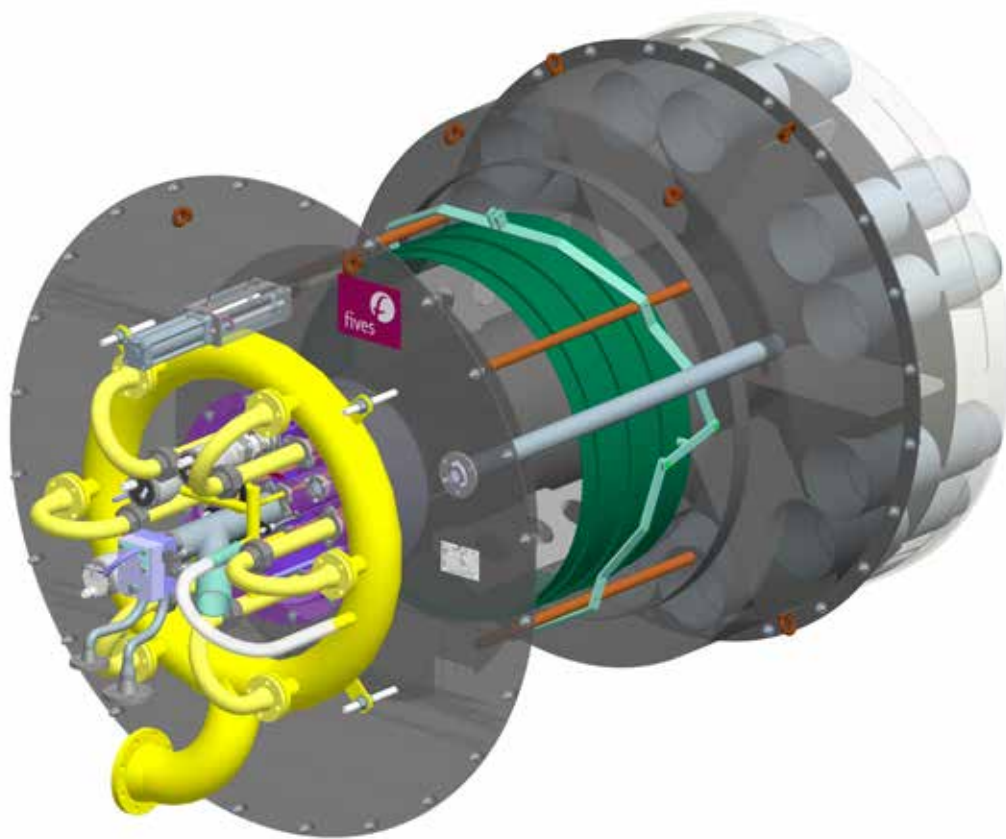


Pillard LONO_xFLAM[®] AS

Oil and gas burner



Best Available Technique (according to European standard) ensuring the lowest NO_x emissions in fuel oil firing.

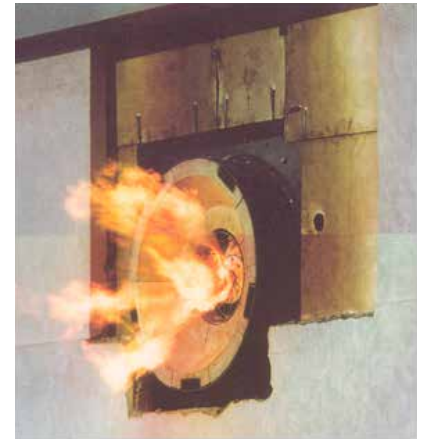
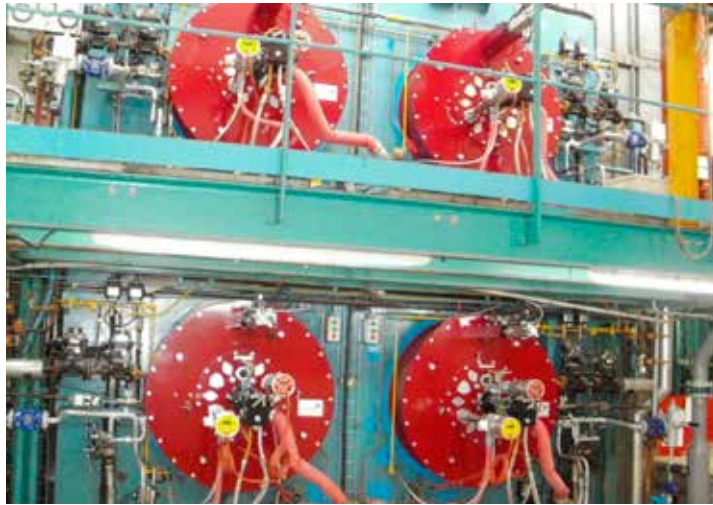
- Fitted for industrial water tubes boilers (front and tangential)
- Very low NO_x and CO emissions: 2010/75/UE compliant in NG, HFO and DO firing
- High thermal efficiency operation (O₂ ≤ 3%)
- All type of fuels fired: liquid (DO, HFO) and gaseous (NG, biogas, hydrogen, process gases)

The Best Available Technique for the lowest NO_x emissions in fuel oil firing

Pillard LONoxFLAM® AS burner is a low NO_x burner dedicated to fuel oil firing (HFO, DO, acrylics).

INNOVATIVE TECHNOLOGY

- Split-up of fuel-oil flames and fuel gas flames
- Combustion air staging
- Auto recirculation of flue gases
- Secondary air injections right in front of each flame dart
- Double stage fuel-oil atomisation



ULTIMATE RELIABILITY

- High flame stability
- Low excess air
- Low emissions of unburnt carbon
- Low emissions of CO and NO_x (-50 %)
- Possibility to add external flue gas recirculation when needed (in tough cases)

EASY MAINTENANCE

- Simple equipment
- Burner accessories complying with criteria of maximum reliability:
 - Gas-electric ignitors complying with the NFPA standards
 - Flame detectors complying with EC standards and APAVE, EDF approved

APPLICATIONS

- Thermal power station
- Water tubes utility boilers

Key features

Range of heat release	8 to 50 MW per unit
Turn down ratio	1 to 5 or more according to conditions
Flame dimensions	Similar to standard (non low-NO _x type) GRC burners
Combustion air temperature	Up to 400°C
Combustion air pressure drop	200 to 250 DaPa
Emissions	In compliance with European standards (2010/75/CE)
Fuels	Light oil, high viscosity oils, N°6 heavy oil Natural gas, refinery gas, process gas

Main references

Bangchak Refinery (Thailand)	1 x 52 MW HFO/NG burner for one 66t/h boiler
Tunisian Indian Fertilizers (Tunisia)	2 x 20 MW DO burners for one 50t/h boiler
Yara La Havre (France)	4 x 16.625 MW NG burners for a vertical furnace
TOTAL Grandpuits (France)	6 x 15 MW NG/HFO burners in a furnace heater
Arkema Carling (France)	1 x 25t/h boiler fitted with 1 x 19,50 MW acrylic acid burner
Cerrey Ras Tanura (Saoudi Arabia)	6 x 380t/h boilers each fitted with 6 x 50 MW
Bucharest South Power Station (Romania)	18 x 16 MW HFO burners x 2 in two 420t/h boilers
Braila Power Station (Romania)	8 x 36 MW HFO burner x 2 in two 320t/h boilers

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