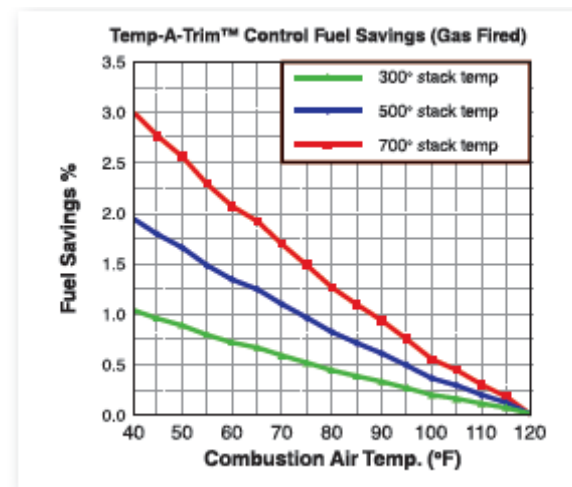


- ① Temp-A-Trim™ Control Module
- ② Flame Safeguard
- ③ Variable Frequency Drive



Options available:

- Alarm light
- Control by-pass switch (operates the VFD as a motor starter and bypasses all TEMP-A-TRIM™ functions)
- Dual Fuel: gas only control (for burner mounted oil pump), control only operates on gas fuel.
- NEMA 4 enclosures (may require VFD to be shipped loose)
- Optional “Savings Meter” allows a continuous display of the efficiency saving of the control

Compressed Air-Pumps-Water-Vacuum-Piping Products

770 532-7736 Toll Free 800 752-0556 Fax: 770 535-0536
 email: csisales@bellsouth.net
 website: www.control-specialties.com
 Phones Answered 24-7

CONTROL SPECIALTIES



Here's how Temp-A-Trim™ saves you money:

The air temperature in your boiler room can change dramatically from day to night and from season to season. These changes cause significant combustion inefficiencies and degrade combustion stability. Temp-A-Trim™ senses air temperature and automatically varies the fan speed to create a constant air flow mass for combustion. By maintaining optimum fuel/air ratios, you are assured that your burner is operating at maximum efficiency.

CONTROL SPECIALTIES

2503 Monroe Drive Gainesville, Ga. 30507
 Phone 770-532-7736 Toll Free 800-752-0556 Fax 770-535-0536
 Email - csisales@bellsouth.net
 Website - www.control-specialties.com



We are never closed-phones answered 24 hours per day!

STEAM - AIR - VACUUM - HVAC - WATER EQUIPMENT & CONTROLS

PRODUCT DESCRIPTION:
A combustion control system that corrects for changes in the combustion air temperature to maintain a constant Fuel-Air-Ratio. The TEMP-A-TRIM™ option uses a variable frequency drive (VFD) to change the fan speed as required to exactly compensate for changes in air density due to temperature. This improves combustion efficiency and reduces electrical usage.

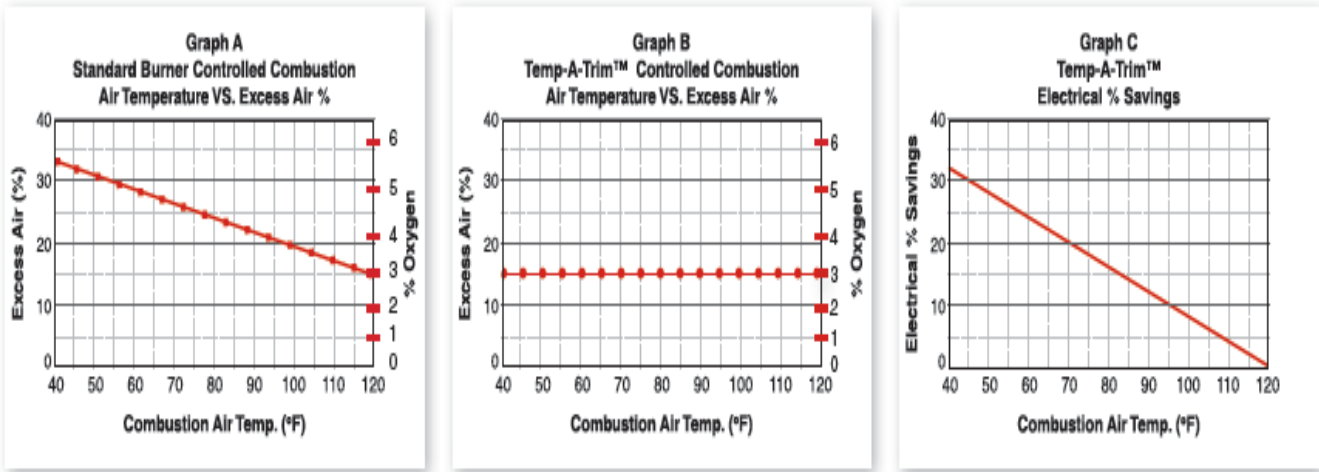
- PRODUCT APPLICATIONS:**
- New and retrofit Webster burners
 - All fuels and combination of fuels
 - All control systems including parallel positioning
 - All low emission burner options
 - Not for oil firing with burner mounted oil pump (see option for gas firing on dual fuel versions)

- TECHNICAL SPECIFICATIONS:**
- Control Elec: 120vac, 2 amp
 - Motor Style: Electric induction, three phase (1)
 - Multiple voltages: 120,208,240,480 and 575VAC, 60Hz
 - Control Ranges: 10-90F or 40-120F (field selectable)
 - Ambient temperature range: 0-120F
 - Alarm Output: Dry contacts, 120VAC, 3amps
 - Temperature Control Output: 4-20mA signal (used by efficiency monitor)
 - Junction Box: 14”wx9”hx7”d, NEMA 1 (N-4 available)
 - VFD: ABB and Emerson, Voltage, amp and dimensions vary by application

- LISTINGS:**
- UL 353 (circuit board)
 - Package listing for 508 control panels

- FEATURES:**
- Improved combustion efficiency
 - Reduced electrical usage
 - Reduced noise from slower motor and fan speed
 - Soft start reduces electrical demand changes and improves motor life
 - Run/Test switch allows quick verification of operation
 - No programming or tuning involved

Note 1: On 120VAC burners, the VFD will convert the single phase to three phase. Burner must use a three phase motor..



GRAPH A:
Combustion air temperature change results in excess air (% Oxygen) change. Running a burner with high excess air is inefficient. Running with low excess air results in unburned fuel and high CO.

GRAPH B:
With Temp-A-Trim™, Webster burners can maintain a consistent, efficient excess air (% Oxygen) level throughout a wide range of combustion air temperatures. Ideal for ducted air systems.

GRAPH C:
Typical electrical savings

TEMP-A-TRIM™ Features and Benefits:

- Precisely corrects for changes in air density to optimize combustion efficiency 24/7
- Reduces the need for seasonal tuning of your burners
- Feed-forward control for smooth, accurate operation
- Easy to install, with no special set up or programming required
- Compatible with linkage or linkage-less controls
- Saves fuel and electricity, plus it lowers noise levels
- Available on all sizes of new or existing Webster Burners
- Lower cost, complexity, and maintenance than typical O2 trim systems