

A smart way to save on your commercial heating costs.



# IntelliCon<sup>®</sup>-LCS

Light Commercial Steam Heating System Fuel Economizer



**IntelliCon<sup>®</sup>-LCS** is a microprocessor-based, fuel-saving control for light-commercial steam heating systems. *IntelliCon-LCS* reduces fuel consumption, wear on parts, flue emissions and electrical usage, when installed on any new or existing gas or oil burner. *IntelliCon-LCS* uses intelligent Dynamic Cycle Management (DCM) Technology to save energy by adjusting the burner run pattern to match the system's "heat load." Its action is similar to the industry-accepted method of "outdoor-air temperature reset control," but does not require an outdoor-air temperature sensor or the need to profile the building in order to adjust the "reset" control properly. *IntelliCon-LCS* determines the "heat load" by using an easily installed pressure sensor that monitors the boiler's steam-pressure and the rate that this pressure is changing.

## Features

- For commercial systems rated up to 2.5 million BTU
- Dynamic Cycle Management (DCM) Technology reduces fuel consumption—typically 10% to 20%
- Illuminated LCD display shows fuel consumption savings, operating modes, system diagnostics and operating temperatures
- UL listed, "Energy Management Equipment"
- Increased savings without replacing or upgrading costly system components
- "State-of-the-art" microprocessor-based control
- Easily installed plug-in sensor(s) (includes 1 required sensor)
- Simple installation by qualified installer
- Easily programmed for maximum savings
- Maximum year-round efficiency
- Reduces maintenance and extends boiler life
- Fail-safe operation
- Guaranteed to save energy
- 15-year replacement warranty for breakdowns or defects





## Specifications

### Mounting:

In 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 @ 220VAC General Purpose

### UL Listed,

"Energy Management Equipment"

### Made in U.S.A.

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## Light Commercial Steam Heating System Fuel Economizer

Any heating system must be able to provide acceptable comfort at the lowest anticipated outdoor temperature. In the U.S. and abroad, most light commercial boilers have a heat capacity between 1.5 to 2 times larger than that needed to maintain the facility's temperature on those extreme days. Due to this over-sizing of the boiler, the burner will cycle on and off continuously to maintain the desired steam pressure.

Using our intelligent Dynamic Cycle Management (DCM) Technology, *IntelliCon®-LCS* increases "system efficiency." Thus, the heating system uses less fuel to generate the required amount of heat. This is done by dynamically changing the pressure-controller's effective dead-band based upon the measured "heating load." This causes the average steam pressure to be varied (depending upon the measured load), and is accomplished by extending the burner's "off-time." Extending the "off-time" also results in longer, more efficient burn cycles and reduces burner on/off time. Just as computer control has increased the gas mileage of automobiles, *IntelliCon-LCS* with DCM Technology improves the fuel utilization of heating systems, by supplementing the antiquated on/off control action of the pressure-controller with the analysis and control capabilities of a computer.

Service personnel will appreciate the LCD readout, which displays useful information relative to the unit's status, steam pressure and domestic hot-water temperature (if the optional sensor is installed), which can be useful for system diagnostics and maintenance.

*IntelliCon-LCS* typically reduces fuel consumption 10% to 20% and decreases burner cycling by 30% or more. Initial installation programming is easily done by a qualified service technician by following the on screen directions. After installation, *IntelliCon-LCS* requires no maintenance.



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