



# Take a step towards sustainability

# With our Retrofit kit for process heating systems

## Our Expertise

Converting your boiler system to gas-fired is a smart move towards greater efficiency, reduced operational costs, and a smaller environmental footprint.

At Blaze Combustion Systems, we offer comprehensive retrofit conversion kit that ensure a seamless transition by converting existing heavy and light oil fired system to natural gas fired system.

## Our offerings

With over 30 years of experience in the industry and 400+ successful installations our team of experts offer conversion of the following oil fired systems.

Horizontal 3-pass smoke tube boiler

Vertical coil type boiler

Thermic fluid heater

Hot water generator

Hot air generator

Our Conversion kits are custom built after evaluation of the existing system to evaluate the changes required to the heating systems to ensure safe, reliable and efficient operations.

## Our Process



### Assessment & Planning

Our experts conduct a detailed assessment of your existing boiler system and fuel usage to develop a customized conversion plan that meets your specific needs.



### Design & Engineering

We design the conversion system, including all necessary modifications to accommodate gas fuel, ensuring compliance with industry standards and safety regulations.



### Installation

Our skilled service engineers carry out the installation process, including the integration of gas burners, fuel supply lines, and control systems.



### Testing & Commissioning

After installation, we perform rigorous testing before commissioning to ensure your new gas-fired system operates efficiently and safely.



### Training & Support

We provide comprehensive training for your staff on operating and maintaining the new system, along with ongoing support to ensure optimal performance.

# Benefits of switching to Natural Gas

- Natural Gas is cost effective
- Lower Emission levels than light and heavy oil
- With Natural gas the combustion is efficient and complete
- Maintenance & spares cost negligible
- Gas-fired boilers produce fewer emissions, contributing to a cleaner environment and helping you meet regulatory requirements.
- With lower operation cost payback of the conversion is much faster

## Our Conversion System

Blaze Combustion Systems provides a wide range of gas, dual fuel burners, gas trains and advanced combustion control and management systems designed and integrated in accordance to the system requirement. Our conversion system can be configured for dual fuel operation of the system.

### Burners

**Gas fired Burner**



**Low NOx Gas Burners**



**Blaze Burner Gun**

For coil type boilers



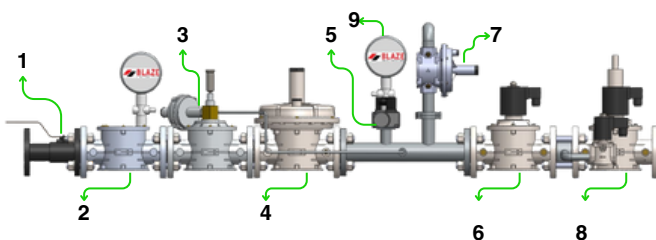
**Gas fired Burner**

For shell & tube type boilers



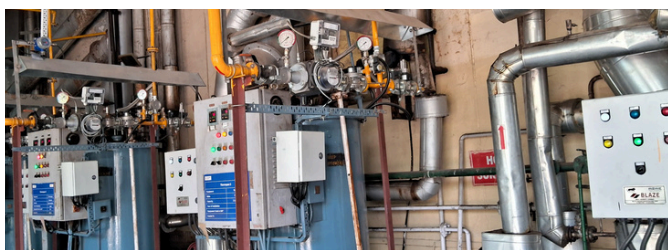
### Gas Train

The purpose of gas train is to reduce inlet pressure and regulate the flow of gas according to the burner requirement. Gas train acts as a safeguard for the burner and other downstream components. Gas trains can be configured according to the requirements.



- |                          |                                  |
|--------------------------|----------------------------------|
| 1 Isolation Valve        | 6 Safety solenoid valve          |
| 2 Gas filter             | 7 Safety relief valve            |
| 3 Safety shutoff valve   | 8 Working solenoid valve         |
| 4 Gas pressure Regulator | 9 Pressure gauge with test valve |
| 5 Pressure switch        |                                  |

### Control Panel



- Control panels are relay/PLC based
- Panels are connected to existing panels
- Prewired and tested
- Wall mounted/free standing
- Other functionalities can be added according to requirement of the user.

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