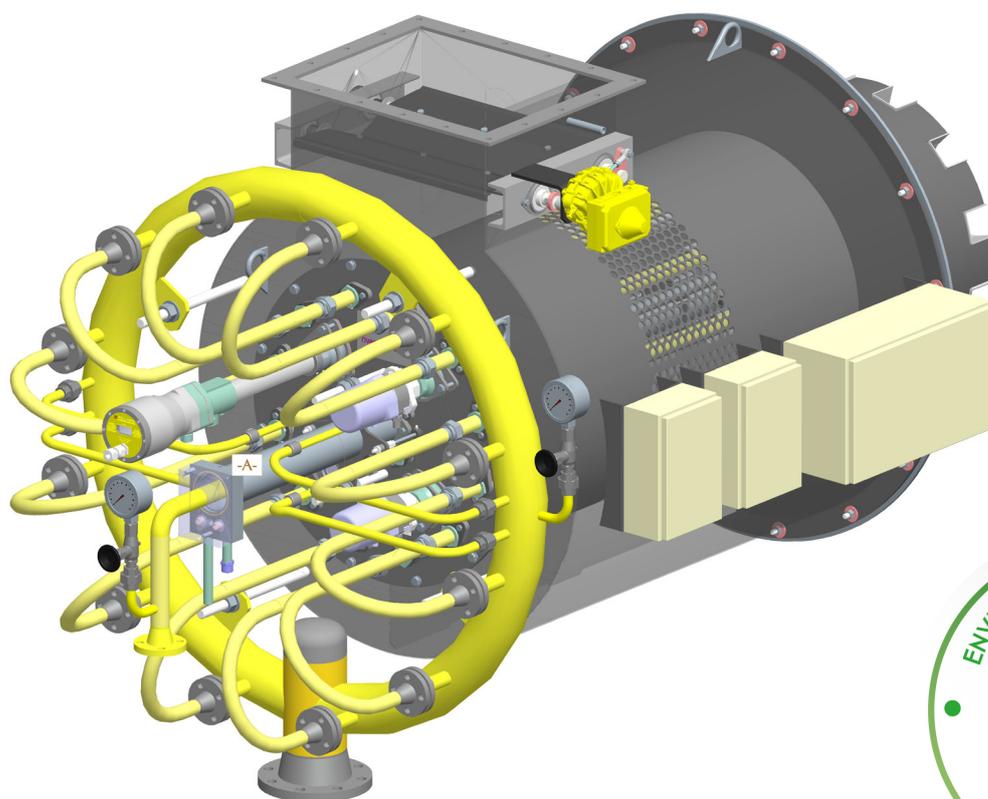


Pillard LONO_xFLAM[®] G2

Gas burner, package version

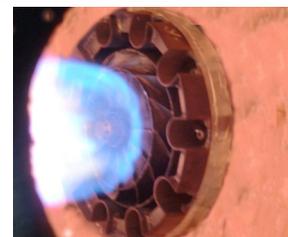


Best Available Technique (to European standards)
ensuring the lowest NO_x emissions in gas firing

- Fitted for industrial water tubes boilers (front and tangential firing)
- Very low NO_x and CO emissions (2010/75/UE Compliant in NG and DO firing)
- Supplied with individual air windbox and damper

- High thermal efficiency whilst in operation (very low excess air)
- All type of fuels fired : liquids (DO,HFO) and gaseous : NG, biogas, hydrogen, process gases

The Pillard LONoxFLAM® G2 burner is Fives's latest generation of GRC burner



The Pillard LONoxFLAM® G2 burner has very low NOx properties for fuel gas.

The patented Pillard LONoxFLAM® burner's technology, which is described as a Best Available Technique (BAT) in the 2006 and 2017 BREF Edition (BAT Reference Document in Large Combustion Plants published by the European Commission) enables a reduction of 50 to 75% of NOx emissions and to meet less than 30 ppm at 3.0% O₂ dry.

The burner's swirl and impulse are set according to the choice of combustion head which allows the flame shape to fit any furnace whilst maintaining a stable flame and a very low excess air.

No refractory quarl is needed, reducing investment and maintenance costs.

Key features

| | |
|----------------------------|---|
| Fuels | Natural Gas, LPG, biogas, refinery gas, syngas, process gas up to 80% H ₂ , CO, diesel oil, heavy fuel oil |
| Combustion air temperature | Up to 400°C |
| Burner pressure drop | 150 to 250 DaPa |
| Gas pressure | 1 to 2 barg (≤ 500 mb on demand) |
| Range of heat release | 6 to 120 MW per burner |
| Turndown ratio | 1 to 6 or more (on demand) |
| Excess air | ≤ 10% at MCR |

Main references

| | |
|---|--|
| Sugar Plants (Tereos, Cristal Union, Saint Louis Sucre) | 10 sites in France: 17 boilers, 49 burners 10 to 40MW each |
| Total Lacq (France) | 2x100t/h Steam Boilers fitted with 8+4 burners |
| COFELY Velizy (France) | 3 boilers (1x26.7 + 2x9.8 MW), 3x2 burners |
| CPCU Paris (France) | Heating plant - 9x170t/h Boilers fitted with 62 burners |
| Kadaka PowerStations (Estonia) | 2x160t/h Boilers (2x3 burners of 40MW each) |
| Ruien and Awirs Power Stations (Belgium) | 2x900t/h Boilers (2x12 burners of 71MW each) |
| Kwbebast Shanghai (China) | 1x70t/h Boiler fitted with 2x25MW burners (NG, H ₂ , CO firing) |

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CONTACT

fpi.sales@fivesgroup.com
T +33 (0)4 91 80 90 21

Fives Pillard
Marseille - France
www.fivesgroup.com



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