

Environmental simulation

Noxious gas test / Corrosion test



Noxious gas tests are used to control the corrosion resistivity of metals and to determine the ageing speed of plastics and glass. Another important field for noxious gas tests is the control of coatings and coverings for leak tightness. Industrial and vehicle waste gases among others cause high noxious gas loads. Noxious gas tests are therefore often carried out for objects which are later used or fitted in heavily industrialized areas.

Technolab GmbH equipment includes a modular noxious gas – climatic simulation chamber in which a multitude of standard tests can be carried out. TechnoLab can also carry out customized noxious gas tests with differing gas concentrations and differing gas compositions. Tests with rarely used gases can be carried out after prior inquiry and feasibility checks.

Standards:

i.a.: DIN EN 60068-2-60; DIN IEC 60068-2-49; IEC 512;
DIN EN 19313; DIN EN 13919; EN 61300-2-28;
DIN EN ISO 3231; DIN EN 54-3; EN ISO 6988; DIN 50018;
Bellcore GR-1217; ETSI EN 300 019-1-3; VW 801.01 and
BMW-GS-95003

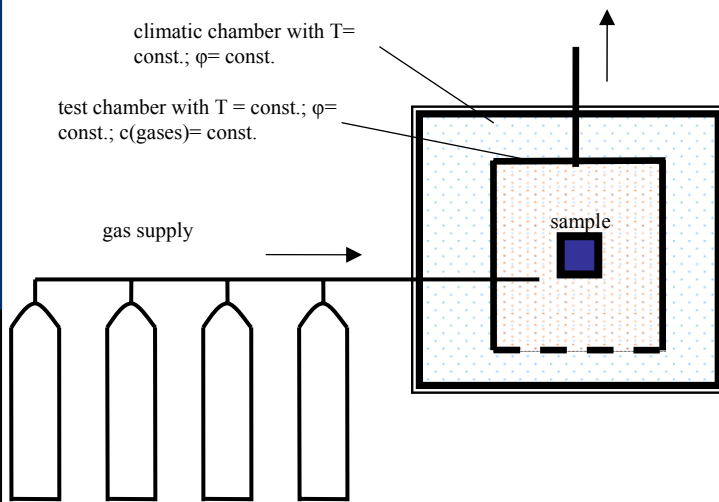
Characteristics and advantages:

- test chamber volume up to 300 liters
- several test chambers of various sizes
- various gases
- max. 60°C test temperature
- max. 99% humidity
- flowing gases
- still gases
- circulation method
- various flowing velocity
- various gas concentrations and gas compositions
- Parameter control
- tests online / offline

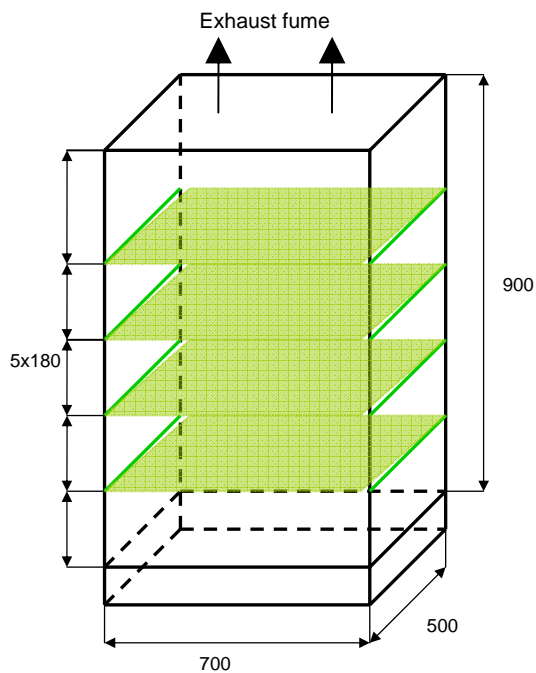
Technical specifications

test equipment	dimensions [cm]	test methods (single gas and gas mixtures)	temperature [°C]	humidity [%]	Volume flow [liters/h]	standard gases	concentration [ppm]
noxious gas I and II	90x70x50	flowing gases; still gas; circulation method	20-60	20-99	500-3000	SO ₂ ; H ₂ S; Cl ₂ ; NO ₂ ; O ₃	0.01-100

Technical details



Schema: noxious gas test system



Schema: test chamber

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