

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

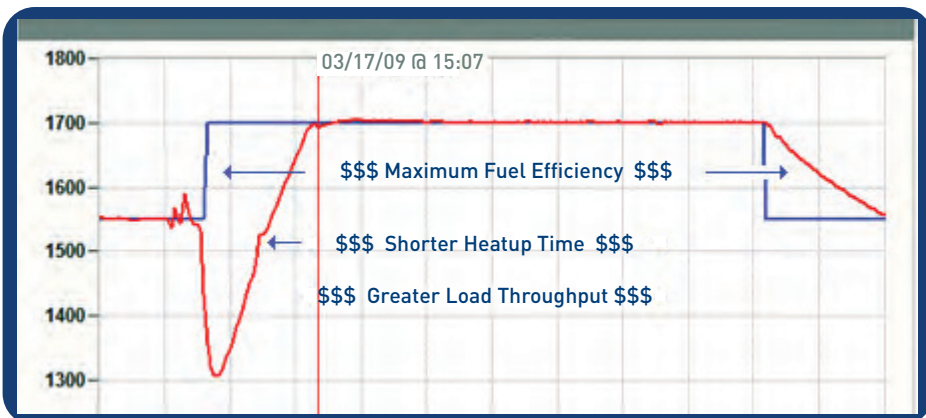
Multi-Sensor Inputs

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
 Maximizes throughput
 Reduce NOx & CO₂
 Increase radiant-tube life

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

INNOVATIVE SOLUTIONS WORLDWIDE



Super **Systems**
 incorporated

e-TRIM

engineered for air/fuel ratio monitoring

Excess air dilutes combustion

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

Optimum excess air for energy efficiency and pollution prevention:

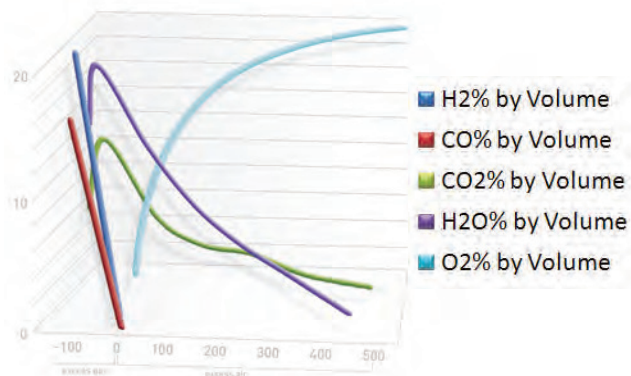
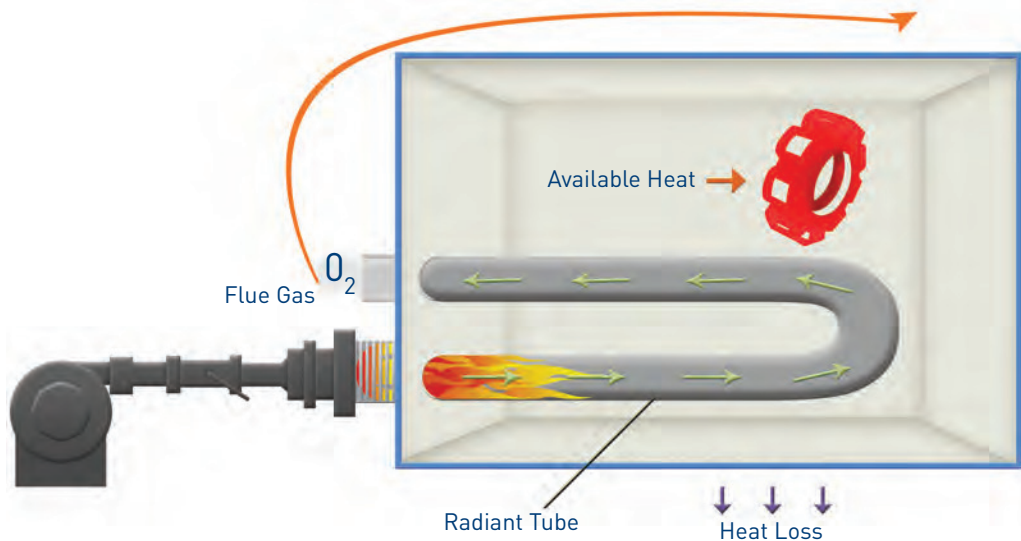
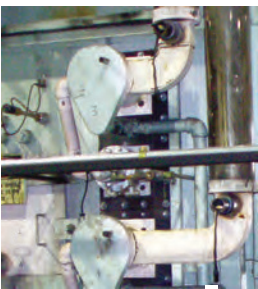
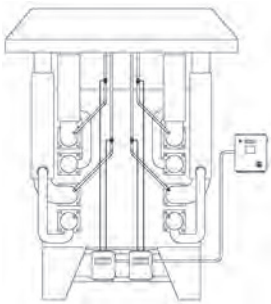
10% excess air - yields 2% excess O₂ in combustion gasses

Excess gas

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

Other benefits

- Process repeatability
- Maximum throughput
- Even distribution of heat
- Longer radiant tube life



Super Systems
incorporated

7205 Edington Drive
Cincinnati, OH 45249
513.772.0060 **phone**
513.772.9466 **fax**