

Walk-in Temperature and Climate Test Chamber with sunlight simulation

Type WK 14'/40-90So

SBA: Automotive

Application

This type of test chamber is designed for performing ageing tests on vehicle components, such as dashboards etc.

It allows the performance of combined temperature-climate tests with sunlight simulation in accordance with DIN 75220 and BMW regulation Pr306.5.

Function

A recirculated air system installed at the rear of the test space allows the test space air to be conditioned. The recirculated air withdrawn from the test space is re-supplied into the test space on ground level. This type of air flow reduces the heat emitted by the radiation device into the test space.

Special glass panes seal off the test space against the radiation device (see figure below). Thanks to purging with dried, compressed air the gap between lamps and panes is kept free from condensation. The glass panes are characterised by a high transmission rate in a broad radiation spectrum.

The test chamber is operated via the test stand PC with our Simpati software. The control of the radiation device is an integral part of the test chamber control unit.

Additional solutions

Global-UV Test Units

Plug-in Climate Test Chambers with sunlight simulation

Technical data

Temperature range:	-40°C...+90°C
Temperature change:	≥ 1.4K/min
Thermal loads:	up to 12kW
Climate working range:	+10°C ...+90°C
Dew points:	up to max. +78°C
Sunlight simulation:	DIN75220, outdoor
HMI lamps:	9 pcs., each 2500Watt
Radiation intensity:	up to 1,100W/m ²
Irradiated area:	2000mm x 2000mm
Required energy and supply facilities:	cooling water, humidifier water, compressed air, power supply 400V / 3PH

The ceiling cut-outs for the radiators are heated and purged with dried, compressed air.

