

## CASE STUDY ASHFORD INTERNATIONAL STATION



### Keeping heating running smoothly at Ashford International

"Reliable heat is vital in maintaining the smooth running of the station. Thousands of passengers pass through the terminals every day and a comfortable and pleasant environment is key."

Andy Murphy, Director at Apex PMI Ltd



#### Situation

Building facilities firm Apex PMI Limited contracted Remeha to implement a highly efficient heating solution at Ashford International Railway Station in Kent.

Originally opened as Ashford Station in 1842, it was rebuilt and extended as 'Ashford International' in the early 1990's and now combines a busy parkway station with 37 high-speed Eurostar departures every week. With an annual footfall of over 3.5 million, it is one of the busiest rail stations in Kent.

#### Solution

The new heating solution at the station is comprised of three Remeha P420-8 sectional boilers, each powered by Baltur TBG 45PN gas burners resulting in a total output capability of 3MW. The burners were supplied by EOGB Energy Products Ltd based in St Neots, Cambridgeshire.

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## << Benefits

By upgrading the existing heating system to boilers powered by EOGB/Baltur burners, the station now benefits from dramatically increased performance and reliability. The units also produce much lower CO<sub>2</sub> and NOx emissions and reduced fuel consumption.

**Martin Cooke, Technical Manager at EOGB, said: "The Baltur TBG 45PN gas burners are highly-energy efficient and provide excellent performance when coupled with the P420 range of Remeha boilers. The new heating system at Ashford International will improve reliability and reduce associated maintenance costs whilst significantly lowering the amount of energy used, which is a priority with sustainability at the top of the agenda."**

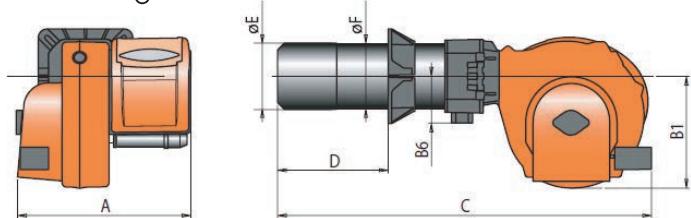
**Andy Murphy, Director at Apex PMI Limited, said: "Reliable heat is vital in maintaining the smooth running of the station. Thousands of passengers pass through the terminals every day and a comfortable and pleasant environment is key. The new heating system will be extremely beneficial in sustaining good levels of staff and customer satisfaction whilst also reducing running costs and carbon emissions."**



EOGB installed three Baltur TBG 45PN gas burners at Ashford International Station

## Technical

The EOGB Baltur commercial gas burners are available in single-stage, two-stage or fully-modulating mode with outputs from 50kW to 10,850kW. The burners have low CO<sub>2</sub> and NOx emissions and are easy to install, enabling trouble-free commissioning which is fully supported by EOGB engineers.



### Baltur TBG 45pn fully modulating gas burner

The Baltur TBG 45pn burner is a low NOx and CO emissions gas burner compliant with European standard EN676 'Classe III'. Features include:

- Two-stage progressive/modulating operation
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit)
- Modulation ratio 1:4
- High ventilation efficiency, low electrical input and low noise
- Exhaust gas recycling blast-pipe able to achieve very low pollutant emissions, particularly with regard to nitrous oxides (NOx)
- Maintenance facilitated by the fact that the mixing unit can be removed without having to remove the burner from the boiler
- Regulation of air flow rate for first and second stage with damper closure on standby to prevent in-flue heat dispersion
- Gas regulation by means of a proportional working valve that is pneumatically driven
- Possibility to choose gas train with valve tightness control
- Equipped with one 4 and 7-pole connector, one flange and one insulating seal for boiler fastening