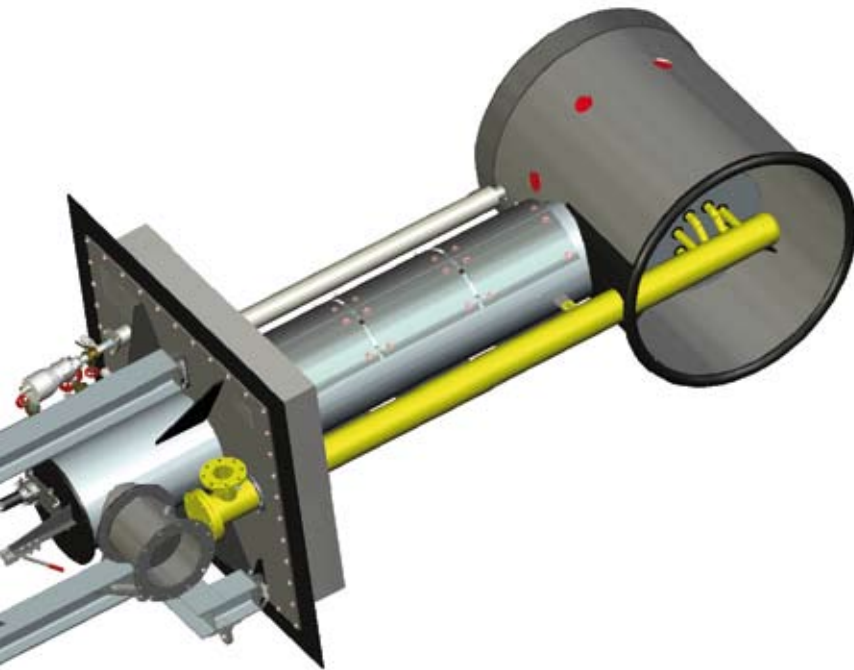


# GRC INDUCT oil & gas burners



For Heat Recovery Steam Generators in Fresh Air or Turbine Exhaust Gas mode  
Stable flame, easy switch-over, high operation flexibility, low pressure drop,  
low emissions even with latest generation of turbines (low O<sub>2</sub> content)  
Perfect temperature profile thanks to CFD simulation  
Burner load from 10 MW to 250 MW

→ Benefiting from 40 years of front firing experience



The **GRC INDUCT burner** gives full user satisfaction when firing gaseous and liquid fuel oil, in both Fresh Air or Turbine Exhaust Gas mode.

Its design uses advanced technology leading to the highest performances.

The main advantages are:

- Avoids flame impingement and hot points inside the boiler/duct.
- Provides a good temperature profile and reduces pressure drop. We perform Computational Fluid Dynamics simulations in association with our know-how in combustion to fit the HRSG design.
- Easy switch-over from gaseous to liquid fuel and vice-versa, high turndown ratio.
- Easy maintenance in operation, thanks to a patented fuel gun removal system.
- Long lifetime with sturdy equipment construction: burners / valves skids / BMS / air fans, compliant with NFPA requirements.
- Low NO<sub>x</sub> / CO / dust emissions compliant with international standards.

**NEWS:** The latest GRC INDUCT generation ("Fujairah 2" type) operates in combination with high efficiency gas turbines, with low O<sub>2</sub> (< 10% vol.) turbine exhaust gas content



#### CHARACTERISTICS

Fuels	Diesel, Light or Heavy Oil, tars, high viscosity oils, waste oils. Natural gas, LPG, refinery gas, process gas, syngas.
Combustive mixture	T.E.G. 9.5-15 % O <sub>2</sub> , 450-600°C. Fresh air.
Range	2 to 85 MW per burner head, fresh air mode.
Pressure drop	10 to 30 daPa (TEG mode), 20 to 90 daPa (Fresh Air mode) depending on specification.
Combustion head positioning	Unlimited number, lateral side access, horizontally or vertically downwards firing.
Liquid fuel atomisation	Steam or compressed air assisted, gun change-over whilst operating on gas.
Gaseous fuel injection	Unconditionally stable flame (patent FR 84/14484)
Turndown ratio	Typically 10 to 1, or more upon request.
Flame dimensions and emissions levels	Available upon request, on a case by case basis.

#### SOME REFERENCES

FUJAIH 1 (United Arab Emirates)	GRC Dual 4 x 250 MW
PETROBRAZI (Romania)	GRC Dual 2 x 60 MW
FUJAIH 2 (United Arab Emirates)	GRC Dual 5 x 250 MW