

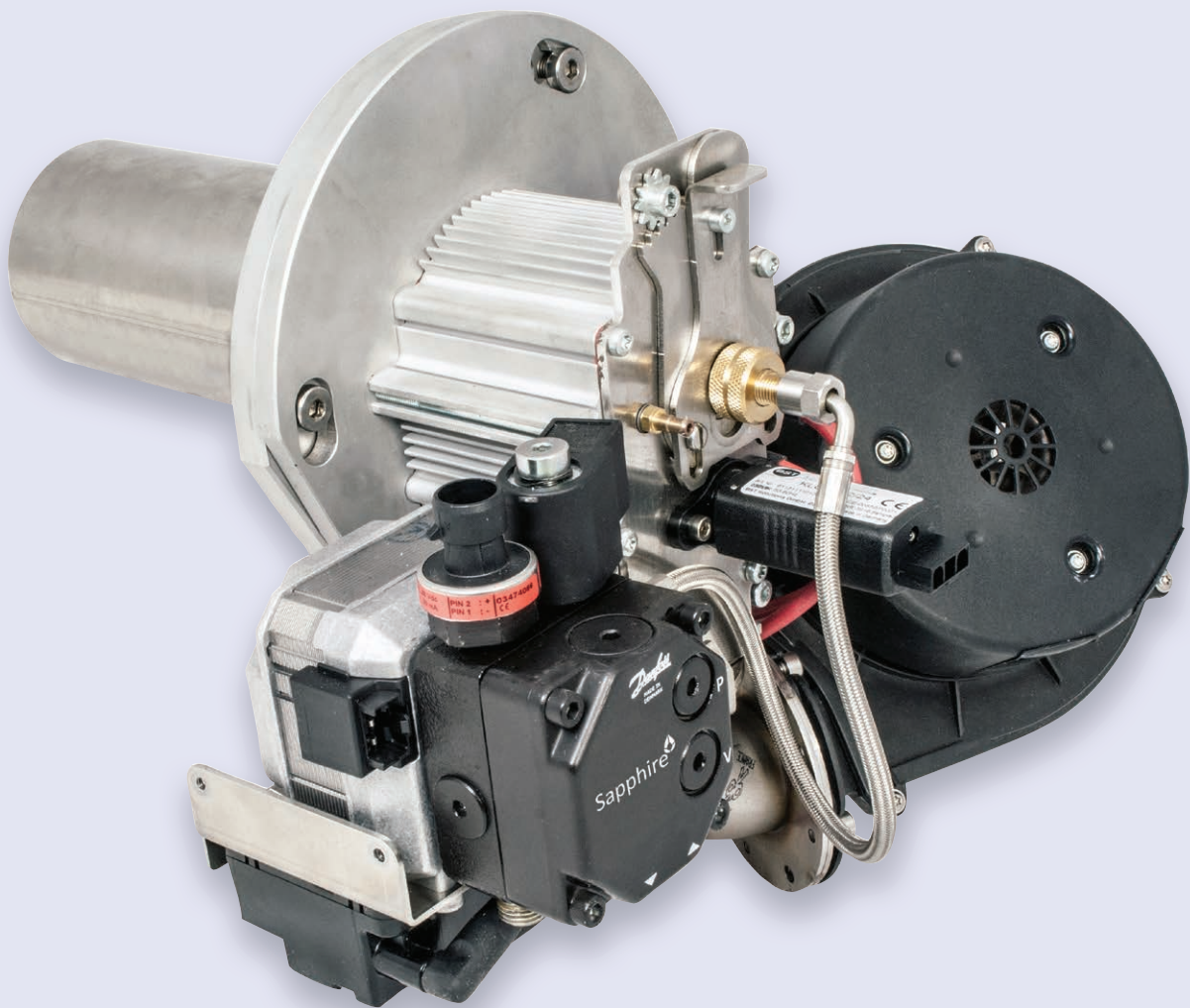


Reliable energy. Flexible approach.

LOW NO<sub>x</sub> DOMESTIC OIL BURNER

# Clean energy

from **EOGB**



**Sapphire**  Low NO<sub>x</sub> burner

ULTRA LOW NO<sub>x</sub> | FULLY MODULATING | 10 – 30KW RANGE | ENHANCED FUNCTIONALITY

# Sapphire<sup>®</sup>

**Fully modulating  
low NOx burner for  
domestic oil heating**

**EOGB's Sapphire blue flame burner delivers excellence in performance and reliability, backed by first-class technical expertise and a personable, responsive service.**

## **Low NOx - High performance**

Sapphire has been designed from the outset to bring about a step-change improvement in domestic heating performance. The blue flame burner not only meets the new 2018 ErP Directive NOx emission standard but also the more stringent requirement expected in 2022.

At the same time, Sapphire's fully modulating operation delivers the best in energy efficiency and carbon emission reduction of any domestic oil burner on the market today.

## **Innovative modulating control**

Sapphire's innovative control system offers a range of operating modes including fully modulating, two stage and on/off. A third stage hot water mode allows operation with a combination boiler.

In modulating mode, Sapphire's precision load tracking and optimum efficiency across the firing range delivers industry-leading energy performance for ultra-low running costs and significantly reduced carbon emissions – powerful marketing messages for boiler manufacturers.

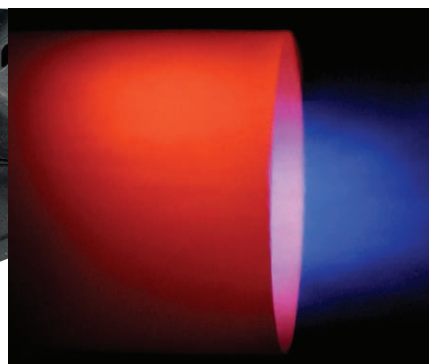
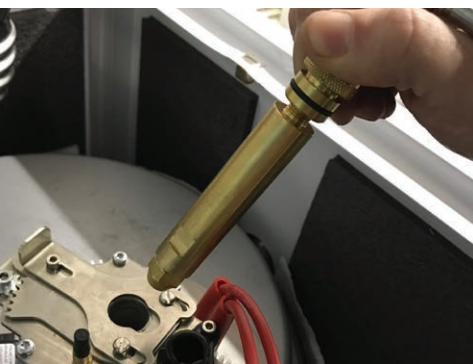
## **Contact us today**

Contact us today to understand more about EOGB's Sapphire blue flame technology.

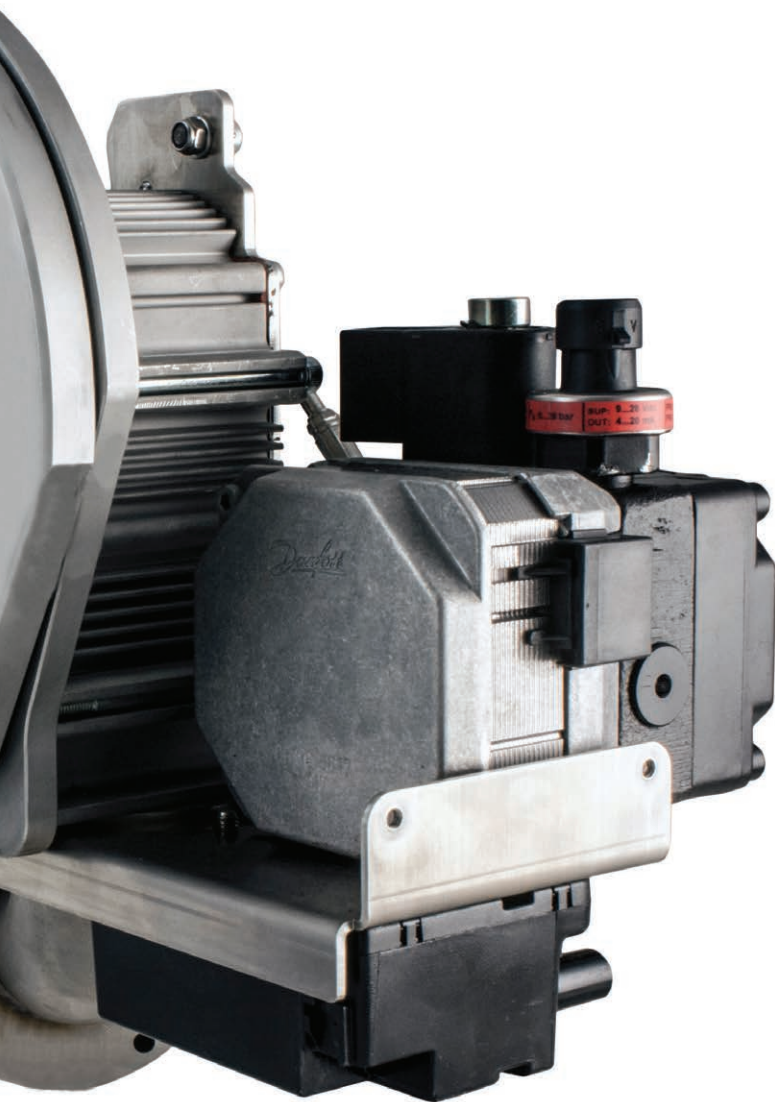
## **Advanced future-proof design**

EOGB's Sapphire blue flame burner delivers a range of key benefits to both OEM and the end user alike:

- **Satisfies both 2018 and projected 2022 ErP Directive legislation**
- **Delivers significant improvement in boiler performance**
- **Reduces carbon emissions**
- **Flexibility to incorporate into existing applications**
- **Simple maintenance with advanced diagnostics**
- **Robust, quality construction**







### Key features

- 10 – 30kW operating range
- Blue flame technology to meet projected 2022 ErP low NOx legislation
- Fully modulating, two stage and on/off modes; third stage hot water mode
- Full electronic control of fuel and air management
- UV flame scanner with diagnostic plugin capabilities
- Danfoss high efficiency modulating oil pump
- Unique burner management system to suit different manufacturers' heat exchangers
- Advanced fault code diagnosis
- Full versatility to allow for various fan and component configurations
- Option to optimise with 'open them' technologies
- Specific OEM specifications available
- Innovative design allows nozzle to be changed without removing the burner

### Effort free installation and maintenance

The compact Sapphire burner is designed to be easily incorporated into the majority of modern boiler designs.

For added convenience, adjustment points for oil pressure, air and diagnostics are all front-facing. The Sapphire offers ease of use and convenience aimed at simplifying both the manufacturing process and servicing procedure.

### Built for today's markets

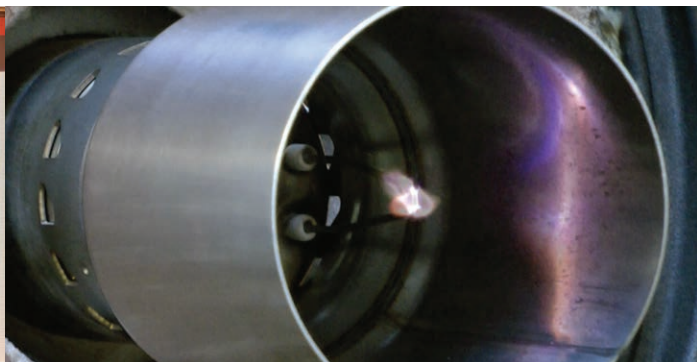
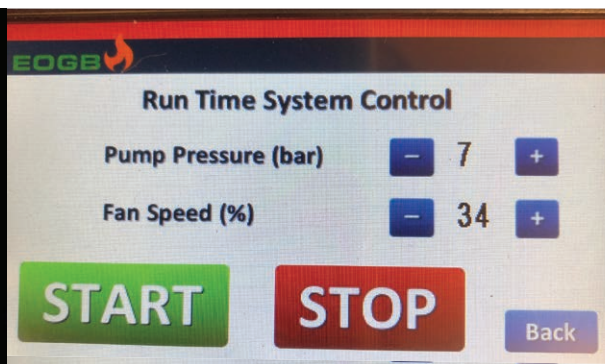
With meticulous attention to detail from concept and design through to production and use, every aspect of the Sapphire burner has been rigorously tested to ensure reliable, continuous and efficient operation.

Powerful motors with high temperature bearings are standard to give prolonged life and reliability, and internationally recognised quality procedures are followed to ensure the highest standards of manufacture and performance are met.

### Supporting now, developing for the future

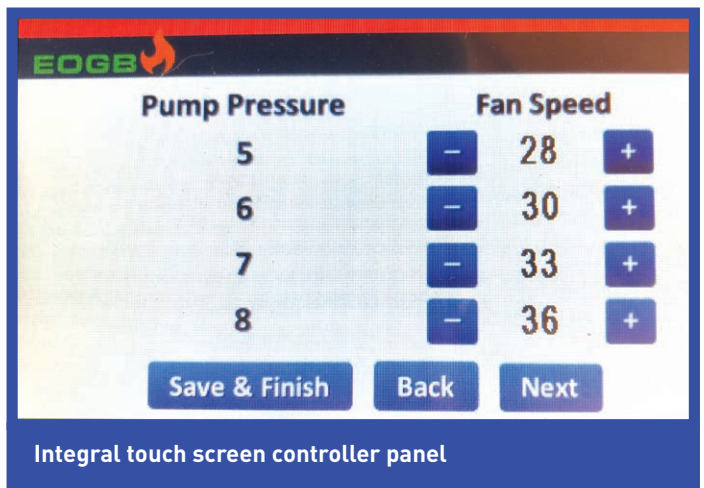
At EOGB our personnel are long-serving members of the heating industry with extensive knowledge of oil firing technology, supplying the highest quality products and services.

To meet new applications and changing requirements, EOGB operates a continuous development policy to satisfy future demands.

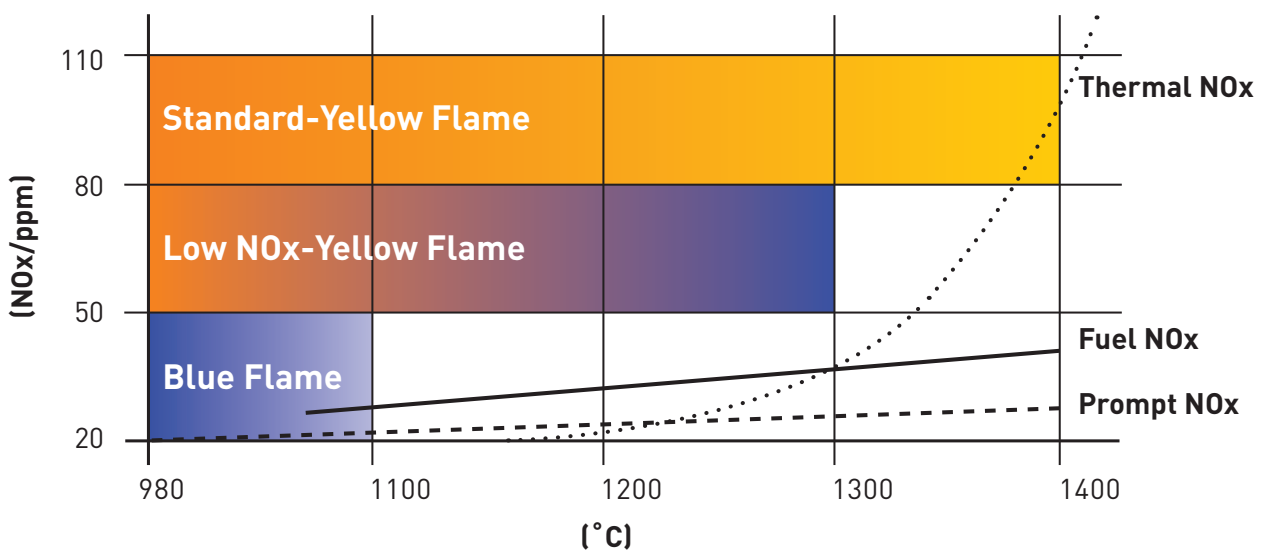


## Main technical features

- Suitable for kerosene
- Suitable for gas oil and bio blends
- Built to EN 267 standard
- Comprehensive in-built fault history log
- Flame detection diagnostics
- Specific fault recognition data
- Very high fan pressure
- Up to 15 modulating set points if required



## NOx vs Flame Temperature



### Technical training

EOGB offers a wide range of accredited training courses covering gas, oil and dual fuel burners and related subjects.

### Burners for commercial and industrial heating

EOGB is a leading manufacturer and distributor of oil, gas and dual-fuel burners for domestic, commercial and industrial applications.



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