



New product release of WUT

Weiss Umwelttechnik GmbH, Germany is one of the most important producers of standard testing chambers and systems for environmental simulation worldwide. The product range comprises temperature and climate testing systems as well as test systems for simulated exposure to weather, temperature shock, corrosion and for long-time testing in various test chamber volumes. Walk-in /drive-in chambers and process-integrated plants for environmental simulation and biology are designed, produced and installed in accordance with customer specifications. Weiss Umwelttechnik is certified according to DIN EN ISO 9001.

Structural Solutions Private Limited is the authorized exclusive Indian representative of "Weiss Umwelttechnik GmbH". Structural Solutions Private Limited is a professional Engineering Company engaged in offering high-end technology-intensive products and systems solutions for the complete range of "Environmental Chambers".



Environmental Test Chambers

Climate Test Chamber with additional ex-protection

The climate test chamber WK- 600/70 (size 600 liters) for testing of fuel pumps is now equipped with "additional ex-protection".

To prevent the formation of an explosive gas/air mixture in the test space, a nitrogen inert gas purging system with continuous control of O₂ concentration has been installed. The chamber is released for ex-protection if the limit O₂ concentration is lower than 3%.

This value is kept constant by means of a nitrogen purge volume being controlled by O₂ sensors. If this value is exceeded the chamber will not be ready for operation (error), which will be indicated by a pilot lamp shown below.



Additional safety devices

- Differential pressure control
- Automatic door lock
- Surface temperature sensor
- Fluoride silicon door seals
- Locked access ports
- Protected socket
- Locked condensate drain
- Test chamber lighting from outside

Technical Data

- Temperature range C70 ... +180°C
- Cooling-down rate 2.5 K/min
- Heating-up rate 4.0 K/min (acc. to standard IEC 60068-3-5)
- Climate range 10 ... 98 % r.h.
- Temperature range +10 ... +95°C
- Dew point temp. range +4 ... +94°C (emitt. C3°C)
- Heat compensation 2400 W
- Sound pressure level approx. 63 dB(A)

Design

- Chamber door with port holes
- Protection system against condensation
- Colour touch panel
- Air-cooled refrigerating cascade
- Automatic water replenishment

SC/KWT - Salt Spray Test Chamber with extension for climate operation

The SC/ KWT series of the Salt Spray Test Chamber is now available with extension for climate operation to generate controlled climate in the test space. That means, salt spray test and condensation water tests can be run automatically alternately with controlled climate tests complying with the relevant standards.



Working ranges for Climate tests

- Temperature Range between +23°C and +60°C
- Relative humidity adjustable between 10 and 95 % Constancy in time ≤ 6 % r.h.
- Dew point temperature between +10 and +59°C.

Salt spray tests

- Temperature range between room temperature (+5K) and +50°C
- Constancy in time ± 1 K

Condensation water test climate

- Temperature range between room temperature (+5K) and +45°C
- Constancy in time ± 1 K

The following **test standards** can be operated with the **SC/KWT**:

- Nissan NES Mus0158 + M0007
- Volkswagen PV 1210
- CCT I, II, IV
- GM 9540 P
- Toyota TSH 1555 G
- JASO M610-92
- SAE J 2334
- KWT-DC (without chilling)
- Bosch N42AP 108
- IEC 68-2-52
- Volvo STD 1027, 1375 & Volvo STD 1027, 14
- Renault D 172028/ __B; ECC1

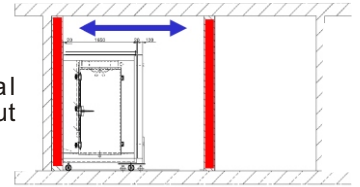
Liquid Shock Test Chamber

Liquid Shock Test chamber type WT 20/40-130/FS-S is available.

The lower part of Liquid Shock Test chamber comprises the machine unit including the refrigeration unit and the temperature conditioning system. The upper part of the chamber is protected by a hood and comprises the test space with the two specimen baskets. The oil temperature of both baths is preselected separately of each other. The baskets are lifted or lowered and turned from one oil bath to the other by means of pneumatic cylinders of the integrated lifting-rotary device.



By this modification it is possible to move the chamber between two test walls and therefore to test several specimens in series without wasting too much time.



The chamber is moved on rails. Depending on the test, the chamber with the mobile insulated side walls is either sealed vapour tight at the left or at the right side.

Technical Data

- Interior dimensions: H 2.1 x W 2.6 x D 1.65 m
- Exterior dimensions: H 2.34 x W 2.84 x D 1.65 m
- Door dimensions: H 1.9 x W 0.9 m
- Material: total in stainless steel (pic.: protection film)
- Insulation: 120 mm PU
- Floor load: 2 kN/m² surface load

Working ranges

- Temperature range: -40 to +90°C
- Temp. constancy: ±1 K (spatial)
- Temperature change rates
Cooling: 1,0 K/min (between +70 ... +15 °C)
Heating: 1,0 K/min (between -20 ... +50 °C)
- Climate range: +15 to +70°C
- Temperature constancy: ±1 K (spatial)
- Humidity range: 10 to 95 % r.h.
- Humidity constancy: ± 5 % r.h.
- Dew point temperature range : +5 to +59°C

SIMPATI* Version 3.0

The new software update simpati version 3.0 is available with the following improvements:

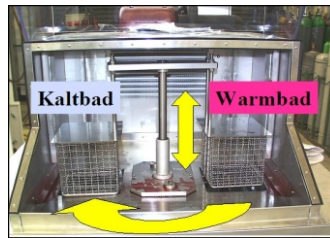
- Networking of up to 99 test systems
- New surface for system information
- New user administration
- Documentation in pdf format configurable calculating functions (e.g. averaging, setpoint /actual value difference, etc.)
- SIMPATI* web server expanded
- Connection to OPC server [OPC server permits exchange of data to systems of different suppliers]
- Connection to Keyword SQL Server , a standard interface for connection of databases
- Simpati barcode scanner handling in connection to an SQL database.

Complete range of Temperature and Climate testing Systems, Test systems for simulated exposure to weather, Temperature, Shock, Corrosion, Walk-in /drive-in Chambers will be offered in Rupees or in Foreign Exchange at competitive prices by **Structural Solutions Private Limited**

➡ For further product & application details please contact:

Technical Data

- Oil temperature cold bath
Gear oil: +30 ... ±0°C
DO5 oil: +30 ... -40°C
- Oil temperature hot bath : +50 ... +150°C
- Relocation time approx. 15 seconds



Climate Test Chambers with

drawers

To facilitate delivery of special specimens into the test space, the chambers are now provided with Drawers of different design as an option.



With the version shown down right each individual specimen can be drawn out of the test space, without considerably changing the actual temperature and climate condition inside the test space.

Testing outside thermal insulation bounded systems with plaster

The new Mobile walk-in climate test chamber type WK 10/40-90 is exclusively designed to test plastered outwalls for temperature & humidity effect and rain.



The chamber has only three outwalls, and the broadside is directly connected to the specimen outwall. The other side wall is also mounted onto a mobile base frame. This mobile side wall is fixed to the chamber by means of bolt lever fasteners.

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