



CONTRACT REPORT



Customer:

Pepsi

Location:

Shanghai

Boiler Type:

Thermal Oil Heater

Burner Model:

LCNO88

Fuel Fired:

Natural Gas

Diesel Oil



PepsiCo utilise Limpsfield to increase efficiency and reduce NOx in Shanghai China

PepsiCo, one of the world's largest food companies, has invested in a new production line in Shanghai China. The customer selected Limpsfield as the burner supplier because of their capability to handle high temperature pre-heated combustion air and meet the Low NOx requirement. PepsiCo is very happy with the result.

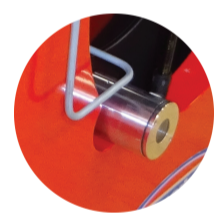
Limpsfield burner design for high temperature/hot combustion air applications



Electrical components positioned away from any heat sources. Same burner head design for easy set up and maintenance.



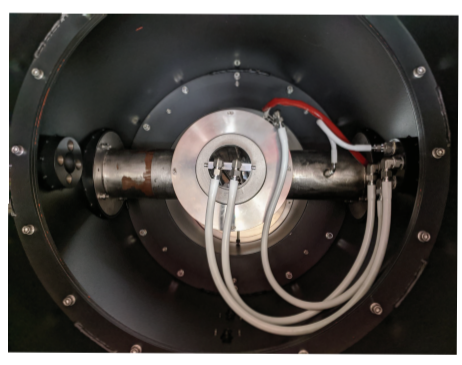
Burner Shroud – As well as reducing radiated heat the shroud reduces noise further for even quieter burner operation.



Compressed air required for cooling of flame scanner, no separate fan required



Utilisation of heat resistant material and paint to handle the hot combustion air



Limpsfield Low NOx solution

- Forced Flue-Gas Recirculation (FGR) allows the flue-gases to be introduced directly into the burner head, on both Natural Gas and Diesel oil.
- Stainless steel burner head and Flue-Gas Recirculation fan.

Project Result

1. Burner is running <3% O2 across the full turndown range and achieving 40-50 mg/Nm3 NOx emissions at a combustion air temperature of 200degC.
2. Heater efficiency of over 92% being measured.
3. O2 trim – constant O2 monitoring and O2 adjustment to increase further combustion efficiency.
4. Heater is running with temperature controlled to 1 degree C to allow for consistent quality of product to be produced.

For more information on the Limpsfield burner range, please do not hesitate to contact us.

Website: www.limpsfield.co.uk
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