CCS Hot Gas Generators

The first hot gas generators were designed in 1963 as the "BB" series (from the German word for combustion chamber block).

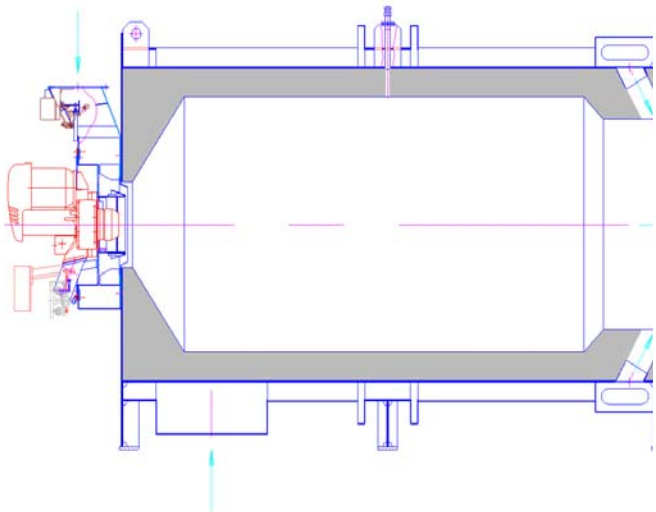
Since then they have been the subject of continuous R&D, and comply with today's stringent standards on technology.

By now more than 1000 hot gas generators have been delivered for a heat capacity ranging from 2.0 to 50 MW.

The new "CCS" (Combustion Chamber by SAACKE) series consists of a double steel jacket with a fireproof lining. A gas stream chanelled through the double jacket returns the radiant heat back into the process in the form of so-called dilution air, thus optimizing the total heat utilization.

The dilution air is mixed in with the flue gas through nozzles at the end of the hot gas generator, creating a homogeneous hot gas temperature profile. The temperature of the hot gas usually ranges between 600 °C and 1000 °C.

The burner is mounted on the front of the combustion chamber. The fuel (oil, gas) is fired with a high turn-down ratio and about 70 % excess air.



Principle drawing of the SAACKE CCS hot gas generator

A SAACKE CCS hot gas generator with an SKV burner

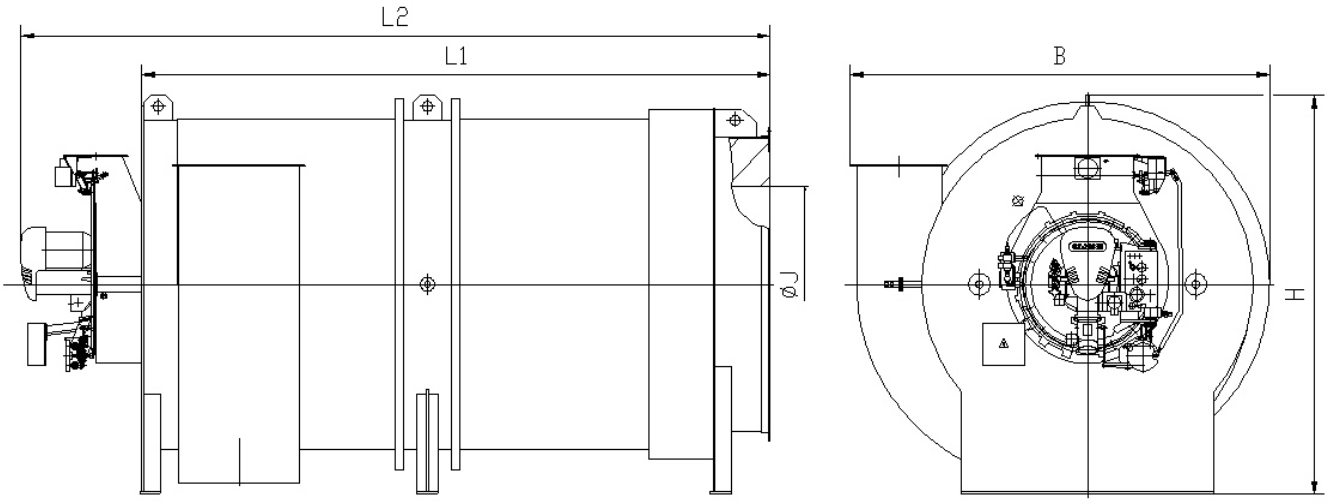
SAACKE hot gas generators can be used in any application where hot gas is used directly in the drying process or required for a chemical process.

For example:

- in the building materials industry:
  for manufacturing plaster / cement
  for drying chalk
  for drying limestone
- in the chemical industry:
  for drying potash
  for manufacturing detergents
  for manufacturing phosphates
- in the raw materials industry:
  for processing iron ore
  for processing nickel ore
- organic substances:
  for drying sugar beet chips
  for drying wood shavings

2010-01

Dimensions and weights



Dimensions and weights of the SAACKE CCS hot gas generator

		Dimensions in mm					Weight in kg
	Max. output	L1	L2	H	B	∅ J	(approximate values)
CCS 25	2.5 MW	3000	4350	2050	2050	850	9 000
CCS 50	5 MW	3700	5080	2300	2360	1050	12 000
CCS 80	8 MW	4300	5170	2825	2900	1300	18 000
CCS 100	10 MW	4500	5370	2850	3050	1400	20 000
CCS 150	15 MW	5100	6220	3200	3400	1600	24 000
CCS 200	20 MW	5700	6930	3400	3650	1800	27 000
CCS 300	30 MW	7000	8235	4250	4290	2200	43500
CCS 400	40 MW	7500	8735	4850	4940	2600	55500

SAACKE GmbH
Head Office: Südweststrasse 13, 28237 Bremen, Germany, Phone: +49 421 6495 0, Fax: +49 421 6495 5224
Contact offices worlwide: www.saacke.com, E-Mail: info@saacke.com