## Features & Benefits

- **Improves overall heating system efficiency**
- **Guaranteed to reduce heating fuel consumption 10 – 20%**
- **Reduces boiler on/off cycles by up to 30%**
- **Reduces wear and tear on boiler and components**
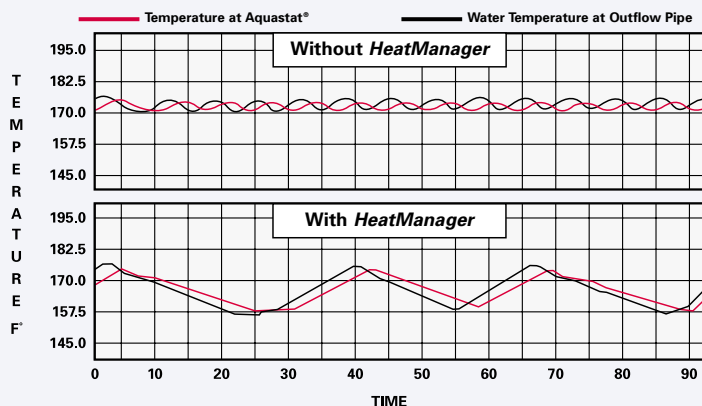- **Works with any fuel**
- **15 – 30 minute installation**

## Product Description

- HeatManager is a microprocessor controlled fuel economizer for residential boiler heating systems.

## Operation/How It Works

- HeatManager automatically adjusts burner firing patterns and average boiler water temperature to match system heat load. Its action is similar to outdoor reset method, but does not require an outdoor sensor. HeatManager works with the existing boiler control/Aquastat™ to reduce fuel consumption, wear on parts and flue emissions. For complete, detailed explanation, reference HeatManager Tech Bulletin (form 664856) or visit www.beckettcorp.com/heatmanager.
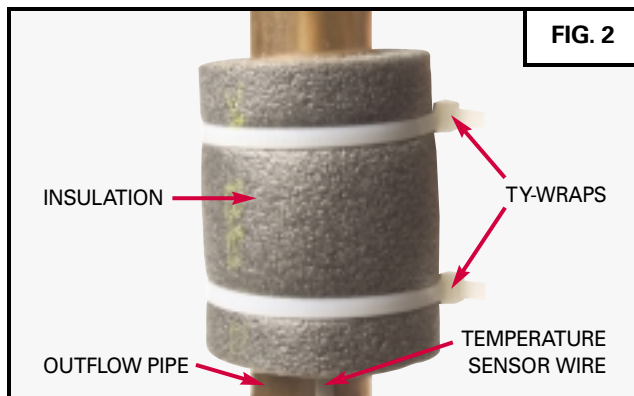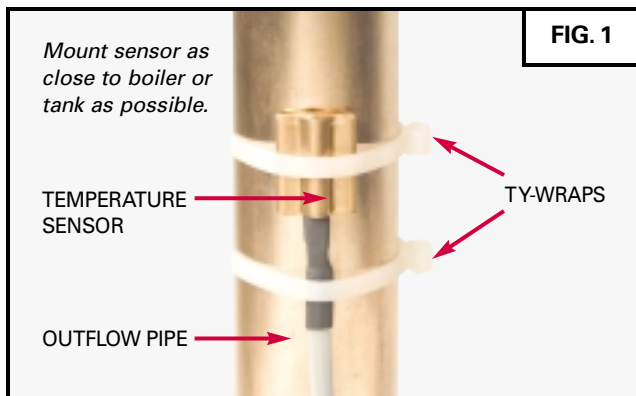
## Applications

- **For use with most new or existing residential boilers**
- **Ideal for standard, multiple-section, steel or cast iron boilers**
- **Works best with multi-zoned systems — reduces short cycling**
- **Works with domestic hot water systems**
- **For boilers up to 300,000 BTU**
- **Boiler temperature must regularly exceed 150° F during the heating season**
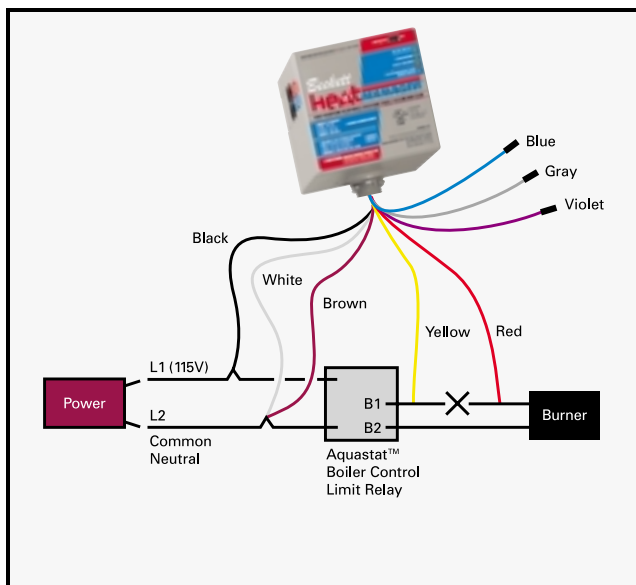
## Performance Specifications

- **Operating humidity: 5% – 95% noncondensing**
- **Ambient operating temperature: - 10° to 120° F**
- **Power input: 24/115/220 VAC @ 5W**
- **Control circuit: 24 VAC/DC, 115/220 VAC**
- **Relay contact: 10A @220 VAC General Purpose**
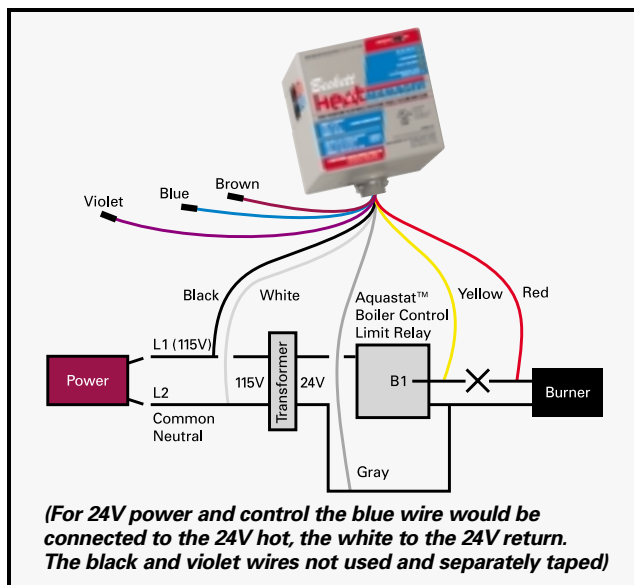
Temperature at Aquastat®     Water Temperature at Outflow Pipe

Without *HeatManager*

With *HeatManager*

TEMPERATURE F°

195.0
182.5
170.0
157.5
145.0
195.0
182.5
170.0
157.5
145.0

0  10  20  30  40  50  60  70  80  90

TIME

## Installation and Wiring

■ HeatManager mounts directly to Aquastat™ or electric junction box.



FIG. 1

*Mount sensor as close to boiler or tank as possible.*

TEMPERATURE SENSOR

TY-WRAPS

OUTFLOW PIPE



FIG. 2

INSULATION

TY-WRAPS

OUTFLOW PIPE

TEMPERATURE SENSOR WIRE

### *Typical 115/230V Power & Control— Boiler Burner Circuit*



Blue
Gray
Violet
Black
White
Brown
Yellow    Red
L1 (115V)
Power
L2
Common
Neutral
B1
B2
Aquastat™
Boiler Control
Limit Relay
Burner

### *Typical 115/230V Power / 24V Control— Boiler Burner Circuit*



Violet    Blue    Brown
Black    White    Aquastat™
Boiler Control
Limit Relay    Yellow    Red
L1 (115V)
Power
L2    Transformer    115V    24V    B1    Burner
Common
Neutral
Gray

*(For 24V power and control the blue wire would be connected to the 24V hot, the white to the 24V return. The black and violet wires not used and separately taped)*

■ Complete installation instructions and wiring diagram are supplied with product.

## Material/Construction

■ PC board enclosed in oil resistant, injection molded plastic case

## Dimensional Information

■ 4" H x 4" W x 2 1/2" D

## Accessories

■ Additional temperature sensor (for replacement or for use with domestic hot water system) — **7518**

## For more information, contact:                    www.beckettcorp.com