

Modernize Your Combustion Control with Flame-by-Wire[™]

Advanced combustion control maximizes efficiency while reducing carbon emissions with real-time O_2 CompensationTM

FLÂME BY WIRE

Innovative Combustion Technology

Inspired by advances in automotive and aviation, Flame-by-Wire[™] technology replaces the use of conventional pneumatic ("neg-reg") and mechanical linkage systems with a modern system of independent air and gas valves.

Real-time O_2 CompensationTM continuously tunes the burner air-fuel ratio, automatically optimizing for seasonality.

- Simplifies Start-Up & Maintenance
- Maximizes Condensing Operation
- High Turndown & High Efficiency

VARIABLE SPEED BLOWER

Energy-saving premix combustion blower reduces electrical costs.

ELECTRONIC AIR VALVE

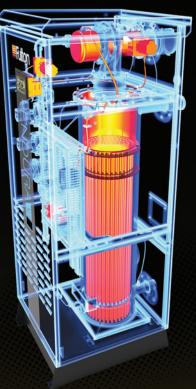
Maximize combustion efficiency and condensing potential by optimizing excess air.

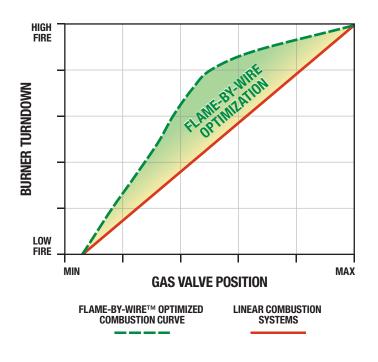
ELECTRONIC GAS VALV<u>E</u>

Precisely dial-in the fuel mixture to minimize carbon emissions and reduce energy use.

MODERN USER INTERFACE

Monitor and fine-tune boiler performance with the powerful and intuitive PURE Control.





Fully Optimized Air/Fuel Ratio

Conventional combustion controls rely on linkages and venturi-effect which can only be adjusted at two points: low and high fire. These systems are difficult to tune and are susceptible to nuisance lockouts from wind and draft.

Flame-by-Wire provides more reliable and efficient operation in real-world conditions by optimizing burner modulation rates at all points, not just the extreme ends.

- Perfectly Tuned for Site Conditions
- Reduce Fuel Use & Carbon Emissions
- Ensures Reliable, Worry-Free Heat

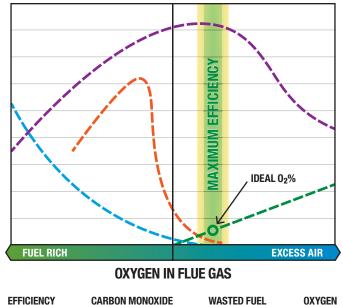
Real-Time O₂ Compensation

Fulton's O₂ Compensation continuously and autonomously tunes the burner air-fuel ratio to achieve the highest seasonal efficiency.

This self-tuning system maintains O₂ conditions in the "Goldilocks Zone," preventing the flame from drifting too rich, or too lean. This provides the maximum boiler efficiency through repeatable and reliable combustion.

- Maintains Ideal Excess Air Levels (O₂%)
- Automatically Optimize for Seasonality
- **Maximize Combustion Efficiencies**

Products Featuring Flame-by-Wire



CARBON MONOXIDE WASTED FUEL EFFICIENCY

ENDURA	ENDURA	ENDURA+	VSRT [®]
399k – 750k BTU/Hr	750k – 2 Million BTU/Hr	2.5 Million – 12 Million BTU/Hr	250 BHP
Flame-by-Wire™ Combustion Real-Time 02 Compensation™ Up to 15:1 Turndown	Flame-by-Wire™ Combustion Real-Time 02 Compensation™ Up to 15:1 Turndown	Flame-by-Wire™ Combustion Real-Time 02 Compensation™ Up to 30:1 Turndown	Flame-by-Wire™ Combustion Real-Time 02 Compensation™ Fully-Wetted Pressure Vessel
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fulton.com/flamebywire