



Hot gas for every purpose

*Hot gas generation with the
SAACKE CCS product family*

Many industries require hot gases for drying and heating processes. In addition to standard fuels such as heating oil, heavy oil and natural gas, residual and special fuels are often also thermally utilised. The SAACKE CCS hot gas generator produces hot gas for the most varied applications. SAACKE designs and builds different variants of the CCS combustion chamber family in order to be able to use the technology for almost every industry, size and application.

The CCS family is characterised by an extraordinarily homogeneous temperature profile at the hot gas outlet and guarantees complete burnout of the fuel. The use of insulation reduces radiation losses to a minimum.

All CCS hot gas generators are produced in proven SAACKE quality and are extremely robust and durable. Operators and plant manufacturers trust SAACKE Engineering, which is based on many years of experience, individual plant design and reliable service.

Building materials

Food industry

Building materials industry

Wood processing

Exhaust gas cleaning

Energy and heat supply

Chemical industry

Pharmacy

Refineries

All advantages at a glance

- Suitable for all standard fuels and numerous special fuels
- Low maintenance intervals and robust design
- Wide control range with low emission values
- Homogeneous temperature profile
- Low radiation losses
- Complete burnout of the fuel
- Variable mixed gas / mixed air quantity
- Suitable as a thermal afterburning plant, for flue gas reheating and as a classic combustion chamber for many applications
- Proven SAACKE service

SAACKE CCS-HT

The all-rounder among hot gas generators shines through its versatility. It can be operated with various SAACKE burner types and can thus thermally utilise numerous standard and special fuels. These include, for example, low-calorific gases and liquids or dust-like fuels. The mixed gas or mixed air quantity can be varied thanks to a large control range. It is introduced tangentially into the shell and thus cools the combustion chamber in order to keep radiation losses to a minimum.

SAACKE CCS-HTcompact

The extremely short dimensions and lower weight allow the CCS-HTcompact to be installed in places where other hot gas generators simply do not fit. Despite its smaller dimensions, the CCS-HTcompact keeps the proven SAACKE promises: coming in below legal emission requirements, homogeneous temperature profile, low radiation losses and robust construction. It has the same power range and the same outlet temperatures as its big brother, the CCS-HT. The CCS-HTcompact is powered by natural gas.

SAACKE CCS-LT

Equipped with a steel combustion chamber, the CCS-LT is ideally suited to large mixed gas volume flows thanks to the very low pressure drop of < 5 mbar. Thus it also allows low hot gas outlet temperatures. There is no brick lining in the combustion chamber, so the construction is significantly lighter and requires less maintenance. The low mass of the hot gas generator CCS-LT enables very fast start-up and shut-down of the combustion chamber as well as rapid temperature changes during operation.

Individual plant engineering

Do you have an application that is not covered by one of the hot gas generators mentioned? Then challenge us. We will work out a solution.

Hot gas generator CCS-HT



Technical data

CCS-HT

Capacity range	2 - 40 MW
Fuels	standard fuels, heavy oil, low calorific gases and liquids as well as numerous powdery fuels
Outlet temperatures	$< 600 - 1,000^{\circ}\text{C}$

CCS-HTcompact

Capacity range	2 - 40 MW
Fuels	natural gas / special gases and low calorific fuels on request
Outlet temperatures	$< 600 - 1,000^{\circ}\text{C}$

CCS-LT

Capacity range	2 - 26 MW
Fuels	fuel gases, low calorific fuel gases and heating oil EL
Outlet temperatures	400 - 650°C (fuel gases up to 800°C)