

TEMP A TRIM™ Combustion Air Density Trim System

Specification & Dimensional Data

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: 120 vac, 2 amp
- Motor style: Electric induction ,three-phase 1
- Multiple voltages, 120, 208, 240, 480, & 575 VAC, 60 hertz
- Control Ranges: 10-90 °F or 40-120 °F (field selectable)
- Ambient temperature range: 0 to 120 °F
- Alarm Output: Dry contacts, 120 VAC, 3 amps
- Temperature Control Output: 4-20 ma signal (used by efficiency monitor)
- Junction Box: 14" W x 9"H x 7" D, NEMA 1 (N-4 available)
- VFD: ABB and Emerson. Voltage, amp & dimensions vary by application

Listings:

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

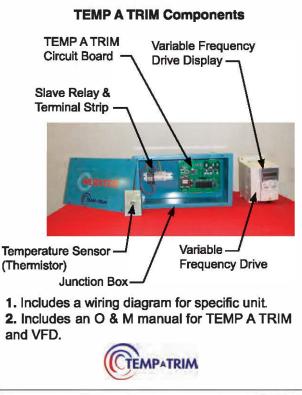
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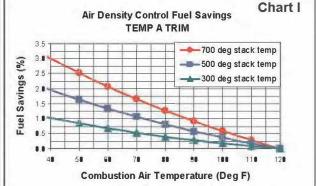
- Alarm Light
- Control by-pass switch (operates the VFD as a motor starter and bypasses all TEMP A TRIM functions)
- Duel Fuel: Gas only control (for burner mounted oil pump), control only operates on gas fuel.
- NEMA 4 enclosures (may require VFD to be shipped loose)
- Optional "Savings Meter" allows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

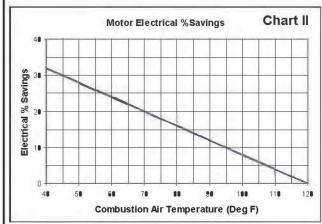
Features:

- Improved combustion efficiency (Chart I)
- Reduced electrical usage (Chart II)
- Reduced noise from slower motor & fan speed
- Soft start reduces electrical demand changes and improves motor life
- "Run/Test" switch allows quick verification of operation
- · No programing or tuning required

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







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