

Combustion Technology: Powering the future with dual fuel industrial burner solutions



WITH South Africa's energy landscape facing unprecedented changes and uncertainty - particularly the looming 2028 end of Sasol's natural gas supply - businesses are under increasing pressure to future-proof their

operations. Combustion Technology, with decades of expertise in the supply of industrial burner combustion control and boiler systems, are uniquely positioned to help industries navigate these challenges through ad-

vanced tailored Dual Fuel Burner solutions.

Their extensive experience and technical knowledge have made them a preferred partner in the industrial burner space. More than just equipment suppliers, they pride themselves on delivering complete turnkey solutions.

From project management and detail engineering to post-installation support and maintenance, their commitment to customer satisfaction and long-term and consistent burner performance and unrivalled efficiency improvement sets them apart.

Multifuel burners: adaptability meets efficiency

Traditionally known as Dual Fuel burners, Multifuel Burners offer the ability to utilise a multitude of different fuel sources depending on availability, cost or environment.

A typical scenario would be utilising gas

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as the primary fuel and a liquid fuel such as diesel or paraffin as the secondary back-up fuel. However, Combustion Technology takes this capability several steps further.

Their modern systems allow seamless "Change on the Fly" (COF) switching between certain fuels, eliminating downtime and re-purging requirements, thereby conserving energy and operational continuity.

Why should industries consider Multifuel Burners? Two reasons stand out:

1. Operational resilience and energy security / de-risk

A boiler is often the heartbeat of an industrial operation. If fuel

supply falters, production grinds to a halt. Combustion Technology's Multifuel systems mitigate against this risk. For example, a burner primarily running on piped natural gas can instantly be switched to diesel should gas become unavailable. With reports surfacing about long-time gas suppliers in Gauteng possibly exiting the market, this kind of fuel flexibility is no longer a luxury - it's a necessity.

2. Cleaner, sustainable fuel integration

Many clients are seeking to incorporate alternative fuels such as Biogas, repurposed oils, and even hydrogen. Their Multifuel Burners are not only compatible with these

more sustainable and often more cost-effective options, but they are designed to seamlessly integrate and to optimise combustion using their cutting-edge Exhaust Gas Analysis (EGA) to constantly and consistently compensate for varying fuel quality and calorific value.

A real-world example: Biogas-Natural Gas Blending at a prominent brewery in Gauteng

One of the company's latest projects involves a bespoke Biogas Blending Skid for a major South African brewery. The system blends Biogas and Natural Gas, prioritising Biogas use to reduce emissions and fuel costs.

This engineered solution includes precision flow meters, gas analysers, and control systems to ensure a stable, high-efficiency output to meet their process needs.

In this case there

are three modes of operation - Natural Gas Only Mode, Blended Gas Mode, and Bypass Mode - allowing the system to adapt seamlessly to fluctuating Biogas supplies.

Ready for the future

Combustion Technology's Multifuel solutions deliver more than operational flexibility - they offer a strategic edge in an era of increasing energy change and uncertainty. Their solutions, powered by Limpsfield Industrial burners and Autoflame Controls, are backed by guaranteed savings, advanced burner management, and a proven track record of customer satisfaction.

They empower clients across industries to optimise energy use, cut costs, lower emissions, lower their carbon footprint and build long-term resilience.

For more information, visit www.combustiontechnology.co.za.



Fuel Flexibility. Guaranteed Savings. Total Control.

Multifuel Burners:
Adaptability Meets Efficiency for the Future

- ✓ **Run up to 4 different Fuels**
Adapt to rising fuel costs and supply issues
- ✓ **Guaranteed Energy Savings**
Proven ROI with measurable cost reductions
- ✓ **Advanced Burner Management**
Limpsfield Burners & Autoflame Controls
- ✓ **Reduce Emissions**
Meet environmental standards and boost sustainability
- ✓ **Turnkey Solutions**
Installation, integration, and support handled by experts

SPEAK TO US ABOUT A TAILORED MULTIFUEL BURNER SOLUTION TO BEST SUIT YOUR BOILER OR PROCESS NEEDS

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