conditioning electric consumption—typically 10% to 20%
- UL listed, "Energy Management Equipment"
- Increased savings without replacing or upgrading costly system components
- "State-of-the-art" microcomputer controller—LED indicators show operating modes
- For systems 5 tons or larger
- Protects compressor against momentary power outages and short cycling
- Simple installation by a qualified HVAC/R installer
- No programming or follow-up visits required
- Maximum year-round efficiency
- Reduces maintenance and extends compressor life
- Fail-safe operation
- Guaranteed to save energy
- 15-year replacement warranty for breakdowns or defects

Intellidyne's *IntelliCon®-CAC* typically reduces Commercial Air Conditioning electric consumption by 10% to 20% or more. The *IntelliCon-CAC* is a microcomputer-controlled, UL listed electronic device that automatically adjusts the compressor cycles to achieve the greatest efficiency and reduced electrical usage, while assuring consistent temperature levels. *IntelliCon-CAC* is maintenance free, easy to install by a qualified installer, and is guaranteed to save energy.

90 Pratt Oval, Glen Cove, NY 11542, USA • Telephone: (516) 676-0777
Toll Free: (866) 216-0777 • Fax: (516) 676-2640 • www.intellidynellc.com

Intellidyne®

intelliCon®-CAC

Commercial Air Conditioning Electrical Consumption Economizer

Specifications

Mounting:
In any position via molded-in 1/2" Electrical Fitting

Size:
4"H x 4"W x 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 @ 220VAC General Purpose

UL Listed,
"Energy Management Equipment"

Made in U.S.A.

Sizing of air conditioning systems is based upon a number of factors. When any of the design considerations are not met, the air conditioning system is relatively oversized for the cooling load and thus less efficient.

Intellidyne's patented process determines the "cooling demand" and "thermal characteristics" of the entire air conditioning system by analyzing the compressor's "cycle pattern," and dynamically modifies that "cycle pattern" to provide the required amount of cooling in the most efficient manner. This is accomplished in "real-time" by delaying the start of the next compressor "on" cycle by an amount determined by the "cooling demand" analysis. These new patterns also result in less frequent and more efficient compressor cycles. *IntelliCon®-CAC* electrically augments the existing controls, and will not cause the compressor to run unless the existing thermostat is calling for it to do so. Just as computer control has increased the gas mileage of automobiles, *IntelliCon-CAC* improves the electrical efficiency of air conditioning systems, by supplementing the antiquated on/off action of the thermostat (even a "smart" one) with the analysis and control capabilities of a computer.

Field-testing has demonstrated that *IntelliCon's* "intelligent modification of compressor cycling" has led to significant electrical energy savings. *IntelliCon's* innovative and intelligent algorithms have proven electrical savings; not only on properly sized and operating systems, but also on units that were undersized or those that had not been properly maintained.

IntelliCon-CAC works in conjunction with the existing thermostat and will not void the compressor manufacturer's warranty. An additional feature of the *IntelliCon-CAC* is the accepted industry practice of compressor anti-short-cycling control.

Installation by a qualified HVAC/R service technician is recommended. *IntelliCon-CAC* does not require any programming, adjustments, or maintenance.

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