



The *Intellidyne PTAC* is a microprocessor-based, electronic control that uses intelligent Dynamic Cycle Management[®] (DCM) technology to automatically adjust the compressor cycles to achieve maximum efficiency and reduce electrical usage, while assuring consistent comfort levels.

The compact size of *Intellidyne's PTAC* control makes it easy to install in window-mounted or wall-based air conditioning units. It is guaranteed to reduce electric consumption by at least 10%.



Features

- Dynamic Cycle Management[®] (DCM) technology reduces air conditioning electric consumption by 10% guaranteed.
- LED indicators show operating modes.
- Suitable for through-the-wall and window mounted air conditioning systems.
- Protects compressor against short cycling.
- Compact size for simple installation by a qualified HVAC/R installer.
- Field configurable for maximum energy savings.
- Compatible with heat pump units for maximum year-round efficiency.
- Reduces maintenance and extends compressor life.
- Fail-safe operation guaranteed to save energy.
- 5-year replacement warranty for breakdowns or manufacturer defects.



Specifications

Mounting:
In any position via four sheet metal screws

Size:
3.72" H x 3.72" W x 1.10" D

Operating Humidity:
5% - 95% Non-Condensing

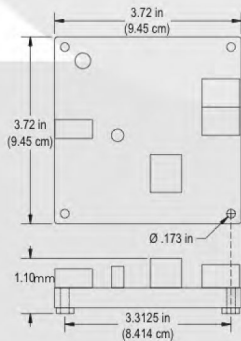
Operating Temperature Range:
-10°F - + 120°F -23.5°C - + 49°C

Power Input:
24 VAC @ 5W

Control Circuit:
24, 115, 220 VAC

Relay Contact:
10A @ 220VAC General Purpose

Made in U.S.A.



The sizing of air conditioning systems is based on a number of factors. When any design considerations are not met, the air conditioning system can become relatively oversized for the cooling / heating load and thus less efficient due to excessive cycling.

Intellidyne's patented process, Dynamic Cycle Management[®](DCM), determines the cooling / heating demand and thermal characteristics of the air conditioning system by analyzing the compressor's cycle pattern to provide the required amount of comfort in the most efficient manner. This is accomplished by delaying the compressor "on" cycle by an amount determined by real-time cooling demand analysis. These new patterns result in more efficient compressor cycles and less compressor on-time.

Intellidyne's PTAC control electrically augments the existing controls, and will not cause the compressor to run unless the thermostat call is present. The *PTAC* reduces the electrical consumption on PTAC systems by supplementing the antiquated on / off action of the thermostat (even a smart one) with the analysis and control capabilities of a microprocessor.

Field-testing confirms that *PTAC's* "intelligent modification of compressor cycling" with DCM technology will lead to significant electrical energy savings. Intellidyne's innovative and intelligent algorithms have proven electrical savings; not only on properly sized PTAC units, but also on those that are undersized or not properly maintained.

Intellidyne's PTAC works in conjunction with the existing thermostat and will not void the compressor manufacturer's warranty. The *PTAC* also offers compressor anti-short-cycling.

Installation by a qualified HVAC/R service technician is required. *Intellidyne's PTAC* control can be field configured for optimum energy efficiency.



Economical



Efficient



Ecological



Easy

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