

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



# IntelliCon®-CAC

Commercial Air Conditioning Electrical Consumption Economizer



Intellidyne's IntelliCon®-CAC typically reduces Commercial Air Conditioning electric consumption by 10% to 20% or more. The IntelliCon-CAC is a microprocessor-based, UL listed, electronic control that uses intelligent Dynamic Cycle Management (DCM) technology to automatically adjust 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.

## Features

- Dynamic Cycle Management (DCM) technology 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 microprocessor-based control—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





## 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.

# IntelliCon<sup>®</sup>-CAC

## Commercial Air Conditioning Electrical Consumption Economizer

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 can become relatively oversized for the cooling load and thus less efficient.

Intellidyne's patented process 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 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<sup>®</sup>-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" with DCM Technology will lead 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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