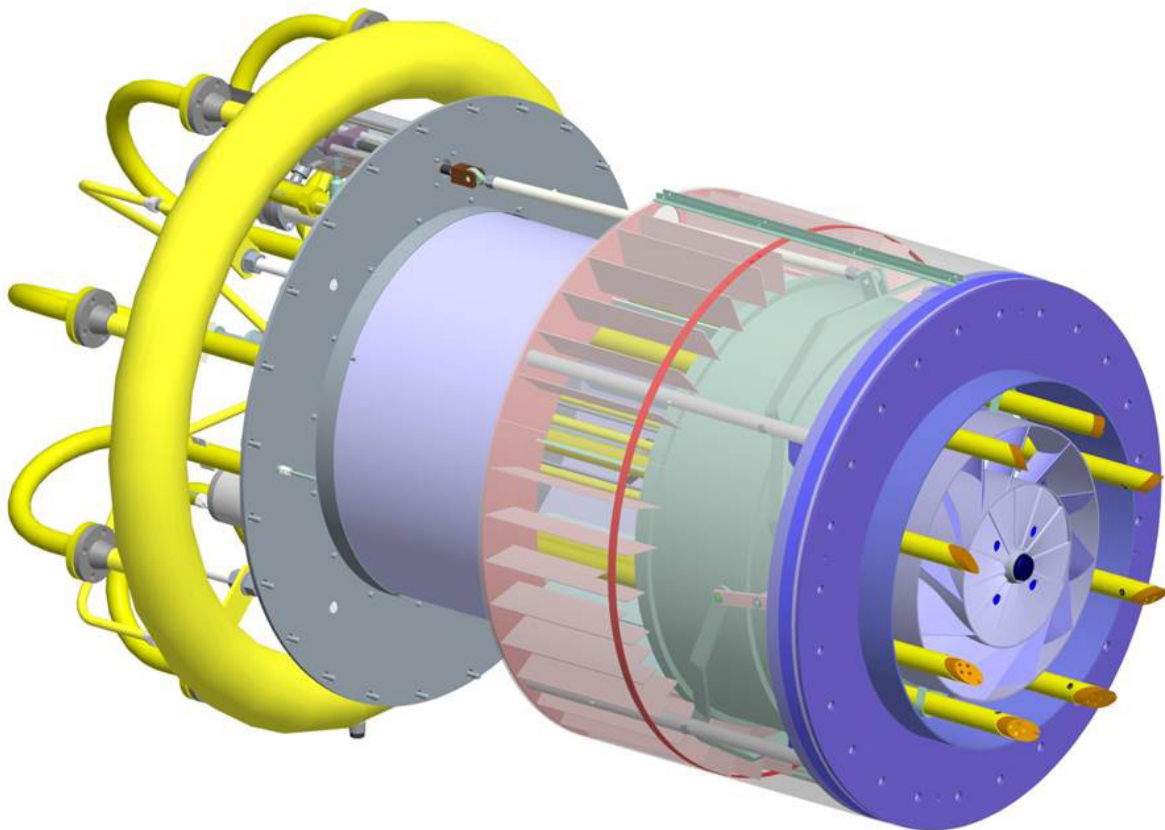


# Pillard GRFLAM™



## Oil and gas burners

- Versatile burner for boilers / power plants / HGG / steam injector / refinery furnaces / marine
- Wide range of useful fuels: HFO, DO, TAR, NG, gaseous fuels...
- Fitted to operate with external FGR or steam injection to reduce NO<sub>x</sub> emissions
- Safe (no PM, no CO) and easy operation even with very low excess air
- Reliability and simplicity due to ultra flame stability
- Easy to install and maintain

# The best efficiency and reliability with over 40 years of experience firing boilers

Pillard GRFLAM™ is a register burner developed in the 1970's (about 3,000 units sold for all types of applications). Its famous patented GRC swirler device, the result of extensive aerodynamic studies, enables perfect mixing and combustion even with very low excess air. These burners, using all liquid or gaseous fuels, are designed to offer the best thermal efficiency and the minimum CO and unburnt particles.

## A RELIABLE BURNER AND A STURDY CONSTRUCTION

Thanks to a very simple design, one air inlet and one fuel inlet, and due to a very stable flame, Pillard GRFLAM™ burners enable high availability whatever the type of fuel used.

Pillard GRFLAM™ can be equipped with a central oil gun (up to 2 separate liquid fuels fired at the same time) and up to 3 separate fuel gas circuits. Their internal combustion air shut off damper enables them to be fitted in a common windbox (up to 40 burners) and to be individually isolated during operation.

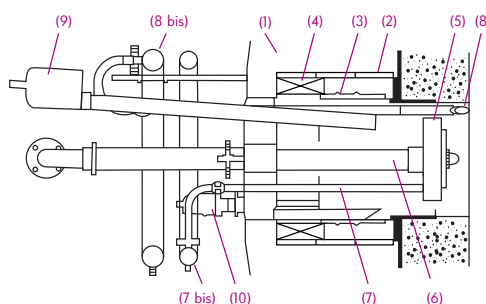
## A BURNER FITTED TO OPERATE WITH EXTERNAL FGR

Pillard GRFLAM™ technology makes it possible to use external FGR or steam injection to reduce NOx emissions by 50%, confirmed on a case by case basis according to the burner's operating parameters.



## ACCESSORIES

- Internal shut-off sleeve
- Ignition device (high energy of gas igniter type)
- Flame detection
- No refractory quarl needed



- |   |                             |                          |
|---|-----------------------------|--------------------------|
| (1) Air windbox                           | (5) Combustion head         | (8) Peripheral gas spud. |
| (2) Perforated plate for static balancing | (6) Central fuel gas jacket | (8 bis) Peripheral torus |
| (3) Mobile sleeve for dynamic balancing   | (7) "HSG" gas lances        | (9) Ignitor              |
| (4) Air distribution fins                 | (7 bis) "HSG" torus         | (10) Flame detector      |

Over **1,000** references worldwide. List available on request.

Key features	
Available fuels	NG, H2, LPG, Gaseous, HFO, DO, TAR...
Combustion air	Up to 400°C
Pressure drop	100 to 250 daPa
Range	3 to 102 MW per unit
Turn down ratio	1 to 10 or more according to conditions
Flame dimensions	Adaptable - Standard / Long / Very Long Flame available

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