

# Application Optimizer

## SPOTLIGHT

### Natural Gas Fired Industrial Boilers

How well have you optimized your process?

#### Air Inlet

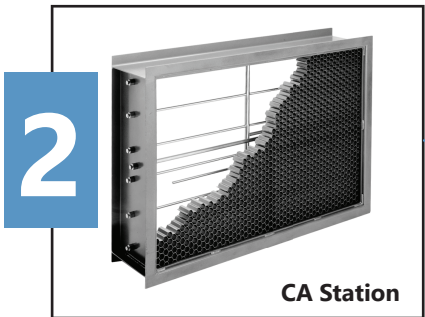
*"Optimize combustion with minimal emissions"*

##### APPLICATION CHALLENGES

- Limited straight run available
- High-turndown, low velocity
- Particulate-laden gas stream

##### IDEAL PRODUCTS

- VOLU-probe/SS Airflow Traverse Probe
  - best for moderate straight run
- CA Station Combustion Airflow Measurement System
  - best for limited straight runs



CA Station

AIR INLET

4-20mA Output

4-20mA Output

FORCE DRAFT FAN

FUEL FEED

FLUE GAS RECIRCULATION (FGR)

NATURAL GAS-FIRED BURNER

SIMPLIFIED INDUSTRIAL BOILER

VOLU-probe/SS

3

#### Flue Gas Recirculation (FGR)

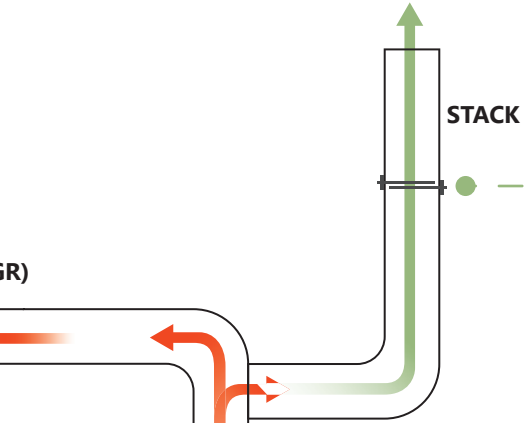
*"Precise combustion control for additional emissions reduction"*

##### APPLICATION CHALLENGES

- Limited straight run available
- High-turndown, low velocity
- Particulate-laden gas stream for fuel oil
- High temperature

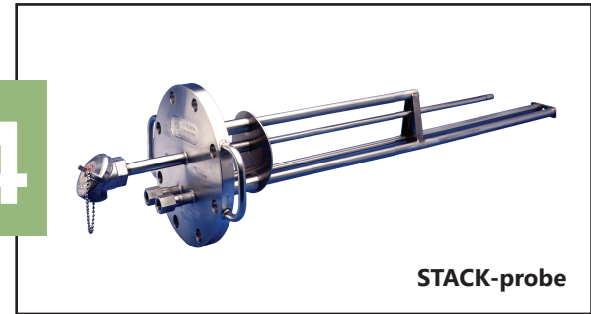
##### IDEAL PRODUCTS

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STACK

4



STACK-probe

#### Exhaust to Atmosphere

*"Stay in compliance with EPA and other air quality regulations"*

##### APPLICATION CHALLENGES

- Dirty exhaust gas potential
- Reporting typically required
- Corrosive potential
- High temperature

##### IDEAL PRODUCTS

- STACK-probe
  - Multipoint averaging probe
  - Closely matches the EPA RATA test

##### WITH TRANSMITTER

- MASS-tron II/CEM (continuous emissions monitoring)
  - AUTO-zero, eliminate transmitter zero error
  - AUTO-cal, measure transmitter zero & span drift
  - Temperature and absolute pressure compensated mass flow output

1



FT1

#### Fuel Gas to Burner

*"Ensure complete combustions with minimal emissions"*

##### APPLICATION CHALLENGES

- Natural Gas (most common)
- Low flow, low pressure
- Mass flow desired

##### IDEAL PRODUCTS

- Fox Thermal FT1/FT4A/FT4X
  - In-situ Calibration Validation w/ cert.
  - No temp or pressure compensation needed
  - Gas selection menu - (multiple fuels)

##### OTHER PRODUCT OPTIONS

- Retractor assembly
  - online maintenance
- Inline or insertion installation

##### WITH MULTIVARIABLE TRANSMITTER 2 3 4

- MASS-tron II Transmitter
  - best for standard applications
- VELTRON DPT-Plus
  - best for Class 1 Div 1

##### OTHER PRODUCT OPTIONS 2 3 4

- AUTO-purge III
  - best for dirty service
- Custom material selections:
  - Hastelloy, corrosion-resistant
  - Inconel, high temperatures

Schedule time with one of our experts.

[CLICK HERE!](#)

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