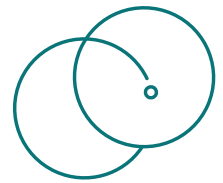




fives



PROCESS
TECHNOLOGIES

ENERGY | COMBUSTION

Pillard HeatGen System™



Vertical Hot Gas Generator for pulverized fuels

- Multi fuel firing (pulverized, liquid, gas)
- Automatic vault temperature control
- Proprietary pulverized fuel dosing system: Pillard STAPILDOS™
- Automatic air/fuel ratio control
- Air staging for optimized combustion
- 100% pulverized fuel operation (coal, pet-coke, anthracite) without a pilot flame

A robust and durable construction

The Pillard HGG has been designed to fire on any type of pulverized fuel reliably and automatically. Its unique vault temperature control maintains an optimum temperature to preserve a stable flame without damaging the refractory.

THE GENERATOR INCLUDES

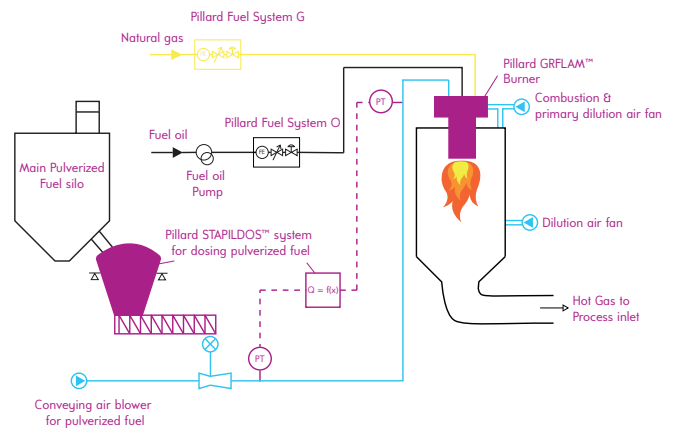
- A vertical refractory-lined combustion chamber with a supporting structure
- A Pillard GRFLAM™ type pulverized fuel burner
- Air staging to ensure progressive and optimized combustion
- A hot gas outlet
- A low part allowing ash discharge
- An ash extraction system
- Combustion and dilution air fans
- Valves required to control the pressure, flow rate and temperature of the ignition and support fuel oil (or gas)
- The pulverized fuel conveying line to the burner
- All safety and control devices including the control cabinet

COMBUSTION AIR STAGING TECHNOLOGY

The combustion air staging technology avoids the quenching of the flame at its root and ensures a stable flame without the need for fuel or gas support. The unique technology of dynamic combustion control according to the temperature of the chamber allows stabilisation of the vault temperature.

ADDITIONAL PACKAGE

- Pulverized fuel supply systems (Pillard STAPILDOS™)
- Fuel storage silos
- All automation, control and safety systems
- The ash evacuation system



Key features	
Solid fuels	Coal, lignite, anthracite, all petcoke, biomass ASF (depending on granulometry)
Power range	from 0.5MW to 60MW
Turndown ratio	from 1 to 3
Output temperature	from 300°C to 1000°C
Nature of the refractory coating	- Concrete and refractory bricks with a quality adapted to the chemical nature of the ash - Multi-layer coating: refractory bricks 40 to 52 % Al ₂ O ₃ / insulating bricks

Selected references	
FENI (Macedonia)	2x32,5 MWt Petcoke HGG, hot air at 800°C. 15m high, 5m diameter
PRONICO (Guatemala)	60 MW HGG, hot gases at 1000°C. 20m high, 5,5 m diameter, fuel: coal
Vicat Xeuilley	15 MW HGG, hot gases at 1000°C, fuel: lignite/petcoke

The information provided on this document is for information purposes only and does not constitute a legal obligation or a warranty, expressed or implied, of any kind.

CONTACT

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

Fives Pillard
Marseille - France
www.fivesgroup.com

