



Product Data Sheet

SAL/CON 600-TL (+55°C)

Relevant Test Standards

Water Condensation Tests:

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



Salt Spray Tests:

- 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,
- AS 21331 Section 3.1
- SIS 1841190
- JIS Z 2371
- IEC 60028-2-1 KA

Legend

- CH - Constant Humidity
- AT - Alternating Temperature
- AHT - Alternating Humidity and Temperature
- AIR - Forced air circulation
- AWRF - Automatic Water Refill

Order Information

Basic model:

SAL 600-TL

Article numbers version:

- V.714.065.050 (SAL)

Basic model:

SAL/CON 600-TL

Article numbers version:

- V.724.465.050 (AIR, AWRF)

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Specification subject to changes

Pictures might differ from original



Product Description

This compact and easy to operate top loading corrosion test chest is designed for conducting salt spray tests pursuant to the most common salt spray and water condensation corrosion tests such as:

- DIN EN ISO 9227
- IEC 60028-2-11 KA
- DIN EN ISO 6270-2:2005 (CH) constant humidity
- DIN EN ISO 6270-2:2005 (AT) alternating temperature
- ASTM D2247

Cabinets with AIR option are applicable for the additional water condensation tests:

- DIN EN ISO 6270-2:2005 (AHT) alternating temperature and humidity

Customer Benefits

- Cost effective solution for basic salt spray (SAL) and water condensation corrosion tests (CH, AT, AHT)
- Compact top loading (chest) design
- The VLM technology allows the best possible reproducibility of the temperature conditions
- The test chamber with the bottom made of steel is more robust and less susceptible for damages 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 preconfigured test parameters
- Test chest is made of recyclable materials



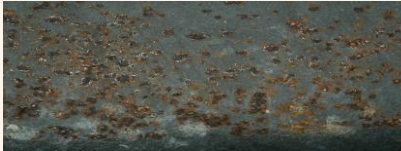
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Figure 1 Jumo controller

Accessories included

- 6 rods for supporting test specimen
- 2 m exhaust hose Ø 50 mm
- 2 m drain water hose Ø 32 mm
- 1 female connector for compressed air hose (size no. 5)

Technical Specifications

Capacity	ca. 600 L
Inner test chamber dimensions W/D/H1/H2	ca. 910 x 710 x 660 / 1000 mm
Outer dimensions of the casing (overall) W/D/H	ca. 1436 x 795 x 1192 mm
Required power supply	230V, 50/60Hz, 2000W
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
Sensors	- 1x corrosion resistant and highly sensitive temperature sensor
Temperature stability	±0,2°C
Aeration (type AIR)	timer controlled built-in fan (capacity ca. 16 m³/h)
Timer	Two channel timer for automated switch over from heating to aeration mode
Weight	230 kg
Communication	RS 232 interface (optional)
Other specification	
Purity demineralized water / filling volume / fitting	< 5 µS/cm / ca. 3,5 L / ¾" outer diameter Option: Automatic water refill
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 32 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, microprocessor based controller (Figure 1)
- Programmable timer function
- **Option:** VisiCORR® software for visualisation of test trends, only in combination with RS 232 (option)
- Restricted access for authorised operators (security code)

Operating system salt spray test (SAL) according to ISO 9227

- Electronically controlled self-venting membrane pump with electronic flow check (flow quantity and bubble detector)
- 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 in order to blow out the salt mist from the test area before opening the lid

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;

Operating system AIR

- A fan with controllable RPM is used for forced drying phase after the Constant Humidity phase

Operating system AWRF

- System for automatic refilling of the water in the trough of the chamber at the beginning of the Constant Humidity test.