

*A smart way to save on your
hot water heating system costs.*



IntelliCon®-HW+

Hot Water Heating System Fuel Economizer



IntelliCon®-HW+ is a microprocessor-controlled, fuel-saving device for hot water (hydronic) heating systems. *IntelliCon-HW+* reduces fuel consumption, wear on parts, flue emissions and electrical usage, when installed on any new or existing gas or oil burner. *IntelliCon-HW+* saves 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" controller properly. *IntelliCon-HW+* determines the "heat load" by using an easily installed strap-on temperature sensor that monitors the boiler's out-flow water temperature and the rate that this temperature is changing.

Features

- For systems up to 300,000 BTU
- Illuminated LCD display shows fuel consumption savings, operating modes, system diagnostics and operating temperatures
- Patented process reduces fuel consumption—typically 10% to 20%
- Short payback period—typically 12 to 24 months
- UL listed, "Energy Management Equipment"
- Increased savings without replacing or upgrading costly system components
- "State-of-the-art" microcomputer controller
- Easily installed plug-in sensor(s) (includes 1 required sensor)
- Simple installation by qualified installer
- No programming or follow-up visits required
- Maximum efficiency year-round
- Reduces maintenance and extends boiler life
- Fail-safe operation
- Guaranteed to reduce fuel consumption
- 15-year replacement warranty for breakdowns or defects



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Specifications

Mounting:

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.

A heating system must be able to provide acceptable comfort at the lowest anticipated outdoor temperatures. In the U.S. and abroad, most residential boilers have a heat capacity between 1.5 to 2 times larger than that needed to maintain the room temperature on those extreme days. Due to this over-sizing of the boiler, the burner will cycle on and off repeatedly to prevent overheating of the system water during any call for heat.

Using our patented technology, *IntelliCon®-HW+* increases "system efficiency." Thus, the heating system uses less fuel to generate the same amount of heat. This is done by dynamically changing the aquastat's effective dead-band based upon the measured "heating load." This causes the average water temperature 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 burns that are more efficient and a reduction in burner on/off cycling. Just as computer control has increased the gas mileage of automobiles, *IntelliCon-HW+* improves the fuel utilization of heating systems, by supplementing the antiquated on/off control action of the aquastat with the analysis and control capabilities of a computer.

Installation is simple for a qualified service technician and does not require any programming or adjustments. *IntelliCon-HW+* typically reduces fuel consumption 10% to 20% and usually decreases burner cycling 30% or more. After installation, the *IntelliCon-HW+* does not require any maintenance or seasonal programming.



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