

e-TRIM

Burner Management System

Air/Fuel Ratio Monitoring System

Managing Excess Air - What's right for your application?



3.5" Color Touch-Screen Display

Data Logging to Flash Memory

Burner "Out of Tune" Alarm

ETHERNET

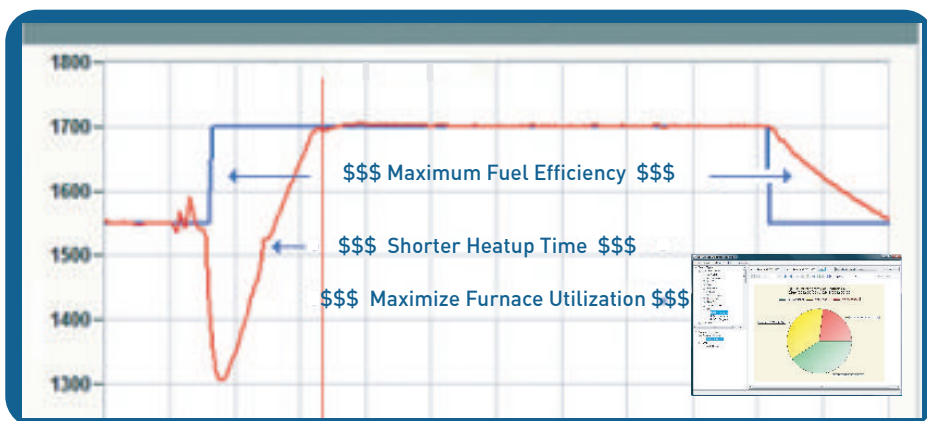
Multi-Sensor Inputs

Digital Input for High-Fire Notification

Burner Status Indication available remotely via Web-Browser

Burner "Not Lit" Alarm

Checking and tuning air/fuel ratios is one of the simplest ways to get maximum efficiency out of fossil fuel fired process heat equipment.



Increased burner efficiency
Faster ramp to heat
Less fuel per load
Greater throughput
Reduce NO_x & CO₂
Increased radiant-tube life

According to DOE studies - optimizing combustion air can deliver 35% fuel savings

INNOVATIVE SOLUTIONS WORLDWIDE

S02-07201212-004



Super **Systems**
incorporated

e-TRIM

engineered for air/fuel ratio monitoring

Excess air dilutes combustion

- Lowers flame temperature
- Less heat for the load
- More wasted heat in the exhaust gasses
- Increases NO_x

Optimum excess air for energy efficiency and pollution prevention:

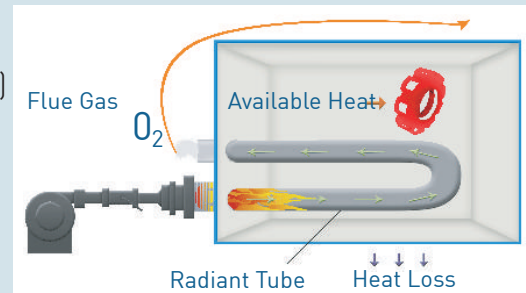
10% excess air - yields 2% excess O₂ in combustion gasses

Excess gas

- Sooting in radiant tubes
- Lower flame temperature
- Unburned fuel
- Dangerous gas emissions (higher CO)

Other benefits

- Process repeatability
- Maximum throughput
- Ensure temperature uniformity
- Longer radiant tube life



Oxygen Verification

Continuous Mesh Belt Furnace

Belt Return Oxygen Verification



Low Level Oxygen Detection
Modular Design
Alarm Contact



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incorporated

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