KÖHLER TESTING TECHNOLOGIES VLM

Product Data Sheet

CCT 600-TL D (+55°C)

Relevant Test Standards:

Cyclic Corrosion Tests:
- DIN EN ISO 11997-1:2006 Cycle B (previously VDA 621-415, maybe climatic module required)
- VW PV 1210 (climate module required)

Water condensation tests:
- DIN EN ISO 6270-2:2005 (CH, AT, AHT)
- BS 3900 F2
- BS 3900 F15
- ASTM D2247

Salt Spray Test:
- DIN EN ISO 9227
- DIN 50942, DIN 53167
- ASTM B 117-73, ASTM B 287-74
- ASTM B 368-68
- ISO 7253 ISO 3678
- BS 1224, BS 2011, BS3900 F4
- BS 3900 F12
- BS 5466 Part I, BS 5466 Parts 2 + 3
- NFX 41002
- IEC 60028-2-11 KA
- AS 21331 Section 3.1
- SIS 1841190
- JIS Z 2371

Product Description

Compact top- loading cabinet model developed to conduct standard cyclic corrosion tests pursuant to the most of international and corporate standards in automotive industry i.e.:

- **DIN EN ISO 11997-1:2006 Cycle B (previously VDA 621-415)**
- **VW PV 1210 (external climate module required)**

Also suitable for the standard corrosion tests:

- **Water Condensation acc. DIN EN ISO 6270-2:2005, ASTM D2247**
- **Salt Spray acc. to ISO 9227 (NSS, AASS, CASS), IEC 60028-2-11 KA**

Legend

SAL – Salt spray test

CH – Constant Humidity

AT – Alternating Temperature

AHT- Alternating Humidity and Temperature

AIR – Forced air circulation

AWRF – Automatic water refill

WA – Warm Air

Customer Benefits

- Cost effective solution for standard corporate tests DIN EN ISO 11997-1:2006 Cycle B (previously VDA 621-415) and VW PV 1210 as well as basic salt spray (SAL) and water condensation corrosion tests (CH, AT, AHT)
- Compact top loading (chest) design
- The Köhler- VLM technology allows the best possible reproducibility of the temperature conditions
- The test chamber with the bottom made of steel is more robust compared to the competitive products made of glass reinforced plastic
- Lower cost of ownership compared to the competitive products where the test chamber is made of glass reinforced plastic (shorter test periods, better energy efficiency, easier for service and maintenance, longer life cycle, more resistive to mechanical damages)
- User friendly control system with a number of preconfigured corrosion tests

Order Information

Basic model:

CCT 600-TL-D

Article numbers version:

- V.734.065.650 (CCT 600-TL D)

Operating System Salt Spray (SAL) according to ISO 9227

- Electronic membrane pump
- Hi-end nozzle for two fluids (test solution and compressed air) with adjustable air cap made of polycarbonate with PEEK
- Transparent humidifier of Duran glass with easily replaceable PE-sintered filters for fine distribution of compressed air or full saturation with moisture and automatic water refill
- Manually activated air purge for evacuating the salt fog out of the test area before opening the lid

Sales & Support:

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Specification subject to changes

Pictures might differ from original

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Product Data Sheet

CCT 600-TL D (+55°C)

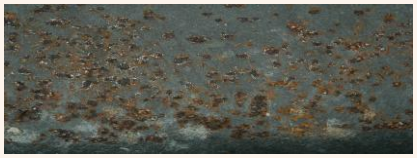
Relevant Test Standards:

Cyclic Climate Tests:

- DIN EN ISO 11997-1:2006 Cycle B (previously VDA 621-415 maybe climatic module required)
- VW PV 1210 (climate module required)

Water condensation tests:

- DIN EN ISO 6270-2:2005
- BS 3900 F2
- BS 3900 F15
- ASTM D2247



Salt Spray Test:

- DIN EN ISO 9227
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Figure 1 Jumo Dicon Touch controller

Accessories included:

- **6 rods for supporting test specimen**
- **2 m exhaust hose Ø 50 mm**
- **2 m drain water hose Ø 18 mm**
- **1 female connector for compressed air hose (size no. 5)**

Technical Specifications	
Capacity	ca. 600 L
Inner test chamber dimensions (WxDxH1/H2)	ca. 910 x 710 x 660 / 1000 mm
Outer dimensions of the casing (WxDxH)	ca. 1436 x 795 x 1192 mm
Required power supply	230V, 50/60Hz, 2800W
Materials used	The walls of the chamber are made of Polypropylene while the bottom is made of stainless steel and coated with ECTFE. The walls have milled openings for supporting rods
Heating	- Flat Micanite heaters under the bottom of the chamber for fast and uniform heat transfer, - Air heating system for ventilation with warm air
Sensors	- 1x corrosion resistant and highly sensitive temperature sensor
Temperature stability	±0,5°C
Aeration	timer controlled built-in fan (capacity ca. 30 m³/h)
Controller	Versatile Jumo Dicon touch programmable controller with colour display. Ability to store up to 50 test programs. **Note:** Data logging via separate Jumo software possible
Weight	230 kg
Communication	USB interface and PC communication software are optional
Other specification	
Purity demineralized water / chamber filling volume / fitting	< 5 µS/cm / ca. 3,5 L / ¾“ outer diameter Option: chamber washing
Tap water (connection type)	Always via Ion-exchanging cartridge (¾“ outer diameter)
Compressed Air	6-8 bar (connection nipple size 5)
Waste water, drain	Pipe fittings (spiral hose ID 18 mm)
Exhaust pipe outer diameter	Pipe fitting (50 mm external diameter)
Number of supporting rods / max load	5 stainless steel rods coated with plastic / 30 kg each

Process control

- User friendly Jumo Dicon Touch controller with colour touch screen
- Restricted access for operators to three different operating levels
- Memory storage with the capacity to hold up to 10 test programs with most common corrosion tests already preconfigured in the factory
- The controller steers the external climate module for the tests which require air conditioning (typically PV 1210)
- Overview of all digital and analog inputs / outputs
- Logging test results is possible but requires optional PC communication software in order to transfer test data from the controller to the PC

Operating system Constant Humidity (CH) according to ISO 6270-2

- Flat heaters under the bottom of the chamber for uniform and rapid heating of the water in the trough
- Temperature stability in the chamber ± 0,5°C
- Air fan with adjustable rotation speed for controllable drying of specimen in the Drying Phase;
- Parameters for standard water condensation tests are already preconfigured

Operating system Forced Air Drying / Aeration

- Aeration with environmental air
- Adjustable air distribution system inside the test chamber for uniform drying of the test specimens
- Fan with controllable rotation speed
- Option: Air conditioning module for providing standard climate acc. to DIN 50014: ambient air at 23°C ±2°C and 50% ±5% RH