

A smart way to save on your  
commercial steam heating costs.



# IntelliCon<sup>®</sup>-CHS (HP)

Commercial Steam Heating System Fuel Economizer



**IntelliCon<sup>®</sup>-CHS** is a microprocessor-based, fuel-saving control for commercial steam heating systems. *IntelliCon-CHS* reduces: fuel consumption, wear on parts, flue emissions and electrical usage when installed on any new or existing gas or oil burner. *IntelliCon-CHS* uses intelligent Dynamic Cycle Management (DCM) technology to save energy by adjusting the burner run pattern to match the system's "heat load."

## Features

- For systems with ratings above 2.5 million BTU
- CHS for systems with operating pressures > 2 psi and < 30 psi
- CHS-HP for systems with operating pressures > 30 psi and < 145 psi
- Illuminated LCD display shows fuel consumption savings, operating modes, system diagnostics and operating temperatures
- Dynamic Cycle Management (DCM) technology reduces fuel consumption—average savings 14.2%
- Short payback period—less than 18 months
- 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 heating professional
- Fail-safe operation
- Easily programed for maximum savings
- Reduces maintenance and extends boiler life
- Guaranteed to reduce fuel consumption by 10%
- 15 year limited warranty against breakdowns or defects





## Specifications

### Mounting:

On Vertical Surface via 3-point  
Mounting System

### Size:

7 1/2"H x 9 1/2"W x 4"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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## 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 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 patented Dynamic Cycle Management (DCM) Technology, *IntelliCon<sup>®</sup>-CHS* 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-CHS* 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 microprocessor.

Facility engineers will appreciate the LCD, which displays useful information relative to the unit's status, steam pressure fuel savings and system runtime, which can be useful for system diagnostics and maintenance.

*IntelliCon-CHS* typically reduces fuel consumption 10% to 20% and decreases burner cycling by 30% or more. Installation is simple for a qualified heating technician. Programming is easily accomplished during installation to maximize the fuel savings of the specific system.



303 Sunnyside Boulevard, Suite 75, Plainview, NY 11803-1508, USA  
Telephone: (516) 676-0777 • Toll Free: (866) 216-0777 • Fax: (516) 676-2640  
www.intellidynellc.com

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