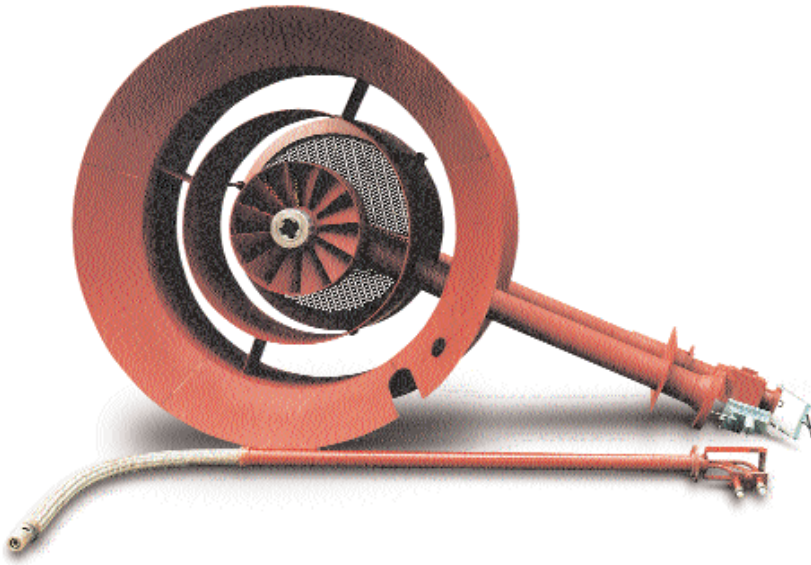


A boosting support



*Supplementary Firing Burners*  
*Stork Thermeq*



## Inline Circular Duct Burner

### General

The Inline Circular Duct Burner is designed for supplementary firing oil and gas based on the long term experience in windbox applications. This burner is appropriate for a wide range of fuel compositions, both liquid and gaseous fuels. The flame shape is adjustable by means of a cone, which also creates an optimal mixing of fuel and TEG/combustion air.

### Combustion principle

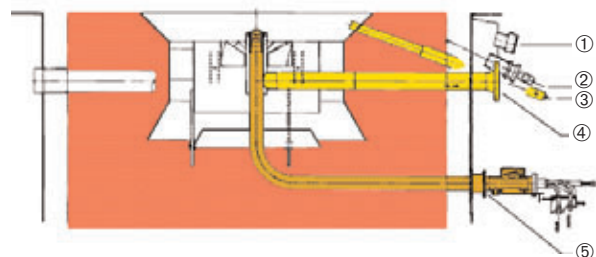
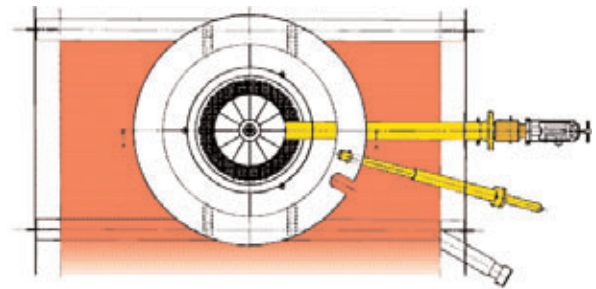
The fuel is supplied to the flame by the fuel nozzle in the centre of the burner. The TEG/combustion air is divided into a primary and secondary flow. The ratio of these flows will be set by the primary inlet cone in order to obtain the optimal flame shape and combustion performance. The swirler in the centre of the burner provides a stable ignition and combustion. The Inline Circular Duct Burner ensures a uniform heat distribution and low pressure drop.

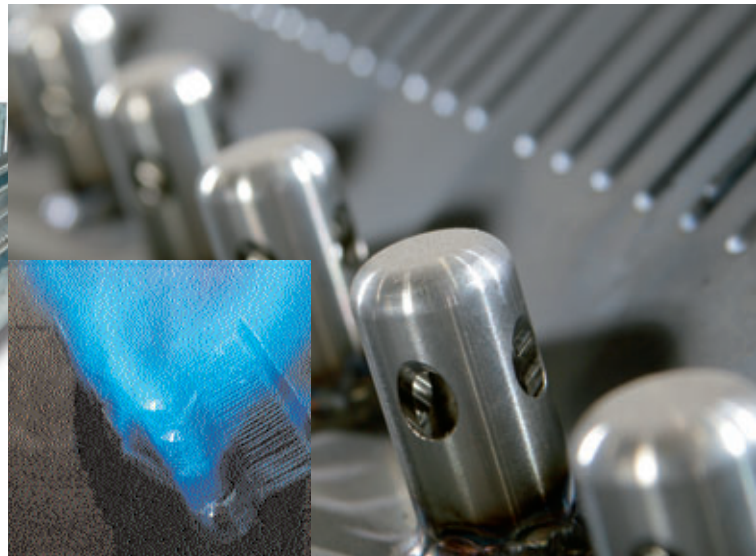
### Application

- Supplementary firing in ducts or plug in units
- Waste heat recovery boilers
- Supplementary firing of both gas and oil
- TEG and Fresh Air back up

Technical data
Fuel: Liquid / Gases
Heat input range 5 - 35 MWth
Guaranteed turn down ratio
Gas: 15/10 : 1
Oil: 4/6 : 1
Naptha 5 : 1

- ① SIGHT PORT
- ② FLAME SCANNER
- ③ IGNITION BURNER
- ④ GAS SUPPLY
- ⑤ OIL BURNER





## Inline Grid Burner

### General

After many years of experience with applying supplementary firing burners and experiments at the own test facilities, Stork Thermeq developed the Inline Grid Burner. This burner is appropriate for supplementary firing in ducts with large velocity TEG flows. The shape and the applied materials ensure a very robust construction and long lifetime. The Inline Grid Burner achieves a good flame stabilisation at both TEG and Fresh Air combustion maintaining a large turn down ratio and remarkably short flames.

### Combustion principle

The fuel gas is injected via the supply pipe by means of a nozzle into the flame. This means an optimum gas injection pattern and flexibility of the system for firing different gaseous fuels because of the changeability of the nozzles. Stabilising Vanes ensure a fixed ignition zone and a stable combustion.

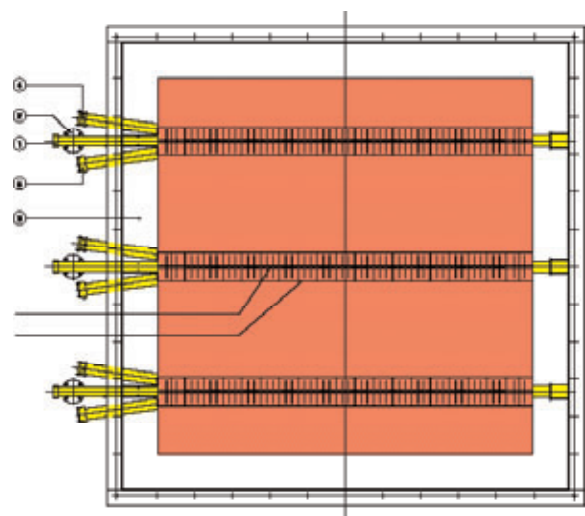
The Inline Grid Burner ensures a uniform heat distribution and a low pressure drop.

### Application

- Supplementary firing in ducts or plug in units
- Waste heat recovery boilers
- High fresh air/TEG velocities
- TEG and Fresh Air back up

Technical data	
Fuel: Gas	
Guaranteed turn down ratio (minimum)	15/10 : 1
Gas pressure before burner 1 - 2 bar(g)	

- ① IGNITION BURNER
- ② GAS SUPPLY
- ③ DUCT SECTION
- ④ FLAME SCANNER
- ⑤ SIGHT GLASS
- ⑥ ELEMENT
- ⑦ LINE



## Qualifications

Stork Thermeq BV is certified according to:

- ISO 9001 (2000).



- European Pressure Equipment Directive



- ASME certificates and Code Stamps S , U and R
- VCA\*\*
- TÜV, AD-Merkblätter HP 0 and TRD 201

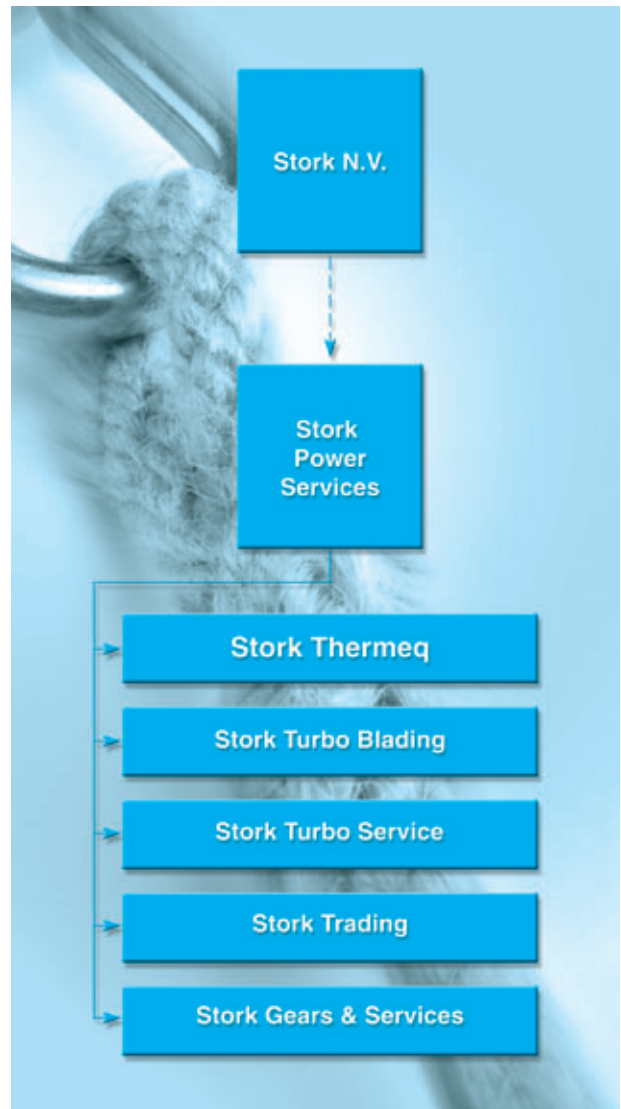


Furthermore, Stork Thermeq is qualified for designing, manufacturing, servicing and testing boiler components and pressure vessels to the internationally recognised rules and requirements of:

- Dutch Rules for Pressure Vessels
- UDT Office of Technical inspection, Poland
- Other Codes and standards as PD 5500, EN 13445, SVTI/ ASIT, IBR, CODAP, etc

Welders and welding procedures are available for any possible steel type and procedure combinations, such as prescribed by Euronorm and ASME.

## The Stork Network



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