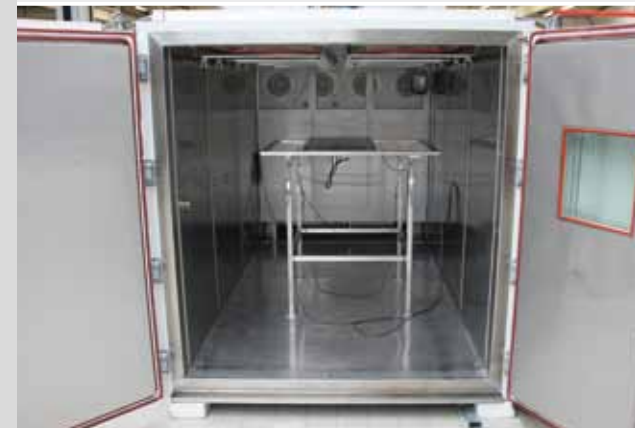
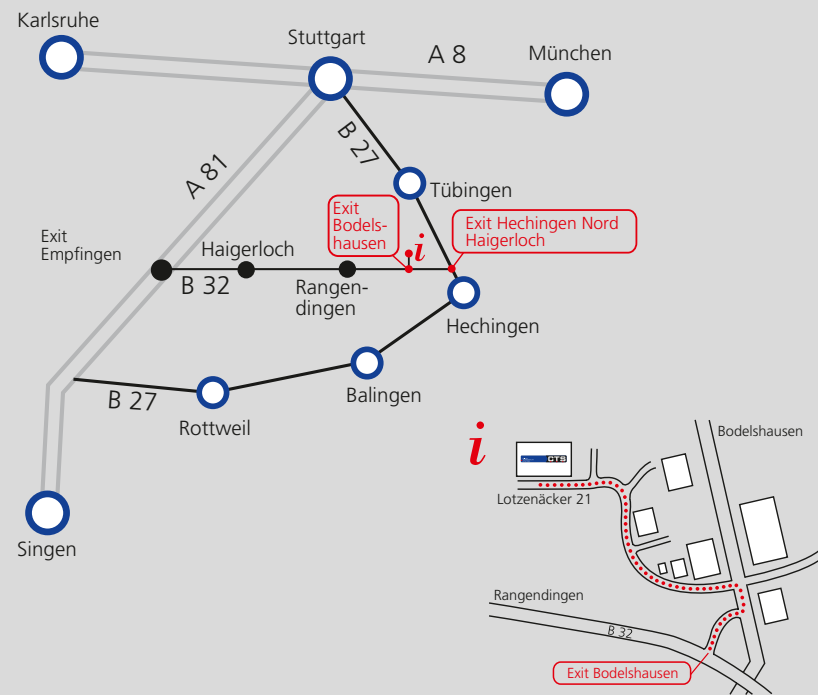


HOW TO FIND US:



**CTS – YOUR PARTNER
FOR CUSTOMISED
TECHNICAL SOLUTIONS**



CTS GMBH

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As a leading specialist in the production of environmental simulation devices for quality assurance, research and production, CTS also develop devices and special test equipment to customer specifications in addition to our standard equipment.

CTS GMBH

Our highly qualified employees with many years of professional experience compile technically optimised concepts to suit your special application requirements.

A large number of satisfied customers worldwide profit from the high quality and reliability of CTS products.



We can adapt all our standard test cabinets to suit your individual requirements. For example, whether you need a mobile door for a specific assembly of your test system, perform radiation tests with various light sources of different wavelengths or whether you require a single rack for storing test equipment, we are sure to have the suitable solution for your requests.

STANDARD EQUIPMENT WITH CUSTOMISED MODIFICATIONS



CTS climatic test cabinet with adjustable containers for checking the influence of corrosive gases on many different materials.

CORROSIVE GAS TEST CABINET

The container is removable and up to 4 measurement paths for test gases can be installed. A CTS climatic test cabinet is used as a basic device which, after dismantling of the set box, can be used for other tests.

Test gases possible: H₂S, SO₂, NO_x, Cl₂
Temperature range: +10°C bis +60°C
Humidity range: 10% bis 98% rel. H
Test volume: > 600 litre



CORROSION TEST CHAMBER, TO VDA STANDARDS – NEW

Temperature range:

-20°C bis +60°C controlled humidity

Test volume: >1000 litre

Standards: VDA NEW, DIN EN ISO 6270-2
VDA 621-415 and DIN EN ISO 9227

Corrosion test unit for use in the automotive industry, steel industry and aluminium industry conforming to the latest standards of changes in corrosion (VDA new). The test consists of a salt-spray cycle, an assessment cycle, followed by a cold cycle. Also existing checks can be carried out that conform to DIN EN ISO 9227 (previously DIN 50021), DIN EN ISO 6270-2 (previously DIN 50017) and checks conforming to VDA test 621-415.



CONDITIONING UNITS WITH OR WITHOUT BOX

The atmosphere required can be controlled with the aid of a conditioning unit, e.g., an external box or an external test area fitted with special temperature regulating hoses.

This flexible technical solution offers the advantage of operating several test boxes or areas alternately with the test climate required.



EQUIPMENT WITH LIGHT MODULES

(E.G. FOR DIN 75220)

Sunlight or other radiation of various intensities can cause rapid ageing or other detrimental effects when materials are exposed to the effects of weather.

CTS can offer suitable cabinets or chambers for simulating these effects.

With our standardised grid system, CTS test chambers are available for temperature ranges of -70°C to +180°C, slotted or welded. Our chambers are manufactured exclusively according to the requirements of

WALK-IN/MOBILE TEMPERATURE AND CLIMATIC TEST CHAMBERS

our customers. Equipped, either with light modules or as versions for vibration tests, corrosion checks (also VDA NEW), air bag activation as well as applications for explosion protection. If required, we can also provide inexpensive offers at short notice.

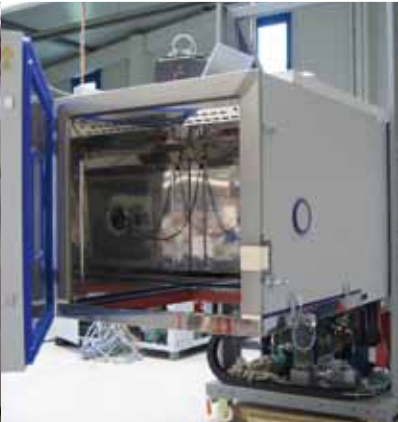
Test volume: > 2m³
Temperature range: -70°C to +180°C
Humidity range: 10% to 98% r. H.

VIBRATION TEST CABINETS

During transport or under high mechanical loading, your products can be subjected to vibrations or oscillations that have a negative influence on the quality and longevity of the products.

For simulating these effects, all demands, such as horizontal as well as vertical vibration, can be satisfied with the modular standardised construction of suitable CTS arrangements.

Test volumes of 50 to 2800 litres as well as special dimensions are available upon request.



During their lifetime, solar and photovoltaic modules are subjected to a large number of environmental factors. Amongst others, test to IEC 61215 and IEC 61646 standards can be performed in our solar chambers. We have cabinets or chambers available to suit the size of your modules.

TEST CHAMBERS AND TEST CABINETS FOR SOLAR AND PHOTOVOLTAIC INDUSTRIES

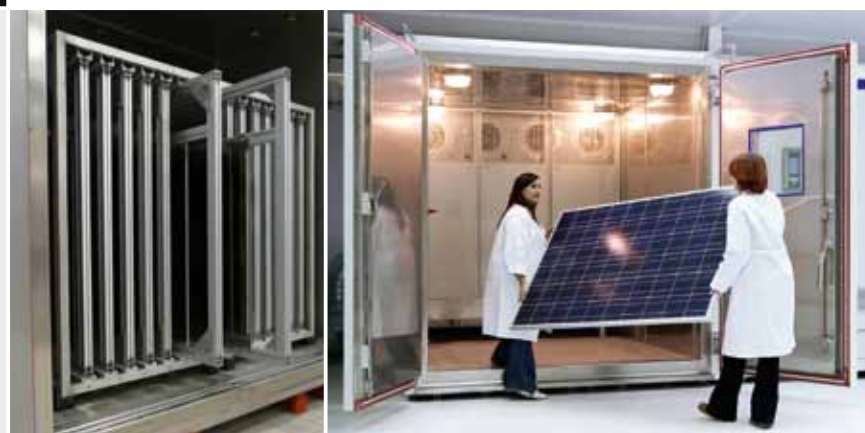
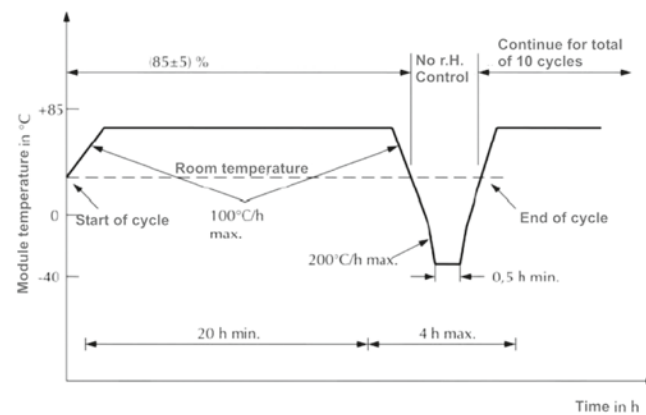
If required, we can offer you a customised rack to accommodate the solar modules.

- Test volume** ≥1500 litre
- Temperature range:** -70°C to +180°C or +10°C to +90°C
- Humidity range:** 10% to 95% r. H.
- Standards:** e.g. IEC 61215, IEC 61646

We develop drafts and systems according to the latest state of technology.

PERMANENTLY INNOVATIVE

We are continuously developing new concepts and systems, e.g. generator benches and vacuum chambers. As a customer, you give us the job and we will accept your challenge.



EXPLOSION-PROTECTED SYSTEMS AND CABINETS:

- for testing with organic media, which can form explosive vapours when mixed with air

Depending on your test materials, various security concepts are possible, such as for example, indirect temperature regulation or inertisation. Our equipment is supplied complete with a suitable certification issued by the safety standards authority according to ATEX directives.

- for new propulsion technologies in the automotive industry

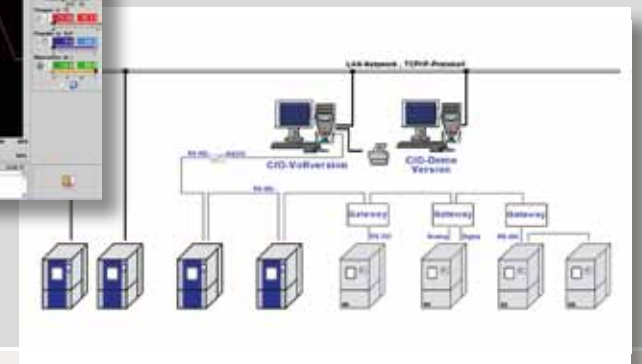
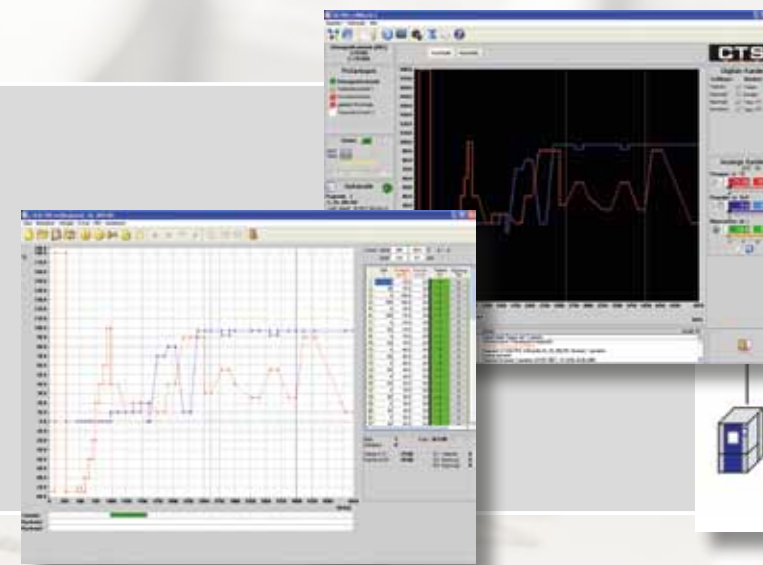
New alternative propulsion concepts, from hybrid technologies to electric mobility, require special attention in checking the quality and reliability of the Li-Ion batteries or fuel cells.



We provide you with individual solutions for your special application. We can also supply standardised systems. Our proven security facilities can be supplemented according to the internal hazard analysis of your company, so that if requested, we can offer a complete security management system.

TOUCH PANEL

Like all of our standardised devices, all customised devices and special systems are equipped, with our user-friendly Touch Panel. It is easy to use while at the same time fulfilling technically complex demands. It is operated by fixed keys for elementary equipment functions, a digital display of the temperature and humidity values in colour, graphic curve charts and many other functions.



CID 4.0 SOFTWARE

With the aid of our powerful CID software you can program your test cycles for up to 32 devices and document the results.

All significant data from the equipment is recorded and can be easily reviewed. The cycles required can be programmed and your measured results can be evaluated. Operation has never been so easy and user-friendly!

CTS SALES AND SERVICE ORGANISATION

CTS operate a close worldwide distribution and service network. Our committed and flexible engineers and technicians can provide our services at short notice on site and provide competent and reliable assistance.

Our CTS quality management to DIN EN ISO 9001:2000 standards, as well as our CTS test laboratory which was accredited by the German calibration authority, guarantees our customers the highest quality at the best price/performance ratio.

