F1 | 400 kW Hot Gas Generator

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

calSIM

General

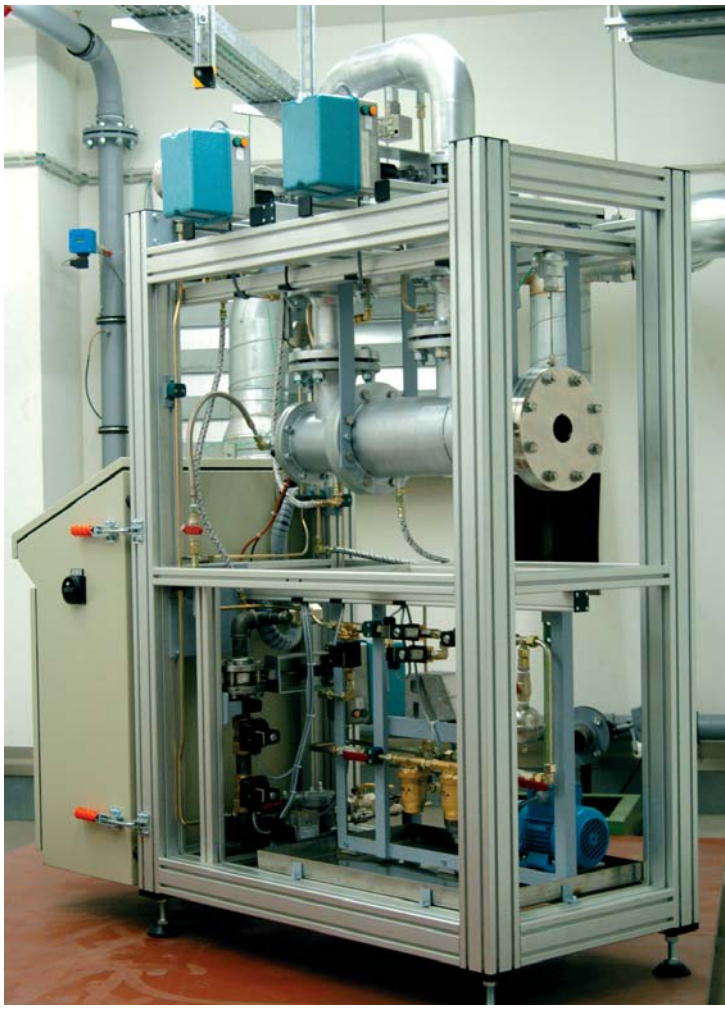
The Hot Gas Generator F1 produces hot gas for technical test purposes. In particular, the thermal tests of components in the vehicle exhaust system line will save time and take care of the environment. The modular set up enables the conception of arrangements for plain durability tests as well as for complex test requirements.

Work Principle

Hot gas is generated by combustion of natural gas mixed with cooling air. Due to its generous design (see Technical Data) this hot gas generator is applicable for future requirements.

Technical Data

Hot gas outlet above floor	1,100 mm
Burner power (adjustable)	up to 400 kW
Hot gas temperature (adjustable)	up to 1,200 °C
Temperature gradient	> 200 °C/s
Mass flow rate (at T_{max})	up to 1,000 kg/h (T_{max})
Overpressure capability	up to 6 bar
Fuel	natural gas
Natural Gas consumption	1 m³/10 kWh
Lambda hot gas outlet	2 to 13
Dimensions (LxWxD)	approx. 1,910 mm x 800 mm x 2,250 mm
Weight	approx. 300 kg



Options

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

Contact

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