

*A smart way to save on your
forced-air heating system costs.*



IntelliCon®-FA

Forced-Air Heating System Fuel Economizer



IntelliCon®-FA is a microprocessor-controlled, fuel-saving device for forced-air heating systems. *IntelliCon-FA* reduces: fuel consumption, wear and tear on parts, flue emissions and electrical usage, when installed on any new or existing forced-air heating system.

Features

- Patented process is guaranteed to reduce fuel consumption—typically 10% to 20% or more
- Saves fuel without replacing or upgrading costly system components and without violating manufacturers' warranties
- Illuminated LCD display shows fuel consumption savings, operating modes, system diagnostics and operating temperatures
- Saves energy without sacrificing comfort
- Short payback period—typically 4 to 18 months
- Field-tested and validated energy-saving control
- Works with any thermostat including setback and multi-zone thermostats
- UL listed, "Energy Management Equipment"
- "State-of-the-art" microcomputer controller
- Easily installed plug-in sensor(s) (includes 1 required sensor)
- Simple 60 – 90 minute installation by qualified installer
- Fail-safe operation requires no programming or follow-up visits
- Maximum efficiency year-round
- Reduces maintenance and extends furnace life
- 15-year replacement warranty for breakdowns or defects



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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.

A heating system must keep its occupants comfortably warm at the coldest anticipated outdoor temperature. Most forced-air heating systems in the U.S. and abroad are between 50% and 100% larger than necessary for maintaining a comfortable temperature on most days when the temperature is not as low as those extreme days. This excess capacity causes the burner to cycle on and off continuously to prevent the furnace from overheating. Even on furnaces with programmable setback thermostats or multi-zone controls, the burner cycling is not optimized. This burner cycling pattern wastes fuel.

IntelliCon®-FA saves energy by adjusting the burner run pattern to match the system's "heat load." *IntelliCon®-FA* analyzes the system's load, or demand for heat, by monitoring the out-flow air, or discharge-air, temperature as it is blown out of the furnace into the structure. Optionally, the return-air can be monitored as well for additional energy savings. The absolute temperature value of the air in-flow and outflow, coupled with the rate that the temperature is changing, is indicative of the load placed on the heating system. In addition, *IntelliCon®-FA* measures and records how many times the burner is turned on and off and the duration of those burner cycles. *IntelliCon®-FA* analyzes how fast heat is being lost in the system and, in turn, in the space. Using this information, the optimum running cycle for maintaining the desired heating level is calculated. *IntelliCon®-FA* then intercedes and changes the way the burner is cycled. As a result, less fuel is consumed in delivering the same amount of heating comfort.

Just as dynamic computer control has increased the gas mileage of automobiles: *IntelliCon-FA* dynamically improves the fuel utilization of forced-air heating systems. By supplementing the simplistic on/off control action of the thermostat with the analysis and control capabilities of a real-time computer, owners can enjoy maximum energy savings with no sacrifice in comfort and with no adjustments required—ever. The illuminated LCD display shows fuel consumption savings, operating modes, system diagnostics and operating temperatures.

IntelliCon-FA typically reduces fuel consumption 10% to 20%.

Installation by a qualified service technician takes about 60 - 90 minutes and does not require any programming or adjustments. The *IntelliCon-FA*'s small 4"H x 4"W x 2 1/2"D size allows it to be installed almost anywhere. After installation, *IntelliCon-FA* does not require any maintenance and will not violate manufacturers' warranties.



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