

VOLCÁN

Hot Gas Generator



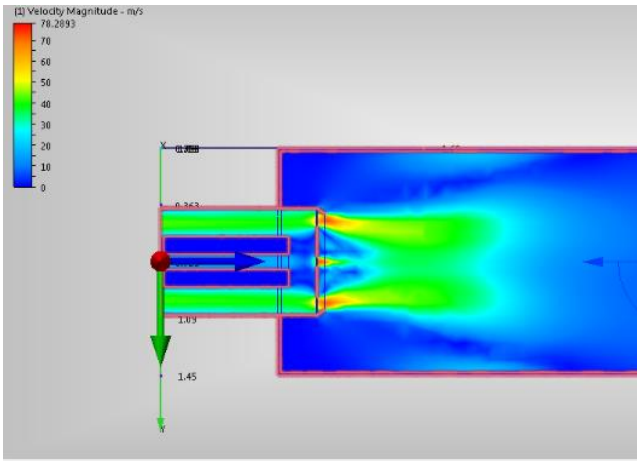
Vertical or horizontal
hot gas generator up
to 1200C.

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Natural gas, LPG, LNG, GAF, COG, biogas, light and heavy oil.

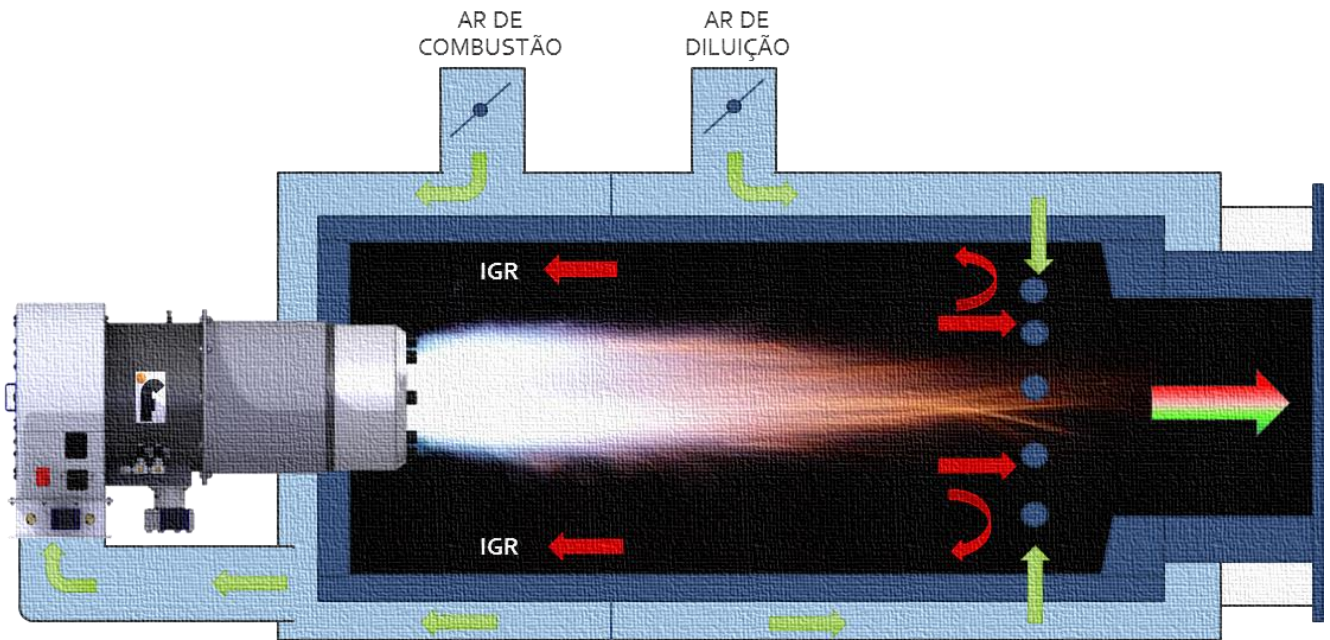
Operating principle



IGR® INTERNAL GAS RECIRCULATION



The IGR combustion principle® INTERNAL GAS RECIRCULATION provided exclusively by the aerodynamic effect introduced on the combustion front recirculates the gases already burned. This effect is used in **VOLCÁN** generators in order to improve the final temperature gradient in addition to increasing the durability of refractories and reducing NOx emissions



FRELSER VOLCÁN hot gas generators are composed of a double steel jacket with refractory coating, combustion and dilution air travels through the space between the walls of steel plates collaborating to improve the efficiency and durability of the equipment.

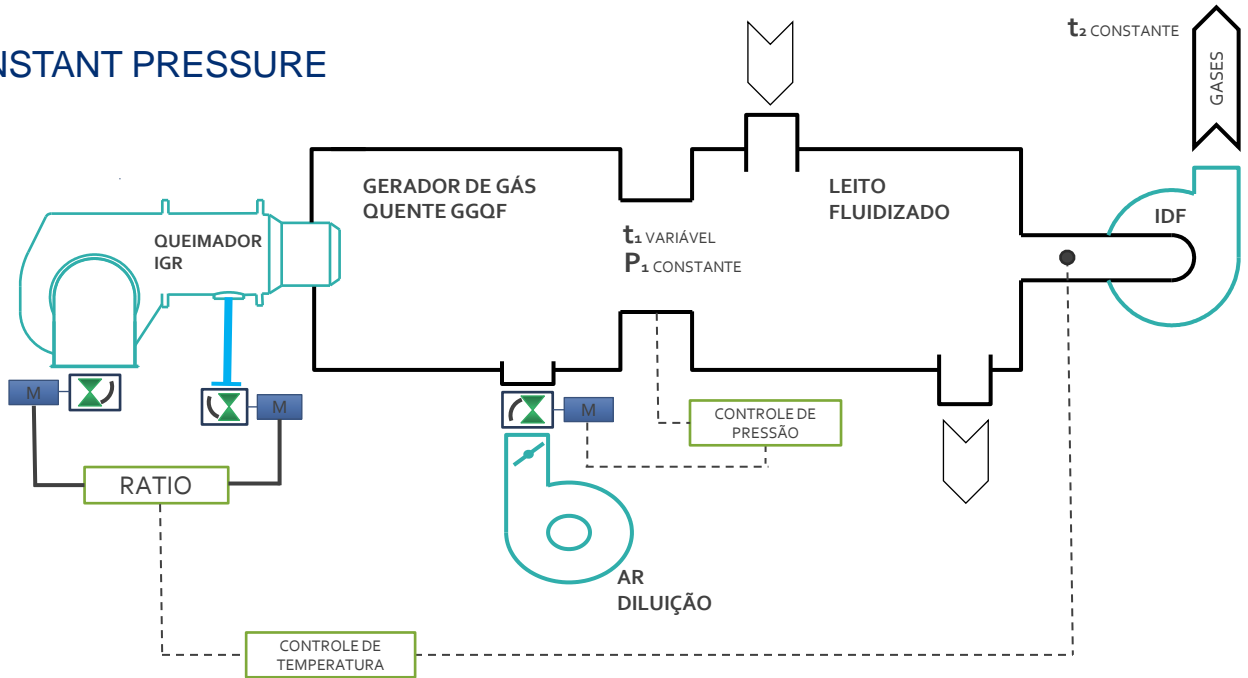
Pressure loss is usually extremely low, requiring low power fans.

The perfect mixture of dilution air that is injected at the opposite end of the combustion chamber is combustion gas, allowing the creation of a homogeneous hot gas temperature profile.

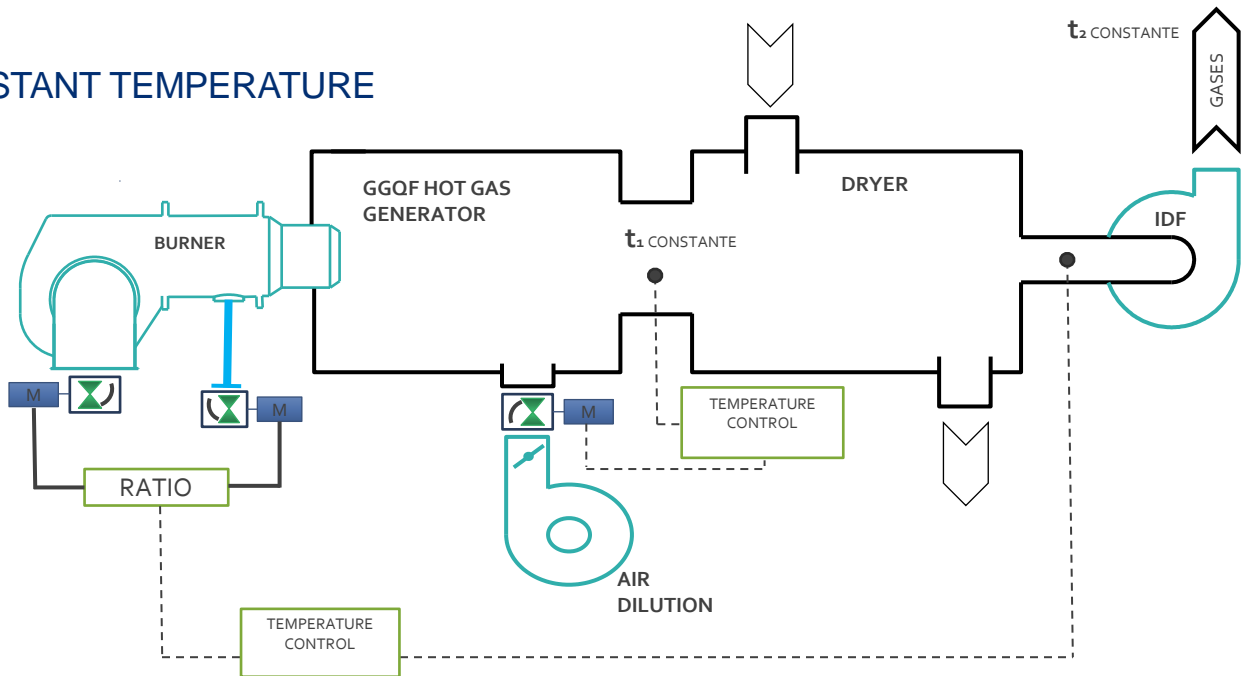
The temperature of the hot gas typically varies between 600° C and 1000° C.

Two main control strategies

CONSTANT PRESSURE



CONSTANT TEMPERATURE

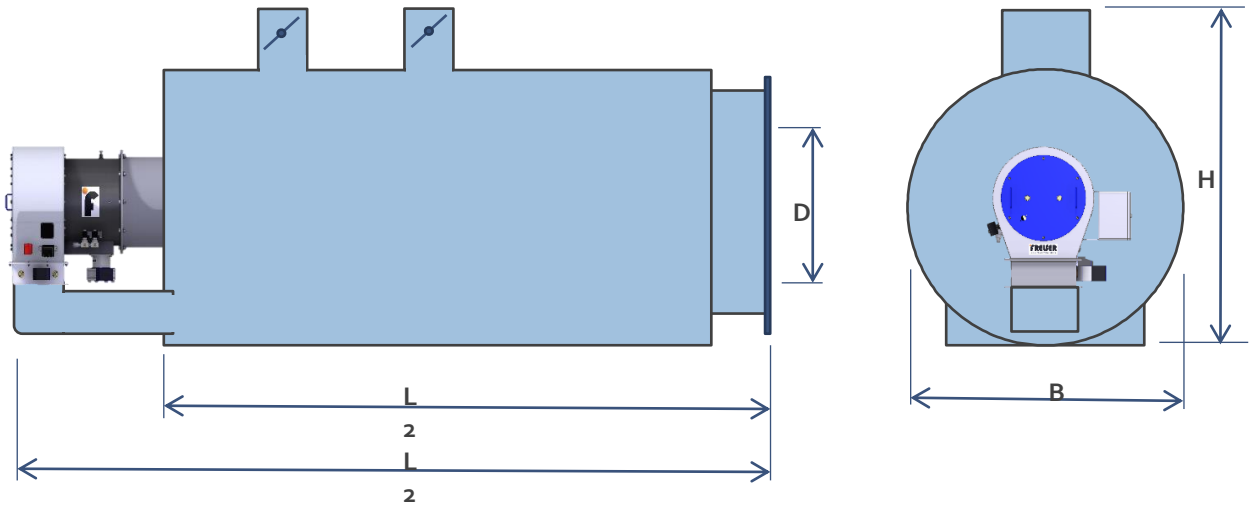


Gas leak detection and proof of valve operation, flame supervision, PID modulation and fuel/air ratio control Functional integration of burner/generator control all within a single high reliability unit with CE and UL certification.

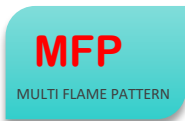
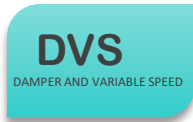
Improved combustion and control accuracy can save up to 5% in fuel costs and reduce emissions.

HI-IT replication via IP on any computer in the plant connected to the network at no additional cost.

Main dimensions and technologies



	MW	L1	L2	H	B	D	Peso (Kg)
25V	2.5	3000	4800	2050	1800	1050	9500
50V	5	3700	5700	2300	2200	1050	13000
80V	8	4300	5800	2825	2700	1400	20000
100V	10	4500	6000	2850	2900	1400	22000
150V	15	5100	6850	3200	3400	1600	23000
200V	20	5700	7600	3400	3500	1800	25600
300V	30	7000	9200	4250	4000	2200	40000
400V	40	7500	9800	4850	4800	2600	52000



FRELSER technologies applied to all **VOLCÁN** generators know each of them and know why **VOLCÁN** generators form a harmonious set with **FRELSER** burners.





We are the
Clear Combustion Experts

FREUSER

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