



HOT GAS GENERATOR

Termo-Isı designed first hot gas generator at 1987 since that time. They have been upgraded continuously to meet the most technical standarts. In the mean time so many assemblies have been manufactured between the capacities 0,174 MW to 60 MW. The working temperature between 150°C- 800°C.



EXAMPLES OF APPLICATIONS ARE

*** Drying processes**

Soil Industry : Brick drying processes
Sand drying processes
Gypsum pannel drying processes
Chemical Industry: Detergent drying processes
Fertilizer Industry : Fertilizer drying processes
Sugar Industry : Residue drying processes
Paper Industry : Continue paper drying processes

Packing Industry : Print drying processes
Metal Industry : Normalisation processes
Cement Industry : Coal drying, slag drying processes
* Start up combustor for fluidized bed furnaces
* Generation of hot gasses required to reheat flue gases.
* Combustor with heat exchanger to heat up process gases.



ADVANTAGES

- Relatively short heating up times and good control possibilities.
- Short mounting times due to their small total weight, even Ecostar combustors with high heat release rates can be completely pre-assembled in our factory.
- Minimum loss of heat ; Double shell design allows to recover a great deal of the heat flow. Otherwise passing outside through the refractory brickwork and bringing it back into the combustion process as pre-heated combustion.
- No need of drying and warming up.
- Individual process - dependent control possible because there is practically no stored heat.
- Wide range of control.
- Low operating is low cost.
- There is a small door to get in the generator for maintenance.
- You have ability to heat combustion air up to 100-120°C to gain combustion efficiency.

Duct-type combustor without refractory lining, with duct-type gas burners

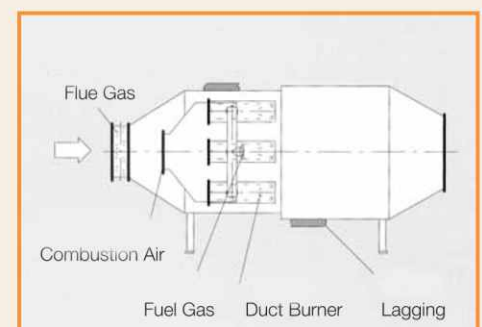
This combustor design can be chosen if the following conditions are fulfilled:

- The flue gas to be heated has a dust content of max. 50 mg/Nm³ and a max. temperature of 400°C.
- A combustible gas is available as fuel.
- The hot gas outlet temperature is max. 800°C.

The flue gas to be heated - up enters the duct - type combustor at the left side and flows - conducted by baffle plates - uniformly

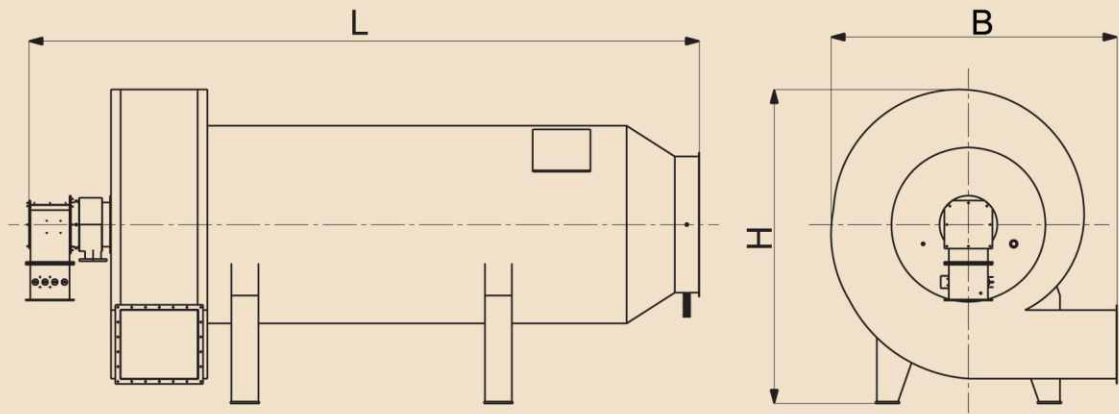
distributed past the burner elements. A result of the large burner outlet surface are smooth but nevertheless very short flames. This leads to an intensive mixing of combustion exhauste gas and the flue gas to be heated-up.

This is how a uniform temperature profile can be achieved at the hot gas outlet, especially with hot gas temperatures below 400°C.



The essential advantages of this design compared with a conventional refractory lined combustor are:

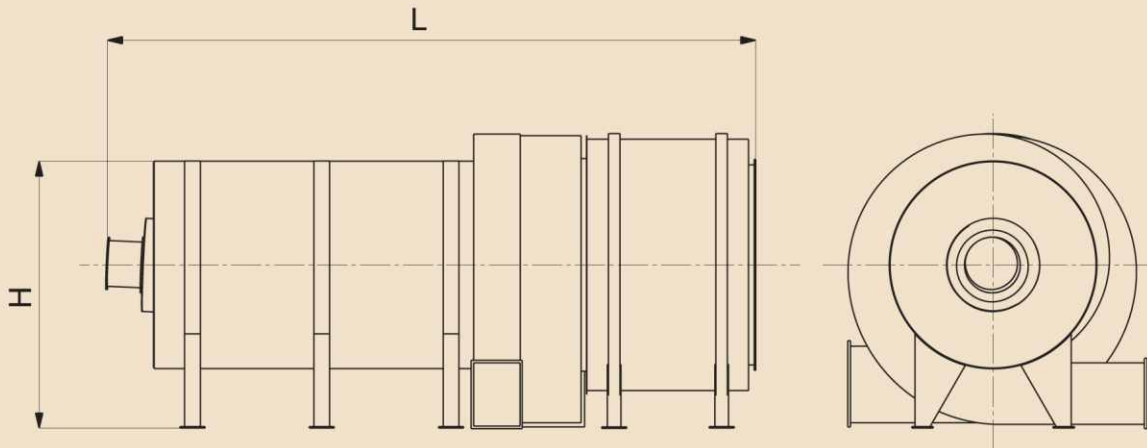
- Low pressure loss.
- Small weight.
- Cost-effective manufacturing.



Max. 500°C

Hot Gas Generator Outlet Temperature Max. 500°C

TYPE	CAPACITY	DIMENSIONS (mm)		
		L	B	H
SHG 25	250.000 kcal/h	2.500	1.450	2.250
SHG 50	500.000 kcal/h	2.750	1.700	2.500
SHG 75	750.000 kcal/h	3.000	1.950	2.750
SHG 100	1.000.000 kcal/h	3.250	2.200	3.000
SHG 150	1.500.000 kcal/h	3.500	2.700	3.500
SHG 200	2.000.000 kcal/h	3.750	3.200	4.000
SHG 250	2.500.000 kcal/h	4.000	3.450	4.250
SHG 500	5.000.000 kcal/h	5.000	3.700	4.500
SHG 750	7.500.000 kcal/h	6.000	3.950	4.750



Hot Gas Generator Outlet Temperature between 600°C - 1000°C

TYPE	CAPACITY	DIMENSIONS (mm)	
		L	H
YSHG 10	10.000.000 kcal/h	6,900	3,000
YSHG 15	15.000.000 kcal/h	8,300	3,200
YSHG 20	20.000.000 kcal/h	9,900	3,450
YSHG 25	25.000.000 kcal/h	10,900	3,700

We have special products for other capacities.



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