

# CAPS | 90 kW Hot Gas Generator



Turn Key Hot Gas Test Bench for  
Thermal Testing of Exhaust Systems

## General

CAPS produces hot gas for technical test purposes. Significant amounts of time and money can be saved during thermal testing of vehicle exhaust system components. The modular set up enables the conception of arrangements for plain durability tests as well as for complex test requirements.

## Work Principle

Hot gas is generated by combustion of diesel fuel or heating oil EL mixed with cooling air. The used burner is distinguished by very low exhaust emissions and almost soot-free combustion.

## Technical Data

Hot gas outlet above floor	1,000 mm
Burner power (adjustable)	42 up to 90 kW
Hot gas temperature (adjustable)	300 up to 950 °C
Mass flow rate (at T <sub>max</sub> )	up to 300 kg/h
Overpressure capability	up to 1 bar
Fuel	diesel fuel / heating oil EL
Fuel consumption	1 kg/10 kWh
Lambda hot gas outlet	2.75 up to 10
Permanent sound-pressure level	79 dB (A)
Dimensions (LxWxD)	approx. 1,000 mm x 600 mm x 1,140 mm
Weight	approx. 170 kg



## Options

- Cycle operation
- Temperature regulation
- Computer-aided control
- PLC-aided control
- Mass flow measurement

## Contact

CALSIM - Gesellschaft für Simulationstechnik mbH  
 Konrad-Zuse-Straße 3  
 52477 Alsdorf / Germany  
 Phone: +49-2404-9870-160  
 Fax: +49-2404-9870-169  
 E-Mail: [info@calsim.de](mailto:info@calsim.de)  
 Internet: [www.calsim.de](http://www.calsim.de)